NTIA Space record data form

NTIA requires the following data for space related experiments using government shared spectrum. For each transmit frequency, please provide the data for both ends of the transmit-receive link. Use Part A to describe the satellite to ground information. Part B is for all ground to space transmit links.

## Part A: Space to Earth Downlink Data

Satellite Transmitter Data

| Transmit Frequency: | | |
|---|---|---|
| Satellite Name: | | |
| **Data Field** | **Data Answer** | **Description/Comments** |
| Polarization (XAP) | XAP = | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Orientation (XAZ) | XAZ = | NB= NARROWBEAM<br>EC = EARTH COVERAGE |
| Antenna Dimension (XAD) | ANTENNA GAIN =<br>BEAMWIDTH =<br>XAD = | (NTIA format (XAD), EXAMPLE, XAD01 16G030B) |
| Type of satellite (State = SP) (City = geo or non) | Type = | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |
| For Nongeostationary (Orbital Data) | INCLINATION ANGLE_____,<br>APOGEE IN KILOMETERS_____,<br>PERIGEE IN KILOMETERS_____,<br>ORBITAL PERIOD IN HOURS _____AND FRACTIONS OF HOURS IN DECIMAL_____,<br>THE NUMBER OF SATELLITES IN THE SYSTEM_____,<br><br>ORB = | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |
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| | | |

| **Earth Station Data (Receiver)** | | |
|---|---|---|
| State (RSC) | RSC = | |
| City Name (RAL) | RAL = | |
| Latitude (DDMMSS) | Lat = | |
| Longitude (DDDMMSS) | Lon = | |
| Antenna Polarization (RAP) | RAP = | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Antenna Azimuth (RAZ) | RAZ = | THE EARTH STATION RECEIVER ANTENNA AZIMUTH (RAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Antenna Dimensions (RAD) | ANTENNA GAIN_____,<br>BEAMWIDTH_____,<br>AZIMUTHAL RANGE_____,<br>THE SITE ELEVATION ABOVE MEAN SEA LEVEL IN METERS _____<br>THE ANTENNA HEIGHT ABOVE TERRAIN IN METERS _____<br><br>RAD = | EXAMPLE ASSUMING NONGEOSTATIONARY,<br>RAD01 16G030B000-360A00357H006 |

FCC notes:

1. Use S-Note S945.
2. REM AGN, Cubesat, (insert name)

**Part B: Ground Stations, Earth to Space link data:**

Earth Station Transmitter Data #1

| | | |
|---|---|---|
| Transmit Frequency: 148.300-148.420 MHz | | |
| State (XSC) | XSC = CA | |
| City Name (XAL) | XAL = Palo Alto | |
| Latitude (DDMMSS) | Lat = 37 27 18 N | |
| Longitude (DDDMMSS) | Lon = 122 06 39 W | |
| Antenna Polarization (XAP) | XAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Antenna Azimuth (XAZ) | XAZ = V00 | THE EARTH STATION Transmitter ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, XAZ01 V00 |
| Antenna Dimensions (XAD) | ANTENNA GAIN__11.0_____,<br>BEAMWIDTH__50_____,<br>AZIMUTHAL RANGE__0 to 360_____,<br>THE SITE ELEVATION ABOVE MEAN SEA LEVEL IN METERS __3_____<br>THE ANTENNA HEIGHT ABOVE TERRAIN IN METERS __3_____<br><br>XAD = 11G050B000-360A00003H003 | EXAMPLE ASSUMING NONGEOSTATIONARY,<br>XAD01 16G030B000-360A00357H006 |
| **Satellite Receive Specifications (SPACEBEE-1, SPACEBEE-2, SPACEBEE-3, SPACEBEE-4)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF<br>ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.14 dBi<br>BEAMWIDTH = 90<br>RAD = 02G090B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |

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|---|---|---|
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |
| For Nongeostationary (Orbital Data) | INCLINATION ANGLE____97.5_____,<br>APOGEE IN KILOMETERS____500_____,<br>PERIGEE IN KILOMETERS_____500____,<br>ORBITAL PERIOD IN HOURS __1__AND FRACTIONS OF HOURS IN DECIMAL___0.577___,<br>THE NUMBER OF SATELLITES IN THE SYSTEM_____4_____,<br><br>ORB =<br>97.5IN00500AP00500PE001.58H04NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |
| **Satellite Receive Specifications (SPACEBEE-5, SPACEBEE-6, SPACEBEE-7)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.00 dBi<br>BEAMWIDTH = 60<br>RAD = 02G060B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |
| For Nongeostationary (Orbital Data) | INCLINATION ANGLE___98_____,<br>APOGEE IN KILOMETERS___575_____,<br>PERIGEE IN KILOMETERS___575_____,<br>ORBITAL PERIOD IN HOURS __1____AND FRACTIONS OF HOURS IN DECIMAL__0.603____,<br>THE NUMBER OF SATELLITES IN THE SYSTEM___3_____,<br><br>ORB =<br>98.0IN00575AP00575PE001.60H03NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |

Earth Station Transmitter Data #2

| | | |
|---|---|---|
| Transmit Frequency: 148.300-148.420 MHz | | |
| State (XSC) | XSC = UT | |
| City Name (XAL) | XAL = Draper | |
| Latitude (DDMMSS) | Lat = 40 28 53 N | |
| Longitude (DDDMMSS) | Lon = 111 49 23 W | |
| Antenna Polarization (XAP) | XAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Antenna Azimuth (XAZ) | XAZ = V00 | THE EARTH STATION Transmitter ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, XAZ01 V00 |
| Antenna Dimensions (XAD) | ANTENNA GAIN__11.0_____,<br>BEAMWIDTH__50_____,<br>AZIMUTHAL RANGE__0 to 360_____,<br>THE SITE ELEVATION ABOVE MEAN SEA LEVEL IN METERS __1798_____<br>THE ANTENNA HEIGHT ABOVE TERRAIN IN METERS __3_____<br><br>XAD = 11G050B000-360A01798H003 | EXAMPLE ASSUMING NONGEOSTATIONARY,<br>XAD01 16G030B000-360A00357H006 |
| **Satellite Receive Specifications (SPACEBEE-1, SPACEBEE-2, SPACEBEE-3, SPACEBEE-4)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF<br>ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.14 dBi<br>BEAMWIDTH = 90<br>RAD = 02G090B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |

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|---|---|---|
| For Nongeostationary (Orbital Data) | INCLINATION ANGLE____97.5_____,<br>APOGEE IN KILOMETERS____500_____,<br>PERIGEE IN KILOMETERS_____500____,<br>ORBITAL PERIOD IN HOURS __1__AND FRACTIONS OF HOURS IN DECIMAL___0.577___,<br>THE NUMBER OF SATELLITES IN THE SYSTEM_____4_____,<br><br>ORB = 97.5IN00500AP00500PE001.58H04NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |
| **Satellite Receive Specifications (SPACEBEE-5, SPACEBEE-6, SPACEBEE-7)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.00 dBi<br>BEAMWIDTH = 60<br>RAD = 02G060B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |
| For Nongeostationary (Orbital Data) | INCLINATION ANGLE___98_____,<br>APOGEE IN KILOMETERS___575_____,<br>PERIGEE IN KILOMETERS___575_____,<br>ORBITAL PERIOD IN HOURS __1____AND FRACTIONS OF HOURS IN DECIMAL__0.603____,<br>THE NUMBER OF SATELLITES IN THE SYSTEM___3_____,<br><br>ORB = 98.0IN00575AP00575PE001.60H03NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |

Earth Station Transmitter Data #3

| | | |
|---|---|---|
| Transmit Frequency: 148.300-148.420 MHz | | |
| State (XSC) | XSC = GA | |
| City Name (XAL) | XAL = Flowery Branch | |
| Latitude (DDMMSS) | Lat = 34 11 32 N | |
| Longitude (DDDMMSS) | Lon = 083 56 28 W | |
| Antenna Polarization (XAP) | XAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Antenna Azimuth (XAZ) | XAZ = V00 | THE EARTH STATION Transmitter ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, XAZ01 V00 |
| Antenna Dimensions (XAD) | ANTENNA GAIN__11.0_____,<br>BEAMWIDTH__50_____,<br>AZIMUTHAL RANGE__0 to 360_____,<br>THE SITE ELEVATION ABOVE MEAN SEA LEVEL IN METERS __348_____<br>THE ANTENNA HEIGHT ABOVE TERRAIN IN METERS __3_____<br><br>XAD = 11G050B000-360A00348H003 | EXAMPLE ASSUMING NONGEOSTATIONARY,<br>XAD01 16G030B000-360A00357H006 |
| **Satellite Receive Specifications (SPACEBEE-1, SPACEBEE-2, SPACEBEE-3, SPACEBEE-4)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF<br>ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.14 dBi<br>BEAMWIDTH = 90<br>RAD = 02G090B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |

| | | |
|---|---|---|
| For Nongeostationary (Orbital Data) | INCLINATION ANGLE____97.5_____,<br>APOGEE IN KILOMETERS____500_____,<br>PERIGEE IN KILOMETERS_____500____,<br>ORBITAL PERIOD IN HOURS __1__AND FRACTIONS OF HOURS IN DECIMAL___0.577___,<br>THE NUMBER OF SATELLITES IN THE SYSTEM_____4_____,<br><br>ORB = 97.5IN00500AP00500PE001.58H04NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |
| **Satellite Receive Specifications (SPACEBEE-5, SPACEBEE-6, SPACEBEE-7)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.00 dBi<br>BEAMWIDTH = 60<br>RAD = 02G060B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |
| For Nongeostationary (Orbital Data) | INCLINATION ANGLE___98_____,<br>APOGEE IN KILOMETERS___575_____,<br>PERIGEE IN KILOMETERS___575_____,<br>ORBITAL PERIOD IN HOURS __1____AND FRACTIONS OF HOURS IN DECIMAL__0.603____,<br>THE NUMBER OF SATELLITES IN THE SYSTEM___3_____,<br><br>ORB = 98.0IN00575AP00575PE001.60H03NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |

Earth Station Transmitter Data #4

| | | |
|---|---|---|
| Transmit Frequency: 148.300-148.420 MHz | | |
| State (XSC) | XSC = TX | |
| City Name (XAL) | XAL = Austin | |
| Latitude (DDMMSS) | Lat = 30 12 32 N | |
| Longitude (DDDMMSS) | Lon = 097 40 38 W | |
| Antenna Polarization (XAP) | XAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Antenna Azimuth (XAZ) | XAZ = V00 | THE EARTH STATION Transmitter ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, XAZ01 V00 |
| Antenna Dimensions (XAD) | ANTENNA GAIN__11.0_____,<br>BEAMWIDTH__50_____,<br>AZIMUTHAL RANGE__0 to 360_____,<br>THE SITE ELEVATION ABOVE MEAN SEA LEVEL IN METERS __186_____<br>THE ANTENNA HEIGHT ABOVE TERRAIN IN METERS __3_____<br><br>XAD = 11G050B000-360A00186H003 | EXAMPLE ASSUMING NONGEOSTATIONARY,<br>XAD01 16G030B000-360A00357H006 |
| **Satellite Receive Specifications (SPACEBEE-1, SPACEBEE-2, SPACEBEE-3, SPACEBEE-4)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF<br>ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.14 dBi<br>BEAMWIDTH = 90<br>RAD = 02G090B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |

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| For Nongeostationary (Orbital Data) | INCLINATION ANGLE____97.5_____,<br>APOGEE IN KILOMETERS____500_____,<br>PERIGEE IN KILOMETERS_____500____,<br>ORBITAL PERIOD IN HOURS __1__AND FRACTIONS OF HOURS IN DECIMAL___0.577___,<br>THE NUMBER OF SATELLITES IN THE SYSTEM_____4_____,<br><br>ORB = 97.5IN00500AP00500PE001.58H04NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |
| **Satellite Receive Specifications (SPACEBEE-5, SPACEBEE-6, SPACEBEE-7)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.00 dBi<br>BEAMWIDTH = 60<br>RAD = 02G060B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |
| For Nongeostationary (Orbital Data) | INCLINATION ANGLE___98_____,<br>APOGEE IN KILOMETERS___575_____,<br>PERIGEE IN KILOMETERS___575_____,<br>ORBITAL PERIOD IN HOURS __1____AND FRACTIONS OF HOURS IN DECIMAL__0.603____,<br>THE NUMBER OF SATELLITES IN THE SYSTEM___3_____,<br><br>ORB = 98.0IN00575AP00575PE001.60H03NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |

Earth Station Transmitter Data #5

| | | |
|---|---|---|
| Transmit Frequency: 148.300-148.420 MHz | | |
| State (XSC) | XSC = GA | |
| City Name (XAL) | XAL = Cumming | |
| Latitude (DDMMSS) | Lat = 34 05 31 N | |
| Longitude (DDDMMSS) | Lon = 084 11 13 W | |
| Antenna Polarization (XAP) | XAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Antenna Azimuth (XAZ) | XAZ = V00 | THE EARTH STATION Transmitter ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, XAZ01 V00 |
| Antenna Dimensions (XAD) | ANTENNA GAIN__11.0_____,<br>BEAMWIDTH__50_____,<br>AZIMUTHAL RANGE__0 to 360_____,<br>THE SITE ELEVATION ABOVE MEAN SEA LEVEL IN METERS __355_____<br>THE ANTENNA HEIGHT ABOVE TERRAIN IN METERS __3_____<br><br>XAD = 11G050B000-360A00355H003 | EXAMPLE ASSUMING NONGEOSTATIONARY,<br>XAD01 16G030B000-360A00357H006 |
| **Satellite Receive Specifications (SPACEBEE-1, SPACEBEE-2, SPACEBEE-3, SPACEBEE-4)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF<br>ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.14 dBi<br>BEAMWIDTH = 90<br>RAD = 02G090B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |

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| For Nongeostationary (Orbital Data) | INCLINATION ANGLE____97.5_____,<br>APOGEE IN KILOMETERS____500_____,<br>PERIGEE IN KILOMETERS_____500____,<br>ORBITAL PERIOD IN HOURS __1__AND FRACTIONS OF HOURS IN DECIMAL___0.577___,<br>THE NUMBER OF SATELLITES IN THE SYSTEM_____4_____,<br><br>ORB = 97.5IN00500AP00500PE001.58H04NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |
| **Satellite Receive Specifications (SPACEBEE-5, SPACEBEE-6, SPACEBEE-7)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.00 dBi<br>BEAMWIDTH = 60<br>RAD = 02G060B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |
| For Nongeostationary (Orbital Data) | INCLINATION ANGLE___98_____,<br>APOGEE IN KILOMETERS___575_____,<br>PERIGEE IN KILOMETERS___575_____,<br>ORBITAL PERIOD IN HOURS __1____AND FRACTIONS OF HOURS IN DECIMAL__0.603____,<br>THE NUMBER OF SATELLITES IN THE SYSTEM___3_____,<br><br>ORB = 98.0IN00575AP00575PE001.60H03NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |

Earth Station Transmitter Data #6

| | | |
|---|---|---|
| Transmit Frequency: 148.300-148.420 MHz | | |
| State (XSC) | XSC = HI | |
| City Name (XAL) | XAL = Waimea | |
| Latitude (DDMMSS) | Lat = 20 01 54 N | |
| Longitude (DDDMMSS) | Lon = 155 41 44 W | |
| Antenna Polarization (XAP) | XAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Antenna Azimuth (XAZ) | XAZ = V00 | THE EARTH STATION Transmitter ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, XAZ01 V00 |
| Antenna Dimensions (XAD) | ANTENNA GAIN__11.0_____,<br>BEAMWIDTH__50_____,<br>AZIMUTHAL RANGE__0 to 360_____,<br>THE SITE ELEVATION ABOVE MEAN SEA LEVEL IN METERS __62_____<br>THE ANTENNA HEIGHT ABOVE TERRAIN IN METERS __3_____<br><br>XAD = 11G050B000-360A00062H003 | EXAMPLE ASSUMING NONGEOSTATIONARY,<br>XAD01 16G030B000-360A00357H006 |
| **Satellite Receive Specifications (SPACEBEE-1, SPACEBEE-2, SPACEBEE-3, SPACEBEE-4)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF<br>ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.14 dBi<br>BEAMWIDTH = 90<br>RAD = 02G090B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |

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| For Nongeostationary (Orbital Data) | INCLINATION ANGLE____97.5_____,<br>APOGEE IN KILOMETERS____500_____,<br>PERIGEE IN KILOMETERS_____500____,<br>ORBITAL PERIOD IN HOURS __1__AND FRACTIONS OF HOURS IN DECIMAL___0.577___,<br>THE NUMBER OF SATELLITES IN THE SYSTEM_____4_____,<br><br>ORB = 97.5IN00500AP00500PE001.58H04NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04 *ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL *ORB FOR IT ENDING IN R01, EXAMPLE, REM05 *ORB,72.9IN03209AP00655PE013.46H01NRR01 |
| **Satellite Receive Specifications (SPACEBEE-5, SPACEBEE-6, SPACEBEE-7)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.00 dBi<br>BEAMWIDTH = 60<br>RAD = 02G060B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |
| For Nongeostationary (Orbital Data) | INCLINATION ANGLE___98_____,<br>APOGEE IN KILOMETERS___575_____,<br>PERIGEE IN KILOMETERS___575_____,<br>ORBITAL PERIOD IN HOURS __1____AND FRACTIONS OF HOURS IN DECIMAL__0.603____,<br>THE NUMBER OF SATELLITES IN THE SYSTEM___3_____,<br><br>ORB = 98.0IN00575AP00575PE001.60H03NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04 *ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL *ORB FOR IT ENDING IN R01, EXAMPLE, REM05 *ORB,72.9IN03209AP00655PE013.46H01NRR01 |

Earth Station Transmitter Data #7

| | | |
|---|---|---|
| Transmit Frequency: 148.300-148.420 MHz | | |
| State (XSC) | XSC = GU | |
| City Name (XAL) | XAL = Guam | |
| Latitude (DDMMSS) | Lat = 13 31 03 N | |
| Longitude (DDDMMSS) | Lon = 144 50 49 E | |
| Antenna Polarization (XAP) | XAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Antenna Azimuth (XAZ) | XAZ = V00 | THE EARTH STATION Transmitter ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, XAZ01 V00 |
| Antenna Dimensions (XAD) | ANTENNA GAIN__11.0_____,<br>BEAMWIDTH__50_____,<br>AZIMUTHAL RANGE__0 to 360_____,<br>THE SITE ELEVATION ABOVE MEAN SEA LEVEL IN METERS __110_____<br>THE ANTENNA HEIGHT ABOVE TERRAIN IN METERS __3_____<br><br>XAD = 11G050B000-360A00110H003 | EXAMPLE ASSUMING NONGEOSTATIONARY,<br>XAD01 16G030B000-360A00357H006 |
| **Satellite Receive Specifications (SPACEBEE-1, SPACEBEE-2, SPACEBEE-3, SPACEBEE-4)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF<br>ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.14 dBi<br>BEAMWIDTH = 90<br>RAD = 02G090B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |

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| For Nongeostationary (Orbital Data) | INCLINATION ANGLE____97.5_____,<br>APOGEE IN KILOMETERS____500_____,<br>PERIGEE IN KILOMETERS_____500____,<br>ORBITAL PERIOD IN HOURS __1__AND FRACTIONS OF HOURS IN DECIMAL___0.577___,<br>THE NUMBER OF SATELLITES IN THE SYSTEM_____4_____,<br><br>ORB = 97.5IN00500AP00500PE001.58H04NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |
| **Satellite Receive Specifications (SPACEBEE-5, SPACEBEE-6, SPACEBEE-7)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.00 dBi<br>BEAMWIDTH = 60<br>RAD = 02G060B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |
| For Nongeostationary (Orbital Data) | INCLINATION ANGLE___98_____,<br>APOGEE IN KILOMETERS___575_____,<br>PERIGEE IN KILOMETERS___575_____,<br>ORBITAL PERIOD IN HOURS __1____AND FRACTIONS OF HOURS IN DECIMAL__0.603____,<br>THE NUMBER OF SATELLITES IN THE SYSTEM___3_____,<br><br>ORB = 98.0IN00575AP00575PE001.60H03NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |

