

PDF Name: ORB4\_MOD

HERNDON VA HERNDON ZORBIT 02/17/2004  
 REMOTE VA REMOTE  
 39 0 56.0 77 25 42.0 72.30 6.10

Terrestrial Point To Point Frequencies:

3730.00V

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=====
EARTH STATION      OWNER      GND      EDISCT  GES      FSLOSS  DIST PR      EPWR
LAT      LON      CALL      ACL      TDISCT  GTS      ESANT  AZ  MARGIN LL
=====
1  ASHBURN      VA      P5192      73.8    28.2    -4.2    115.5    3.5 -113.7  23.0
39 0 43 77 28 8 E010110    16.8    263.6    13.0    FCC32    83.6 -50.3  0.0
Short Margin:    -40.26 RCN: 00112003  Ohloss(20% / .01 %):    0.00  0.00
( 1) Status: L
3625.00      4200.00      307KG7D

2  CLARKSBURG  MD      INTELS     140.8   111.9    4.5    132.9    26.4 -122.4  23.0
39 13 7 77 16 10 KA275     12.8    31.2    13.0    FCC32    211.4 -42.6  0.0
Short Margin:    -21.56 RCN: 00060236  Ohloss(20% / .01 %):    52.50  47.70
( 2) Status: L
3624.00      3630.00      800KGXD
3659.00      3666.00
3696.00      3704.00
3947.00      3953.00
4185.00      4200.00

3  CLARKSBURG  MD      INTELS     140.8   111.9    4.5    132.9    26.4 -122.4  23.0
39 13 7 77 16 10 KA275     12.8    31.2    13.0    FCC32    211.4 -42.6  0.0
Short Margin:    -21.56 RCN: 01060619  Ohloss(20% / .01 %):    52.50  47.70
( 3) Status: L
3625.00      4200.00      800KFXD

4  CLARKSBURG  MD      INTELS     140.8   111.9    4.5    132.9    26.4 -122.4  23.0
39 13 7 77 16 10 KA275     12.8    31.2    13.0    FCC32    211.4 -42.6  0.0
Short Margin:    -21.56 RCN: 03011320  Ohloss(20% / .01 %):    52.50  47.70
( 4) Status: L
3625.00      4200.00      800KFXD

5  STERLING     VA      LOCOMM     82.3    85.5   -10.3    115.7    3.6 -120.0  23.0
38 59 8 77 26 43 E990088     6.7    204.0    13.0    A40932    24.1 -42.0  0.0
Short Margin:    -31.96 RCN: 99021901  Ohloss(20% / .01 %):    75.30  75.00
( 5) Status: R
3700.00      4200.00      1M23G7D

6  STERLING     VA      UCALLC     93.0    32.4    -5.5    105.4    1.1 -104.9  23.0
39 0 45 77 24 58 E6617     2.7    107.1    13.0    S40501    287.2 -39.1  0.0
Short Margin:    -29.13 RCN:          Ohloss(20% / .01 %):    12.70  12.60
( 6) Status: L
3700.00      4200.00      36M0F8W

7  STERLING     VA      DISCOM     92.3    103.4  -10.0    114.2    3.1 -118.2  23.0
38 59 17 77 25 31 STERLING     6.1    175.3    13.0    FCC32    355.3 -37.8  0.0
Short Margin:    -27.78 RCN: 03112023  Ohloss(20% / .01 %):    72.70  72.40
( 7) Status: P
    
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 39 0 56.0 77 25 42.0 72.30 6.10

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=====
EARTH STATION      OWNER      GND      EDISCT  GES      FSLOSS  DIST PR      EPWR
LAT      LON      CALL      ACL      TDISCT  GTS      ESANT  AZ  MARGIN LL
=====
3700.00      4200.00      36M0F8W

8  LAUREL      MD      LYMBRO      73.2    4.8    14.5    139.0    52.8 -118.5  23.0
39 6 46 76 49 54 E010177      7.3    78.0    13.0    A41201 258.4 -37.5  0.0
Short Margin: -27.53 RCN: 01071942 Ohloss(20% / .01 %): 61.80 34.70
( 8) Status: L
3700.00      4200.00      51K2G7D  36M0G7D

9  STERLING    VA      ZCACOC      94.5    17.2   -8.1    105.3     1.1 -107.4  23.0
39 1 13 77 25 2 E980528      2.7    59.7    13.0    S40452 239.8 -36.6  0.0
Short Margin: -26.61 RCN: 98061509 Ohloss(20% / .01 %): 0.00 0.00
( 9) Status: L
3700.00      4200.00      36M0F8W

10 STERLING    VA      LOCOMM      80.8    83.3  -10.3    115.8     3.7 -120.1  23.0
38 59 7 77 26 45 E030336      6.1    204.2   13.0    A40931 24.3 -35.9  0.0
Short Margin: -25.86 RCN: 03102329 Ohloss(20% / .01 %): 76.90 76.60
( 10) Status: A
3625.00      4200.00      64K0G7W  36M0G7W

11 STERLING    VA      LOCOMM      80.8    83.3  -10.3    115.8     3.7 -120.1  23.0
38 59 7 77 26 45 STERLING      6.1    204.2   13.0    A40931 24.3 -35.9  0.0
Short Margin: -25.86 RCN: 03120315 Ohloss(20% / .01 %): 76.90 76.60
( 11) Status: P
3625.00      4200.00      64K0G7W  36M0G7W

12 LEESBURG    VA      IRICON      81.2    46.4   -6.1    121.8     7.3 -121.9  23.0
39 4 25 77 28 8 E010193      2.7    331.4   13.0    A4045B 151.4 -35.1  0.0
Short Margin: -25.07 RCN: Ohloss(20% / .01 %): 14.30 13.10
( 12) Status: L
3700.00      4200.00      43K9G7W

13 LAUREL      MD      LYMBRO      73.2    4.8    11.3    139.0     52.8 -121.6  23.0
39 6 46 76 49 54 E010177      6.1    78.0    13.0    A40931 258.4 -34.4  0.0
Short Margin: -24.38 RCN: 01062701 Ohloss(20% / .01 %): 61.70 34.40
( 13) Status: L
3700.00      4200.00      51K2G7D  36M0G7D

14 LEESBURG    VA      IRICON      81.2    36.3   -6.1    121.8     7.3 -121.9  23.0
39 4 25 77 28 8 E010193      2.7    331.4   13.0    A4045B 151.4 -34.1  0.0
Short Margin: -24.07 RCN: Ohloss(20% / .01 %): 14.30 13.10
( 14) Status: L
3700.00      4200.00      1M85G7W
    
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 39 0 56.0 77 25 42.0 72.30 6.10

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=====
EARTH STATION      OWNER      GND      EDISCT  GES      FSLOSS  DIST PR      EPWR
LAT      LON      CALL      ACL      TDISCT  GTS      ESANT  AZ  MARGIN LL
=====
15 SILVER SPRIN MD  ZDYNCO    100.6    22.8    -2.0    135.3   34.6 -131.3  23.0
38 59 29  77 1 47 E000027   47.3    94.3    13.0    FCC32   274.6 -33.7  0.0
Short Margin:  -23.74 RCN: 99122003  Ohloss(20% / .01 %):  59.40  52.10
( 15) Status: L
3700.00      4200.00      21K0G7D

16 CLARKSBURG MD  INTELS    139.2    111.9    4.5    132.9   26.3 -122.4  23.0
39 13  3  77 16 13 E000296   5.8    31.2    13.0    V40903  211.4 -33.6  0.0
Short Margin:  -23.61 RCN: 01060620  Ohloss(20% / .01 %):  79.90  69.10
( 16) Status: L
3625.00      4200.00      800KFXD

17 CLARKSBURG MD  SHORT     139.2    111.9    4.5    132.9   26.3 -122.4  23.0
39 13  3  77 16 13 TEMP05   5.8    31.2    13.0    V40903  211.4 -33.6  0.0
Short Margin:  -23.61 RCN: 03090310  Ohloss(20% / .01 %):  79.90  69.10
( 17) Status: T
3625.00      4200.00      800KFXD

18 CLARKSBURG MD  SHORT     140.8    111.9    4.5    132.9   26.4 -122.4  23.0
39 13  7  77 16 10 TEMP05   12.8   31.2    13.0    FCC32   211.4 -33.6  0.0
Short Margin:  -23.56 RCN: 03082935  Ohloss(20% / .01 %):  52.50  47.70
( 18) Status: T
3625.00      4200.00      800KFXD

19 ROCKVILLE MD  MONTCC    131.7    13.1     4.1    132.6   25.3 -122.5  23.0
39  6 17  77  9 31 ROCKVILL  2.7    66.8    13.0    FCC32   247.1 -33.5  0.0
Short Margin:  -23.51 RCN: 00110109  Ohloss(20% / .01 %):  77.30  65.30
( 19) Status: P
3700.00      4200.00      36M0F8W

20 STERLING VA  LOCOMM    80.8     83.3   -13.0    115.8    3.7 -122.8  23.0
38 59  7  77 26 45 E990088   5.8   204.2    13.0    R40921  24.3 -33.2  0.0
Short Margin:  -23.16 RCN: 03102330  Ohloss(20% / .01 %):  77.10  76.80
( 20) Status: A
3700.00      4200.00      1M23G7D

21 CHANTILLY VA  ZDYNCO    86.0    115.5   -10.0    128.7   16.2 -132.7  23.0
38 52 22  77 28  0 E020027   1.5   191.8    13.0    FCC32   11.8 -32.3  0.0
Short Margin:  -22.31 RCN: 01110903  Ohloss(20% / .01 %):  70.10  64.90
( 21) Status: L
3700.00      4200.00      21K0G7D

