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:				
437.080				
Satellite Name:				
D3				
Data Field	Data Answer	Description/Comments		
Polarization (XAP)	XAP = R	POLARIZATIONS INCLUDE: H = HORIZONTAL, V = VERTICAL, S = HORIZONTAL AND VERTICAL, L = LEFT HAND CIRCULAR, R = RIGHT HAND CIRCULAR, T = RIGHT AND LEFT HAND CIRCULAR, J = LINEAR POLARIZATION		
Orientation (XAZ)	XAZ = EC	NB= NARROWBEAM		
Antenna Dimension (XAD)	ANTENNA GAIN0.0 BEAMWIDTH360 XAD = XAD02 0G360B	EC = EARTH COVERAGE (NTIA format (XAD), EXAMPLE, XAD01 16G030B)		
Type of satellite (State = SP) (City = geo or non)	Type = non	Choose either: Geostationary or 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 ANGLE52	IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN TO1, EXAMPLE, REMO4 *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 Data (Receiver)				
State (RSC)	RSC = FL			
City Name (RAL)	RAL = Gainesville			
Latitude (DDMMSS)	Lat = 293737N			
Longitude (DDDMMSS)	Lon = 0822139W			
Antenna Polarization (RAP)	RAP = R	POLARIZATIONS INCLUDE: H = HORIZONTAL, V = VERTICAL, S = HORIZONTAL AND VERTICAL, L = LEFT HAND CIRCULAR, R = RIGHT HAND CIRCULAR, T = RIGHT AND LEFT HAND CIRCULAR, J = LINEAR POLARIZATION		
Antenna Azimuth (RAZ)	RAZ = RAZ01 V00	THE EARTH STATION RECEIVER ANTENNA AZIMUTH (RAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00		
Antenna Dimensions (RAD)	ANTENNA GAIN16, BEAMWIDTH30°, AZIMUTHAL RANGE0-360, THE SITE ELEVATION ABOVE MEAN SEA LEVEL IN METERS340 THE ANTENNA HEIGHT ABOVE TERRAIN IN METERS10 RAD =	EXAMPLE ASSUMING NONGEOSTATIONARY, RAD01 16G030B000-360A00357H006		
500	RAD01 16G030B000-360A00025H008			

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

Transmit Frequency: 437.080 MHz				
State (XSC)	XSC = FL			
City Name (XAL)	XAL = Gainesville			
Latitude	Lat = 293737N			
(DDMMSS)				
Longitude	Lon = 0822139W			
(DDDMMSS)				
Antenna	XAP = R	POLARIZATIONS INCLUDE :		
Polarization (XAP)		H = HORIZONTAL, V = VERTICAL,		
		S = HORIZONTAL AND VERTICAL,		
		L = LEFT HAND CIRCULAR, R = RIGHT HAND CIRCULAR,		
		T = RIGHT AND LEFT HAND CIRCULAR,		
		J = LINEAR POLARIZATION		
Antenna Azimuth	XAZ = XAZ01 V00	THE EARTH STATION Transmitter ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF		
(XAZ)		ELEVATION, V00 TO V90, EXAMPLE, XAZ01 V00		
<u> </u>	ANTENNA CAMA	EXAMPLE ASSUMING NONGEOSTATIONARY,		
Antenna	ANTENNA GAIN16,	XAD01 16G030B000-360A00357H006		
Dimensions (XAD)	BEAMWIDTH30°,			
	AZIMUTHAL RANGE0-360,			
	THE SITE ELEVATION ABOVE MEAN SEA			
	LEVEL IN METERS25			
	THE ANTENNA HEIGHT ABOVE TERRAIN			
	IN METERS8			
	XAD =			
	XAD01 16G030B000-360A00025H008			
Satellite Receive Sp				
Satellite Receive Sp	ecincations			
Polarization (RAP)	RAP = R	POLARIZATIONS INCLUDE :		
i oranzación (n. n.)		H = HORIZONTAL,		
		V = VERTICAL, S = HORIZONTAL AND VERTICAL,		
		L = LEFT HAND CIRCULAR,		
		R = RIGHT HAND CIRCULAR,		
		T = RIGHT AND LEFT HAND CIRCULAR, J = LINEAR POLARIZATION		
Azimuth (RAZ)	RAZ = EC	NB = NARROWBEAM		
, ,		EC = EARTH COVERAGE		
Dimension (RAD)	ANTENNA GAIN 0.0	(NTIA format (RAD), EXAMPLE, RAD01 16G030B)		
' '	BEAMWIDTH 360			
	RAD = RAD02 00G360B			
Type of satellite	Type = non	Choose either:		
(State = SP)		Geostationary or Nongeostationary		
City = G/No		,		

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 ANGLE52, APOGEE IN KILOMETERS 424, PERIGEE IN KILOMETERS 410, ORBITAL PERIOD IN HOURS1 AND FRACTIONS OF HOURS IN DECIMAL 0.55, THE NUMBER OF SATELLITES IN THE SYSTEM1, ORB = 52.0IN00424AP00410PE001.55H01NR	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