Earth Station Transmitter Data #8

| | | |
|---|---|---|
| Transmit Frequency: 148.300-148.420 MHz | | |
| State (XSC) | XSC = GU | |
| City Name (XAL) | XAL = Guam | |
| Latitude (DDMMSS) | Lat = 13 20 60 N | |
| Longitude (DDDMMSS) | Lon = 144 41 52 E | |
| Antenna Polarization (XAP) | XAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Antenna Azimuth (XAZ) | XAZ = V00 | THE EARTH STATION Transmitter ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, XAZ01 V00 |
| Antenna Dimensions (XAD) | ANTENNA GAIN__11.0_____,<br>BEAMWIDTH__50_____,<br>AZIMUTHAL RANGE__0 to 360_____,<br>THE SITE ELEVATION ABOVE MEAN SEA LEVEL IN METERS __44_____<br>THE ANTENNA HEIGHT ABOVE TERRAIN IN METERS __3_____<br><br>XAD = 11G050B000-360A00044H003 | EXAMPLE ASSUMING NONGEOSTATIONARY,<br>XAD01 16G030B000-360A00357H006 |
| **Satellite Receive Specifications (SPACEBEE-1, SPACEBEE-2, SPACEBEE-3, SPACEBEE-4)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF<br>ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.14 dBi<br>BEAMWIDTH = 90<br>RAD = 02G090B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |

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|---|---|---|
| For Nongeostationary (Orbital Data) | INCLINATION ANGLE____97.5_____,<br>APOGEE IN KILOMETERS____500_____,<br>PERIGEE IN KILOMETERS_____500____,<br>ORBITAL PERIOD IN HOURS __1__AND FRACTIONS OF HOURS IN DECIMAL___0.577___,<br>THE NUMBER OF SATELLITES IN THE SYSTEM_____4_____,<br><br>ORB = 97.5IN00500AP00500PE001.58H04NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |
| **Satellite Receive Specifications (SPACEBEE-5, SPACEBEE-6, SPACEBEE-7)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.00 dBi<br>BEAMWIDTH = 60<br>RAD = 02G060B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |
| For Nongeostationary (Orbital Data) | INCLINATION ANGLE___98_____,<br>APOGEE IN KILOMETERS___575_____,<br>PERIGEE IN KILOMETERS___575_____,<br>ORBITAL PERIOD IN HOURS __1____AND FRACTIONS OF HOURS IN DECIMAL__0.603____,<br>THE NUMBER OF SATELLITES IN THE SYSTEM___3_____,<br><br>ORB = 98.0IN00575AP00575PE001.60H03NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |

Earth Station Transmitter Data #9

| | | |
|---|---|---|
| Transmit Frequency: 148.300-148.420 MHz | | |
| State (XSC) | XSC = VI | |
| City Name (XAL) | XAL = St. Croix | |
| Latitude (DDMMSS) | Lat = 17 44 01 N | |
| Longitude (DDDMMSS) | Lon = 064 45 34 W | |
| Antenna Polarization (XAP) | XAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Antenna Azimuth (XAZ) | XAZ = V00 | THE EARTH STATION Transmitter ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, XAZ01 V00 |
| Antenna Dimensions (XAD) | ANTENNA GAIN__11.0_____,<br>BEAMWIDTH__50_____,<br>AZIMUTHAL RANGE__0 to 360_____,<br>THE SITE ELEVATION ABOVE MEAN SEA LEVEL IN METERS __57_____<br>THE ANTENNA HEIGHT ABOVE TERRAIN IN METERS __3_____<br><br>XAD = 11G050B000-360A00057H003 | EXAMPLE ASSUMING NONGEOSTATIONARY, XAD01 16G030B000-360A00357H006 |
| **Satellite Receive Specifications (SPACEBEE-1, SPACEBEE-2, SPACEBEE-3, SPACEBEE-4)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF<br>ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.14 dBi<br>BEAMWIDTH = 90<br>RAD = 02G090B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |

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| For Nongeostationary (Orbital Data) | INCLINATION ANGLE____97.5_____,<br>APOGEE IN KILOMETERS____500_____,<br>PERIGEE IN KILOMETERS_____500____,<br>ORBITAL PERIOD IN HOURS __1__AND FRACTIONS OF HOURS IN DECIMAL___0.577___,<br>THE NUMBER OF SATELLITES IN THE SYSTEM_____4_____,<br><br>ORB = 97.5IN00500AP00500PE001.58H04NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |
| **Satellite Receive Specifications (SPACEBEE-5, SPACEBEE-6, SPACEBEE-7)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V0 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.00 dBi<br>BEAMWIDTH = 60<br>RAD = 02G060B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |
| For Nongeostationary (Orbital Data) | INCLINATION ANGLE___98_____,<br>APOGEE IN KILOMETERS___575_____,<br>PERIGEE IN KILOMETERS___575_____,<br>ORBITAL PERIOD IN HOURS __1____AND FRACTIONS OF HOURS IN DECIMAL__0.603____,<br>THE NUMBER OF SATELLITES IN THE SYSTEM___3_____,<br><br>ORB = 98.0IN00575AP00575PE001.60H03NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |

Earth Station Transmitter Data #10

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|---|---|---|
| Transmit Frequency: 148.300-148.420 MHz | | |
| State (XSC) | XSC = CA | |
| City Name (XAL) | XAL = Oakland | |
| Latitude (DDMMSS) | Lat = 37 48 11 N | |
| Longitude (DDDMMSS) | Lon = 122 16 22 W | |
| Antenna Polarization (XAP) | XAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Antenna Azimuth (XAZ) | XAZ = V00 | THE EARTH STATION Transmitter ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, XAZ01 V00 |
| Antenna Dimensions (XAD) | ANTENNA GAIN__11.0_____,<br>BEAMWIDTH__50_____,<br>AZIMUTHAL RANGE__0 to 360_____,<br>THE SITE ELEVATION ABOVE MEAN SEA LEVEL IN METERS __15_____<br>THE ANTENNA HEIGHT ABOVE TERRAIN IN METERS __3_____<br><br>XAD = 11G050B000-360A00015H003 | EXAMPLE ASSUMING NONGEOSTATIONARY,<br>XAD01 16G030B000-360A00357H006 |
| **Satellite Receive Specifications (SPACEBEE-1, SPACEBEE-2, SPACEBEE-3, SPACEBEE-4)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF<br>ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.14 dBi<br>BEAMWIDTH = 90<br>RAD = 02G090B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |

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| For Nongeostationary (Orbital Data) | INCLINATION ANGLE____97.5_____,<br>APOGEE IN KILOMETERS____500_____,<br>PERIGEE IN KILOMETERS_____500____,<br>ORBITAL PERIOD IN HOURS __1__AND FRACTIONS OF HOURS IN DECIMAL___0.577___,<br>THE NUMBER OF SATELLITES IN THE SYSTEM_____4_____,<br><br>ORB = 97.5IN00500AP00500PE001.58H04NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |
| **Satellite Receive Specifications (SPACEBEE-5, SPACEBEE-6, SPACEBEE-7)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.00 dBi<br>BEAMWIDTH = 60<br>RAD = 02G060B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |
| For Nongeostationary (Orbital Data) | INCLINATION ANGLE___98_____,<br>APOGEE IN KILOMETERS___575_____,<br>PERIGEE IN KILOMETERS___575_____,<br>ORBITAL PERIOD IN HOURS __1____AND FRACTIONS OF HOURS IN DECIMAL__0.603____,<br>THE NUMBER OF SATELLITES IN THE SYSTEM___3_____,<br><br>ORB = 98.0IN00575AP00575PE001.60H03NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |

Earth Station Transmitter Data #11

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|---|---|---|
| Transmit Frequency: 148.300-148.420 MHz | | |
| State (XSC) | XSC = CA | |
| City Name (XAL) | XAL = Napa | |
| Latitude (DDMMSS) | Lat = 38 20 20 N | |
| Longitude (DDDMMSS) | Lon = 122 21 41 W | |
| Antenna Polarization (XAP) | XAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Antenna Azimuth (XAZ) | XAZ = V00 | THE EARTH STATION Transmitter ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, XAZ01 V00 |
| Antenna Dimensions (XAD) | ANTENNA GAIN__11.0_____,<br>BEAMWIDTH__50_____,<br>AZIMUTHAL RANGE__0 to 360_____,<br>THE SITE ELEVATION ABOVE MEAN SEA LEVEL IN METERS __197_____<br>THE ANTENNA HEIGHT ABOVE TERRAIN IN METERS __3_____<br><br>XAD = 11G050B000-360A00197H003 | EXAMPLE ASSUMING NONGEOSTATIONARY,<br>XAD01 16G030B000-360A00357H006 |
| **Satellite Receive Specifications (SPACEBEE-1, SPACEBEE-2, SPACEBEE-3, SPACEBEE-4)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF<br>ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.14 dBi<br>BEAMWIDTH = 90<br>RAD = 02G090B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |

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| For Nongeostationary (Orbital Data) | INCLINATION ANGLE____97.5_____,<br>APOGEE IN KILOMETERS____500_____,<br>PERIGEE IN KILOMETERS_____500____,<br>ORBITAL PERIOD IN HOURS __1__AND FRACTIONS OF HOURS IN DECIMAL___0.577___,<br>THE NUMBER OF SATELLITES IN THE SYSTEM_____4_____,<br><br>ORB = 97.5IN00500AP00500PE001.58H04NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |
| **Satellite Receive Specifications (SPACEBEE-5, SPACEBEE-6, SPACEBEE-7)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.00 dBi<br>BEAMWIDTH = 60<br>RAD = 02G060B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |
| For Nongeostationary (Orbital Data) | INCLINATION ANGLE___98_____,<br>APOGEE IN KILOMETERS___575_____,<br>PERIGEE IN KILOMETERS___575_____,<br>ORBITAL PERIOD IN HOURS __1____AND FRACTIONS OF HOURS IN DECIMAL__0.603____,<br>THE NUMBER OF SATELLITES IN THE SYSTEM___3_____,<br><br>ORB = 98.0IN00575AP00575PE001.60H03NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |

Earth Station Transmitter Data #12

| | | |
|---|---|---|
| Transmit Frequency: 148.300-148.420 MHz | | |
| State (XSC) | XSC = CA | |
| City Name (XAL) | XAL = Richmond | |
| Latitude (DDMMSS) | Lat = 37 55 45 N | |
| Longitude (DDDMMSS) | Lon = 122 25 52 W | |
| Antenna Polarization (XAP) | XAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Antenna Azimuth (XAZ) | XAZ = V00 | THE EARTH STATION Transmitter ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, XAZ01 V00 |
| Antenna Dimensions (XAD) | ANTENNA GAIN__11.0_____,<br>BEAMWIDTH__50_____,<br>AZIMUTHAL RANGE__0 to 360_____,<br>THE SITE ELEVATION ABOVE MEAN SEA LEVEL IN METERS __44_____<br>THE ANTENNA HEIGHT ABOVE TERRAIN IN METERS __3_____<br><br>XAD = 11G050B000-360A00044H003 | EXAMPLE ASSUMING NONGEOSTATIONARY,<br>XAD01 16G030B000-360A00357H006 |
| **Satellite Receive Specifications (SPACEBEE-1, SPACEBEE-2, SPACEBEE-3, SPACEBEE-4)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF<br>ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.14 dBi<br>BEAMWIDTH = 90<br>RAD = 02G090B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |

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| For Nongeostationary (Orbital Data) | INCLINATION ANGLE____97.5_____,<br>APOGEE IN KILOMETERS____500_____,<br>PERIGEE IN KILOMETERS_____500____,<br>ORBITAL PERIOD IN HOURS __1__AND FRACTIONS OF HOURS IN DECIMAL___0.577___,<br>THE NUMBER OF SATELLITES IN THE SYSTEM_____4_____,<br><br>ORB = 97.5IN00500AP00500PE001.58H04NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |
| **Satellite Receive Specifications (SPACEBEE-5, SPACEBEE-6, SPACEBEE-7)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.00 dBi<br>BEAMWIDTH = 60<br>RAD = 02G060B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |
| For Nongeostationary (Orbital Data) | INCLINATION ANGLE___98_____,<br>APOGEE IN KILOMETERS___575_____,<br>PERIGEE IN KILOMETERS___575_____,<br>ORBITAL PERIOD IN HOURS __1____AND FRACTIONS OF HOURS IN DECIMAL__0.603____,<br>THE NUMBER OF SATELLITES IN THE SYSTEM___3_____,<br><br>ORB = 98.0IN00575AP00575PE001.60H03NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |

Earth Station Transmitter Data #13

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|---|---|---|
| Transmit Frequency: 148.300-148.420 MHz | | |
| State (XSC) | XSC = AK | |
| City Name (XAL) | XAL = Fairbanks | |
| Latitude (DDMMSS) | Lat = 64 53 57 N | |
| Longitude (DDDMMSS) | Lon = 147 43 18 W | |
| Antenna Polarization (XAP) | XAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Antenna Azimuth (XAZ) | XAZ = V00 | THE EARTH STATION Transmitter ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, XAZ01 V00 |
| Antenna Dimensions (XAD) | ANTENNA GAIN__11.0_____,<br>BEAMWIDTH__50_____,<br>AZIMUTHAL RANGE__0 to 360_____,<br>THE SITE ELEVATION ABOVE MEAN SEA LEVEL IN METERS __181_____<br>THE ANTENNA HEIGHT ABOVE TERRAIN IN METERS __3_____<br><br>XAD = 11G050B000-360A00181H003 | EXAMPLE ASSUMING NONGEOSTATIONARY,<br>XAD01 16G030B000-360A00357H006 |
| **Satellite Receive Specifications (SPACEBEE-1, SPACEBEE-2, SPACEBEE-3, SPACEBEE-4)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF<br>ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.14 dBi<br>BEAMWIDTH = 90<br>RAD = 02G090B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |

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| For Nongeostationary (Orbital Data) | INCLINATION ANGLE____97.5_____,<br>APOGEE IN KILOMETERS____500_____,<br>PERIGEE IN KILOMETERS_____500____,<br>ORBITAL PERIOD IN HOURS __1__AND FRACTIONS OF HOURS IN DECIMAL___0.577___,<br>THE NUMBER OF SATELLITES IN THE SYSTEM_____4_____,<br><br>ORB = 97.5IN00500AP00500PE001.58H04NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |
| **Satellite Receive Specifications (SPACEBEE-5, SPACEBEE-6, SPACEBEE-7)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.00 dBi<br>BEAMWIDTH = 60<br>RAD = 02G060B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |
| For Nongeostationary (Orbital Data) | INCLINATION ANGLE___98_____,<br>APOGEE IN KILOMETERS___575_____,<br>PERIGEE IN KILOMETERS___575_____,<br>ORBITAL PERIOD IN HOURS __1____AND FRACTIONS OF HOURS IN DECIMAL__0.603____,<br>THE NUMBER OF SATELLITES IN THE SYSTEM___3_____,<br><br>ORB = 98.0IN00575AP00575PE001.60H03NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |

Earth Station Transmitter Data #14

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| Transmit Frequency: 148.300-148.420 MHz | | |
| State (XSC) | XSC = FL | |
| City Name (XAL) | XAL = Tampa | |
| Latitude (DDMMSS) | Lat = 27 52 38 N | |
| Longitude (DDDMMSS) | Lon = 082 29 45 W | |
| Antenna Polarization (XAP) | XAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Antenna Azimuth (XAZ) | XAZ = V00 | THE EARTH STATION Transmitter ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, XAZ01 V00 |
| Antenna Dimensions (XAD) | ANTENNA GAIN__11.0_____,<br>BEAMWIDTH__50_____,<br>AZIMUTHAL RANGE__0 to 360_____,<br>THE SITE ELEVATION ABOVE MEAN SEA LEVEL IN METERS __3_____<br>THE ANTENNA HEIGHT ABOVE TERRAIN IN METERS __3_____<br><br>XAD = 11G050B000-360A00003H003 | EXAMPLE ASSUMING NONGEOSTATIONARY,<br>XAD01 16G030B000-360A00357H006 |
| **Satellite Receive Specifications (SPACEBEE-1, SPACEBEE-2, SPACEBEE-3, SPACEBEE-4)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF<br>ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.14 dBi<br>BEAMWIDTH = 90<br>RAD = 02G090B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |

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| For Nongeostationary (Orbital Data) | INCLINATION ANGLE____97.5_____,<br>APOGEE IN KILOMETERS____500_____,<br>PERIGEE IN KILOMETERS_____500____,<br>ORBITAL PERIOD IN HOURS __1__AND FRACTIONS OF HOURS IN DECIMAL___0.577___,<br>THE NUMBER OF SATELLITES IN THE SYSTEM_____4_____,<br><br>ORB = 97.5IN00500AP00500PE001.58H04NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |
| **Satellite Receive Specifications (SPACEBEE-5, SPACEBEE-6, SPACEBEE-7)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.00 dBi<br>BEAMWIDTH = 60<br>RAD = 02G060B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |
| For Nongeostationary (Orbital Data) | INCLINATION ANGLE___98_____,<br>APOGEE IN KILOMETERS___575_____,<br>PERIGEE IN KILOMETERS___575_____,<br>ORBITAL PERIOD IN HOURS __1____AND FRACTIONS OF HOURS IN DECIMAL__0.603____,<br>THE NUMBER OF SATELLITES IN THE SYSTEM___3_____,<br><br>ORB = 98.0IN00575AP00575PE001.60H03NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |

Earth Station Transmitter Data #15

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|---|---|---|
| Transmit Frequency: 148.300-148.420 MHz | | |
| State (XSC) | XSC = CO | |
| City Name (XAL) | XAL = Boulder | |
| Latitude (DDMMSS) | Lat = 40 00 54 N | |
| Longitude (DDDMMSS) | Lon = 105 16 14 W | |
| Antenna Polarization (XAP) | XAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Antenna Azimuth (XAZ) | XAZ = V00 | THE EARTH STATION Transmitter ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, XAZ01 V00 |
| Antenna Dimensions (XAD) | ANTENNA GAIN__11.0_____,<br>BEAMWIDTH__50_____,<br>AZIMUTHAL RANGE__0 to 360_____,<br>THE SITE ELEVATION ABOVE MEAN SEA LEVEL IN METERS __1622_____<br>THE ANTENNA HEIGHT ABOVE TERRAIN IN METERS __3_____<br><br>XAD = 11G050B000-360A01622H003 | EXAMPLE ASSUMING NONGEOSTATIONARY,<br>XAD01 16G030B000-360A00357H006 |
| **Satellite Receive Specifications (SPACEBEE-1, SPACEBEE-2, SPACEBEE-3, SPACEBEE-4)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF<br>ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.14 dBi<br>BEAMWIDTH = 90<br>RAD = 02G090B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |

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| For Nongeostationary (Orbital Data) | INCLINATION ANGLE____97.5_____,<br>APOGEE IN KILOMETERS____500_____,<br>PERIGEE IN KILOMETERS_____500____,<br>ORBITAL PERIOD IN HOURS __1__AND FRACTIONS OF HOURS IN DECIMAL___0.577___,<br>THE NUMBER OF SATELLITES IN THE SYSTEM_____4_____,<br><br>ORB = 97.5IN00500AP00500PE001.58H04NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |
| **Satellite Receive Specifications (SPACEBEE-5, SPACEBEE-6, SPACEBEE-7)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.00 dBi<br>BEAMWIDTH = 60<br>RAD = 02G060B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |
| For Nongeostationary (Orbital Data) | INCLINATION ANGLE___98_____,<br>APOGEE IN KILOMETERS___575_____,<br>PERIGEE IN KILOMETERS___575_____,<br>ORBITAL PERIOD IN HOURS __1____AND FRACTIONS OF HOURS IN DECIMAL__0.603____,<br>THE NUMBER OF SATELLITES IN THE SYSTEM___3_____,<br><br>ORB = 98.0IN00575AP00575PE001.60H03NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |

Earth Station Transmitter Data #16

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|---|---|---|
| Transmit Frequency: 148.300-148.420 MHz | | |
| State (XSC) | XSC = CA | |
| City Name (XAL) | XAL = Vallejo | |
| Latitude (DDMMSS) | Lat = 38 06 19 N | |
| Longitude (DDDMMSS) | Lon = 122 12 59 W | |
| Antenna Polarization (XAP) | XAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Antenna Azimuth (XAZ) | XAZ = V00 | THE EARTH STATION Transmitter ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, XAZ01 V00 |
| Antenna Dimensions (XAD) | ANTENNA GAIN__11.0_____,<br>BEAMWIDTH__50_____,<br>AZIMUTHAL RANGE__0 to 360_____,<br>THE SITE ELEVATION ABOVE MEAN SEA LEVEL IN METERS __16_____<br>THE ANTENNA HEIGHT ABOVE TERRAIN IN METERS __3_____<br><br>XAD = 11G050B000-360A00016H003 | EXAMPLE ASSUMING NONGEOSTATIONARY,<br>XAD01 16G030B000-360A00357H006 |
| **Satellite Receive Specifications (SPACEBEE-1, SPACEBEE-2, SPACEBEE-3, SPACEBEE-4)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF<br>ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.14 dBi<br>BEAMWIDTH = 90<br>RAD = 02G090B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |

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| For Nongeostationary (Orbital Data) | INCLINATION ANGLE____97.5_____,<br>APOGEE IN KILOMETERS____500_____,<br>PERIGEE IN KILOMETERS_____500____,<br>ORBITAL PERIOD IN HOURS __1__AND FRACTIONS OF HOURS IN DECIMAL___0.577___,<br>THE NUMBER OF SATELLITES IN THE SYSTEM_____4_____,<br><br>ORB = 97.5IN00500AP00500PE001.58H04NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |
| **Satellite Receive Specifications (SPACEBEE-5, SPACEBEE-6, SPACEBEE-7)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.00 dBi<br>BEAMWIDTH = 60<br>RAD = 02G060B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |
| For Nongeostationary (Orbital Data) | INCLINATION ANGLE___98_____,<br>APOGEE IN KILOMETERS___575_____,<br>PERIGEE IN KILOMETERS___575_____,<br>ORBITAL PERIOD IN HOURS __1____AND FRACTIONS OF HOURS IN DECIMAL__0.603____,<br>THE NUMBER OF SATELLITES IN THE SYSTEM___3_____,<br><br>ORB = 98.0IN00575AP00575PE001.60H03NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |

Earth Station Transmitter Data #17

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|---|---|---|
| Transmit Frequency: 148.300-148.420 MHz | | |
| State (XSC) | XSC = VA | |
| City Name (XAL) | XAL = Suffolk | |
| Latitude (DDMMSS) | Lat = 36 43 34 N | |
| Longitude (DDDMMSS) | Lon = 076 35 57 W | |
| Antenna Polarization (XAP) | XAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Antenna Azimuth (XAZ) | XAZ = V00 | THE EARTH STATION Transmitter ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, XAZ01 V00 |
| Antenna Dimensions (XAD) | ANTENNA GAIN__11.0_____,<br>BEAMWIDTH__50_____,<br>AZIMUTHAL RANGE__0 to 360_____,<br>THE SITE ELEVATION ABOVE MEAN SEA LEVEL IN METERS __16_____<br>THE ANTENNA HEIGHT ABOVE TERRAIN IN METERS __3_____<br><br>XAD = 11G050B000-360A00016H003 | EXAMPLE ASSUMING NONGEOSTATIONARY,<br>XAD01 16G030B000-360A00357H006 |
| **Satellite Receive Specifications (SPACEBEE-1, SPACEBEE-2, SPACEBEE-3, SPACEBEE-4)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF<br>ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.14 dBi<br>BEAMWIDTH = 90<br>RAD = 02G090B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |

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| For Nongeostationary (Orbital Data) | INCLINATION ANGLE____97.5_____,<br>APOGEE IN KILOMETERS____500_____,<br>PERIGEE IN KILOMETERS_____500____,<br>ORBITAL PERIOD IN HOURS __1__AND FRACTIONS OF HOURS IN DECIMAL___0.577___,<br>THE NUMBER OF SATELLITES IN THE SYSTEM_____4_____,<br><br>ORB = 97.5IN00500AP00500PE001.58H04NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |
| **Satellite Receive Specifications (SPACEBEE-5, SPACEBEE-6, SPACEBEE-7)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.00 dBi<br>BEAMWIDTH = 60<br>RAD = 02G060B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |
| For Nongeostationary (Orbital Data) | INCLINATION ANGLE___98_____,<br>APOGEE IN KILOMETERS___575_____,<br>PERIGEE IN KILOMETERS___575_____,<br>ORBITAL PERIOD IN HOURS __1____AND FRACTIONS OF HOURS IN DECIMAL__0.603____,<br>THE NUMBER OF SATELLITES IN THE SYSTEM___3_____,<br><br>ORB = 98.0IN00575AP00575PE001.60H03NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |

Earth Station Transmitter Data #18

| | | |
|---|---|---|
| Transmit Frequency: 148.300-148.420 MHz | | |
| State (XSC) | XSC = PA | |
| City Name (XAL) | XAL = Philadelphia | |
| Latitude (DDMMSS) | Lat = 39 57 40 N | |
| Longitude (DDDMMSS) | Lon = 075 11 09 W | |
| Antenna Polarization (XAP) | XAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Antenna Azimuth (XAZ) | XAZ = V00 | THE EARTH STATION Transmitter ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, XAZ01 V00 |
| Antenna Dimensions (XAD) | ANTENNA GAIN__11.0_____,<br>BEAMWIDTH__50_____,<br>AZIMUTHAL RANGE__0 to 360_____,<br>THE SITE ELEVATION ABOVE MEAN SEA LEVEL IN METERS __15_____<br>THE ANTENNA HEIGHT ABOVE TERRAIN IN METERS __3_____<br><br>XAD = 11G050B000-360A00015H003 | EXAMPLE ASSUMING NONGEOSTATIONARY,<br>XAD01 16G030B000-360A00357H006 |
| **Satellite Receive Specifications (SPACEBEE-1, SPACEBEE-2, SPACEBEE-3, SPACEBEE-4)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF<br>ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.14 dBi<br>BEAMWIDTH = 90<br>RAD = 02G090B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |

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| For Nongeostationary (Orbital Data) | INCLINATION ANGLE____97.5_____,<br>APOGEE IN KILOMETERS____500_____,<br>PERIGEE IN KILOMETERS_____500____,<br>ORBITAL PERIOD IN HOURS __1__AND FRACTIONS OF HOURS IN DECIMAL___0.577___,<br>THE NUMBER OF SATELLITES IN THE SYSTEM_____4_____,<br><br>ORB = 97.5IN00500AP00500PE001.58H04NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04 *ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL *ORB FOR IT ENDING IN R01, EXAMPLE, REM05 *ORB,72.9IN03209AP00655PE013.46H01NRR01 |
| **Satellite Receive Specifications (SPACEBEE-5, SPACEBEE-6, SPACEBEE-7)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.00 dBi<br>BEAMWIDTH = 60<br>RAD = 02G060B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |
| For Nongeostationary (Orbital Data) | INCLINATION ANGLE___98_____,<br>APOGEE IN KILOMETERS___575_____,<br>PERIGEE IN KILOMETERS___575_____,<br>ORBITAL PERIOD IN HOURS __1____AND FRACTIONS OF HOURS IN DECIMAL__0.603____,<br>THE NUMBER OF SATELLITES IN THE SYSTEM___3_____,<br><br>ORB = 98.0IN00575AP00575PE001.60H03NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04 *ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL *ORB FOR IT ENDING IN R01, EXAMPLE, REM05 *ORB,72.9IN03209AP00655PE013.46H01NRR01 |

Earth Station Transmitter Data #19

| | | |
|---|---|---|
| Transmit Frequency: 148.300-148.420 MHz | | |
| State (XSC) | XSC = TX | |
| City Name (XAL) | XAL = Fort Bliss | |
| Latitude (DDMMSS) | Lat = 31 49 51 N | |
| Longitude (DDDMMSS) | Lon = 106 23 42 W | |
| Antenna Polarization (XAP) | XAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Antenna Azimuth (XAZ) | XAZ = V00 | THE EARTH STATION Transmitter ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, XAZ01 V00 |
| Antenna Dimensions (XAD) | ANTENNA GAIN__11.0_____,<br>BEAMWIDTH__50_____,<br>AZIMUTHAL RANGE__0 to 360_____,<br>THE SITE ELEVATION ABOVE MEAN SEA LEVEL IN METERS __1195_____<br>THE ANTENNA HEIGHT ABOVE TERRAIN IN METERS __3_____<br><br>XAD = 11G050B000-360A01195H003 | EXAMPLE ASSUMING NONGEOSTATIONARY,<br>XAD01 16G030B000-360A00357H006 |
| **Satellite Receive Specifications (SPACEBEE-1, SPACEBEE-2, SPACEBEE-3, SPACEBEE-4)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF<br>ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.14 dBi<br>BEAMWIDTH = 90<br>RAD = 02G090B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |

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| For Nongeostationary (Orbital Data) | INCLINATION ANGLE____97.5_____,<br>APOGEE IN KILOMETERS____500_____,<br>PERIGEE IN KILOMETERS_____500____,<br>ORBITAL PERIOD IN HOURS __1__AND FRACTIONS OF HOURS IN DECIMAL___0.577___,<br>THE NUMBER OF SATELLITES IN THE SYSTEM_____4_____,<br><br>ORB = 97.5IN00500AP00500PE001.58H04NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04 *ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL *ORB FOR IT ENDING IN R01, EXAMPLE, REM05 *ORB,72.9IN03209AP00655PE013.46H01NRR01 |
| **Satellite Receive Specifications (SPACEBEE-5, SPACEBEE-6, SPACEBEE-7)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.00 dBi<br>BEAMWIDTH = 60<br>RAD = 02G060B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |
| For Nongeostationary (Orbital Data) | INCLINATION ANGLE___98_____,<br>APOGEE IN KILOMETERS___575_____,<br>PERIGEE IN KILOMETERS___575_____,<br>ORBITAL PERIOD IN HOURS __1____AND FRACTIONS OF HOURS IN DECIMAL__0.603____,<br>THE NUMBER OF SATELLITES IN THE SYSTEM___3_____,<br><br>ORB = 98.0IN00575AP00575PE001.60H03NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04 *ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL *ORB FOR IT ENDING IN R01, EXAMPLE, REM05 *ORB,72.9IN03209AP00655PE013.46H01NRR01 |

Earth Station Transmitter Data #20

| | | |
|---|---|---|
| Transmit Frequency: 148.300-148.420 MHz | | |
| State (XSC) | XSC = CA | |
| City Name (XAL) | XAL = Jacumba Hot Springs | |
| Latitude (DDMMSS) | Lat = 32 37 31 N | |
| Longitude (DDDMMSS) | Lon = 116 08 39 W | |
| Antenna Polarization (XAP) | XAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Antenna Azimuth (XAZ) | XAZ = V00 | THE EARTH STATION Transmitter ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, XAZ01 V00 |
| Antenna Dimensions (XAD) | ANTENNA GAIN__11.0_____,<br>BEAMWIDTH__50_____,<br>AZIMUTHAL RANGE__0 to 360_____,<br>THE SITE ELEVATION ABOVE MEAN SEA LEVEL IN METERS __915_____<br>THE ANTENNA HEIGHT ABOVE TERRAIN IN METERS __3_____<br><br>XAD = 11G050B000-360A00915H003 | EXAMPLE ASSUMING NONGEOSTATIONARY,<br>XAD01 16G030B000-360A00357H006 |
| **Satellite Receive Specifications (SPACEBEE-1, SPACEBEE-2, SPACEBEE-3, SPACEBEE-4)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF<br>ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.14 dBi<br>BEAMWIDTH = 90<br>RAD = 02G090B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |

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| For Nongeostationary (Orbital Data) | INCLINATION ANGLE____97.5_____,<br>APOGEE IN KILOMETERS____500_____,<br>PERIGEE IN KILOMETERS_____500____,<br>ORBITAL PERIOD IN HOURS __1__AND FRACTIONS OF HOURS IN DECIMAL___0.577___,<br>THE NUMBER OF SATELLITES IN THE SYSTEM_____4_____,<br><br>ORB = 97.5IN00500AP00500PE001.58H04NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |
| **Satellite Receive Specifications (SPACEBEE-5, SPACEBEE-6, SPACEBEE-7)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.00 dBi<br>BEAMWIDTH = 60<br>RAD = 02G060B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |
| For Nongeostationary (Orbital Data) | INCLINATION ANGLE___98_____,<br>APOGEE IN KILOMETERS___575_____,<br>PERIGEE IN KILOMETERS___575_____,<br>ORBITAL PERIOD IN HOURS __1____AND FRACTIONS OF HOURS IN DECIMAL__0.603____,<br>THE NUMBER OF SATELLITES IN THE SYSTEM___3_____,<br><br>ORB = 98.0IN00575AP00575PE001.60H03NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |

Earth Station Transmitter Data #21

| | | |
|---|---|---|
| Transmit Frequency: 148.300-148.420 MHz | | |
| State (XSC) | XSC = VI | |
| City Name (XAL) | XAL = St. Thomas | |
| Latitude (DDMMSS) | Lat = 18 20 52 N | |
| Longitude (DDDMMSS) | Lon = 064 55 55 W | |
| Antenna Polarization (XAP) | XAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Antenna Azimuth (XAZ) | XAZ = V00 | THE EARTH STATION Transmitter ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, XAZ01 V00 |
| Antenna Dimensions (XAD) | ANTENNA GAIN__11.0_____,<br>BEAMWIDTH__50_____,<br>AZIMUTHAL RANGE__0 to 360_____,<br>THE SITE ELEVATION ABOVE MEAN SEA LEVEL IN METERS __117_____<br>THE ANTENNA HEIGHT ABOVE TERRAIN IN METERS __3_____<br><br>XAD = 11G050B000-360A00117H003 | EXAMPLE ASSUMING NONGEOSTATIONARY,<br>XAD01 16G030B000-360A00357H006 |
| **Satellite Receive Specifications (SPACEBEE-1, SPACEBEE-2, SPACEBEE-3, SPACEBEE-4)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF<br>ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.14 dBi<br>BEAMWIDTH = 90<br>RAD = 02G090B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |

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| For Nongeostationary (Orbital Data) | INCLINATION ANGLE____97.5_____,<br>APOGEE IN KILOMETERS____500_____,<br>PERIGEE IN KILOMETERS_____500____,<br>ORBITAL PERIOD IN HOURS __1__AND FRACTIONS OF HOURS IN DECIMAL___0.577___,<br>THE NUMBER OF SATELLITES IN THE SYSTEM_____4_____,<br><br>ORB = 97.5IN00500AP00500PE001.58H04NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |
| **Satellite Receive Specifications (SPACEBEE-5, SPACEBEE-6, SPACEBEE-7)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.00 dBi<br>BEAMWIDTH = 60<br>RAD = 02G060B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |
| For Nongeostationary (Orbital Data) | INCLINATION ANGLE___98_____,<br>APOGEE IN KILOMETERS___575_____,<br>PERIGEE IN KILOMETERS___575_____,<br>ORBITAL PERIOD IN HOURS __1____AND FRACTIONS OF HOURS IN DECIMAL__0.603____,<br>THE NUMBER OF SATELLITES IN THE SYSTEM___3_____,<br><br>ORB = 98.0IN00575AP00575PE001.60H03NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |

Earth Station Transmitter Data #22

| | | |
|---|---|---|
| Transmit Frequency: 148.300-148.420 MHz | | |
| State (XSC) | XSC = MA | |
| City Name (XAL) | XAL = Woburn | |
| Latitude (DDMMSS) | Lat = 42 29 44 N | |
| Longitude (DDDMMSS) | Lon = 071 07 39 W | |
| Antenna Polarization (XAP) | XAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Antenna Azimuth (XAZ) | XAZ = V00 | THE EARTH STATION Transmitter ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, XAZ01 V00 |
| Antenna Dimensions (XAD) | ANTENNA GAIN__11.0_____,<br>BEAMWIDTH__50_____,<br>AZIMUTHAL RANGE__0 to 360_____,<br>THE SITE ELEVATION ABOVE MEAN SEA LEVEL IN METERS __20_____<br>THE ANTENNA HEIGHT ABOVE TERRAIN IN METERS __3_____<br><br>XAD = 11G050B000-360A00020H003 | EXAMPLE ASSUMING NONGEOSTATIONARY,<br>XAD01 16G030B000-360A00357H006 |
| **Satellite Receive Specifications (SPACEBEE-1, SPACEBEE-2, SPACEBEE-3, SPACEBEE-4)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF<br>ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.14 dBi<br>BEAMWIDTH = 90<br>RAD = 02G090B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |

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| For Nongeostationary (Orbital Data) | INCLINATION ANGLE____97.5_____,<br>APOGEE IN KILOMETERS____500_____,<br>PERIGEE IN KILOMETERS_____500____,<br>ORBITAL PERIOD IN HOURS __1__AND FRACTIONS OF HOURS IN DECIMAL___0.577___,<br>THE NUMBER OF SATELLITES IN THE SYSTEM_____4_____,<br><br>ORB = 97.5IN00500AP00500PE001.58H04NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |
| **Satellite Receive Specifications (SPACEBEE-5, SPACEBEE-6, SPACEBEE-7)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.00 dBi<br>BEAMWIDTH = 60<br>RAD = 02G060B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |
| For Nongeostationary (Orbital Data) | INCLINATION ANGLE___98_____,<br>APOGEE IN KILOMETERS___575_____,<br>PERIGEE IN KILOMETERS___575_____,<br>ORBITAL PERIOD IN HOURS __1____AND FRACTIONS OF HOURS IN DECIMAL__0.603____,<br>THE NUMBER OF SATELLITES IN THE SYSTEM___3_____,<br><br>ORB = 98.0IN00575AP00575PE001.60H03NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |

Earth Station Transmitter Data #23

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| Transmit Frequency: 148.300-148.420 MHz | | |
| State (XSC) | XSC = VA | |
| City Name (XAL) | XAL = Franconia | |
| Latitude (DDMMSS) | Lat = 38 46 18 N | |
| Longitude (DDDMMSS) | Lon = 077 08 17 W | |
| Antenna Polarization (XAP) | XAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Antenna Azimuth (XAZ) | XAZ = V00 | THE EARTH STATION Transmitter ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, XAZ01 V00 |
| Antenna Dimensions (XAD) | ANTENNA GAIN__11.0_____,<br>BEAMWIDTH__50_____,<br>AZIMUTHAL RANGE__0 to 360_____,<br>THE SITE ELEVATION ABOVE MEAN SEA LEVEL IN METERS __64_____<br>THE ANTENNA HEIGHT ABOVE TERRAIN IN METERS __3_____<br><br>XAD = 11G050B000-360A00064H003 | EXAMPLE ASSUMING NONGEOSTATIONARY,<br>XAD01 16G030B000-360A00357H006 |
| **Satellite Receive Specifications (SPACEBEE-1, SPACEBEE-2, SPACEBEE-3, SPACEBEE-4)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF<br>ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.14 dBi<br>BEAMWIDTH = 90<br>RAD = 02G090B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |

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| For Nongeostationary (Orbital Data) | INCLINATION ANGLE____97.5_____,<br>APOGEE IN KILOMETERS____500_____,<br>PERIGEE IN KILOMETERS_____500____,<br>ORBITAL PERIOD IN HOURS __1__AND FRACTIONS OF HOURS IN DECIMAL___0.577___,<br>THE NUMBER OF SATELLITES IN THE SYSTEM_____4_____,<br><br>ORB = 97.5IN00500AP00500PE001.58H04NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |
| **Satellite Receive Specifications (SPACEBEE-5, SPACEBEE-6, SPACEBEE-7)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.00 dBi<br>BEAMWIDTH = 60<br>RAD = 02G060B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |
| For Nongeostationary (Orbital Data) | INCLINATION ANGLE___98_____,<br>APOGEE IN KILOMETERS___575_____,<br>PERIGEE IN KILOMETERS___575_____,<br>ORBITAL PERIOD IN HOURS __1____AND FRACTIONS OF HOURS IN DECIMAL__0.603____,<br>THE NUMBER OF SATELLITES IN THE SYSTEM___3_____,<br><br>ORB = 98.0IN00575AP00575PE001.60H03NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |

Earth Station Transmitter Data #24

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|---|---|---|
| Transmit Frequency: 148.300-148.420 MHz | | |
| State (XSC) | XSC = FL | |
| City Name (XAL) | XAL = Cape Canaveral | |
| Latitude (DDMMSS) | Lat = 28 32 33 N | |
| Longitude (DDDMMSS) | Lon = 080 38 09 W | |
| Antenna Polarization (XAP) | XAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Antenna Azimuth (XAZ) | XAZ = V00 | THE EARTH STATION Transmitter ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, XAZ01 V00 |
| Antenna Dimensions (XAD) | ANTENNA GAIN__11.0_____,<br>BEAMWIDTH__50_____,<br>AZIMUTHAL RANGE__0 to 360_____,<br>THE SITE ELEVATION ABOVE MEAN SEA LEVEL IN METERS __1_____<br>THE ANTENNA HEIGHT ABOVE TERRAIN IN METERS __3_____<br><br>XAD = 11G050B000-360A00001H003 | EXAMPLE ASSUMING NONGEOSTATIONARY,<br>XAD01 16G030B000-360A00357H006 |
| **Satellite Receive Specifications (SPACEBEE-1, SPACEBEE-2, SPACEBEE-3, SPACEBEE-4)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF<br>ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.14 dBi<br>BEAMWIDTH = 90<br>RAD = 02G090B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |

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| For Nongeostationary (Orbital Data) | INCLINATION ANGLE____97.5_____,<br>APOGEE IN KILOMETERS____500_____,<br>PERIGEE IN KILOMETERS_____500____,<br>ORBITAL PERIOD IN HOURS __1__AND FRACTIONS OF HOURS IN DECIMAL___0.577___,<br>THE NUMBER OF SATELLITES IN THE SYSTEM_____4_____,<br><br>ORB = 97.5IN00500AP00500PE001.58H04NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |
| **Satellite Receive Specifications (SPACEBEE-5, SPACEBEE-6, SPACEBEE-7)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.00 dBi<br>BEAMWIDTH = 60<br>RAD = 02G060B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |
| For Nongeostationary (Orbital Data) | INCLINATION ANGLE___98_____,<br>APOGEE IN KILOMETERS___575_____,<br>PERIGEE IN KILOMETERS___575_____,<br>ORBITAL PERIOD IN HOURS __1____AND FRACTIONS OF HOURS IN DECIMAL__0.603____,<br>THE NUMBER OF SATELLITES IN THE SYSTEM___3_____,<br><br>ORB = 98.0IN00575AP00575PE001.60H03NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |

Earth Station Transmitter Data #25

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|---|---|---|
| Transmit Frequency: 148.300-148.420 MHz | | |
| State (XSC) | XSC = NM | |
| City Name (XAL) | XAL = Albuquerque | |
| Latitude (DDMMSS) | Lat = 35 03 17 N | |
| Longitude (DDDMMSS) | Lon = 106 35 37 W | |
| Antenna Polarization (XAP) | XAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Antenna Azimuth (XAZ) | XAZ = V00 | THE EARTH STATION Transmitter ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, XAZ01 V00 |
| Antenna Dimensions (XAD) | ANTENNA GAIN__11.0_____,<br>BEAMWIDTH__50_____,<br>AZIMUTHAL RANGE__0 to 360_____,<br>THE SITE ELEVATION ABOVE MEAN SEA LEVEL IN METERS __1625_____<br>THE ANTENNA HEIGHT ABOVE TERRAIN IN METERS __3_____<br><br>XAD = 11G050B000-360A01625H003 | EXAMPLE ASSUMING NONGEOSTATIONARY,<br>XAD01 16G030B000-360A00357H006 |
| **Satellite Receive Specifications (SPACEBEE-1, SPACEBEE-2, SPACEBEE-3, SPACEBEE-4)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF<br>ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.14 dBi<br>BEAMWIDTH = 90<br>RAD = 02G090B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |

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| For Nongeostationary (Orbital Data) | INCLINATION ANGLE____97.5_____,<br>APOGEE IN KILOMETERS____500_____,<br>PERIGEE IN KILOMETERS_____500____,<br>ORBITAL PERIOD IN HOURS __1__AND FRACTIONS OF HOURS IN DECIMAL___0.577___,<br>THE NUMBER OF SATELLITES IN THE SYSTEM_____4_____,<br><br>ORB = 97.5IN00500AP00500PE001.58H04NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |
| **Satellite Receive Specifications (SPACEBEE-5, SPACEBEE-6, SPACEBEE-7)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.00 dBi<br>BEAMWIDTH = 60<br>RAD = 02G060B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |
| For Nongeostationary (Orbital Data) | INCLINATION ANGLE___98_____,<br>APOGEE IN KILOMETERS___575_____,<br>PERIGEE IN KILOMETERS___575_____,<br>ORBITAL PERIOD IN HOURS __1____AND FRACTIONS OF HOURS IN DECIMAL__0.603____,<br>THE NUMBER OF SATELLITES IN THE SYSTEM___3_____,<br><br>ORB = 98.0IN00575AP00575PE001.60H03NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |

Earth Station Transmitter Data #26

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|---|---|---|
| Transmit Frequency: 148.300-148.420 MHz | | |
| State (XSC) | XSC = CA | |
| City Name (XAL) | XAL = Mojave | |
| Latitude (DDMMSS) | Lat = 34 58 27 N | |
| Longitude (DDDMMSS) | Lon = 117 58 04 W | |
| Antenna Polarization (XAP) | XAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Antenna Azimuth (XAZ) | XAZ = V00 | THE EARTH STATION Transmitter ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, XAZ01 V00 |
| Antenna Dimensions (XAD) | ANTENNA GAIN__11.0_____,<br>BEAMWIDTH__50_____,<br>AZIMUTHAL RANGE__0 to 360_____,<br>THE SITE ELEVATION ABOVE MEAN SEA LEVEL IN METERS __756_____<br>THE ANTENNA HEIGHT ABOVE TERRAIN IN METERS __3_____<br><br>XAD = 11G050B000-360A00756H003 | EXAMPLE ASSUMING NONGEOSTATIONARY,<br>XAD01 16G030B000-360A00357H006 |
| **Satellite Receive Specifications (SPACEBEE-1, SPACEBEE-2, SPACEBEE-3, SPACEBEE-4)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF<br>ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.14 dBi<br>BEAMWIDTH = 90<br>RAD = 02G090B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |

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| For Nongeostationary (Orbital Data) | INCLINATION ANGLE____97.5_____,<br>APOGEE IN KILOMETERS____500_____,<br>PERIGEE IN KILOMETERS_____500____,<br>ORBITAL PERIOD IN HOURS __1__AND FRACTIONS OF HOURS IN DECIMAL___0.577___,<br>THE NUMBER OF SATELLITES IN THE SYSTEM_____4_____,<br><br>ORB = 97.5IN00500AP00500PE001.58H04NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |
| **Satellite Receive Specifications (SPACEBEE-5, SPACEBEE-6, SPACEBEE-7)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.00 dBi<br>BEAMWIDTH = 60<br>RAD = 02G060B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |
| For Nongeostationary (Orbital Data) | INCLINATION ANGLE___98_____,<br>APOGEE IN KILOMETERS___575_____,<br>PERIGEE IN KILOMETERS___575_____,<br>ORBITAL PERIOD IN HOURS __1____AND FRACTIONS OF HOURS IN DECIMAL__0.603____,<br>THE NUMBER OF SATELLITES IN THE SYSTEM___3_____,<br><br>ORB = 98.0IN00575AP00575PE001.60H03NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |

Earth Station Transmitter Data #27

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|---|---|---|
| Transmit Frequency: 148.300-148.420 MHz | | |
| State (XSC) | XSC = WV | |
| City Name (XAL) | XAL = Judy Gap | |
| Latitude (DDMMSS) | Lat = 38 42 28 N | |
| Longitude (DDDMMSS) | Lon = 079 27 39 W | |
| Antenna Polarization (XAP) | XAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Antenna Azimuth (XAZ) | XAZ = V00 | THE EARTH STATION Transmitter ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, XAZ01 V00 |
| Antenna Dimensions (XAD) | ANTENNA GAIN__11.0_____,<br>BEAMWIDTH__50_____,<br>AZIMUTHAL RANGE__0 to 360_____,<br>THE SITE ELEVATION ABOVE MEAN SEA LEVEL IN METERS __640_____<br>THE ANTENNA HEIGHT ABOVE TERRAIN IN METERS __3_____<br><br>XAD = 11G050B000-360A00640H003 | EXAMPLE ASSUMING NONGEOSTATIONARY,<br>XAD01 16G030B000-360A00357H006 |
| **Satellite Receive Specifications (SPACEBEE-1, SPACEBEE-2, SPACEBEE-3, SPACEBEE-4)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF<br>ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.14 dBi<br>BEAMWIDTH = 90<br>RAD = 02G090B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |

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| For Nongeostationary (Orbital Data) | INCLINATION ANGLE____97.5_____,<br>APOGEE IN KILOMETERS____500_____,<br>PERIGEE IN KILOMETERS_____500____,<br>ORBITAL PERIOD IN HOURS __1__AND FRACTIONS OF HOURS IN DECIMAL___0.577___,<br>THE NUMBER OF SATELLITES IN THE SYSTEM_____4_____,<br><br>ORB = 97.5IN00500AP00500PE001.58H04NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |
| **Satellite Receive Specifications (SPACEBEE-5, SPACEBEE-6, SPACEBEE-7)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.00 dBi<br>BEAMWIDTH = 60<br>RAD = 02G060B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |
| For Nongeostationary (Orbital Data) | INCLINATION ANGLE___98_____,<br>APOGEE IN KILOMETERS___575_____,<br>PERIGEE IN KILOMETERS___575_____,<br>ORBITAL PERIOD IN HOURS __1____AND FRACTIONS OF HOURS IN DECIMAL__0.603____,<br>THE NUMBER OF SATELLITES IN THE SYSTEM___3_____,<br><br>ORB = 98.0IN00575AP00575PE001.60H03NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |

Earth Station Transmitter Data #28

| | | |
|---|---|---|
| Transmit Frequency: 148.300-148.420 MHz | | |
| State (XSC) | XSC = VA | |
| City Name (XAL) | XAL = Fredericksburg | |
| Latitude (DDMMSS) | Lat = 38 18 12 N | |
| Longitude (DDDMMSS) | Lon = 077 26 12 W | |
| Antenna Polarization (XAP) | XAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Antenna Azimuth (XAZ) | XAZ = V00 | THE EARTH STATION Transmitter ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, XAZ01 V00 |
| Antenna Dimensions (XAD) | ANTENNA GAIN__11.0_____,<br>BEAMWIDTH__50_____,<br>AZIMUTHAL RANGE__0 to 360_____,<br>THE SITE ELEVATION ABOVE MEAN SEA LEVEL IN METERS __42_____<br>THE ANTENNA HEIGHT ABOVE TERRAIN IN METERS __3_____<br><br>XAD = 11G050B000-360A00042H003 | EXAMPLE ASSUMING NONGEOSTATIONARY,<br>XAD01 16G030B000-360A00357H006 |
| **Satellite Receive Specifications (SPACEBEE-1, SPACEBEE-2, SPACEBEE-3, SPACEBEE-4)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF<br>ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.14 dBi<br>BEAMWIDTH = 90<br>RAD = 02G090B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |

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| For Nongeostationary (Orbital Data) | INCLINATION ANGLE____97.5_____,<br>APOGEE IN KILOMETERS____500_____,<br>PERIGEE IN KILOMETERS_____500____,<br>ORBITAL PERIOD IN HOURS __1__AND FRACTIONS OF HOURS IN DECIMAL___0.577___,<br>THE NUMBER OF SATELLITES IN THE SYSTEM_____4_____,<br><br>ORB = 97.5IN00500AP00500PE001.58H04NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |
| **Satellite Receive Specifications (SPACEBEE-5, SPACEBEE-6, SPACEBEE-7)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.00 dBi<br>BEAMWIDTH = 60<br>RAD = 02G060B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |
| For Nongeostationary (Orbital Data) | INCLINATION ANGLE___98_____,<br>APOGEE IN KILOMETERS___575_____,<br>PERIGEE IN KILOMETERS___575_____,<br>ORBITAL PERIOD IN HOURS __1____AND FRACTIONS OF HOURS IN DECIMAL__0.603____,<br>THE NUMBER OF SATELLITES IN THE SYSTEM___3_____,<br><br>ORB = 98.0IN00575AP00575PE001.60H03NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |

Earth Station Transmitter Data #29

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|---|---|---|
| Transmit Frequency: 148.300-148.420 MHz | | |
| State (XSC) | XSC = ME | |
| City Name (XAL) | XAL = Matinicus Island | |
| Latitude (DDMMSS) | Lat = 43 51 13 N | |
| Longitude (DDDMMSS) | Lon = 068 54 02 W | |
| Antenna Polarization (XAP) | XAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Antenna Azimuth (XAZ) | XAZ = V00 | THE EARTH STATION Transmitter ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, XAZ01 V00 |
| Antenna Dimensions (XAD) | ANTENNA GAIN__11.0_____,<br>BEAMWIDTH__50_____,<br>AZIMUTHAL RANGE__0 to 360_____,<br>THE SITE ELEVATION ABOVE MEAN SEA LEVEL IN METERS __25_____<br>THE ANTENNA HEIGHT ABOVE TERRAIN IN METERS __3_____<br><br>XAD = 11G050B000-360A00025H003 | EXAMPLE ASSUMING NONGEOSTATIONARY,<br>XAD01 16G030B000-360A00357H006 |
| **Satellite Receive Specifications (SPACEBEE-1, SPACEBEE-2, SPACEBEE-3, SPACEBEE-4)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF<br>ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.14 dBi<br>BEAMWIDTH = 90<br>RAD = 02G090B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |

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| For Nongeostationary (Orbital Data) | INCLINATION ANGLE____97.5_____,<br>APOGEE IN KILOMETERS____500_____,<br>PERIGEE IN KILOMETERS_____500____,<br>ORBITAL PERIOD IN HOURS __1__AND FRACTIONS OF HOURS IN DECIMAL___0.577___,<br>THE NUMBER OF SATELLITES IN THE SYSTEM_____4_____,<br><br>ORB = 97.5IN00500AP00500PE001.58H04NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |
| **Satellite Receive Specifications (SPACEBEE-5, SPACEBEE-6, SPACEBEE-7)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.00 dBi<br>BEAMWIDTH = 60<br>RAD = 02G060B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |
| For Nongeostationary (Orbital Data) | INCLINATION ANGLE___98_____,<br>APOGEE IN KILOMETERS___575_____,<br>PERIGEE IN KILOMETERS___575_____,<br>ORBITAL PERIOD IN HOURS __1____AND FRACTIONS OF HOURS IN DECIMAL__0.603____,<br>THE NUMBER OF SATELLITES IN THE SYSTEM___3_____,<br><br>ORB = 98.0IN00575AP00575PE001.60H03NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |

Earth Station Transmitter Data #30

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|---|---|---|
| Transmit Frequency: 148.300-148.420 MHz | | |
| State (XSC) | XSC = CA | |
| City Name (XAL) | XAL = Tall Trees Grove Trailhead | |
| Latitude (DDMMSS) | Lat = 41 12 29 N | |
| Longitude (DDDMMSS) | Lon = 123 59 35 W | |
| Antenna Polarization (XAP) | XAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Antenna Azimuth (XAZ) | XAZ = V00 | THE EARTH STATION Transmitter ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, XAZ01 V00 |
| Antenna Dimensions (XAD) | ANTENNA GAIN__11.0_____,<br>BEAMWIDTH__50_____,<br>AZIMUTHAL RANGE__0 to 360_____,<br>THE SITE ELEVATION ABOVE MEAN SEA LEVEL IN METERS __251_____<br>THE ANTENNA HEIGHT ABOVE TERRAIN IN METERS __3_____<br><br>XAD = 11G050B000-360A00251H003 | EXAMPLE ASSUMING NONGEOSTATIONARY,<br>XAD01 16G030B000-360A00357H006 |
| **Satellite Receive Specifications (SPACEBEE-1, SPACEBEE-2, SPACEBEE-3, SPACEBEE-4)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF<br>ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.14 dBi<br>BEAMWIDTH = 90<br>RAD = 02G090B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |

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| For Nongeostationary (Orbital Data) | INCLINATION ANGLE____97.5_____,<br>APOGEE IN KILOMETERS____500_____,<br>PERIGEE IN KILOMETERS_____500____,<br>ORBITAL PERIOD IN HOURS __1__AND FRACTIONS OF HOURS IN DECIMAL___0.577___,<br>THE NUMBER OF SATELLITES IN THE SYSTEM_____4_____,<br><br>ORB = 97.5IN00500AP00500PE001.58H04NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |
| **Satellite Receive Specifications (SPACEBEE-5, SPACEBEE-6, SPACEBEE-7)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.00 dBi<br>BEAMWIDTH = 60<br>RAD = 02G060B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |
| For Nongeostationary (Orbital Data) | INCLINATION ANGLE___98_____,<br>APOGEE IN KILOMETERS___575_____,<br>PERIGEE IN KILOMETERS___575_____,<br>ORBITAL PERIOD IN HOURS __1____AND FRACTIONS OF HOURS IN DECIMAL__0.603____,<br>THE NUMBER OF SATELLITES IN THE SYSTEM___3_____,<br><br>ORB = 98.0IN00575AP00575PE001.60H03NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |

Earth Station Transmitter Data #31

| | | |
|---|---|---|
| Transmit Frequency: 148.300-148.420 MHz | | |
| State (XSC) | XSC = VA | |
| City Name (XAL) | XAL = Arlington | |
| Latitude (DDMMSS) | Lat = 38 53 34 N | |
| Longitude (DDDMMSS) | Lon = 077 05 07 W | |
| Antenna Polarization (XAP) | XAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Antenna Azimuth (XAZ) | XAZ = V00 | THE EARTH STATION Transmitter ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, XAZ01 V00 |
| Antenna Dimensions (XAD) | ANTENNA GAIN__11.0_____,<br>BEAMWIDTH__50_____,<br>AZIMUTHAL RANGE__0 to 360_____,<br>THE SITE ELEVATION ABOVE MEAN SEA LEVEL IN METERS __71_____<br>THE ANTENNA HEIGHT ABOVE TERRAIN IN METERS __3_____<br><br>XAD = 11G050B000-360A00071H003 | EXAMPLE ASSUMING NONGEOSTATIONARY,<br>XAD01 16G030B000-360A00357H006 |
| **Satellite Receive Specifications (SPACEBEE-1, SPACEBEE-2, SPACEBEE-3, SPACEBEE-4)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF<br>ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.14 dBi<br>BEAMWIDTH = 90<br>RAD = 02G090B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |

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| For Nongeostationary (Orbital Data) | INCLINATION ANGLE____97.5_____,<br>APOGEE IN KILOMETERS____500_____,<br>PERIGEE IN KILOMETERS_____500____,<br>ORBITAL PERIOD IN HOURS __1__AND FRACTIONS OF HOURS IN DECIMAL___0.577___,<br>THE NUMBER OF SATELLITES IN THE SYSTEM_____4_____,<br><br>ORB = 97.5IN00500AP00500PE001.58H04NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |
| **Satellite Receive Specifications (SPACEBEE-5, SPACEBEE-6, SPACEBEE-7)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.00 dBi<br>BEAMWIDTH = 60<br>RAD = 02G060B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |
| For Nongeostationary (Orbital Data) | INCLINATION ANGLE___98_____,<br>APOGEE IN KILOMETERS___575_____,<br>PERIGEE IN KILOMETERS___575_____,<br>ORBITAL PERIOD IN HOURS __1____AND FRACTIONS OF HOURS IN DECIMAL__0.603____,<br>THE NUMBER OF SATELLITES IN THE SYSTEM___3_____,<br><br>ORB = 98.0IN00575AP00575PE001.60H03NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |

Earth Station Transmitter Data #32

| | | |
|---|---|---|
| Transmit Frequency: 148.300-148.420 MHz | | |
| State (XSC) | XSC = CA | |
| City Name (XAL) | XAL = Chula Vista | |
| Latitude (DDMMSS) | Lat = 32 34 41 N | |
| Longitude (DDDMMSS) | Lon = 116 51 13 W | |
| Antenna Polarization (XAP) | XAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Antenna Azimuth (XAZ) | XAZ = V00 | THE EARTH STATION Transmitter ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, XAZ01 V00 |
| Antenna Dimensions (XAD) | ANTENNA GAIN__11.0_____,<br>BEAMWIDTH__50_____,<br>AZIMUTHAL RANGE__0 to 360_____,<br>THE SITE ELEVATION ABOVE MEAN SEA LEVEL IN METERS __803_____<br>THE ANTENNA HEIGHT ABOVE TERRAIN IN METERS __3_____<br><br>XAD = 11G050B000-360A00803H003 | EXAMPLE ASSUMING NONGEOSTATIONARY,<br>XAD01 16G030B000-360A00357H006 |
| **Satellite Receive Specifications (SPACEBEE-1, SPACEBEE-2, SPACEBEE-3, SPACEBEE-4)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF<br>ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.14 dBi<br>BEAMWIDTH = 90<br>RAD = 02G090B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |

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| For Nongeostationary (Orbital Data) | INCLINATION ANGLE____97.5_____,<br>APOGEE IN KILOMETERS____500_____,<br>PERIGEE IN KILOMETERS_____500____,<br>ORBITAL PERIOD IN HOURS __1__AND FRACTIONS OF HOURS IN DECIMAL___0.577___,<br>THE NUMBER OF SATELLITES IN THE SYSTEM_____4_____,<br><br>ORB = 97.5IN00500AP00500PE001.58H04NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |
| **Satellite Receive Specifications (SPACEBEE-5, SPACEBEE-6, SPACEBEE-7)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.00 dBi<br>BEAMWIDTH = 60<br>RAD = 02G060B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |
| For Nongeostationary (Orbital Data) | INCLINATION ANGLE___98_____,<br>APOGEE IN KILOMETERS___575_____,<br>PERIGEE IN KILOMETERS___575_____,<br>ORBITAL PERIOD IN HOURS __1____AND FRACTIONS OF HOURS IN DECIMAL__0.603____,<br>THE NUMBER OF SATELLITES IN THE SYSTEM___3_____,<br><br>ORB = 98.0IN00575AP00575PE001.60H03NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |

Earth Station Transmitter Data #33

| | | |
|---|---|---|
| Transmit Frequency: 148.300-148.420 MHz | | |
| State (XSC) | XSC = ME | |
| City Name (XAL) | XAL = Monhegan Island | |
| Latitude (DDMMSS) | Lat = 43 45 34 N | |
| Longitude (DDDMMSS) | Lon = 069 18 59 W | |
| Antenna Polarization (XAP) | XAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Antenna Azimuth (XAZ) | XAZ = V00 | THE EARTH STATION Transmitter ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, XAZ01 V00 |
| Antenna Dimensions (XAD) | ANTENNA GAIN__11.0_____,<br>BEAMWIDTH__50_____,<br>AZIMUTHAL RANGE__0 to 360_____,<br>THE SITE ELEVATION ABOVE MEAN SEA LEVEL IN METERS __33_____<br>THE ANTENNA HEIGHT ABOVE TERRAIN IN METERS __3_____<br><br>XAD = 11G050B000-360A00033H003 | EXAMPLE ASSUMING NONGEOSTATIONARY,<br>XAD01 16G030B000-360A00357H006 |
| **Satellite Receive Specifications (SPACEBEE-1, SPACEBEE-2, SPACEBEE-3, SPACEBEE-4)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF<br>ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.14 dBi<br>BEAMWIDTH = 90<br>RAD = 02G090B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |

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| For Nongeostationary (Orbital Data) | INCLINATION ANGLE____97.5_____,<br>APOGEE IN KILOMETERS____500_____,<br>PERIGEE IN KILOMETERS_____500____,<br>ORBITAL PERIOD IN HOURS __1__AND FRACTIONS OF HOURS IN DECIMAL___0.577___,<br>THE NUMBER OF SATELLITES IN THE SYSTEM_____4_____,<br><br>ORB = 97.5IN00500AP00500PE001.58H04NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |
| **Satellite Receive Specifications (SPACEBEE-5, SPACEBEE-6, SPACEBEE-7)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.00 dBi<br>BEAMWIDTH = 60<br>RAD = 02G060B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |
| For Nongeostationary (Orbital Data) | INCLINATION ANGLE___98_____,<br>APOGEE IN KILOMETERS___575_____,<br>PERIGEE IN KILOMETERS___575_____,<br>ORBITAL PERIOD IN HOURS __1____AND FRACTIONS OF HOURS IN DECIMAL__0.603____,<br>THE NUMBER OF SATELLITES IN THE SYSTEM___3_____,<br><br>ORB = 98.0IN00575AP00575PE001.60H03NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |

Earth Station Transmitter Data #34

| | | |
|---|---|---|
| Transmit Frequency: 148.300-148.420 MHz | | |
| State (XSC) | XSC = NV | |
| City Name (XAL) | XAL = IVO Wells | |
| Latitude (DDMMSS) | Lat = 41 04 02 N | |
| Longitude (DDDMMSS) | Lon = 115 01 30 W | |
| Antenna Polarization (XAP) | XAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Antenna Azimuth (XAZ) | XAZ = V00 | THE EARTH STATION Transmitter ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, XAZ01 V00 |
| Antenna Dimensions (XAD) | ANTENNA GAIN__11.0_____,<br>BEAMWIDTH__50_____,<br>AZIMUTHAL RANGE__0 to 360_____,<br>THE SITE ELEVATION ABOVE MEAN SEA LEVEL IN METERS __2023_____<br>THE ANTENNA HEIGHT ABOVE TERRAIN IN METERS __3_____<br><br>XAD = 11G050B000-360A02023H003 | EXAMPLE ASSUMING NONGEOSTATIONARY,<br>XAD01 16G030B000-360A00357H006 |
| **Satellite Receive Specifications (SPACEBEE-1, SPACEBEE-2, SPACEBEE-3, SPACEBEE-4)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF<br>ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.14 dBi<br>BEAMWIDTH = 90<br>RAD = 02G090B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |

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| For Nongeostationary (Orbital Data) | INCLINATION ANGLE____97.5_____,<br>APOGEE IN KILOMETERS____500_____,<br>PERIGEE IN KILOMETERS_____500____,<br>ORBITAL PERIOD IN HOURS __1__AND FRACTIONS OF HOURS IN DECIMAL___0.577___,<br>THE NUMBER OF SATELLITES IN THE SYSTEM_____4_____,<br><br>ORB = 97.5IN00500AP00500PE001.58H04NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |
| **Satellite Receive Specifications (SPACEBEE-5, SPACEBEE-6, SPACEBEE-7)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.00 dBi<br>BEAMWIDTH = 60<br>RAD = 02G060B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |
| For Nongeostationary (Orbital Data) | INCLINATION ANGLE___98_____,<br>APOGEE IN KILOMETERS___575_____,<br>PERIGEE IN KILOMETERS___575_____,<br>ORBITAL PERIOD IN HOURS __1____AND FRACTIONS OF HOURS IN DECIMAL__0.603____,<br>THE NUMBER OF SATELLITES IN THE SYSTEM___3_____,<br><br>ORB = 98.0IN00575AP00575PE001.60H03NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |

Earth Station Transmitter Data #35

| | | |
|---|---|---|
| Transmit Frequency: 148.300-148.420 MHz | | |
| State (XSC) | XSC = FL | |
| City Name (XAL) | XAL = Dog Island | |
| Latitude (DDMMSS) | Lat = 29 48 34 N | |
| Longitude (DDDMMSS) | Lon = 084 35 51 W | |
| Antenna Polarization (XAP) | XAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Antenna Azimuth (XAZ) | XAZ = V00 | THE EARTH STATION Transmitter ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, XAZ01 V00 |
| Antenna Dimensions (XAD) | ANTENNA GAIN__11.0_____,<br>BEAMWIDTH__50_____,<br>AZIMUTHAL RANGE__0 to 360_____,<br>THE SITE ELEVATION ABOVE MEAN SEA LEVEL IN METERS __1_____<br>THE ANTENNA HEIGHT ABOVE TERRAIN IN METERS __3_____<br><br>XAD = 11G050B000-360A00001H003 | EXAMPLE ASSUMING NONGEOSTATIONARY,<br>XAD01 16G030B000-360A00357H006 |
| **Satellite Receive Specifications (SPACEBEE-1, SPACEBEE-2, SPACEBEE-3, SPACEBEE-4)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF<br>ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.14 dBi<br>BEAMWIDTH = 90<br>RAD = 02G090B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |

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| For Nongeostationary (Orbital Data) | INCLINATION ANGLE____97.5_____,<br>APOGEE IN KILOMETERS____500_____,<br>PERIGEE IN KILOMETERS_____500____,<br>ORBITAL PERIOD IN HOURS __1__AND FRACTIONS OF HOURS IN DECIMAL___0.577___,<br>THE NUMBER OF SATELLITES IN THE SYSTEM_____4_____,<br><br>ORB = 97.5IN00500AP00500PE001.58H04NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |
| **Satellite Receive Specifications (SPACEBEE-5, SPACEBEE-6, SPACEBEE-7)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.00 dBi<br>BEAMWIDTH = 60<br>RAD = 02G060B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |
| For Nongeostationary (Orbital Data) | INCLINATION ANGLE___98_____,<br>APOGEE IN KILOMETERS___575_____,<br>PERIGEE IN KILOMETERS___575_____,<br>ORBITAL PERIOD IN HOURS __1____AND FRACTIONS OF HOURS IN DECIMAL__0.603____,<br>THE NUMBER OF SATELLITES IN THE SYSTEM___3_____,<br><br>ORB = 98.0IN00575AP00575PE001.60H03NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |

Earth Station Transmitter Data #36

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| Transmit Frequency: 148.300-148.420 MHz | | |
| State (XSC) | XSC = FL | |
| City Name (XAL) | XAL = St. Vincent Island | |
| Latitude (DDMMSS) | Lat = 29 40 26 N | |
| Longitude (DDDMMSS) | Lon = 085 09 43 W | |
| Antenna Polarization (XAP) | XAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Antenna Azimuth (XAZ) | XAZ = V00 | THE EARTH STATION Transmitter ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, XAZ01 V00 |
| Antenna Dimensions (XAD) | ANTENNA GAIN__11.0_____,<br>BEAMWIDTH__50_____,<br>AZIMUTHAL RANGE__0 to 360_____,<br>THE SITE ELEVATION ABOVE MEAN SEA LEVEL IN METERS __2_____<br>THE ANTENNA HEIGHT ABOVE TERRAIN IN METERS __3_____<br><br>XAD = 11G050B000-360A00002H003 | EXAMPLE ASSUMING NONGEOSTATIONARY,<br>XAD01 16G030B000-360A00357H006 |
| **Satellite Receive Specifications (SPACEBEE-1, SPACEBEE-2, SPACEBEE-3, SPACEBEE-4)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF<br>ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.14 dBi<br>BEAMWIDTH = 90<br>RAD = 02G090B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |

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| For Nongeostationary (Orbital Data) | INCLINATION ANGLE____97.5_____,<br>APOGEE IN KILOMETERS____500_____,<br>PERIGEE IN KILOMETERS_____500____,<br>ORBITAL PERIOD IN HOURS __1__AND FRACTIONS OF HOURS IN DECIMAL___0.577___,<br>THE NUMBER OF SATELLITES IN THE SYSTEM_____4_____,<br><br>ORB = 97.5IN00500AP00500PE001.58H04NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04 *ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL *ORB FOR IT ENDING IN R01, EXAMPLE, REM05 *ORB,72.9IN03209AP00655PE013.46H01NRR01 |
| **Satellite Receive Specifications (SPACEBEE-5, SPACEBEE-6, SPACEBEE-7)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.00 dBi<br>BEAMWIDTH = 60<br>RAD = 02G060B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |
| For Nongeostationary (Orbital Data) | INCLINATION ANGLE___98_____,<br>APOGEE IN KILOMETERS___575_____,<br>PERIGEE IN KILOMETERS___575_____,<br>ORBITAL PERIOD IN HOURS __1____AND FRACTIONS OF HOURS IN DECIMAL__0.603____,<br>THE NUMBER OF SATELLITES IN THE SYSTEM___3_____,<br><br>ORB = 98.0IN00575AP00575PE001.60H03NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04 *ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL *ORB FOR IT ENDING IN R01, EXAMPLE, REM05 *ORB,72.9IN03209AP00655PE013.46H01NRR01 |

Earth Station Transmitter Data #37

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|---|---|---|
| Transmit Frequency: 148.300-148.420 MHz | | |
| State (XSC) | XSC = FL | |
| City Name (XAL) | XAL = Sand Key | |
| Latitude (DDMMSS) | Lat = 24 37 41 N | |
| Longitude (DDDMMSS) | Lon = 082 52 19 W | |
| Antenna Polarization (XAP) | XAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Antenna Azimuth (XAZ) | XAZ = V00 | THE EARTH STATION Transmitter ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, XAZ01 V00 |
| Antenna Dimensions (XAD) | ANTENNA GAIN__11.0_____,<br>BEAMWIDTH__50_____,<br>AZIMUTHAL RANGE__0 to 360_____,<br>THE SITE ELEVATION ABOVE MEAN SEA LEVEL IN METERS __1_____<br>THE ANTENNA HEIGHT ABOVE TERRAIN IN METERS __3_____<br><br>XAD = 11G050B000-360A00001H003 | EXAMPLE ASSUMING NONGEOSTATIONARY,<br>XAD01 16G030B000-360A00357H006 |
| **Satellite Receive Specifications (SPACEBEE-1, SPACEBEE-2, SPACEBEE-3, SPACEBEE-4)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF<br>ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.14 dBi<br>BEAMWIDTH = 90<br>RAD = 02G090B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |

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| For Nongeostationary (Orbital Data) | INCLINATION ANGLE____97.5_____,<br>APOGEE IN KILOMETERS____500_____,<br>PERIGEE IN KILOMETERS_____500____,<br>ORBITAL PERIOD IN HOURS __1__AND FRACTIONS OF HOURS IN DECIMAL___0.577___,<br>THE NUMBER OF SATELLITES IN THE SYSTEM_____4_____,<br><br>ORB = 97.5IN00500AP00500PE001.58H04NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |
| **Satellite Receive Specifications (SPACEBEE-5, SPACEBEE-6, SPACEBEE-7)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.00 dBi<br>BEAMWIDTH = 60<br>RAD = 02G060B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |
| For Nongeostationary (Orbital Data) | INCLINATION ANGLE___98_____,<br>APOGEE IN KILOMETERS___575_____,<br>PERIGEE IN KILOMETERS___575_____,<br>ORBITAL PERIOD IN HOURS __1____AND FRACTIONS OF HOURS IN DECIMAL__0.603____,<br>THE NUMBER OF SATELLITES IN THE SYSTEM___3_____,<br><br>ORB = 98.0IN00575AP00575PE001.60H03NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |

Earth Station Transmitter Data #38

| | | |
|---|---|---|
| Transmit Frequency: 148.300-148.420 MHz | | |
| State (XSC) | XSC = AK | |
| City Name (XAL) | XAL = Twin Lakes | |
| Latitude (DDMMSS) | Lat = 60 37 59 N | |
| Longitude (DDDMMSS) | Lon = 153 54 34 W | |
| Antenna Polarization (XAP) | XAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Antenna Azimuth (XAZ) | XAZ = V00 | THE EARTH STATION Transmitter ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, XAZ01 V00 |
| Antenna Dimensions (XAD) | ANTENNA GAIN__11.0_____,<br>BEAMWIDTH__50_____,<br>AZIMUTHAL RANGE__0 to 360_____,<br>THE SITE ELEVATION ABOVE MEAN SEA LEVEL IN METERS __616_____<br>THE ANTENNA HEIGHT ABOVE TERRAIN IN METERS __3_____<br><br>XAD = 11G050B000-360A00616H003 | EXAMPLE ASSUMING NONGEOSTATIONARY,<br>XAD01 16G030B000-360A00357H006 |
| **Satellite Receive Specifications (SPACEBEE-1, SPACEBEE-2, SPACEBEE-3, SPACEBEE-4)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF<br>ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.14 dBi<br>BEAMWIDTH = 90<br>RAD = 02G090B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |

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| For Nongeostationary (Orbital Data) | INCLINATION ANGLE____97.5_____,<br>APOGEE IN KILOMETERS____500_____,<br>PERIGEE IN KILOMETERS_____500____,<br>ORBITAL PERIOD IN HOURS __1__AND FRACTIONS OF HOURS IN DECIMAL___0.577___,<br>THE NUMBER OF SATELLITES IN THE SYSTEM_____4_____,<br><br>ORB = 97.5IN00500AP00500PE001.58H04NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |
| **Satellite Receive Specifications (SPACEBEE-5, SPACEBEE-6, SPACEBEE-7)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.00 dBi<br>BEAMWIDTH = 60<br>RAD = 02G060B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |
| For Nongeostationary (Orbital Data) | INCLINATION ANGLE___98_____,<br>APOGEE IN KILOMETERS___575_____,<br>PERIGEE IN KILOMETERS___575_____,<br>ORBITAL PERIOD IN HOURS __1____AND FRACTIONS OF HOURS IN DECIMAL__0.603____,<br>THE NUMBER OF SATELLITES IN THE SYSTEM___3_____,<br><br>ORB = 98.0IN00575AP00575PE001.60H03NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |

Earth Station Transmitter Data #39

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|---|---|---|
| Transmit Frequency: 148.300-148.420 MHz | | |
| State (XSC) | XSC = TX | |
| City Name (XAL) | XAL = Terlingua | |
| Latitude (DDMMSS) | Lat = 29 19 20 N | |
| Longitude (DDDMMSS) | Lon = 103 37 02 W | |
| Antenna Polarization (XAP) | XAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Antenna Azimuth (XAZ) | XAZ = V00 | THE EARTH STATION Transmitter ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, XAZ01 V00 |
| Antenna Dimensions (XAD) | ANTENNA GAIN__11.0_____,<br>BEAMWIDTH__50_____,<br>AZIMUTHAL RANGE__0 to 360_____,<br>THE SITE ELEVATION ABOVE MEAN SEA LEVEL IN METERS __893_____<br>THE ANTENNA HEIGHT ABOVE TERRAIN IN METERS __3_____<br><br>XAD = 11G050B000-360A00893H003 | EXAMPLE ASSUMING NONGEOSTATIONARY,<br>XAD01 16G030B000-360A00357H006 |
| **Satellite Receive Specifications (SPACEBEE-1, SPACEBEE-2, SPACEBEE-3, SPACEBEE-4)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF<br>ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.14 dBi<br>BEAMWIDTH = 90<br>RAD = 02G090B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |

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| For Nongeostationary (Orbital Data) | INCLINATION ANGLE____97.5_____,<br>APOGEE IN KILOMETERS____500_____,<br>PERIGEE IN KILOMETERS_____500____,<br>ORBITAL PERIOD IN HOURS __1__AND FRACTIONS OF HOURS IN DECIMAL___0.577___,<br>THE NUMBER OF SATELLITES IN THE SYSTEM_____4_____,<br><br>ORB = 97.5IN00500AP00500PE001.58H04NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |
| **Satellite Receive Specifications (SPACEBEE-5, SPACEBEE-6, SPACEBEE-7)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.00 dBi<br>BEAMWIDTH = 60<br>RAD = 02G060B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |
| For Nongeostationary (Orbital Data) | INCLINATION ANGLE___98_____,<br>APOGEE IN KILOMETERS___575_____,<br>PERIGEE IN KILOMETERS___575_____,<br>ORBITAL PERIOD IN HOURS __1____AND FRACTIONS OF HOURS IN DECIMAL__0.603____,<br>THE NUMBER OF SATELLITES IN THE SYSTEM___3_____,<br><br>ORB = 98.0IN00575AP00575PE001.60H03NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |

Earth Station Transmitter Data #40

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|---|---|---|
| Transmit Frequency: 148.300-148.420 MHz | | |
| State (XSC) | XSC = NY | |
| City Name (XAL) | XAL = New York City | |
| Latitude (DDMMSS) | Lat = 40 42 10 N | |
| Longitude (DDDMMSS) | Lon = 074 00 36 W | |
| Antenna Polarization (XAP) | XAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Antenna Azimuth (XAZ) | XAZ = V00 | THE EARTH STATION Transmitter ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, XAZ01 V00 |
| Antenna Dimensions (XAD) | ANTENNA GAIN__11.0_____,<br>BEAMWIDTH__50_____,<br>AZIMUTHAL RANGE__0 to 360_____,<br>THE SITE ELEVATION ABOVE MEAN SEA LEVEL IN METERS __2_____<br>THE ANTENNA HEIGHT ABOVE TERRAIN IN METERS __3_____<br><br>XAD = 11G050B000-360A00002H003 | EXAMPLE ASSUMING NONGEOSTATIONARY,<br>XAD01 16G030B000-360A00357H006 |
| **Satellite Receive Specifications (SPACEBEE-1, SPACEBEE-2, SPACEBEE-3, SPACEBEE-4)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF<br>ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.14 dBi<br>BEAMWIDTH = 90<br>RAD = 02G090B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |

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| For Nongeostationary (Orbital Data) | INCLINATION ANGLE____97.5_____,<br>APOGEE IN KILOMETERS____500_____,<br>PERIGEE IN KILOMETERS_____500____,<br>ORBITAL PERIOD IN HOURS __1__AND FRACTIONS OF HOURS IN DECIMAL___0.577___,<br>THE NUMBER OF SATELLITES IN THE SYSTEM_____4_____,<br><br>ORB = 97.5IN00500AP00500PE001.58H04NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |
| **Satellite Receive Specifications (SPACEBEE-5, SPACEBEE-6, SPACEBEE-7)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.00 dBi<br>BEAMWIDTH = 60<br>RAD = 02G060B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |
| For Nongeostationary (Orbital Data) | INCLINATION ANGLE___98_____,<br>APOGEE IN KILOMETERS___575_____,<br>PERIGEE IN KILOMETERS___575_____,<br>ORBITAL PERIOD IN HOURS __1____AND FRACTIONS OF HOURS IN DECIMAL__0.603____,<br>THE NUMBER OF SATELLITES IN THE SYSTEM___3_____,<br><br>ORB = 98.0IN00575AP00575PE001.60H03NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |

Earth Station Transmitter Data #41

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|---|---|---|
| Transmit Frequency: 148.300-148.420 MHz | | |
| State (XSC) | XSC = PR | |
| City Name (XAL) | XAL = Rio Grande | |
| Latitude (DDMMSS) | Lat = 18 17 37 N | |
| Longitude (DDDMMSS) | Lon = 065 47 04 W | |
| Antenna Polarization (XAP) | XAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Antenna Azimuth (XAZ) | XAZ = V00 | THE EARTH STATION Transmitter ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, XAZ01 V00 |
| Antenna Dimensions (XAD) | ANTENNA GAIN__11.0_____,<br>BEAMWIDTH__50_____,<br>AZIMUTHAL RANGE__0 to 360_____,<br>THE SITE ELEVATION ABOVE MEAN SEA LEVEL IN METERS __762_____<br>THE ANTENNA HEIGHT ABOVE TERRAIN IN METERS __3_____<br><br>XAD = 11G050B000-360A00762H003 | EXAMPLE ASSUMING NONGEOSTATIONARY,<br>XAD01 16G030B000-360A00357H006 |
| **Satellite Receive Specifications (SPACEBEE-1, SPACEBEE-2, SPACEBEE-3, SPACEBEE-4)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF<br>ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.14 dBi<br>BEAMWIDTH = 90<br>RAD = 02G090B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |

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| For Nongeostationary (Orbital Data) | INCLINATION ANGLE____97.5_____,<br>APOGEE IN KILOMETERS____500_____,<br>PERIGEE IN KILOMETERS_____500____,<br>ORBITAL PERIOD IN HOURS __1__AND FRACTIONS OF HOURS IN DECIMAL___0.577___,<br>THE NUMBER OF SATELLITES IN THE SYSTEM_____4_____,<br><br>ORB = 97.5IN00500AP00500PE001.58H04NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |
| **Satellite Receive Specifications (SPACEBEE-5, SPACEBEE-6, SPACEBEE-7)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.00 dBi<br>BEAMWIDTH = 60<br>RAD = 02G060B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |
| For Nongeostationary (Orbital Data) | INCLINATION ANGLE___98_____,<br>APOGEE IN KILOMETERS___575_____,<br>PERIGEE IN KILOMETERS___575_____,<br>ORBITAL PERIOD IN HOURS __1____AND FRACTIONS OF HOURS IN DECIMAL__0.603____,<br>THE NUMBER OF SATELLITES IN THE SYSTEM___3_____,<br><br>ORB = 98.0IN00575AP00575PE001.60H03NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |

Earth Station Transmitter Data #42

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|---|---|---|
| Transmit Frequency: 148.300-148.420 MHz | | |
| State (XSC) | XSC = NM | |
| City Name (XAL) | XAL = Sandia Crest | |
| Latitude (DDMMSS) | Lat = 35 12 38 N | |
| Longitude (DDDMMSS) | Lon = 106 26 58 W | |
| Antenna Polarization (XAP) | XAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Antenna Azimuth (XAZ) | XAZ = V00 | THE EARTH STATION Transmitter ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, XAZ01 V00 |
| Antenna Dimensions (XAD) | ANTENNA GAIN__11.0_____,<br>BEAMWIDTH__50_____,<br>AZIMUTHAL RANGE__0 to 360_____,<br>THE SITE ELEVATION ABOVE MEAN SEA LEVEL IN METERS __3248_____<br>THE ANTENNA HEIGHT ABOVE TERRAIN IN METERS __3_____<br><br>XAD = 11G050B000-360A03248H003 | EXAMPLE ASSUMING NONGEOSTATIONARY,<br>XAD01 16G030B000-360A00357H006 |
| **Satellite Receive Specifications (SPACEBEE-1, SPACEBEE-2, SPACEBEE-3, SPACEBEE-4)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF<br>ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.14 dBi<br>BEAMWIDTH = 90<br>RAD = 02G090B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |

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| For Nongeostationary (Orbital Data) | INCLINATION ANGLE____97.5_____,<br>APOGEE IN KILOMETERS____500_____,<br>PERIGEE IN KILOMETERS_____500____,<br>ORBITAL PERIOD IN HOURS __1__AND FRACTIONS OF HOURS IN DECIMAL___0.577___,<br>THE NUMBER OF SATELLITES IN THE SYSTEM_____4_____,<br><br>ORB = 97.5IN00500AP00500PE001.58H04NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04 *ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL *ORB FOR IT ENDING IN R01, EXAMPLE, REM05 *ORB,72.9IN03209AP00655PE013.46H01NRR01 |
| **Satellite Receive Specifications (SPACEBEE-5, SPACEBEE-6, SPACEBEE-7)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.00 dBi<br>BEAMWIDTH = 60<br>RAD = 02G060B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |
| For Nongeostationary (Orbital Data) | INCLINATION ANGLE___98_____,<br>APOGEE IN KILOMETERS___575_____,<br>PERIGEE IN KILOMETERS___575_____,<br>ORBITAL PERIOD IN HOURS __1____AND FRACTIONS OF HOURS IN DECIMAL__0.603____,<br>THE NUMBER OF SATELLITES IN THE SYSTEM___3_____,<br><br>ORB = 98.0IN00575AP00575PE001.60H03NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04 *ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL *ORB FOR IT ENDING IN R01, EXAMPLE, REM05 *ORB,72.9IN03209AP00655PE013.46H01NRR01 |

Earth Station Transmitter Data #43

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|---|---|---|
| Transmit Frequency: 148.300-148.420 MHz | | |
| State (XSC) | XSC = ID | |
| City Name (XAL) | XAL = Idaho Falls | |
| Latitude (DDMMSS) | Lat = 43 30 41 N | |
| Longitude (DDDMMSS) | Lon = 112 02 32 W | |
| Antenna Polarization (XAP) | XAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Antenna Azimuth (XAZ) | XAZ = V00 | THE EARTH STATION Transmitter ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, XAZ01 V00 |
| Antenna Dimensions (XAD) | ANTENNA GAIN__11.0_____,<br>BEAMWIDTH__50_____,<br>AZIMUTHAL RANGE__0 to 360_____,<br>THE SITE ELEVATION ABOVE MEAN SEA LEVEL IN METERS __1441_____<br>THE ANTENNA HEIGHT ABOVE TERRAIN IN METERS __3_____<br><br>XAD = 11G050B000-360A01441H003 | EXAMPLE ASSUMING NONGEOSTATIONARY,<br>XAD01 16G030B000-360A00357H006 |
| **Satellite Receive Specifications (SPACEBEE-1, SPACEBEE-2, SPACEBEE-3, SPACEBEE-4)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF<br>ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.14 dBi<br>BEAMWIDTH = 90<br>RAD = 02G090B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |

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| For Nongeostationary (Orbital Data) | INCLINATION ANGLE____97.5_____,<br>APOGEE IN KILOMETERS____500_____,<br>PERIGEE IN KILOMETERS_____500____,<br>ORBITAL PERIOD IN HOURS __1__AND FRACTIONS OF HOURS IN DECIMAL___0.577___,<br>THE NUMBER OF SATELLITES IN THE SYSTEM_____4_____,<br><br>ORB = 97.5IN00500AP00500PE001.58H04NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |
| **Satellite Receive Specifications (SPACEBEE-5, SPACEBEE-6, SPACEBEE-7)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.00 dBi<br>BEAMWIDTH = 60<br>RAD = 02G060B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |
| For Nongeostationary (Orbital Data) | INCLINATION ANGLE___98_____,<br>APOGEE IN KILOMETERS___575_____,<br>PERIGEE IN KILOMETERS___575_____,<br>ORBITAL PERIOD IN HOURS __1____AND FRACTIONS OF HOURS IN DECIMAL__0.603____,<br>THE NUMBER OF SATELLITES IN THE SYSTEM___3_____,<br><br>ORB = 98.0IN00575AP00575PE001.60H03NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |

Earth Station Transmitter Data #44

| | | |
|---|---|---|
| Transmit Frequency: 148.300-148.420 MHz | | |
| State (XSC) | XSC = CA | |
| City Name (XAL) | XAL = Burbank | |
| Latitude (DDMMSS) | Lat = 34 11 51 N | |
| Longitude (DDDMMSS) | Lon = 118 21 25 W | |
| Antenna Polarization (XAP) | XAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Antenna Azimuth (XAZ) | XAZ = V00 | THE EARTH STATION Transmitter ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, XAZ01 V00 |
| Antenna Dimensions (XAD) | ANTENNA GAIN__11.0_____,<br>BEAMWIDTH__50_____,<br>AZIMUTHAL RANGE__0 to 360_____,<br>THE SITE ELEVATION ABOVE MEAN SEA LEVEL IN METERS __216_____<br>THE ANTENNA HEIGHT ABOVE TERRAIN IN METERS __3_____<br><br>XAD = 11G050B000-360A00216H003 | EXAMPLE ASSUMING NONGEOSTATIONARY,<br>XAD01 16G030B000-360A00357H006 |
| **Satellite Receive Specifications (SPACEBEE-1, SPACEBEE-2, SPACEBEE-3, SPACEBEE-4)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF<br>ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.14 dBi<br>BEAMWIDTH = 90<br>RAD = 02G090B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |

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| For Nongeostationary (Orbital Data) | INCLINATION ANGLE____97.5_____,<br>APOGEE IN KILOMETERS____500_____,<br>PERIGEE IN KILOMETERS_____500____,<br>ORBITAL PERIOD IN HOURS __1__AND FRACTIONS OF HOURS IN DECIMAL___0.577___,<br>THE NUMBER OF SATELLITES IN THE SYSTEM_____4_____,<br><br>ORB = 97.5IN00500AP00500PE001.58H04NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04 *ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL *ORB FOR IT ENDING IN R01, EXAMPLE, REM05 *ORB,72.9IN03209AP00655PE013.46H01NRR01 |
| **Satellite Receive Specifications (SPACEBEE-5, SPACEBEE-6, SPACEBEE-7)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.00 dBi<br>BEAMWIDTH = 60<br>RAD = 02G060B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |
| For Nongeostationary (Orbital Data) | INCLINATION ANGLE___98_____,<br>APOGEE IN KILOMETERS___575_____,<br>PERIGEE IN KILOMETERS___575_____,<br>ORBITAL PERIOD IN HOURS __1____AND FRACTIONS OF HOURS IN DECIMAL__0.603____,<br>THE NUMBER OF SATELLITES IN THE SYSTEM___3_____,<br><br>ORB = 98.0IN00575AP00575PE001.60H03NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04 *ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL *ORB FOR IT ENDING IN R01, EXAMPLE, REM05 *ORB,72.9IN03209AP00655PE013.46H01NRR01 |

Earth Station Transmitter Data #45

| | | |
|---|---|---|
| Transmit Frequency: 148.300-148.420 MHz | | |
| State (XSC) | XSC = NC | |
| City Name (XAL) | XAL = Fayetteville | |
| Latitude (DDMMSS) | Lat = 35 05 50 N | |
| Longitude (DDDMMSS) | Lon = 078 58 19 W | |
| Antenna Polarization (XAP) | XAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Antenna Azimuth (XAZ) | XAZ = V00 | THE EARTH STATION Transmitter ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, XAZ01 V00 |
| Antenna Dimensions (XAD) | ANTENNA GAIN__11.0_____,<br>BEAMWIDTH__50_____,<br>AZIMUTHAL RANGE__0 to 360_____,<br>THE SITE ELEVATION ABOVE MEAN SEA LEVEL IN METERS __70_____<br>THE ANTENNA HEIGHT ABOVE TERRAIN IN METERS __3_____<br><br>XAD = 11G050B000-360A00070H003 | EXAMPLE ASSUMING NONGEOSTATIONARY,<br>XAD01 16G030B000-360A00357H006 |
| **Satellite Receive Specifications (SPACEBEE-1, SPACEBEE-2, SPACEBEE-3, SPACEBEE-4)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF<br>ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.14 dBi<br>BEAMWIDTH = 90<br>RAD = 02G090B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |

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| For Nongeostationary (Orbital Data) | INCLINATION ANGLE____97.5_____,<br>APOGEE IN KILOMETERS____500_____,<br>PERIGEE IN KILOMETERS_____500____,<br>ORBITAL PERIOD IN HOURS __1__AND FRACTIONS OF HOURS IN DECIMAL___0.577___,<br>THE NUMBER OF SATELLITES IN THE SYSTEM_____4_____,<br><br>ORB = 97.5IN00500AP00500PE001.58H04NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04 *ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL *ORB FOR IT ENDING IN R01, EXAMPLE, REM05 *ORB,72.9IN03209AP00655PE013.46H01NRR01 |
| **Satellite Receive Specifications (SPACEBEE-5, SPACEBEE-6, SPACEBEE-7)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.00 dBi<br>BEAMWIDTH = 60<br>RAD = 02G060B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |
| For Nongeostationary (Orbital Data) | INCLINATION ANGLE___98_____,<br>APOGEE IN KILOMETERS___575_____,<br>PERIGEE IN KILOMETERS___575_____,<br>ORBITAL PERIOD IN HOURS __1____AND FRACTIONS OF HOURS IN DECIMAL__0.603____,<br>THE NUMBER OF SATELLITES IN THE SYSTEM___3_____,<br><br>ORB = 98.0IN00575AP00575PE001.60H03NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04 *ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL *ORB FOR IT ENDING IN R01, EXAMPLE, REM05 *ORB,72.9IN03209AP00655PE013.46H01NRR01 |

Earth Station Transmitter Data #46

| | | |
|---|---|---|
| Transmit Frequency: 148.300-148.420 MHz | | |
| State (XSC) | XSC = CO | |
| City Name (XAL) | XAL = Colorado Springs | |
| Latitude (DDMMSS) | Lat = 38 47 16 N | |
| Longitude (DDDMMSS) | Lon = 104 51 00 W | |
| Antenna Polarization (XAP) | XAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Antenna Azimuth (XAZ) | XAZ = V00 | THE EARTH STATION Transmitter ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, XAZ01 V00 |
| Antenna Dimensions (XAD) | ANTENNA GAIN__11.0_____,<br>BEAMWIDTH__50_____,<br>AZIMUTHAL RANGE__0 to 360_____,<br>THE SITE ELEVATION ABOVE MEAN SEA LEVEL IN METERS __1899_____<br>THE ANTENNA HEIGHT ABOVE TERRAIN IN METERS __3_____<br><br>XAD = 11G050B000-360A01899H003 | EXAMPLE ASSUMING NONGEOSTATIONARY,<br>XAD01 16G030B000-360A00357H006 |
| **Satellite Receive Specifications (SPACEBEE-1, SPACEBEE-2, SPACEBEE-3, SPACEBEE-4)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF<br>ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.14 dBi<br>BEAMWIDTH = 90<br>RAD = 02G090B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |

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| For Nongeostationary (Orbital Data) | INCLINATION ANGLE____97.5_____,<br>APOGEE IN KILOMETERS____500_____,<br>PERIGEE IN KILOMETERS_____500____,<br>ORBITAL PERIOD IN HOURS __1__AND FRACTIONS OF HOURS IN DECIMAL___0.577___,<br>THE NUMBER OF SATELLITES IN THE SYSTEM_____4_____,<br><br>ORB = 97.5IN00500AP00500PE001.58H04NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |
| **Satellite Receive Specifications (SPACEBEE-5, SPACEBEE-6, SPACEBEE-7)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.00 dBi<br>BEAMWIDTH = 60<br>RAD = 02G060B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |
| For Nongeostationary (Orbital Data) | INCLINATION ANGLE___98_____,<br>APOGEE IN KILOMETERS___575_____,<br>PERIGEE IN KILOMETERS___575_____,<br>ORBITAL PERIOD IN HOURS __1____AND FRACTIONS OF HOURS IN DECIMAL__0.603____,<br>THE NUMBER OF SATELLITES IN THE SYSTEM___3_____,<br><br>ORB = 98.0IN00575AP00575PE001.60H03NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |

Earth Station Transmitter Data #47

| | | |
|---|---|---|
| Transmit Frequency: 148.300-148.420 MHz | | |
| State (XSC) | XSC = PA | |
| City Name (XAL) | XAL = Harrisburg | |
| Latitude (DDMMSS) | Lat = 40 16 23 N | |
| Longitude (DDDMMSS) | Lon = 076 53 10 W | |
| Antenna Polarization (XAP) | XAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Antenna Azimuth (XAZ) | XAZ = V00 | THE EARTH STATION Transmitter ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, XAZ01 V00 |
| Antenna Dimensions (XAD) | ANTENNA GAIN__11.0_____,<br>BEAMWIDTH__50_____,<br>AZIMUTHAL RANGE__0 to 360_____,<br>THE SITE ELEVATION ABOVE MEAN SEA LEVEL IN METERS __107_____<br>THE ANTENNA HEIGHT ABOVE TERRAIN IN METERS __3_____<br><br>XAD = 11G050B000-360A00107H003 | EXAMPLE ASSUMING NONGEOSTATIONARY,<br>XAD01 16G030B000-360A00357H006 |
| **Satellite Receive Specifications (SPACEBEE-1, SPACEBEE-2, SPACEBEE-3, SPACEBEE-4)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF<br>ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.14 dBi<br>BEAMWIDTH = 90<br>RAD = 02G090B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |

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| For Nongeostationary (Orbital Data) | INCLINATION ANGLE____97.5_____,<br>APOGEE IN KILOMETERS____500_____,<br>PERIGEE IN KILOMETERS_____500____,<br>ORBITAL PERIOD IN HOURS __1__AND FRACTIONS OF HOURS IN DECIMAL___0.577___,<br>THE NUMBER OF SATELLITES IN THE SYSTEM_____4_____,<br><br>ORB = 97.5IN00500AP00500PE001.58H04NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |
| **Satellite Receive Specifications (SPACEBEE-5, SPACEBEE-6, SPACEBEE-7)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.00 dBi<br>BEAMWIDTH = 60<br>RAD = 02G060B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |
| For Nongeostationary (Orbital Data) | INCLINATION ANGLE___98_____,<br>APOGEE IN KILOMETERS___575_____,<br>PERIGEE IN KILOMETERS___575_____,<br>ORBITAL PERIOD IN HOURS __1____AND FRACTIONS OF HOURS IN DECIMAL__0.603____,<br>THE NUMBER OF SATELLITES IN THE SYSTEM___3_____,<br><br>ORB = 98.0IN00575AP00575PE001.60H03NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |

Earth Station Transmitter Data #48

| | | |
|---|---|---|
| Transmit Frequency: 148.300-148.420 MHz | | |
| State (XSC) | XSC = PA | |
| City Name (XAL) | XAL = Pittsburgh | |
| Latitude (DDMMSS) | Lat = 40 26 26 N | |
| Longitude (DDDMMSS) | Lon = 079 59 44 W | |
| Antenna Polarization (XAP) | XAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Antenna Azimuth (XAZ) | XAZ = V00 | THE EARTH STATION Transmitter ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, XAZ01 V00 |
| Antenna Dimensions (XAD) | ANTENNA GAIN__11.0_____,<br>BEAMWIDTH__50_____,<br>AZIMUTHAL RANGE__0 to 360_____,<br>THE SITE ELEVATION ABOVE MEAN SEA LEVEL IN METERS __234_____<br>THE ANTENNA HEIGHT ABOVE TERRAIN IN METERS __3_____<br><br>XAD = 11G050B000-360A00234H003 | EXAMPLE ASSUMING NONGEOSTATIONARY,<br>XAD01 16G030B000-360A00357H006 |
| **Satellite Receive Specifications (SPACEBEE-1, SPACEBEE-2, SPACEBEE-3, SPACEBEE-4)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF<br>ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.14 dBi<br>BEAMWIDTH = 90<br>RAD = 02G090B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |

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| For Nongeostationary (Orbital Data) | INCLINATION ANGLE____97.5_____,<br>APOGEE IN KILOMETERS____500_____,<br>PERIGEE IN KILOMETERS_____500____,<br>ORBITAL PERIOD IN HOURS __1__AND FRACTIONS OF HOURS IN DECIMAL___0.577___,<br>THE NUMBER OF SATELLITES IN THE SYSTEM_____4_____,<br><br>ORB = 97.5IN00500AP00500PE001.58H04NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |
| **Satellite Receive Specifications (SPACEBEE-5, SPACEBEE-6, SPACEBEE-7)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.00 dBi<br>BEAMWIDTH = 60<br>RAD = 02G060B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |
| For Nongeostationary (Orbital Data) | INCLINATION ANGLE___98_____,<br>APOGEE IN KILOMETERS___575_____,<br>PERIGEE IN KILOMETERS___575_____,<br>ORBITAL PERIOD IN HOURS __1____AND FRACTIONS OF HOURS IN DECIMAL__0.603____,<br>THE NUMBER OF SATELLITES IN THE SYSTEM___3_____,<br><br>ORB = 98.0IN00575AP00575PE001.60H03NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |

Earth Station Transmitter Data #49

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| Transmit Frequency: 148.300-148.420 MHz | | |
| State (XSC) | XSC = CO | |
| City Name (XAL) | XAL = Everett | |
| Latitude (DDMMSS) | Lat = 39 04 15 N | |
| Longitude (DDDMMSS) | Lon = 106 28 56 W | |
| Antenna Polarization (XAP) | XAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Antenna Azimuth (XAZ) | XAZ = V00 | THE EARTH STATION Transmitter ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, XAZ01 V00 |
| Antenna Dimensions (XAD) | ANTENNA GAIN__11.0_____,<br>BEAMWIDTH__50_____,<br>AZIMUTHAL RANGE__0 to 360_____,<br>THE SITE ELEVATION ABOVE MEAN SEA LEVEL IN METERS __3048_____<br>THE ANTENNA HEIGHT ABOVE TERRAIN IN METERS __3_____<br><br>XAD = 11G050B000-360A03048H003 | EXAMPLE ASSUMING NONGEOSTATIONARY,<br>XAD01 16G030B000-360A00357H006 |
| **Satellite Receive Specifications (SPACEBEE-1, SPACEBEE-2, SPACEBEE-3, SPACEBEE-4)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF<br>ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.14 dBi<br>BEAMWIDTH = 90<br>RAD = 02G090B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |

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| For Nongeostationary (Orbital Data) | INCLINATION ANGLE____97.5_____,<br>APOGEE IN KILOMETERS____500_____,<br>PERIGEE IN KILOMETERS_____500____,<br>ORBITAL PERIOD IN HOURS __1__AND FRACTIONS OF HOURS IN DECIMAL___0.577___,<br>THE NUMBER OF SATELLITES IN THE SYSTEM_____4_____,<br><br>ORB = 97.5IN00500AP00500PE001.58H04NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |
| **Satellite Receive Specifications (SPACEBEE-5, SPACEBEE-6, SPACEBEE-7)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.00 dBi<br>BEAMWIDTH = 60<br>RAD = 02G060B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |
| For Nongeostationary (Orbital Data) | INCLINATION ANGLE___98_____,<br>APOGEE IN KILOMETERS___575_____,<br>PERIGEE IN KILOMETERS___575_____,<br>ORBITAL PERIOD IN HOURS __1____AND FRACTIONS OF HOURS IN DECIMAL__0.603____,<br>THE NUMBER OF SATELLITES IN THE SYSTEM___3_____,<br><br>ORB = 98.0IN00575AP00575PE001.60H03NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |

Earth Station Transmitter Data #50

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|---|---|---|
| Transmit Frequency: 148.300-148.420 MHz | | |
| State (XSC) | XSC = NC | |
| City Name (XAL) | XAL = Asheboro | |
| Latitude (DDMMSS) | Lat = 35 42 29 N | |
| Longitude (DDDMMSS) | Lon = 079 48 59 W | |
| Antenna Polarization (XAP) | XAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Antenna Azimuth (XAZ) | XAZ = V00 | THE EARTH STATION Transmitter ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, XAZ01 V00 |
| Antenna Dimensions (XAD) | ANTENNA GAIN__11.0_____,<br>BEAMWIDTH__50_____,<br>AZIMUTHAL RANGE__0 to 360_____,<br>THE SITE ELEVATION ABOVE MEAN SEA LEVEL IN METERS __256_____<br>THE ANTENNA HEIGHT ABOVE TERRAIN IN METERS __3_____<br><br>XAD = 11G050B000-360A00256H003 | EXAMPLE ASSUMING NONGEOSTATIONARY,<br>XAD01 16G030B000-360A00357H006 |
| **Satellite Receive Specifications (SPACEBEE-1, SPACEBEE-2, SPACEBEE-3, SPACEBEE-4)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF<br>ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.14 dBi<br>BEAMWIDTH = 90<br>RAD = 02G090B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |

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| For Nongeostationary (Orbital Data) | INCLINATION ANGLE____97.5_____,<br>APOGEE IN KILOMETERS____500_____,<br>PERIGEE IN KILOMETERS_____500____,<br>ORBITAL PERIOD IN HOURS __1__AND FRACTIONS OF HOURS IN DECIMAL___0.577___,<br>THE NUMBER OF SATELLITES IN THE SYSTEM_____4_____,<br><br>ORB = 97.5IN00500AP00500PE001.58H04NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |
| **Satellite Receive Specifications (SPACEBEE-5, SPACEBEE-6, SPACEBEE-7)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.00 dBi<br>BEAMWIDTH = 60<br>RAD = 02G060B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |
| For Nongeostationary (Orbital Data) | INCLINATION ANGLE___98_____,<br>APOGEE IN KILOMETERS___575_____,<br>PERIGEE IN KILOMETERS___575_____,<br>ORBITAL PERIOD IN HOURS __1____AND FRACTIONS OF HOURS IN DECIMAL__0.603____,<br>THE NUMBER OF SATELLITES IN THE SYSTEM___3_____,<br><br>ORB = 98.0IN00575AP00575PE001.60H03NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |

Earth Station Transmitter Data #51

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|---|---|---|
| Transmit Frequency: 148.300-148.420 MHz | | |
| State (XSC) | XSC = CA | |
| City Name (XAL) | XAL = Palm Springs | |
| Latitude (DDMMSS) | Lat = 33 47 43 N | |
| Longitude (DDDMMSS) | Lon = 116 29 59 W | |
| Antenna Polarization (XAP) | XAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Antenna Azimuth (XAZ) | XAZ = V00 | THE EARTH STATION Transmitter ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, XAZ01 V00 |
| Antenna Dimensions (XAD) | ANTENNA GAIN__11.0_____,<br>BEAMWIDTH__50_____,<br>AZIMUTHAL RANGE__0 to 360_____,<br>THE SITE ELEVATION ABOVE MEAN SEA LEVEL IN METERS __107_____<br>THE ANTENNA HEIGHT ABOVE TERRAIN IN METERS __3_____<br><br>XAD = 11G050B000-360A00107H003 | EXAMPLE ASSUMING NONGEOSTATIONARY,<br>XAD01 16G030B000-360A00357H006 |
| **Satellite Receive Specifications (SPACEBEE-1, SPACEBEE-2, SPACEBEE-3, SPACEBEE-4)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF<br>ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.14 dBi<br>BEAMWIDTH = 90<br>RAD = 02G090B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |

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| For Nongeostationary (Orbital Data) | INCLINATION ANGLE____97.5_____,<br>APOGEE IN KILOMETERS____500_____,<br>PERIGEE IN KILOMETERS_____500____,<br>ORBITAL PERIOD IN HOURS __1__AND FRACTIONS OF HOURS IN DECIMAL___0.577___,<br>THE NUMBER OF SATELLITES IN THE SYSTEM_____4_____,<br><br>ORB = 97.5IN00500AP00500PE001.58H04NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |
| **Satellite Receive Specifications (SPACEBEE-5, SPACEBEE-6, SPACEBEE-7)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.00 dBi<br>BEAMWIDTH = 60<br>RAD = 02G060B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |
| For Nongeostationary (Orbital Data) | INCLINATION ANGLE___98_____,<br>APOGEE IN KILOMETERS___575_____,<br>PERIGEE IN KILOMETERS___575_____,<br>ORBITAL PERIOD IN HOURS __1____AND FRACTIONS OF HOURS IN DECIMAL__0.603____,<br>THE NUMBER OF SATELLITES IN THE SYSTEM___3_____,<br><br>ORB = 98.0IN00575AP00575PE001.60H03NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |

Earth Station Transmitter Data #52

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|---|---|---|
| Transmit Frequency: 148.300-148.420 MHz | | |
| State (XSC) | XSC = CA | |
| City Name (XAL) | XAL = Vacaville | |
| Latitude (DDMMSS) | Lat = 38 25 34 N | |
| Longitude (DDDMMSS) | Lon = 121 55 29 W | |
| Antenna Polarization (XAP) | XAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Antenna Azimuth (XAZ) | XAZ = V00 | THE EARTH STATION Transmitter ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, XAZ01 V00 |
| Antenna Dimensions (XAD) | ANTENNA GAIN__11.0_____,<br>BEAMWIDTH__50_____,<br>AZIMUTHAL RANGE__0 to 360_____,<br>THE SITE ELEVATION ABOVE MEAN SEA LEVEL IN METERS __29_____<br>THE ANTENNA HEIGHT ABOVE TERRAIN IN METERS __3_____<br><br>XAD = 11G050B000-360A00029H003 | EXAMPLE ASSUMING NONGEOSTATIONARY,<br>XAD01 16G030B000-360A00357H006 |
| **Satellite Receive Specifications (SPACEBEE-1, SPACEBEE-2, SPACEBEE-3, SPACEBEE-4)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF<br>ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.14 dBi<br>BEAMWIDTH = 90<br>RAD = 02G090B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |

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|---|---|---|
| For Nongeostationary (Orbital Data) | INCLINATION ANGLE____97.5_____,<br>APOGEE IN KILOMETERS____500_____,<br>PERIGEE IN KILOMETERS_____500____,<br>ORBITAL PERIOD IN HOURS __1__AND FRACTIONS OF HOURS IN DECIMAL___0.577___,<br>THE NUMBER OF SATELLITES IN THE SYSTEM_____4_____,<br><br>ORB = 97.5IN00500AP00500PE001.58H04NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |
| **Satellite Receive Specifications (SPACEBEE-5, SPACEBEE-6, SPACEBEE-7)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.00 dBi<br>BEAMWIDTH = 60<br>RAD = 02G060B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |
| For Nongeostationary (Orbital Data) | INCLINATION ANGLE___98_____,<br>APOGEE IN KILOMETERS___575_____,<br>PERIGEE IN KILOMETERS___575_____,<br>ORBITAL PERIOD IN HOURS __1____AND FRACTIONS OF HOURS IN DECIMAL__0.603____,<br>THE NUMBER OF SATELLITES IN THE SYSTEM___3_____,<br><br>ORB = 98.0IN00575AP00575PE001.60H03NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |

Earth Station Transmitter Data #53

| | | |
|---|---|---|
| Transmit Frequency: 148.300-148.420 MHz | | |
| State (XSC) | XSC = CA | |
| City Name (XAL) | XAL = Saxon | |
| Latitude (DDMMSS) | Lat = 38 26 47 N | |
| Longitude (DDDMMSS) | Lon = 121 37 55 W | |
| Antenna Polarization (XAP) | XAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Antenna Azimuth (XAZ) | XAZ = V00 | THE EARTH STATION Transmitter ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, XAZ01 V00 |
| Antenna Dimensions (XAD) | ANTENNA GAIN__11.0_____,<br>BEAMWIDTH__50_____,<br>AZIMUTHAL RANGE__0 to 360_____,<br>THE SITE ELEVATION ABOVE MEAN SEA LEVEL IN METERS __3_____<br>THE ANTENNA HEIGHT ABOVE TERRAIN IN METERS __3_____<br><br>XAD = 11G050B000-360A00003H003 | EXAMPLE ASSUMING NONGEOSTATIONARY,<br>XAD01 16G030B000-360A00357H006 |
| **Satellite Receive Specifications (SPACEBEE-1, SPACEBEE-2, SPACEBEE-3, SPACEBEE-4)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF<br>ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.14 dBi<br>BEAMWIDTH = 90<br>RAD = 02G090B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |

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| For Nongeostationary (Orbital Data) | INCLINATION ANGLE____97.5_____,<br>APOGEE IN KILOMETERS____500_____,<br>PERIGEE IN KILOMETERS_____500____,<br>ORBITAL PERIOD IN HOURS __1__AND FRACTIONS OF HOURS IN DECIMAL___0.577___,<br>THE NUMBER OF SATELLITES IN THE SYSTEM_____4_____,<br><br>ORB = 97.5IN00500AP00500PE001.58H04NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |
| **Satellite Receive Specifications (SPACEBEE-5, SPACEBEE-6, SPACEBEE-7)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.00 dBi<br>BEAMWIDTH = 60<br>RAD = 02G060B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |
| For Nongeostationary (Orbital Data) | INCLINATION ANGLE___98_____,<br>APOGEE IN KILOMETERS___575_____,<br>PERIGEE IN KILOMETERS___575_____,<br>ORBITAL PERIOD IN HOURS __1____AND FRACTIONS OF HOURS IN DECIMAL__0.603____,<br>THE NUMBER OF SATELLITES IN THE SYSTEM___3_____,<br><br>ORB = 98.0IN00575AP00575PE001.60H03NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |

Earth Station Transmitter Data #54

| | | |
|---|---|---|
| Transmit Frequency: 148.300-148.420 MHz | | |
| State (XSC) | XSC = CA | |
| City Name (XAL) | XAL = Fairfield | |
| Latitude (DDMMSS) | Lat = 38 12 32 N | |
| Longitude (DDDMMSS) | Lon = 122 02 41 W | |
| Antenna Polarization (XAP) | XAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Antenna Azimuth (XAZ) | XAZ = V00 | THE EARTH STATION Transmitter ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, XAZ01 V00 |
| Antenna Dimensions (XAD) | ANTENNA GAIN__11.0_____,<br>BEAMWIDTH__50_____,<br>AZIMUTHAL RANGE__0 to 360_____,<br>THE SITE ELEVATION ABOVE MEAN SEA LEVEL IN METERS __2_____<br>THE ANTENNA HEIGHT ABOVE TERRAIN IN METERS __3_____<br><br>XAD = 11G050B000-360A00002H003 | EXAMPLE ASSUMING NONGEOSTATIONARY,<br>XAD01 16G030B000-360A00357H006 |
| **Satellite Receive Specifications (SPACEBEE-1, SPACEBEE-2, SPACEBEE-3, SPACEBEE-4)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF<br>ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.14 dBi<br>BEAMWIDTH = 90<br>RAD = 02G090B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |

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| For Nongeostationary (Orbital Data) | INCLINATION ANGLE____97.5_____,<br>APOGEE IN KILOMETERS____500_____,<br>PERIGEE IN KILOMETERS_____500____,<br>ORBITAL PERIOD IN HOURS __1__AND FRACTIONS OF HOURS IN DECIMAL___0.577___,<br>THE NUMBER OF SATELLITES IN THE SYSTEM_____4_____,<br><br>ORB = 97.5IN00500AP00500PE001.58H04NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04 *ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL *ORB FOR IT ENDING IN R01, EXAMPLE, REM05 *ORB,72.9IN03209AP00655PE013.46H01NRR01 |
| **Satellite Receive Specifications (SPACEBEE-5, SPACEBEE-6, SPACEBEE-7)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.00 dBi<br>BEAMWIDTH = 60<br>RAD = 02G060B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |
| For Nongeostationary (Orbital Data) | INCLINATION ANGLE___98_____,<br>APOGEE IN KILOMETERS___575_____,<br>PERIGEE IN KILOMETERS___575_____,<br>ORBITAL PERIOD IN HOURS __1____AND FRACTIONS OF HOURS IN DECIMAL__0.603____,<br>THE NUMBER OF SATELLITES IN THE SYSTEM___3_____,<br><br>ORB = 98.0IN00575AP00575PE001.60H03NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04 *ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL *ORB FOR IT ENDING IN R01, EXAMPLE, REM05 *ORB,72.9IN03209AP00655PE013.46H01NRR01 |

Earth Station Transmitter Data #55

| | | |
|---|---|---|
| Transmit Frequency: 148.300-148.420 MHz | | |
| State (XSC) | XSC = CA | |
| City Name (XAL) | XAL = Olcott | |
| Latitude (DDMMSS) | Lat = 38 14 30 N | |
| Longitude (DDDMMSS) | Lon = 121 48 19 W | |
| Antenna Polarization (XAP) | XAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Antenna Azimuth (XAZ) | XAZ = V00 | THE EARTH STATION Transmitter ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, XAZ01 V00 |
| Antenna Dimensions (XAD) | ANTENNA GAIN__11.0_____,<br>BEAMWIDTH__50_____,<br>AZIMUTHAL RANGE__0 to 360_____,<br>THE SITE ELEVATION ABOVE MEAN SEA LEVEL IN METERS __6_____<br>THE ANTENNA HEIGHT ABOVE TERRAIN IN METERS __3_____<br><br>XAD = 11G050B000-360A00006H003 | EXAMPLE ASSUMING NONGEOSTATIONARY,<br>XAD01 16G030B000-360A00357H006 |
| **Satellite Receive Specifications (SPACEBEE-1, SPACEBEE-2, SPACEBEE-3, SPACEBEE-4)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF<br>ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.14 dBi<br>BEAMWIDTH = 90<br>RAD = 02G090B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |

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| For Nongeostationary (Orbital Data) | INCLINATION ANGLE____97.5_____,<br>APOGEE IN KILOMETERS____500_____,<br>PERIGEE IN KILOMETERS_____500____,<br>ORBITAL PERIOD IN HOURS __1__AND FRACTIONS OF HOURS IN DECIMAL___0.577___,<br>THE NUMBER OF SATELLITES IN THE SYSTEM_____4_____,<br><br>ORB = 97.5IN00500AP00500PE001.58H04NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |
| **Satellite Receive Specifications (SPACEBEE-5, SPACEBEE-6, SPACEBEE-7)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.00 dBi<br>BEAMWIDTH = 60<br>RAD = 02G060B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |
| For Nongeostationary (Orbital Data) | INCLINATION ANGLE___98_____,<br>APOGEE IN KILOMETERS___575_____,<br>PERIGEE IN KILOMETERS___575_____,<br>ORBITAL PERIOD IN HOURS __1____AND FRACTIONS OF HOURS IN DECIMAL__0.603____,<br>THE NUMBER OF SATELLITES IN THE SYSTEM___3_____,<br><br>ORB = 98.0IN00575AP00575PE001.60H03NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |

Earth Station Transmitter Data #56

| | | |
|---|---|---|
| Transmit Frequency: 148.300-148.420 MHz | | |
| State (XSC) | XSC = CA | |
| City Name (XAL) | XAL = Hood | |
| Latitude (DDMMSS) | Lat = 38 20 53 N | |
| Longitude (DDDMMSS) | Lon = 121 32 01 W | |
| Antenna Polarization (XAP) | XAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Antenna Azimuth (XAZ) | XAZ = V00 | THE EARTH STATION Transmitter ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, XAZ01 V00 |
| Antenna Dimensions (XAD) | ANTENNA GAIN__11.0_____,<br>BEAMWIDTH__50_____,<br>AZIMUTHAL RANGE__0 to 360_____,<br>THE SITE ELEVATION ABOVE MEAN SEA LEVEL IN METERS __5_____<br>THE ANTENNA HEIGHT ABOVE TERRAIN IN METERS __3_____<br><br>XAD = 11G050B000-360A00005H003 | EXAMPLE ASSUMING NONGEOSTATIONARY,<br>XAD01 16G030B000-360A00357H006 |
| **Satellite Receive Specifications (SPACEBEE-1, SPACEBEE-2, SPACEBEE-3, SPACEBEE-4)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF<br>ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.14 dBi<br>BEAMWIDTH = 90<br>RAD = 02G090B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |

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| For Nongeostationary (Orbital Data) | INCLINATION ANGLE____97.5_____,<br>APOGEE IN KILOMETERS____500_____,<br>PERIGEE IN KILOMETERS_____500____,<br>ORBITAL PERIOD IN HOURS __1__AND FRACTIONS OF HOURS IN DECIMAL___0.577___,<br>THE NUMBER OF SATELLITES IN THE SYSTEM_____4_____,<br><br>ORB = 97.5IN00500AP00500PE001.58H04NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |
| **Satellite Receive Specifications (SPACEBEE-5, SPACEBEE-6, SPACEBEE-7)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.00 dBi<br>BEAMWIDTH = 60<br>RAD = 02G060B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |
| For Nongeostationary (Orbital Data) | INCLINATION ANGLE___98_____,<br>APOGEE IN KILOMETERS___575_____,<br>PERIGEE IN KILOMETERS___575_____,<br>ORBITAL PERIOD IN HOURS __1____AND FRACTIONS OF HOURS IN DECIMAL__0.603____,<br>THE NUMBER OF SATELLITES IN THE SYSTEM___3_____,<br><br>ORB = 98.0IN00575AP00575PE001.60H03NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |

Earth Station Transmitter Data #57

| | | |
|---|---|---|
| Transmit Frequency: 148.300-148.420 MHz | | |
| State (XSC) | XSC = CA | |
| City Name (XAL) | XAL = Isleton | |
| Latitude (DDMMSS) | Lat = 38 08 57 N | |
| Longitude (DDDMMSS) | Lon = 121 32 46 W | |
| Antenna Polarization (XAP) | XAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Antenna Azimuth (XAZ) | XAZ = V00 | THE EARTH STATION Transmitter ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, XAZ01 V00 |
| Antenna Dimensions (XAD) | ANTENNA GAIN__11.0_____,<br>BEAMWIDTH__50_____,<br>AZIMUTHAL RANGE__0 to 360_____,<br>THE SITE ELEVATION ABOVE MEAN SEA LEVEL IN METERS __3_____<br>THE ANTENNA HEIGHT ABOVE TERRAIN IN METERS __3_____<br><br>XAD = 11G050B000-360A00003H003 | EXAMPLE ASSUMING NONGEOSTATIONARY,<br>XAD01 16G030B000-360A00357H006 |
| **Satellite Receive Specifications (SPACEBEE-1, SPACEBEE-2, SPACEBEE-3, SPACEBEE-4)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF<br>ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.14 dBi<br>BEAMWIDTH = 90<br>RAD = 02G090B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |

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| For Nongeostationary (Orbital Data) | INCLINATION ANGLE____97.5_____,<br>APOGEE IN KILOMETERS____500_____,<br>PERIGEE IN KILOMETERS_____500____,<br>ORBITAL PERIOD IN HOURS __1__AND FRACTIONS OF HOURS IN DECIMAL___0.577___,<br>THE NUMBER OF SATELLITES IN THE SYSTEM_____4_____,<br><br>ORB = 97.5IN00500AP00500PE001.58H04NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |
| **Satellite Receive Specifications (SPACEBEE-5, SPACEBEE-6, SPACEBEE-7)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.00 dBi<br>BEAMWIDTH = 60<br>RAD = 02G060B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |
| For Nongeostationary (Orbital Data) | INCLINATION ANGLE___98_____,<br>APOGEE IN KILOMETERS___575_____,<br>PERIGEE IN KILOMETERS___575_____,<br>ORBITAL PERIOD IN HOURS __1____AND FRACTIONS OF HOURS IN DECIMAL__0.603____,<br>THE NUMBER OF SATELLITES IN THE SYSTEM___3_____,<br><br>ORB = 98.0IN00575AP00575PE001.60H03NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |

Earth Station Transmitter Data #58

| | | |
|---|---|---|
| Transmit Frequency: 148.300-148.420 MHz | | |
| State (XSC) | XSC = CA | |
| City Name (XAL) | XAL = Herald | |
| Latitude (DDMMSS) | Lat = 38 16 38 N | |
| Longitude (DDDMMSS) | Lon = 121 15 37 W | |
| Antenna Polarization (XAP) | XAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Antenna Azimuth (XAZ) | XAZ = V00 | THE EARTH STATION Transmitter ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, XAZ01 V00 |
| Antenna Dimensions (XAD) | ANTENNA GAIN__11.0_____,<br>BEAMWIDTH__50_____,<br>AZIMUTHAL RANGE__0 to 360_____,<br>THE SITE ELEVATION ABOVE MEAN SEA LEVEL IN METERS __22_____<br>THE ANTENNA HEIGHT ABOVE TERRAIN IN METERS __3_____<br><br>XAD = 11G050B000-360A00022H003 | EXAMPLE ASSUMING NONGEOSTATIONARY,<br>XAD01 16G030B000-360A00357H006 |
| **Satellite Receive Specifications (SPACEBEE-1, SPACEBEE-2, SPACEBEE-3, SPACEBEE-4)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF<br>ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.14 dBi<br>BEAMWIDTH = 90<br>RAD = 02G090B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |

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| For Nongeostationary (Orbital Data) | INCLINATION ANGLE____97.5_____,<br>APOGEE IN KILOMETERS____500_____,<br>PERIGEE IN KILOMETERS_____500____,<br>ORBITAL PERIOD IN HOURS __1__AND FRACTIONS OF HOURS IN DECIMAL___0.577___,<br>THE NUMBER OF SATELLITES IN THE SYSTEM_____4_____,<br><br>ORB = 97.5IN00500AP00500PE001.58H04NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |
| **Satellite Receive Specifications (SPACEBEE-5, SPACEBEE-6, SPACEBEE-7)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.00 dBi<br>BEAMWIDTH = 60<br>RAD = 02G060B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |
| For Nongeostationary (Orbital Data) | INCLINATION ANGLE___98_____,<br>APOGEE IN KILOMETERS___575_____,<br>PERIGEE IN KILOMETERS___575_____,<br>ORBITAL PERIOD IN HOURS __1____AND FRACTIONS OF HOURS IN DECIMAL__0.603____,<br>THE NUMBER OF SATELLITES IN THE SYSTEM___3_____,<br><br>ORB = 98.0IN00575AP00575PE001.60H03NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |

Earth Station Transmitter Data #59

| | | |
|---|---|---|
| Transmit Frequency: 148.300-148.420 MHz | | |
| State (XSC) | XSC = CA | |
| City Name (XAL) | XAL = Stockton | |
| Latitude (DDMMSS) | Lat = 38 03 29 N | |
| Longitude (DDDMMSS) | Lon = 121 22 30 W | |
| Antenna Polarization (XAP) | XAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Antenna Azimuth (XAZ) | XAZ = V00 | THE EARTH STATION Transmitter ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, XAZ01 V00 |
| Antenna Dimensions (XAD) | ANTENNA GAIN__11.0_____,<br>BEAMWIDTH__50_____,<br>AZIMUTHAL RANGE__0 to 360_____,<br>THE SITE ELEVATION ABOVE MEAN SEA LEVEL IN METERS __2_____<br>THE ANTENNA HEIGHT ABOVE TERRAIN IN METERS __3_____<br><br>XAD = 11G050B000-360A00002H003 | EXAMPLE ASSUMING NONGEOSTATIONARY,<br>XAD01 16G030B000-360A00357H006 |
| **Satellite Receive Specifications (SPACEBEE-1, SPACEBEE-2, SPACEBEE-3, SPACEBEE-4)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF<br>ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.14 dBi<br>BEAMWIDTH = 90<br>RAD = 02G090B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |

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| For Nongeostationary (Orbital Data) | INCLINATION ANGLE____97.5_____,<br>APOGEE IN KILOMETERS____500_____,<br>PERIGEE IN KILOMETERS_____500____,<br>ORBITAL PERIOD IN HOURS __1__AND FRACTIONS OF HOURS IN DECIMAL___0.577___,<br>THE NUMBER OF SATELLITES IN THE SYSTEM_____4_____,<br><br>ORB = 97.5IN00500AP00500PE001.58H04NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04 *ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL *ORB FOR IT ENDING IN R01, EXAMPLE, REM05 *ORB,72.9IN03209AP00655PE013.46H01NRR01 |
| **Satellite Receive Specifications (SPACEBEE-5, SPACEBEE-6, SPACEBEE-7)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.00 dBi<br>BEAMWIDTH = 60<br>RAD = 02G060B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |
| For Nongeostationary (Orbital Data) | INCLINATION ANGLE___98_____,<br>APOGEE IN KILOMETERS___575_____,<br>PERIGEE IN KILOMETERS___575_____,<br>ORBITAL PERIOD IN HOURS __1____AND FRACTIONS OF HOURS IN DECIMAL__0.603____,<br>THE NUMBER OF SATELLITES IN THE SYSTEM___3_____,<br><br>ORB = 98.0IN00575AP00575PE001.60H03NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04 *ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL *ORB FOR IT ENDING IN R01, EXAMPLE, REM05 *ORB,72.9IN03209AP00655PE013.46H01NRR01 |

Earth Station Transmitter Data #60

| | | |
|---|---|---|
| Transmit Frequency: 148.300-148.420 MHz | | |
| State (XSC) | XSC = CA | |
| City Name (XAL) | XAL = Antioch | |
| Latitude (DDMMSS) | Lat = 38 03 33 N | |
| Longitude (DDDMMSS) | Lon = 121 46 60 W | |
| Antenna Polarization (XAP) | XAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Antenna Azimuth (XAZ) | XAZ = V00 | THE EARTH STATION Transmitter ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, XAZ01 V00 |
| Antenna Dimensions (XAD) | ANTENNA GAIN__11.0_____,<br>BEAMWIDTH__50_____,<br>AZIMUTHAL RANGE__0 to 360_____,<br>THE SITE ELEVATION ABOVE MEAN SEA LEVEL IN METERS __1_____<br>THE ANTENNA HEIGHT ABOVE TERRAIN IN METERS __3_____<br><br>XAD = 11G050B000-360A00001H003 | EXAMPLE ASSUMING NONGEOSTATIONARY,<br>XAD01 16G030B000-360A00357H006 |
| **Satellite Receive Specifications (SPACEBEE-1, SPACEBEE-2, SPACEBEE-3, SPACEBEE-4)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF<br>ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.14 dBi<br>BEAMWIDTH = 90<br>RAD = 02G090B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |

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| For Nongeostationary (Orbital Data) | INCLINATION ANGLE____97.5_____,<br>APOGEE IN KILOMETERS____500_____,<br>PERIGEE IN KILOMETERS_____500____,<br>ORBITAL PERIOD IN HOURS __1__AND FRACTIONS OF HOURS IN DECIMAL___0.577___,<br>THE NUMBER OF SATELLITES IN THE SYSTEM_____4_____,<br><br>ORB = 97.5IN00500AP00500PE001.58H04NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |
| **Satellite Receive Specifications (SPACEBEE-5, SPACEBEE-6, SPACEBEE-7)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.00 dBi<br>BEAMWIDTH = 60<br>RAD = 02G060B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |
| For Nongeostationary (Orbital Data) | INCLINATION ANGLE___98_____,<br>APOGEE IN KILOMETERS___575_____,<br>PERIGEE IN KILOMETERS___575_____,<br>ORBITAL PERIOD IN HOURS __1____AND FRACTIONS OF HOURS IN DECIMAL__0.603____,<br>THE NUMBER OF SATELLITES IN THE SYSTEM___3_____,<br><br>ORB = 98.0IN00575AP00575PE001.60H03NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |

Earth Station Transmitter Data #61

| | | |
|---|---|---|
| Transmit Frequency: 148.300-148.420 MHz | | |
| State (XSC) | XSC = CA | |
| City Name (XAL) | XAL = San Jose | |
| Latitude (DDMMSS) | Lat = 37 18 38 N | |
| Longitude (DDDMMSS) | Lon = 121 53 13 W | |
| Antenna Polarization (XAP) | XAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Antenna Azimuth (XAZ) | XAZ = V00 | THE EARTH STATION Transmitter ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, XAZ01 V00 |
| Antenna Dimensions (XAD) | ANTENNA GAIN__11.0_____,<br>BEAMWIDTH__50_____,<br>AZIMUTHAL RANGE__0 to 360_____,<br>THE SITE ELEVATION ABOVE MEAN SEA LEVEL IN METERS __34_____<br>THE ANTENNA HEIGHT ABOVE TERRAIN IN METERS __3_____<br><br>XAD = 11G050B000-360A00034H003 | EXAMPLE ASSUMING NONGEOSTATIONARY,<br>XAD01 16G030B000-360A00357H006 |
| **Satellite Receive Specifications (SPACEBEE-1, SPACEBEE-2, SPACEBEE-3, SPACEBEE-4)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF<br>ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.14 dBi<br>BEAMWIDTH = 90<br>RAD = 02G090B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |

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| For Nongeostationary (Orbital Data) | INCLINATION ANGLE____97.5_____,<br>APOGEE IN KILOMETERS____500_____,<br>PERIGEE IN KILOMETERS_____500____,<br>ORBITAL PERIOD IN HOURS __1__AND FRACTIONS OF HOURS IN DECIMAL___0.577___,<br>THE NUMBER OF SATELLITES IN THE SYSTEM_____4_____,<br><br>ORB = 97.5IN00500AP00500PE001.58H04NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |
| **Satellite Receive Specifications (SPACEBEE-5, SPACEBEE-6, SPACEBEE-7)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.00 dBi<br>BEAMWIDTH = 60<br>RAD = 02G060B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |
| For Nongeostationary (Orbital Data) | INCLINATION ANGLE___98_____,<br>APOGEE IN KILOMETERS___575_____,<br>PERIGEE IN KILOMETERS___575_____,<br>ORBITAL PERIOD IN HOURS __1____AND FRACTIONS OF HOURS IN DECIMAL__0.603____,<br>THE NUMBER OF SATELLITES IN THE SYSTEM___3_____,<br><br>ORB = 98.0IN00575AP00575PE001.60H03NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |

Earth Station Transmitter Data #62

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| Transmit Frequency: 148.300-148.420 MHz | | |
| State (XSC) | XSC = CA | |
| City Name (XAL) | XAL = Groveland | |
| Latitude (DDMMSS) | Lat = 37 50 36 N | |
| Longitude (DDDMMSS) | Lon = 120 11 20 W | |
| Antenna Polarization (XAP) | XAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Antenna Azimuth (XAZ) | XAZ = V00 | THE EARTH STATION Transmitter ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, XAZ01 V00 |
| Antenna Dimensions (XAD) | ANTENNA GAIN__11.0_____,<br>BEAMWIDTH__50_____,<br>AZIMUTHAL RANGE__0 to 360_____,<br>THE SITE ELEVATION ABOVE MEAN SEA LEVEL IN METERS __785_____<br>THE ANTENNA HEIGHT ABOVE TERRAIN IN METERS __3_____<br><br>XAD = 11G050B000-360A00785H003 | EXAMPLE ASSUMING NONGEOSTATIONARY,<br>XAD01 16G030B000-360A00357H006 |
| **Satellite Receive Specifications (SPACEBEE-1, SPACEBEE-2, SPACEBEE-3, SPACEBEE-4)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF<br>ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.14 dBi<br>BEAMWIDTH = 90<br>RAD = 02G090B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |

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| For Nongeostationary (Orbital Data) | INCLINATION ANGLE____97.5_____,<br>APOGEE IN KILOMETERS____500_____,<br>PERIGEE IN KILOMETERS_____500____,<br>ORBITAL PERIOD IN HOURS __1__AND FRACTIONS OF HOURS IN DECIMAL___0.577___,<br>THE NUMBER OF SATELLITES IN THE SYSTEM_____4_____,<br><br>ORB = 97.5IN00500AP00500PE001.58H04NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |
| **Satellite Receive Specifications (SPACEBEE-5, SPACEBEE-6, SPACEBEE-7)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.00 dBi<br>BEAMWIDTH = 60<br>RAD = 02G060B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |
| For Nongeostationary (Orbital Data) | INCLINATION ANGLE___98_____,<br>APOGEE IN KILOMETERS___575_____,<br>PERIGEE IN KILOMETERS___575_____,<br>ORBITAL PERIOD IN HOURS __1____AND FRACTIONS OF HOURS IN DECIMAL__0.603____,<br>THE NUMBER OF SATELLITES IN THE SYSTEM___3_____,<br><br>ORB = 98.0IN00575AP00575PE001.60H03NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |

Earth Station Transmitter Data #63

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|---|---|---|
| Transmit Frequency: 148.300-148.420 MHz | | |
| State (XSC) | XSC = CA | |
| City Name (XAL) | XAL = Lake Tahoe | |
| Latitude (DDMMSS) | Lat = 38 59 42 N | |
| Longitude (DDDMMSS) | Lon = 120 05 44 W | |
| Antenna Polarization (XAP) | XAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Antenna Azimuth (XAZ) | XAZ = V00 | THE EARTH STATION Transmitter ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, XAZ01 V00 |
| Antenna Dimensions (XAD) | ANTENNA GAIN__11.0_____,<br>BEAMWIDTH__50_____,<br>AZIMUTHAL RANGE__0 to 360_____,<br>THE SITE ELEVATION ABOVE MEAN SEA LEVEL IN METERS __1964_____<br>THE ANTENNA HEIGHT ABOVE TERRAIN IN METERS __3_____<br><br>XAD = 11G050B000-360A01964H003 | EXAMPLE ASSUMING NONGEOSTATIONARY,<br>XAD01 16G030B000-360A00357H006 |
| **Satellite Receive Specifications (SPACEBEE-1, SPACEBEE-2, SPACEBEE-3, SPACEBEE-4)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF<br>ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.14 dBi<br>BEAMWIDTH = 90<br>RAD = 02G090B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |

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| For Nongeostationary (Orbital Data) | INCLINATION ANGLE____97.5_____,<br>APOGEE IN KILOMETERS____500_____,<br>PERIGEE IN KILOMETERS_____500____,<br>ORBITAL PERIOD IN HOURS __1__AND FRACTIONS OF HOURS IN DECIMAL___0.577___,<br>THE NUMBER OF SATELLITES IN THE SYSTEM_____4_____,<br><br>ORB = 97.5IN00500AP00500PE001.58H04NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |
| **Satellite Receive Specifications (SPACEBEE-5, SPACEBEE-6, SPACEBEE-7)** | | |
| Polarization (RAP) | RAP = V | POLARIZATIONS INCLUDE :<br>H = HORIZONTAL,<br>V = VERTICAL,<br>S = HORIZONTAL AND VERTICAL,<br>L = LEFT HAND CIRCULAR,<br>R = RIGHT HAND CIRCULAR,<br>T = RIGHT AND LEFT HAND CIRCULAR,<br>J = LINEAR POLARIZATION |
| Azimuth (RAZ) | RAZ = V00 | STATION RECEIVER ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00 |
| Dimension (RAD) | ANTENNA GAIN = 2.00 dBi<br>BEAMWIDTH = 60<br>RAD = 02G060B | (NTIA format (RAD), EXAMPLE, RAD01 16G030B) |
| Type of satellite (State = SP)<br>City = G/No | Type = Nongeostationary | Choose either:<br>Geostationary or<br>Nongeostationary |
| For Geostationary | Longitude = | IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). |
| For Nongeostationary (Orbital Data) | INCLINATION ANGLE___98_____,<br>APOGEE IN KILOMETERS___575_____,<br>PERIGEE IN KILOMETERS___575_____,<br>ORBITAL PERIOD IN HOURS __1____AND FRACTIONS OF HOURS IN DECIMAL__0.603____,<br>THE NUMBER OF SATELLITES IN THE SYSTEM___3_____,<br><br>ORB = 98.0IN00575AP00575PE001.60H03NRT01 | IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04<br>*ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL<br>*ORB FOR IT ENDING IN R01, EXAMPLE, REM05<br>*ORB,72.9IN03209AP00655PE013.46H01NRR01 |