22 CLARKSBURG MD  INTELS    140.8    35.9    -7.2    132.9   26.3 -134.1  23.0
39 13  2  77 16 10 KA261     8.8    31.4    13.0    V41521  211.5 -29.9  0.0
Short Margin:  -9.92 RCN: 03031323  Ohloss(20% / .01 %):  42.60  37.80
( 22) Status: L
    
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 39 0 56.0 77 25 42.0 72.30 6.10

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=====
EARTH STATION      OWNER      GND      EDISCT  GES      FSLOSS  DIST PR      EPWR
LAT      LON      CALL      ACL      TDISCT  GTS      ESANT  AZ  MARGIN LL
=====
3625.00      3700.00      100KG7W  72M0G7W

23 CLARKSBURG MD  INTELS  142.7  36.1  -7.2  132.9  26.2 -134.1  23.0
39 13 1  77 16 11 KA262      8.8  31.4  13.0  V41521 211.5 -29.9  0.0
Short Margin:  -9.88 RCN: 03031326  Ohloss(20% / .01 %):  40.90  36.10
( 23) Status: L
3625.00      3700.00      100KG7W  72M0G7W

24 GREENTREE MD  S10467  97.5  18.6  0.3  132.4  24.9 -126.1  23.0
39 0 55  77 8 28 GREENTRE  3.1  89.9  13.0  FCC32  270.1 -29.9  0.0
Short Margin:  -19.86 RCN: 01081523  Ohloss(20% / .01 %):  62.90  56.30
( 24) Status: P
3700.00      4200.00      36M0F3F

25 SILVER SPRIN MD  ESATEL  73.5  17.3  1.1  134.7  32.2 -127.6  23.0
39 0 5  77 3 26 E030182  2.7  92.6  13.0  FCC32  272.9 -29.4  0.0
Short Margin:  -19.42 RCN: 03031405  Ohloss(20% / .01 %):  65.20  50.00
( 25) Status: L
3700.00      4200.00      43K9G7W  5M76G7W

26 CHANTILLY VA  ZDYNCO  86.0  115.5 -10.0  128.7  16.2 -132.7  23.0
38 52 22  77 28 0 E020027  2.4  191.8  13.0  FCC32  11.8 -29.3  0.0
Short Margin:  -19.31 RCN: 02091813  Ohloss(20% / .01 %):  51.60  48.70
( 26) Status: P
3700.00      4200.00      1M54G7D

27 CHANTILLY VA  ZDYNCO  86.0  115.5 -10.0  128.7  16.2 -132.7  23.0
38 52 22  77 28 0 E020027  2.4  191.8  13.0  FCC32  11.8 -29.3  0.0
Short Margin:  -19.31 RCN: 02091814  Ohloss(20% / .01 %):  51.60  48.70
( 27) Status: P
3700.00      4200.00      1M54G7D

28 RESTON VA  P9026  113.7  138.1 -10.0  123.1  8.5 -127.1  23.0
38 57 0  77 22 38 E950406  11.0  148.7  13.0  FCC32  328.8 -28.9  0.0
Short Margin:  -18.91 RCN: 95060955  Ohloss(20% / .01 %):  67.10  66.30
( 28) Status: Z
3625.00      4200.00      203KG7D  788KG7D

29 CLARKSBURG MD  INTELS  146.6  35.6  -8.2  132.9  26.3 -135.1  23.0
39 13 4  77 16 13 KA263      5.2  31.2  13.0  V40901 211.3 -28.9  0.0
Short Margin:  -8.86 RCN: 02102117  Ohloss(20% / .01 %):  70.00  58.80
( 29) Status: L
3700.00      4200.00      1M43G7W
    
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 39 0 56.0 77 25 42.0 72.30 6.10

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3730.00V

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=====
EARTH STATION      OWNER      GND      EDISCT  GES      FSLOSS  DIST PR      EPWR
LAT      LON      CALL      ACL      TDISCT  GTS      ESANT  AZ  MARGIN LL
=====
30 CLARKSBURG MD INTELS 146.6 35.6 -8.2 132.9 26.3 -135.1 23.0
39 13 4 77 16 13 KA263 5.2 31.2 13.0 V40901 211.3 -28.9 0.0
Short Margin: -8.86 RCN: 03031327 Ohloss(20% / .01 %): 70.00 58.80
( 30) Status: L
3700.00 4200.00 100KG7W 72M0G7W

31 CLARKSBURG MD INTELS 146.6 35.6 -8.2 132.9 26.3 -135.1 23.0
39 13 4 77 16 13 KA263 5.2 31.2 13.0 V40901 211.3 -28.9 0.0
Short Margin: -8.86 RCN: 03031328 Ohloss(20% / .01 %): 70.00 58.80
( 31) Status: L
3625.00 3700.00 100KG7W 72M0G7W

32 CLARKSBURG MD INTELS 146.6 36.0 -8.5 132.9 26.3 -135.4 23.0
39 13 4 77 16 13 KA263 5.2 31.2 13.0 V40901 211.3 -28.6 0.0
Short Margin: -8.61 RCN: 89100521 Ohloss(20% / .01 %): 70.00 58.80
( 32) Status: L
3700.00 4200.00 36M0F8W

33 CLARKSBURG MD INTELS 146.6 36.0 -8.5 132.9 26.3 -135.4 23.0
39 13 5 77 16 13 KA264 5.2 31.2 13.0 V40901 211.3 -28.6 0.0
Short Margin: -8.60 RCN: 89101105 Ohloss(20% / .01 %): 71.90 60.60
( 33) Status: L
3700.00 4200.00 36M0F8W

34 CLARKSBURG MD INTELS 146.6 36.0 -8.5 132.9 26.3 -135.4 23.0
39 13 5 77 16 13 KA264 5.2 31.2 13.0 V40901 211.3 -28.6 0.0
Short Margin: -8.60 RCN: 03031329 Ohloss(20% / .01 %): 71.90 60.60
( 34) Status: L
3625.00 3700.00 100KG7W 72M0G7W

35 CLARKSBURG MD INTELS 146.6 36.0 -8.5 132.9 26.3 -135.4 23.0
39 13 5 77 16 13 KA264 5.2 31.2 13.0 V40901 211.3 -28.6 0.0
Short Margin: -8.60 RCN: 03031331 Ohloss(20% / .01 %): 71.90 60.60
( 35) Status: L
3700.00 4200.00 100KG7W 72M0G7W

36 CLKS/D1/LMA MD INTELS 140.8 36.0 -8.5 132.9 26.3 -135.4 23.0
39 13 4 77 16 10 E980485 5.2 31.3 13.0 V40901 211.5 -28.6 0.0
Short Margin: -8.60 RCN: 89100523 Ohloss(20% / .01 %): 47.70 42.90
( 36) Status: L
3700.00 4200.00 36M0F8W

37 CLKSECCA1 MD INTELS 146.6 36.0 -8.5 132.9 26.3 -135.4 23.0
39 13 6 77 16 13 CLKSECCA 5.2 31.1 13.0 V40901 211.3 -28.6 0.0
Short Margin: -8.60 RCN: 89090622 Ohloss(20% / .01 %): 72.40 61.20
( 37) Status: P
    
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 39 0 56.0 77 25 42.0 72.30 6.10

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```

=====
EARTH STATION      OWNER      GND      EDISCT  GES      FSLOSS  DIST PR      EPWR
LAT      LON      CALL      ACL      TDISCT  GTS      ESANT  AZ  MARGIN LL
=====
3700.00      4200.00      36M0F8W

38 CLKSC1LMA2 MD INTELS 140.8 36.0 -8.5 132.9 26.3 -135.4 23.0
39 13 5 77 16 10 KA260 5.2 31.3 13.0 V40901 211.4 -28.6 0.0
Short Margin: -8.59 RCN: 89090621 Ohloss(20% / .01 %): 55.90 51.10
( 38) Status: L
3700.00      4200.00      36M0F8W

39 CLARKSBURG1 MD INTELS 140.8 36.0 -8.5 132.9 26.3 -135.4 23.0
39 13 5 77 16 10 CLARKSBU 5.2 31.3 13.0 V40901 211.4 -28.6 0.0
Short Margin: -8.59 RCN: 88071836 Ohloss(20% / .01 %): 55.90 51.10
( 39) Status: P
3720.00      4200.00      36M0F8W

40 CLKSB1LMA1 MD INTELS 140.8 36.0 -8.5 132.9 26.4 -135.4 23.0
39 13 6 77 16 10 KA259 5.2 31.3 13.0 V40901 211.4 -28.6 0.0
Short Margin: -8.58 RCN: 89090620 Ohloss(20% / .01 %): 56.50 51.70
( 40) Status: L
3700.00      4200.00      36M0F8W

41 SILVER SPRIN MD ESATEL 73.5 17.3 1.1 134.7 32.2 -127.6 23.0
39 0 5 77 3 26 E980069 2.7 92.6 13.0 FCC32 272.9 -28.4 0.0
Short Margin: -18.42 RCN: 03080732 Ohloss(20% / .01 %): 65.20 50.00
( 41) Status: L
3700.00      4200.00      43K2G7W 54M0G7W

42 SILVER SPRIN MD ESATEL 73.5 17.3 1.1 134.7 32.2 -127.6 23.0
39 0 5 77 3 26 SILVER S 2.7 92.6 13.0 FCC32 272.9 -28.4 0.0
Short Margin: -18.42 RCN: 03082611 Ohloss(20% / .01 %): 65.20 50.00
( 42) Status: P
3700.00      4200.00      43K2G7W 54M0G7W

43 GAITHERSBURG MD COMPOT 152.4 20.6 -0.8 133.0 26.5 -127.7 23.0
39 9 22 77 10 50 GAITHERS 3.1 53.8 13.0 S40501 234.0 -28.3 0.0
Short Margin: -18.27 RCN: 03100359 Ohloss(20% / .01 %): 62.90 55.10
( 43) Status: P
3700.00      4200.00      36M0F8W

44 CLARKSBURG MD INTELS 142.7 61.5 -10.0 132.9 26.2 -136.9 23.0
39 13 1 77 16 11 KA262 8.8 31.4 13.0 V41521 211.5 -27.1 0.0
Short Margin: -7.11 RCN: 89081512 Ohloss(20% / .01 %): 40.90 36.10
( 44) Status: L
3700.00      4200.00      36M0F8W
    
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 39 0 56.0 77 25 42.0 72.30 6.10

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3730.00V

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=====
EARTH STATION      OWNER      GND      EDISCT  GES      FSLOSS  DIST PR      EPWR
LAT      LON      CALL      ACL      TDISCT  GTS      ESANT  AZ  MARGIN LL
=====
45 CLARKSBURG MD INTELS 142.7 61.5 -10.0 132.9 26.2 -136.9 23.0
39 13 1 77 16 11 KA262 8.8 31.4 13.0 V41521 211.5 -27.1 0.0
Short Margin: -7.11 RCN: 89100520 Ohloss(20% / .01 %): 40.90 36.10
( 45) Status: L
3700.00 4200.00 36M0F8W

46 CLARKSBURG MD INTELS 142.7 61.2 -10.0 132.9 26.2 -136.9 23.0
39 13 1 77 16 11 KA262 8.8 31.4 13.0 V41521 211.5 -27.1 0.0
Short Margin: -7.11 RCN: 02102120 Ohloss(20% / .01 %): 40.90 36.10
( 46) Status: L
3700.00 4200.00 81K9G7W 1M36G7W

47 CLARKSBURG MD INTELS 142.7 61.2 -10.0 132.9 26.2 -136.9 23.0
39 13 1 77 16 11 KA262 8.8 31.4 13.0 V41521 211.5 -27.1 0.0
Short Margin: -7.11 RCN: 03031325 Ohloss(20% / .01 %): 40.90 36.10
( 47) Status: L
3700.00 4200.00 100KG7W 72M0G7W

48 CLARKSBURG MD INTELS 140.8 61.5 -10.0 132.9 26.3 -136.9 23.0
39 13 2 77 16 10 KA261 8.8 31.4 13.0 V41521 211.5 -27.1 0.0
Short Margin: -7.10 RCN: 89081420 Ohloss(20% / .01 %): 42.60 37.80
( 48) Status: L
3700.00 4200.00 36M0F8W

49 CLARKSBURG MD INTELS 140.8 61.5 -10.0 132.9 26.3 -136.9 23.0
39 13 2 77 16 10 KA261 8.8 31.4 13.0 V41521 211.5 -27.1 0.0
Short Margin: -7.10 RCN: 89100219 Ohloss(20% / .01 %): 42.60 37.80
( 49) Status: L
3700.00 4200.00 36M0F8W

50 CLARKSBURG MD INTELS 140.8 61.1 -10.0 132.9 26.3 -136.9 23.0
39 13 2 77 16 10 KA261 8.8 31.4 13.0 V41521 211.5 -27.1 0.0
Short Margin: -7.10 RCN: 02061727 Ohloss(20% / .01 %): 42.60 37.80
( 50) Status: L
3700.00 4200.00 51K2G7W

51 CLARKSBURG MD INTELS 140.8 61.1 -10.0 132.9 26.3 -136.9 23.0
39 13 2 77 16 10 KA261 8.8 31.4 13.0 V41521 211.5 -27.1 0.0
Short Margin: -7.10 RCN: 02101714 Ohloss(20% / .01 %): 42.60 37.80
( 51) Status: L
3700.00 4200.00 76K8G7W

52 CLARKSBURG MD INTELS 140.8 61.1 -10.0 132.9 26.3 -136.9 23.0
39 13 2 77 16 10 KA261 8.8 31.4 13.0 V41521 211.5 -27.1 0.0
Short Margin: -7.10 RCN: 03031324 Ohloss(20% / .01 %): 42.60 37.80
( 52) Status: L
    
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HERNDON VA HERNDON ZORBIT 02/17/2004  
 REMOTE VA REMOTE  
 39 0 56.0 77 25 42.0 72.30 6.10

Terrestrial Point To Point Frequencies:

3730.00V

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=====
EARTH STATION      OWNER      GND      EDISCT  GES      FSLOSS  DIST PR      EPWR
LAT      LON      CALL      ACL      TDISCT  GTS      ESANT  AZ  MARGIN LL
=====
3700.00      4200.00      100KG7W  72M0G7W

53  MILLERSVILLE MD  MILDIG      36.9  11.0   6.0  141.4   70.2 -129.4  23.0
39  6  4  76 37 27 E020337      2.7  81.9  13.0  FCC32  262.5  -26.6  0.0
Short Margin: -16.56 RCN: 02101712  Ohloss(20% / .01 %):  56.20  24.70
( 53) Status: L
3700.00      4200.00      36M0F8W

54  WASHINGTON DC  INTELS      91.4  147.1 -10.0  134.8   32.6 -138.8  23.0
38 56 31 77 3 49 E990320      1.8  104.3  13.0  FCC32  284.6  -26.2  0.0
Short Margin: -16.22 RCN: 99043002  Ohloss(20% / .01 %):  70.80  49.80
( 54) Status: L
3700.00      4200.00      1M23G7D

55  BALTIMORE MD  FOXBRO      64.0  11.4   5.6  142.1   76.2 -130.6  23.0
39 20 1 76 38 49 E000453      7.3  62.1  13.0  FCC32  242.6  -25.4  0.0
Short Margin: -15.43 RCN: 00040730  Ohloss(20% / .01 %):  72.20  40.50
( 55) Status: L
3700.00      4200.00      36M0F8F

56  SILVER SPRIN MD  P3210      106.1  12.9  -0.1  136.7   40.5 -130.8  23.0
39 3 23 76 57 48 E010142      2.7  83.4  13.0  A40451 263.7  -25.2  0.0
Short Margin: -15.24 RCN: 01050932  Ohloss(20% / .01 %):  68.40  43.80
( 56) Status: A
3700.00      4200.00      36M0F8W

57  TYSONS CORNE VA  P3210      97.5  41.8  -6.1  130.7   20.3 -130.8  23.0
38 55 55 77 13 12 E010097      18.7  117.1  13.0  A40451 297.3  -25.2  0.0
Short Margin: -15.24 RCN: 01030527  Ohloss(20% / .01 %):  64.90  60.90
( 57) Status: L
3700.00      4200.00      1M00G7D  2M00G7D

58  HERNDON VA  ZSPRGV      114.0  138.0 -15.3  121.7   7.2 -131.0  23.0
38 57 15 77 24 3 E970074      8.5  160.8  13.0  A40931 340.9  -25.0  0.0
Short Margin: -15.04 RCN: 97031208  Ohloss(20% / .01 %):  66.20  65.50
( 58) Status: L
3700.00      4200.00      1M23G7D

59  STERLING VA  HI      0.0  104.4 -10.0  115.4   3.5 -119.4  23.0
38 59 2 77 25 40 E3779      4.6  179.5  13.0  FCC32  359.6  -24.6  0.0
Short Margin: -14.60 RCN:      Ohloss(20% / .01 %):  137.20  136.90
( 59) Status: L
3700.00      4200.00      36M0F8W
    
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PDF Name: ORB4\_MOD

HERNDON VA HERNDON ZORBIT 02/17/2004  
 REMOTE VA REMOTE  
 39 0 56.0 77 25 42.0 72.30 6.10

Terrestrial Point To Point Frequencies:

3730.00V

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=====
EARTH STATION      OWNER      GND      EDISCT  GES      FSLOSS  DIST PR      EPWR
LAT      LON      CALL      ACL      TDISCT  GTS      ESANT  AZ  MARGIN LL
=====
60 ROCKVILLE MD COMPOT 131.1 10.0 7.0 132.6 25.2 -119.5 23.0
39 5 2 77 9 0 E7444 13.1 72.4 13.0 FCC32 252.6 -24.5 0.0
Short Margin: -14.47 RCN: Ohloss(20% / .01 %): 29.30 24.70
( 60) Status: L
3700.00 4200.00 36M0F8W

61 WASHINGTON DC FOXBRO 106.7 27.4 -4.0 134.2 30.6 -132.2 23.0
38 57 24 77 4 58 9E000468 10.4 102.1 13.0 FCC32 282.4 -23.8 0.0
Short Margin: -13.81 RCN: 00040641 Ohloss(20% / .01 %): 55.60 50.00
( 61) Status: L
3700.00 4200.00 36M0F8F

62 WOODBINE MD P3210 182.9 32.3 -5.7 138.5 50.1 -138.2 23.0
39 22 36 77 4 50 E990136 7.3 36.7 13.0 FCC32 216.9 -23.8 0.0
Short Margin: -13.76 RCN: 98113001 Ohloss(20% / .01 %): 69.20 43.80
( 62) Status: L
3700.00 4200.00 36M0F8W

63 TYSONS CORNE VA P3210 97.5 40.1 -7.7 130.7 20.3 -132.4 23.0
38 55 55 77 13 12 E010097 9.9 117.1 13.0 Q40381 297.3 -23.6 0.0
Short Margin: -13.61 RCN: 01032103 Ohloss(20% / .01 %): 69.10 63.70
( 63) Status: L
3700.00 4200.00 1M00G7D 2M00G7D

64 MCLEAN VA ZDIRTO 150.9 70.1 -10.0 130.5 19.9 -134.5 23.0
38 55 28 77 13 52 MCLEAN 44.2 120.5 13.0 FCC32 300.7 -23.5 0.0
Short Margin: -13.53 RCN: 00100513 Ohloss(20% / .01 %): 29.30 25.70
( 64) Status: P
3700.00 4200.00 3M43G7D

65 SILVER SPRIN MD ESATEL 73.5 22.7 -1.9 134.7 32.2 -130.5 23.0
39 0 5 77 3 26 E960411 4.3 92.6 13.0 FCC32 272.9 -23.5 0.0
Short Margin: -13.46 RCN: 99072601 Ohloss(20% / .01 %): 64.70 50.20
( 65) Status: L
3700.00 4200.00 410KG7D 1M24G7D

66 WASHINGTON DC SPROFV 18.3 36.7 -7.1 135.5 35.4 -136.6 23.0
38 54 19 77 2 42 E010086 26.2 110.1 13.0 FCC32 290.3 -23.4 0.0
Short Margin: -13.39 RCN: 01070335 Ohloss(20% / .01 %): 69.50 57.50
( 66) Status: L
3700.00 4200.00 14M0G7F

67 GODDARD MD P3210 49.4 18.3 -0.1 138.7 51.1 -132.8 23.0
38 59 57 76 50 19 E990427 6.4 91.8 13.0 S41002 272.2 -23.2 0.0
Short Margin: -13.20 RCN: 99071901 Ohloss(20% / .01 %): 62.60 35.80
( 67) Status: L
    
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PDF Name: ORB4\_MOD

HERNDON VA HERNDON ZORBIT 02/17/2004  
 REMOTE VA REMOTE  
 39 0 56.0 77 25 42.0 72.30 6.10

Terrestrial Point To Point Frequencies:

3730.00V

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=====
EARTH STATION      OWNER      GND      EDISCT  GES      FSLOSS  DIST PR      EPWR
LAT      LON      CALL      ACL      TDISCT  GTS      ESANT  AZ  MARGIN LL
=====
3700.00      4200.00      36M0G7W

68 SILVER SPRIN MD  ESATEL      73.5  22.7  -2.3  134.7  32.2 -130.9  23.0
39 0 5 77 3 26 E960411 6.1 92.6 13.0 S41001 272.9 -23.1 0.0
Short Margin: -13.08 RCN: 00050201 Ohloss(20% / .01 %): 63.10 46.80
( 68) Status: L
3700.00      4200.00      445KG7D 12M0G7D

69 CLARKSBURG MD  INTELS      159.0  69.3 -10.2  132.8  26.0 -137.0  23.0
39 13 1 77 16 31 E000355 5.6 30.5 13.0 A40934 210.7 -23.0 0.0
Short Margin: -8.96 RCN: 00060518 Ohloss(20% / .01 %): 39.00 34.20
( 69) Status: L
3700.00      4200.00      1M54G7X

70 WASHINGTON DC  ZWJLA      97.5  18.6  4.1  132.4  24.9 -122.3  23.0
39 0 55 77 8 28 E890837 6.1 89.9 13.0 A40731 270.1 -22.7 0.0
Short Margin: -12.65 RCN: Ohloss(20% / .01 %): 62.50 56.20
( 70) Status: L
3700.00      4200.00      36M0F8W

71 SILVER SPRIN MD  WESORD      99.4  26.7  -4.4  135.2  34.4 -133.7  23.0
38 59 40 77 1 55 SILVER S 64.9 93.7 13.0 A4045T 274.0 -22.3 0.0
Short Margin: -12.32 RCN: 03011010 Ohloss(20% / .01 %): 43.10 36.60
( 71) Status: P
3700.00      4200.00      7M37G7W

72 CLKS/L1 MD  INTELS      147.5  61.5 -14.9  132.9  26.2 -141.8  23.0
39 13 1 77 16 13 CLKS/L1 5.2 31.3 13.0 V40901 211.4 -22.2 0.0
Short Margin: -2.22 RCN: 92100230 Ohloss(20% / .01 %): 43.60 38.80
( 72) Status: P
3700.00      4200.00      36M0F8W

73 CLARKSBURG MD  INTELS      146.6  61.5 -14.9  132.9  26.3 -141.8  23.0
39 13 5 77 16 13 KA264 5.2 31.2 13.0 V40901 211.3 -22.2 0.0
Short Margin: -2.19 RCN: 89100914 Ohloss(20% / .01 %): 71.90 60.60
( 73) Status: L
3700.00      4200.00      36M0F8W

74 CLARKSBURG MD  INTELS      146.6  61.5 -14.9  132.9  26.3 -141.8  23.0
39 13 5 77 16 13 KA264 5.2 31.2 13.0 V40901 211.3 -22.2 0.0
Short Margin: -2.19 RCN: 03031330 Ohloss(20% / .01 %): 71.90 60.60
( 74) Status: L
3700.00      4200.00      100KG7W 72M0G7W
    
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PDF Name: ORB4\_MOD

HERNDON VA HERNDON ZORBIT 02/17/2004  
 REMOTE VA REMOTE  
 39 0 56.0 77 25 42.0 72.30 6.10

Terrestrial Point To Point Frequencies:

3730.00V

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=====
EARTH STATION      OWNER      GND      EDISCT  GES      FSLOSS  DIST PR      EPWR
LAT      LON      CALL      ACL      TDISCT  GTS      ESANT  AZ  MARGIN LL
=====
75  CLKS/D1/LMA MD  INTELS    140.8    61.5  -14.9  132.9  26.3 -141.8  23.0
39 13  4  77 16 10 E980485    5.2    31.3   13.0  V40901 211.5 -22.2  0.0
Short Margin:   -2.19 RCN: 89100522  Ohloss(20% / .01 %):  47.70  42.90
( 75) Status: L
3700.00      4200.00      36M0F8W

76  CLKSC2LMA2 MD  INTELS    140.8    61.5  -14.9  132.9  26.3 -141.8  23.0
39 13  5  77 16 10 KA260    5.2    31.3   13.0  V40901 211.4 -22.2  0.0
Short Margin:   -2.18 RCN: 89090619  Ohloss(20% / .01 %):  55.90  51.10
( 76) Status: L
3700.00      4200.00      36M0F8W

77  CLKSB2 LMA1 MD  INTELS    140.8    61.5  -14.9  132.9  26.4 -141.8  23.0
39 13  6  77 16 10 KA259    5.2    31.3   13.0  V40901 211.4 -22.2  0.0
Short Margin:   -2.17 RCN: 89090617  Ohloss(20% / .01 %):  56.50  51.70
( 77) Status: L
3700.00      4200.00      36M0F8W

78  CLARKSBURG MD  P2540     159.7    36.1   -7.1  132.8  26.0 -133.9  23.0
39 12 58  77 16 27 E960186    5.5    30.8   13.0  R40924 210.9 -22.1  0.0
Short Margin:  -12.08 RCN: 95121104  Ohloss(20% / .01 %):  35.40  30.60
( 78) Status: L
3700.00      4200.00      164KG7W

79  BREN MAR VA  PBS      59.4     67.2   -9.9  135.0  33.5 -138.9  23.0
38 47 39  77  9 53 WD35    7.6   137.0   13.0  R40922 317.2 -22.1  0.0
Short Margin:   -5.08 RCN: 86012914  Ohloss(20% / .01 %):  71.20  54.50
( 79) Status: L
3700.00      4200.00      36M0F8W

80  BREN MAR VA  PBS      52.4     60.9  -10.0  135.0  33.5 -139.0  23.0
38 47 39  77  9 53 WD35    4.5   137.0   13.0  FCC32  317.2 -22.0  0.0
Short Margin:   -4.98 RCN: 91061108  Ohloss(20% / .01 %):  79.30  60.40
( 80) Status: L
3700.00      4200.00      200KF9E

81  WEST OX VA  COXNVA   137.2    90.9  -10.3  129.8  18.4 -134.1  23.0
38 51 18  77 22 27 E020069    6.2   165.2   13.0  A40931 345.3 -21.9  0.0
Short Margin:  -11.88 RCN: 01052227  Ohloss(20% / .01 %):  63.60  60.40
( 81) Status: L
3700.00      4200.00      36M0F8F

82  TYSONS VA  S03575   91.4     41.6   -9.5  130.7  20.3 -134.2  23.0
38 55 57  77 13  8 TYSONS    4.3   116.8   13.0  A4073A 297.0 -21.8  0.0
Short Margin:  -11.83 RCN: 00121923  Ohloss(20% / .01 %):  73.20  66.60
( 82) Status: P
    
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PDF Name: ORB4\_MOD

HERNDON VA HERNDON ZORBIT 02/17/2004  
 REMOTE VA REMOTE  
 39 0 56.0 77 25 42.0 72.30 6.10

Terrestrial Point To Point Frequencies:

3730.00V

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=====
EARTH STATION      OWNER      GND      EDISCT  GES      FSLOSS  DIST PR      EPWR
LAT      LON      CALL      ACL      TDISCT  GTS      ESANT  AZ  MARGIN LL
=====
3700.00      4200.00      882KF9W

83  GREENTREE RD MD      S00433      97.5      18.6      4.1      132.4      24.9 -122.3  23.0
39 0 55 77 8 28 WASHINGT      4.6      89.9      13.0      A40731 270.1 -21.7  0.0
Short Margin: -11.65 RCN: 89060115 Ohloss(20% / .01 %): 62.70 56.30
( 83) Status: P
3700.00      4200.00      36M0F8W

84  WASHINGTON DC      BLKENT      30.5      31.6      -4.1      136.4      39.4 -134.5  23.0
38 54 55 76 59 31 E880629      5.5      106.2      13.0      S41004 286.5 -21.5  0.0
Short Margin: -11.47 RCN: 01092423 Ohloss(20% / .01 %): 70.80 47.30
( 84) Status: L
3700.00      4200.00      36M0F3F

85  WASHINGTON DC      SPROFV      18.3      36.7      -7.1      135.5      35.4 -136.6  23.0
38 54 19 77 2 42 E010086      26.2      110.1      13.0      FCC32 290.3 -21.4  0.0
Short Margin: -11.39 RCN: 01111330 Ohloss(20% / .01 %): 69.50 57.50
( 85) Status: L
3700.00      4200.00      14M0G7F

86  CLARKSBURG MD      GENDIG      163.1      88.1 -10.0      132.8      25.9 -136.8  23.0
39 12 55 77 16 25 CLARKSBU      2.1      31.0      13.0      FCC32 211.1 -21.2  0.0
Short Margin: -11.23 RCN: 99021603 Ohloss(20% / .01 %): 28.10 23.40
( 86) Status: P
3700.00      4200.00      3M00G7D

87  CLARKSBURG MD      INTELS      163.1      88.1 -10.0      132.8      25.9 -136.8  23.0
39 12 55 77 16 25 E980526      2.1      31.0      13.0      FCC32 211.1 -21.2  0.0
Short Margin: -11.23 RCN: 98111601 Ohloss(20% / .01 %): 28.00 23.30
( 87) Status: L
3700.00      4200.00      3M00G7D

88  CLARKSBURG MD      INTELS      163.1      66.1 -10.0      132.8      25.9 -136.8  23.0
39 12 55 77 16 25 E990131      2.1      31.0      13.0      FCC32 211.1 -21.2  0.0
Short Margin: -11.23 RCN: 99021704 Ohloss(20% / .01 %): 28.00 23.30
( 88) Status: L
3700.00      4200.00      1M64G7D

89  WASHINGTON DC      COMCBL      49.7      31.7      -5.1      136.3      38.7 -135.3  23.0
38 56 10 76 59 37 E000253      10.7      103.0      13.0      S40451 283.3 -20.7  0.0
Short Margin: -10.66 RCN: 00032903 Ohloss(20% / .01 %): 70.90 51.20
( 89) Status: L
3700.00      4200.00      36M0F8F
    
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PDF Name: ORB4\_MOD

HERNDON VA HERNDON ZORBIT 02/17/2004  
 REMOTE VA REMOTE  
 39 0 56.0 77 25 42.0 72.30 6.10

Terrestrial Point To Point Frequencies:

3730.00V

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=====
EARTH STATION      OWNER      GND      EDISCT  GES      FSLOSS  DIST PR      EPWR
LAT      LON      CALL      ACL      TDISCT  GTS      ESANT  AZ  MARGIN LL
=====
90 CLARKSBURG MD INTELS 163.1 85.7 -20.5 133.0 26.5 -147.5 23.0
39 13 21 77 16 32 WA27 7.9 29.8 13.0 C41000 209.9 -20.5 0.0
Short Margin: -10.53 RCN: 03081436 Ohloss(20% / .01 %): 15.30 10.40
( 90) Status: L
3700.00 4200.00 100KG7W
3932.00 4175.00 1M54G1W

91 WASHINGTON DC BLKENT 32.0 31.8 -5.1 136.5 39.6 -135.5 23.0
38 55 5 76 59 20 E950443 5.5 105.7 13.0 S40911 286.0 -20.5 0.0
Short Margin: -10.49 RCN: 01092412 Ohloss(20% / .01 %): 72.20 48.70
( 91) Status: L
3700.00 4200.00 36M0F8W 36M0F3F

92 ROSSLYN VA ALLBIT 18.7 41.6 -8.5 135.1 33.8 -137.6 23.0
38 53 43 77 4 11 E020186 41.8 113.1 13.0 FCC32 293.3 -20.4 0.0
Short Margin: -6.43 RCN: 02021420 Ohloss(20% / .01 %): 68.70 60.20
( 92) Status: L
3700.00 4200.00 36M0F8F

93 GAITHERSBUR MD S91901 131.1 20.7 -0.8 131.9 23.3 -126.6 23.0
39 8 22 77 12 38 E6476 4.6 53.7 13.0 S40501 233.9 -20.4 0.0
Short Margin: -10.38 RCN: Ohloss(20% / .01 %): 70.20 61.50
( 93) Status: L
3700.00 4200.00 36M0F8W

94 GAITHERSBUR MD S91901 131.1 20.7 -0.8 131.9 23.3 -126.6 23.0
39 8 22 77 12 38 E6476 36.6 53.7 13.0 S40461 233.9 -20.4 0.0
Short Margin: -10.38 RCN: Ohloss(20% / .01 %): 25.90 21.70
( 94) Status: L
3700.00 4200.00 36M0F8W

95 BRISTOW VA ZNUSKI 85.4 76.9 -10.0 133.6 28.6 -137.6 23.0
38 47 2 77 34 22 E000696 10.4 206.0 13.0 FCC32 26.0 -20.4 0.0
Short Margin: -10.36 RCN: 02021229 Ohloss(20% / .01 %): 66.40 55.40
( 95) Status: L
3625.00 4200.00 36M0F3F

96 WASHINGTON DC XMSRAD 20.4 66.3 -10.0 136.2 38.5 -140.2 23.0
38 54 34 77 0 18 E000724 12.8 107.6 13.0 FCC32 287.9 -19.8 0.0
Short Margin: -9.78 RCN: 00100932 Ohloss(20% / .01 %): 68.40 49.90
( 96) Status: L
3700.00 4200.00 282KG7D
    
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PDF Name: ORB4\_MOD

HERNDON VA HERNDON ZORBIT 02/17/2004  
 REMOTE VA REMOTE  
 39 0 56.0 77 25 42.0 72.30 6.10

Terrestrial Point To Point Frequencies:

3730.00V

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=====
EARTH STATION      OWNER      GND      EDISCT  GES      FSLOSS  DIST PR      EPWR
LAT      LON      CALL      ACL      TDISCT  GTS      ESANT  AZ  MARGIN LL
=====
97  COCKEYSVILLE MD    MAXTEL      85.3   18.2    0.6   143.0   84.2 -136.4  23.0
39 28 35   76 39 15 E020167     3.1   52.3   13.0  S40451 232.8 -19.6   0.0
Short Margin:   -9.64 RCN: 02061915   Ohloss(20% / .01 %):   72.60  39.50
( 97) Status: L
3700.00      4200.00      36M0F8W

98  FORT BELVOIR VA     P3210      38.1  139.1   -9.7   136.7   40.5 -140.4  23.0
38 43 30   77  8 41 E980347     4.9  142.5   13.0  V40811 322.8 -19.6   0.0
Short Margin:   -9.63 RCN: 98060504   Ohloss(20% / .01 %):   66.50  42.50
( 98) Status: L
3625.00      4200.00      36M0F8W

99  WHITE OAK MD        DOWJON     109.7   21.3   -1.2   136.2   38.6 -131.4  23.0
39  2 46   76 59  1 E2925     6.7   84.8   13.0  FCC32  265.1 -19.6   0.0
Short Margin:  -12.56 RCN: 96112522   Ohloss(20% / .01 %):   68.00  47.90
( 99) Status: L
3700.00      4200.00      11M5G7W

100 WHITE OAK MD        DOWJON     109.7   21.3   -1.2   136.2   38.6 -131.4  23.0
39  2 46   76 59  1 E2925     6.7   84.8   13.0  FCC32  265.1 -19.6   0.0
Short Margin:  -12.56 RCN:           Ohloss(20% / .01 %):   68.00  47.90
(100) Status: L
3700.00      4200.00      11M5G7W

101 CLARKSBURG MD      P2540N     175.9   36.1   -8.6   132.9   26.4 -135.5  23.0
39 13 14   77 16 25 E880625     5.2   30.3   13.0  V40901 210.4 -19.3   0.0
Short Margin:    0.72 RCN: 88021226   Ohloss(20% / .01 %):   15.00  10.20
(101) Status: L
3700.00      4200.00      36M0F8W

102 BETHESDA MD        S91901     80.8   14.4    2.7   133.5   28.1 -124.8  23.0
39  1  2   77  6 13 E5593     17.4   89.5   13.0  S40506 269.7 -19.2   0.0
Short Margin:   -9.23 RCN:           Ohloss(20% / .01 %):   66.30  61.20
(102) Status: L
3700.00      4200.00      36M0F8W

103 CLARKSBURG MD      P2540      170.7   70.9  -10.0   132.9   26.3 -136.9  23.0
39 13 14   77 16 30 CLARKSBU  18.3   30.1   13.0  FCC32  210.2 -19.1   0.0
Short Margin:   -9.08 RCN: 98101913   Ohloss(20% / .01 %):   14.80  10.00
(103) Status: P
3700.00      4200.00      5M00G7D

104 CLARKSBURG MD      INTELS     146.3   73.4  -10.0   132.9   26.4 -136.9  23.0
39 13  7   77 16 12 E980200     2.7   31.1   13.0  FCC32  211.3 -19.1   0.0
Short Margin:   -9.07 RCN: 98022714   Ohloss(20% / .01 %):   73.70  60.60
(104) Status: L
    
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PDF Name: ORB4\_MOD

HERNDON VA HERNDON ZORBIT 02/17/2004  
 REMOTE VA REMOTE  
 39 0 56.0 77 25 42.0 72.30 6.10

Terrestrial Point To Point Frequencies:

3730.00V

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EARTH STATION      OWNER      GND      EDISCT  GES      FSLOSS  DIST PR      EPWR
LAT      LON      CALL      ACL      TDISCT  GTS      ESANT  AZ  MARGIN LL
=====
3625.00      4200.00      1H00N8D

105  GAITHERSBURG MD      ZGAITH      0.0      17.1      1.2      132.2      24.2 -125.0  23.0
     39 7 25 77 11 5 WD45      4.6      60.2      13.0      FCC32      240.4 -19.0  0.0
     Short Margin:      -8.97 RCN:      Ohloss(20% / .01 %):      121.90 112.30
( 105) Status: L
     3700.00      4200.00      36M0F8W

106  WASHINGTON DC      P2540      10.1      130.8 -10.0      136.1      37.9 -140.1  23.0
     38 52 59 77 1 29 INTERNAT 50.3      112.6      13.0      FCC32      292.9 -18.9  0.0
     Short Margin:      -1.91 RCN:      Ohloss(20% / .01 %):      65.60 55.60
( 106) Status: L
           No Earth Station Found for this case

107  GERMANTOWN MD      S05454      136.6      40.0      -8.0      132.2      24.1 -134.2  23.0
     39 10 49 77 14 46 E940478      3.0      40.6      13.0      FCC32      220.8 -18.8  0.0
     Short Margin:      -8.84 RCN: 94062109 Ohloss(20% / .01 %):      67.80 58.20
( 107) Status: L
     3700.00      4200.00      1M23G7W

108  GERMANTOWN MD      S05454      136.6      40.0      -8.0      132.2      24.1 -134.2  23.0
     39 10 49 77 14 46 E940478      3.0      40.6      13.0      FCC32      220.8 -18.8  0.0
     Short Margin:      -8.84 RCN: 94062118 Ohloss(20% / .01 %):      67.80 58.20
( 108) Status: L
     3700.00      4200.00      1M23G7W

109  BRISTOW VA      ZNUSKI      86.5      87.6      -9.7      133.7      28.7 -137.4  23.0
     38 47 0 77 34 22 E000102      6.1      206.0      13.0      V40811      25.9 -18.6  0.0
     Short Margin:      -8.65 RCN: 00092003 Ohloss(20% / .01 %):      67.30 54.30
( 109) Status: L
     4199.50      36M0F8W

110  SILVER SPRIN MD      COMMSA      125.0      11.3      5.7      137.2      43.1 -125.5  23.0
     39 5 12 76 56 21 E7091      2.7      79.2      13.0      FCC32      259.6 -18.5  0.0
     Short Margin:      -8.50 RCN:      Ohloss(20% / .01 %):      63.60 38.20
( 110) Status: L
     3700.00      4200.00      36M0F8W

111  BRISTOW VA      ZNUSKI      86.5      81.0      -10.0      133.6      28.6 -137.6  23.0
     38 47 2 77 34 22 E000696      17.4      206.0      13.0      FCC32      26.0 -18.4  0.0
     Short Margin:      -8.36 RCN: 01012415 Ohloss(20% / .01 %):      47.00 41.70
( 111) Status: L
     3625.00      3700.00      20M0G7W
    
```

PDF Name: ORB4\_MOD

HERNDON VA HERNDON ZORBIT 02/17/2004  
 REMOTE VA REMOTE  
 39 0 56.0 77 25 42.0 72.30 6.10

Terrestrial Point To Point Frequencies:

3730.00V

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=====
EARTH STATION      OWNER      GND      EDISCT  GES      FSLOSS  DIST PR      EPWR
LAT      LON      CALL      ACL      TDISCT  GTS      ESANT  AZ  MARGIN LL
=====
112 BRISTOW      VA      ZNUSKI      86.5  102.5  -10.0  133.6  28.6 -137.6  23.0
38 47 1  77 34 24 E000152      6.7  206.1  13.0  FCC32  26.0 -18.4  0.0
Short Margin:      -8.35 RCN: 01111332  Ohloss(20% / .01 %):  68.60  56.10
( 112) Status: L
3947.25      3947.75      500KG7D
3947.75      3948.28
3950.00
3951.75      3952.25
3952.25      3952.75

113 BRISTOW      VA      ZNUSKI      86.5  87.6  -10.0  133.6  28.6 -137.6  23.0
38 47 1  77 34 24 E000152      6.7  206.1  13.0  FCC32  26.0 -18.4  0.0
Short Margin:      -8.35 RCN: 01111334  Ohloss(20% / .01 %):  68.60  56.10
( 113) Status: L
3700.00      4200.00      20M0G7W  36M0G7W

114 BRISTOW      VA      ZNUSKI      85.3  87.9  -10.0  133.6  28.6 -137.6  23.0
38 47 1  77 34 23 E980076      5.5  206.0  13.0  FCC32  25.9 -18.4  0.0
Short Margin:      -8.35 RCN: 00091503  Ohloss(20% / .01 %):  69.00  55.70
( 114) Status: L
3947.25      3947.75      500KG7D
3947.75      3948.28
3951.75      3952.25
3952.25      3952.75

115 BRISTOW      VA      ZNUSKI      85.3  86.8  -10.0  133.6  28.6 -137.6  23.0
38 47 1  77 34 23 E980076      5.5  206.0  13.0  FCC32  25.9 -18.4  0.0
Short Margin:      -8.35 RCN: 00091816  Ohloss(20% / .01 %):  69.00  55.70
( 115) Status: L
3700.00      4200.00      43K8G7D  4M80G7D

116 BRISTOW      VA      ZNUSKI      86.5  87.6  -10.0  133.6  28.6 -137.6  23.0
38 47 1  77 34 23 E980076      6.7  206.0  13.0  FCC32  25.9 -18.4  0.0
Short Margin:      -8.35 RCN: 00110330  Ohloss(20% / .01 %):  67.50  54.90
( 116) Status: L
3700.00      4200.00      20M0G7W  36M0G7W

117 ROSSLYN      VA      P3210      16.8  41.5  -8.8  135.1  33.9 -137.9  23.0
38 53 39 77 4 9 E4411      25.6  113.2  13.0  S40701 293.5 -18.1  0.0
Short Margin:      -6.08 RCN: 96071711  Ohloss(20% / .01 %):  70.90  59.80
( 117) Status: L
3700.00      4200.00      2M80G7W
    
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PDF Name: ORB4\_MOD

HERNDON VA HERNDON ZORBIT 02/17/2004  
 REMOTE VA REMOTE  
 39 0 56.0 77 25 42.0 72.30 6.10

Terrestrial Point To Point Frequencies:

3730.00V

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=====
EARTH STATION      OWNER      GND      EDISCT  GES      FSLOSS  DIST PR      EPWR
LAT      LON      CALL      ACL      TDISCT  GTS      ESANT  AZ  MARGIN LL
=====
118 MT AIRY      MD      SHORT      187.8   32.3   -5.6   138.5   50.0 -138.0  23.0
   39 22 33   77 4 50 TEMP02      3.7   36.7   13.0   A4045B 217.0 -18.0  0.0
Short Margin:    -7.95 RCN: 03080520   Ohloss(20% / .01 %):  69.60  44.40
( 118) Status: T
   3700.00      4200.00      15K0F3F

119 NOKESVILLE VA      PBSINC      80.8   84.5   -8.1   136.0   37.6 -138.1  23.0
   38 41 54   77 34 44 NOKESVIL  4.6   200.4  13.0   C40551 20.3 -17.9  0.0
Short Margin:    -7.93 RCN: 00040431   Ohloss(20% / .01 %):  61.60  43.80
( 119) Status: A
   3700.00      4200.00      36M0F3F

120 WOODBINE      MD      P3210      181.3   32.2   -5.7   138.5   50.1 -138.2  23.0
   39 22 36   77 4 52 E020096  6.7   36.7   13.0   FCC32 216.9 -17.8  0.0
Short Margin:    -7.80 RCN: 02022041   Ohloss(20% / .01 %):  69.70  43.80
( 120) Status: L
   3700.00      4200.00      30M0F8W

121 SAVAGE      MD      ZCJBCI      91.4    9.7    6.8   139.1   53.9 -126.3  23.0
   39 9 16    76 49 52 E6549    2.7   73.1  13.0   S40501 253.6 -17.7  0.0
Short Margin:    -7.66 RCN:           Ohloss(20% / .01 %):  69.70  41.20
( 121) Status: L
   3700.00      4200.00      36M0F8W

122 WOODBINE      MD      P3210      187.8   32.7   -5.9   138.5   50.0 -138.4  23.0
   39 22 33   77 4 50 E7169    10.7  36.7  13.0   FCC32 217.0 -17.6  0.0
Short Margin:    -7.64 RCN: 98071713   Ohloss(20% / .01 %):  66.80  42.70
( 122) Status: L
   3700.00      4200.00      137KG7D

123 RESTON      VA      CMCAVA      100.6   58.8  -10.5  124.9   10.5 -129.4  23.0
   38 57 17   77 20 6 WK72    4.6  129.8  13.0   S40502 309.9 -17.6  0.0
Short Margin:    -7.56 RCN:           Ohloss(20% / .01 %):  57.50  55.60
( 123) Status: L
   3700.00      4200.00      36M0F8W

124 GLEN BURNIE MD      ZTLNWK      15.2    9.0    9.0   141.5   70.9 -126.5  23.0
   39 8 11    76 37 25 E7443    2.7   78.8  13.0   S40461 259.3 -17.5  0.0
Short Margin:    -7.52 RCN:           Ohloss(20% / .01 %):  62.80  31.30
( 124) Status: L
   3700.00      4200.00      36M0F8W

125 BREN MAR      VA      P9194      51.5    61.0  -9.5   135.0   33.5 -138.5  23.0
   38 47 37   77 9 58 E950460  4.3  137.2  13.0   A4073A 317.4 -17.5  0.0
Short Margin:    -7.49 RCN: 96062134   Ohloss(20% / .01 %):  90.10  71.00
( 125) Status: L
    
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PDF Name: ORB4\_MOD

HERNDON VA HERNDON ZORBIT 02/17/2004  
 REMOTE VA REMOTE  
 39 0 56.0 77 25 42.0 72.30 6.10

Terrestrial Point To Point Frequencies:

3730.00V

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=====
EARTH STATION      OWNER      GND      EDISCT  GES      FSLOSS  DIST PR      EPWR
LAT      LON      CALL      ACL      TDISCT  GTS      ESANT  AZ  MARGIN LL
=====
3700.00      4200.00      36M0F8W

126 COLUMBIA      MD      S09925      115.8    10.6     6.9    139.5   55.9 -126.6  23.0
39 11 9 76 49 10 E860066      2.7     70.0    13.0  S40462 250.4 -17.4  0.0
Short Margin: -7.42 RCN: 85072645 Ohloss(20% / .01 %): 67.10 37.80
( 126) Status: L
3700.00      4200.00      36M0F8W

127 CLARKSBURG   MD      P2540V      174.3    36.1    -10.5   132.9   26.4 -137.4  23.0
39 13 15 77 16 27 E880627      3.7     30.2    13.0  V40611 210.3 -17.4  0.0
Short Margin: 2.64 RCN: 88021226 Ohloss(20% / .01 %): 15.10 10.30
( 127) Status: L
3700.00      4200.00      36M0F8W

128 LAUREL      MD      ZTLNWK      61.0     11.2     6.3    139.1   53.6 -126.8  23.0
39 5 55 76 49 5 E7302      2.7     79.8    13.0  S40462 260.3 -17.2  0.0
Short Margin: -7.25 RCN: Ohloss(20% / .01 %): 60.60 32.70
( 128) Status: L
3700.00      4200.00      36M0F8W

129 MANASSAS    VA      ZTELSI      59.1     86.8    -10.0   134.8   32.6 -138.8  23.0
38 43 58 77 31 51 E000736      4.6    195.8    13.0  FCC32  15.8 -17.2  0.0
Short Margin: -7.22 RCN: 00112708 Ohloss(20% / .01 %): 64.90 47.10
( 129) Status: L
3700.00      4200.00      30M0G7W

130 MANASSAS    VA      DIRCOM      59.1     86.8    -10.0   134.9   32.9 -138.9  23.0
38 43 47 77 31 49 DIRCOM      4.6    195.6    13.0  FCC32  15.6 -17.1  0.0
Short Margin: -7.14 RCN: 01031214 Ohloss(20% / .01 %): 63.70 45.50
( 130) Status: P
3700.00      4200.00      8M00G7W 30M0G7D

131 CLARKSBURG   MD      P2540      160.9    69.3    -10.0   132.9   26.2 -136.9  23.0
39 13 5 77 16 23 E970322      9.8     30.7    13.0  FCC32  210.8 -17.1  0.0
Short Margin: -7.13 RCN: 97070303 Ohloss(20% / .01 %): 24.60 19.80
( 131) Status: L
3400.00      4200.00      2M60G7D

132 ALEXANDRIA   VA      P9194      61.0     61.0    -9.9    135.0   33.5 -138.9  23.0
38 47 39 77 9 58 E930089      2.4    137.1    13.0  P40381 317.3 -17.1  0.0
Short Margin: -7.10 RCN: 95033119 Ohloss(20% / .01 %): 86.90 65.90
( 132) Status: L
3700.00      4200.00      1M59G7D
    
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PDF Name: ORB4\_MOD

HERNDON VA HERNDON ZORBIT 02/17/2004  
 REMOTE VA REMOTE  
 39 0 56.0 77 25 42.0 72.30 6.10

Terrestrial Point To Point Frequencies:

3730.00V

```

=====
EARTH STATION      OWNER      GND      EDISCT  GES      FSLOSS  DIST PR      EPWR
LAT      LON      CALL      ACL      TDISCT  GTS      ESANT  AZ  MARGIN LL
=====
133  BREN MAR      VA      PBS      52.4    60.9   -14.9   135.0   33.5 -143.9  23.0
     38 47 39      77 9 53 WD35      4.5    137.0   13.0   V40901 317.2 -17.1  0.0
     Short Margin:  -0.08 RCN: 90081016  Ohloss(20% / .01 %):  79.30  60.40
     ( 133) Status: L
     3700.00      4200.00      200KF9E

134  BREN MAR II  VA      P9194    48.8    135.6  -10.1   135.1   33.7 -139.2  23.0
     38 47 38      77 9 44 KA277    10.7   136.7   13.0   U41832 316.9 -16.8  0.0
     Short Margin:  -4.84 RCN: 96020833  Ohloss(20% / .01 %):  81.50  66.20
     ( 134) Status: L
     3700.00      4200.00      17M5F3F

135  SPRINGFIELD  VA      P3210    71.0    66.1   -10.5   134.7   32.2 -139.2  23.0
     38 47 58      77 10 47 E3389      3.7    137.9   13.0   S40701 318.1 -16.8  0.0
     Short Margin:  -4.83 RCN: 96071802  Ohloss(20% / .01 %):  67.20  49.00
     ( 135) Status: L
     3700.00      4200.00      2M80G7W

136  WASHINGTON    DC      CROCC     17.7    45.6   -9.3    136.0   37.5 -139.3  23.0
     38 54 6      77 1 16 E010134    33.8   109.5   13.0   S41001 289.8 -16.7  0.0
     Short Margin:  -6.69 RCN: 01020939  Ohloss(20% / .01 %):  70.00  62.30
     ( 136) Status: L
     3700.00      4200.00      36M0F3F

137  WASHINGTON    DC      BTAMER    21.3    50.5  -10.0   135.5   35.3 -139.5  23.0
     38 54 21      77 2 44 WASHINGT  54.9   110.0   13.0   FCC32  290.3 -16.5  0.0
     Short Margin:  -6.53 RCN: 99122001  Ohloss(20% / .01 %):  66.80  58.80
     ( 137) Status: P
     3700.00      4200.00      18M0G7F

138  SILVER SPRG  MD      WUSATV   109.7   14.4    3.1    136.7   40.5 -127.5  23.0
     39 3 26      76 57 47 E860716    3.1    83.2   13.0   S40461 263.6 -16.5  0.0
     Short Margin:  -6.47 RCN: 86031798  Ohloss(20% / .01 %):  61.10  36.60
     ( 138) Status: L
     3700.00      4200.00      36M0F8W

139  SILVER SPRG  MD      WUSATV   109.7   14.4    3.1    136.7   40.5 -127.5  23.0
     39 3 26      76 57 47 E860716    4.3    83.2   13.0   S40701 263.6 -16.5  0.0
     Short Margin:  -6.45 RCN: 86031797  Ohloss(20% / .01 %):  59.40  35.20
     ( 139) Status: L
     3700.00      4200.00      36M0F8W

140  BALTIMORE     MD      BALTM     47.2    9.6    7.5    141.1   67.5 -127.6  23.0
     39 11 47      76 41 0 E860604    2.7    72.4   13.0   FCC32  252.9 -16.4  0.0
     Short Margin:  -6.38 RCN: 86022105  Ohloss(20% / .01 %):  62.60  31.70
     ( 140) Status: L
    
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PDF Name: ORB4\_MOD

HERNDON VA HERNDON ZORBIT 02/17/2004  
 REMOTE VA REMOTE  
 39 0 56.0 77 25 42.0 72.30 6.10

Terrestrial Point To Point Frequencies:

3730.00V

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=====
EARTH STATION      OWNER      GND      EDISCT  GES      FSLOSS  DIST PR      EPWR
LAT      LON      CALL      ACL      TDISCT  GTS      ESANT  AZ  MARGIN LL
=====
3700.00      4200.00      36M0F8W

141  FREDERICK  MD  ADELFM  120.4  43.9  -9.0  136.7  40.7 -139.7  23.0
39 22 48 77 28 52 FREDERIC  2.1  353.5  13.0  S40451 173.5 -16.3  0.0
Short Margin: -6.33 RCN: 02030643 Ohloss(20% / .01 %): 55.00 30.10
( 141) Status: P
3700.00      4200.00      36M0F8F

142  BELTSVILLE MD  ZTLNWK  82.3  14.4  3.1  136.8  41.3 -127.8  23.0
39 2 32 76 57 10 E7452 2.7  85.7  13.0  S40461 266.0 -16.2  0.0
Short Margin: -6.25 RCN: Ohloss(20% / .01 %): 67.10 42.20
( 142) Status: L
3700.00      4200.00      36M0F8W

143  RITCHIE MD  COMCMD  45.0  36.4  -7.1  138.8  51.9 -139.9  23.0
38 52 26 76 51 29 E010002 2.7  107.4  13.0  S40502 287.8 -16.1  0.0
Short Margin: -6.12 RCN: 00101246 Ohloss(20% / .01 %): 65.00 37.00
( 143) Status: L
3700.00      4200.00      36M0F8F

144  DULLES/MARR VA  S91901  85.3  124.1 -15.8  121.3  6.9 -131.1  23.0
38 57 22 77 27 12 E6001 3.7  198.3  13.0  S40501 18.4 -15.9  0.0
Short Margin: -5.87 RCN: Ohloss(20% / .01 %): 69.80 69.20
( 144) Status: L
3700.00      4200.00      36M0F8W

145  ALEXANDRIA VA  COMCVA  7.6  55.7 -10.4  135.8  36.7 -140.2  23.0
38 48 29 77 5 56 E970368 2.7  128.7  13.0  S40451 309.0 -15.8  0.0
Short Margin: -5.80 RCN: 97013022 Ohloss(20% / .01 %): 120.00 96.50
( 145) Status: L
3700.00      4200.00      36M0F8W

146  WASHINGTON DC  USIABC  6.1  168.2 -10.0  136.2  38.4 -140.2  23.0
38 53 11 77 1 1 WASHINGT 25.6  111.7  13.0  FCC32 292.0 -15.8  0.0
Short Margin: -5.80 RCN: 97121116 Ohloss(20% / .01 %): 67.50 58.00
( 146) Status: P
3700.00      4200.00      18M0G7W

147  ANNE ARUNDE MD  COMCMD  42.7  14.0  3.5  140.9  66.2 -131.4  23.0
39 2 42 76 39 53 WX24 2.7  86.9  13.0  S40461 267.4 -15.6  0.0
Short Margin: -5.58 RCN: Ohloss(20% / .01 %): 59.60 27.80
( 147) Status: L
3700.00      4200.00      36M0F8W
    
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PDF Name: ORB4\_MOD

HERNDON VA HERNDON ZORBIT 02/17/2004  
 REMOTE VA REMOTE  
 39 0 56.0 77 25 42.0 72.30 6.10

Terrestrial Point To Point Frequencies:

3730.00V

```

=====
EARTH STATION      OWNER      GND      EDISCT  GES      FSLOSS  DIST PR      EPWR
LAT      LON      CALL      ACL      TDISCT  GTS      ESANT  AZ  MARGIN LL
=====
148 SILVER SPRIN MD  ESATEL      73.5  112.9  -10.0  134.7  32.2 -138.7  23.0
   39 0 5 77 3 26 E960411  4.3  92.6  13.0  FCC32  272.9 -15.3  0.0
Short Margin:  -5.35 RCN: 98060801  Ohloss(20% / .01 %):  64.70  50.20
( 148) Status: L
   3700.00  4200.00  51K2G7W  1M64G7W

149 ROARING CRK PA  VIOLIC      292.6  37.0  -7.2  151.6  225.1 -152.8  23.0
   40 53 39 76 26 19 E980493  10.7  21.7  13.0  FCC32  202.4 -15.2  0.0
Short Margin:  -4.23 RCN: 00120630  Ohloss(20% / .01 %):  73.60  50.30
( 149) Status: L
   3625.00  3700.00  1M24G7W

150 ROARING CRK PA  VIOLIC      296.0  37.8  -7.4  151.6  225.0 -153.0  23.0
   40 53 37 76 26 20 WA33  22.9  21.7  13.0  FCC32  202.4 -15.0  0.0
Short Margin:  -3.01 RCN: 94010716  Ohloss(20% / .01 %):  68.30  44.60
( 150) Status: L
   3700.00  4200.00  18M0F8W

151 FT BELVOIR VA  COMCAV      12.2  70.9  -10.0  137.0  42.1 -141.0  23.0
   38 42 10 77 9 12 FT BELVO  2.1  145.4  13.0  FCC32  325.6 -15.0  0.0
Short Margin:  -5.00 RCN: 03103110  Ohloss(20% / .01 %):  62.30  36.90
( 151) Status: P
   3700.00  4200.00  36M0F8W

152 ROARING CRK PA  P1175      296.0  37.9  -7.5  151.6  225.0 -153.0  23.0
   40 53 36 76 26 21 KA444  22.9  21.7  13.0  FCC32  202.4 -15.0  0.0
Short Margin:  -2.98 RCN: 94010717  Ohloss(20% / .01 %):  68.40  44.70
( 152) Status: L
   3625.00  4200.00  30M7G7W

153 GLEN BURNIE MD  ZTLNWK      18.3  11.0  6.5  141.6  71.2 -129.0  23.0
   39 8 29 76 37 16 E7282  2.7  78.4  13.0  S40462  258.9 -15.0  0.0
Short Margin:  -4.98 RCN:  Ohloss(20% / .01 %):  62.90  31.30
( 153) Status: L
   3700.00  4200.00  36M0F8W

154 OXFORD PA  S06475      129.5  18.8  0.7  147.9  147.7 -141.2  23.0
   39 46 3 76 0 51 E030015  3.7  55.1  13.0  S40321  236.0 -14.8  0.0
Short Margin:  -4.83 RCN: 02102501  Ohloss(20% / .01 %):  68.90  38.80
( 154) Status: L
   3700.00  4200.00  36M0F8W

155 SILVER SPGS MD  KQLZFM      99.4  13.4  -0.1  135.2  34.4 -129.3  23.0
   38 59 40 77 1 55 E960241  5.5  93.7  13.0  A4045T  274.0 -14.7  0.0
Short Margin:  -4.66 RCN: 03013032  Ohloss(20% / .01 %):  59.90  47.70
( 155) Status: L
    
```

PDF Name: ORB4\_MOD

HERNDON VA HERNDON ZORBIT 02/17/2004  
 REMOTE VA REMOTE  
 39 0 56.0 77 25 42.0 72.30 6.10

Terrestrial Point To Point Frequencies:

3730.00V

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=====
EARTH STATION      OWNER      GND      EDISCT  GES      FSLOSS  DIST PR      EPWR
LAT      LON      CALL      ACL      TDISCT  GTS      ESANT  AZ  MARGIN LL
=====
3700.00      4200.00      7M73G7W

156 NEW KENSINGT PA      P5814      381.0    23.3    -6.5    152.8    261.0 -153.4  23.0
    40 32 2  79 45 15 E910006      4.9    310.9    13.0    R40922  129.5  -14.6   0.0
Short Margin:      -4.64 RCN:      Ohloss(20% / .01 %):      84.40  63.80
( 156) Status: L
    3700.00      4200.00      201KG1D

157 SUITLAND      MD      AMGOSE      88.4    41.5    -8.5    137.9    46.8 -140.4  23.0
    38 51 0  76 55 54 WE87      6.4    112.9    13.0    FCC29   293.3  -14.6   0.0
Short Margin:      -4.64 RCN:      Ohloss(20% / .01 %):      63.20  52.00
( 157) Status: L
    3700.00      4200.00      1000F9Y

158 SUITLAND      MD      AMGOSE      88.4    41.5    -8.5    137.9    46.8 -140.4  23.0
    38 51 0  76 55 54 WE87      3.7    112.9    13.0    FCC32   293.3  -14.6   0.0
Short Margin:      -4.63 RCN: 97072101 Ohloss(20% / .01 %):      63.20  51.40
( 158) Status: L
    3700.00      4200.00      132KG7D

159 PHILADELPHIA PA      FOXBRO      8.2     13.1     4.0    151.4    222.0 -141.4  23.0
    39 56 59 75 8 49 E000435      3.1    61.4     13.0    FCC32   242.9  -14.6   0.0
Short Margin:      -4.61 RCN: 00041704 Ohloss(20% / .01 %):      64.70  41.60
( 159) Status: L
    3700.00      4200.00      36M0F8F

160 REMINGTON      VA      ZCOMGE      84.7    80.2   -10.0    141.4    70.1 -145.4  23.0
    38 28 29 77 50 44 REMINGTO      6.4    211.2    13.0    FCC32    31.0  -14.6   0.0
Short Margin:      -4.57 RCN: 97032516 Ohloss(20% / .01 %):      56.50  25.60
( 160) Status: P
    3625.00      4200.00      2M00G7D

161 MILLERSVILLE MD      NORAC      36.9    11.0     6.0    141.4    70.2 -129.4  23.0
    39 6 4  76 37 27 E920626      1.5    81.9     13.0    FCC32   262.5  -14.6   0.0
Short Margin:      -4.56 RCN: 92072115 Ohloss(20% / .01 %):      56.10  24.40
( 161) Status: L
    3700.00      4200.00      36M0F8W

162 TACOMA PK      MD      ZTLNWK      71.6    18.4     0.4    136.1    38.0 -129.7  23.0
    39 0 8  76 59 21 E7200      2.7    92.0     13.0    S40461  272.3  -14.3   0.0
Short Margin:      -4.33 RCN:      Ohloss(20% / .01 %):      66.50  42.60
( 162) Status: L
    3700.00      4200.00      36M0F8W
    
```

PDF Name: ORB4\_MOD

HERNDON VA HERNDON ZORBIT 02/17/2004  
 REMOTE VA REMOTE  
 39 0 56.0 77 25 42.0 72.30 6.10

Terrestrial Point To Point Frequencies:

3730.00V

```

=====
EARTH STATION      OWNER      GND      EDISCT  GES      FSLOSS  DIST PR      EPWR
LAT      LON      CALL      ACL      TDISCT  GTS      ESANT  AZ  MARGIN LL
=====
163 CLARKSBURG MD P2540N 174.3 36.1 -14.0 132.9 26.4 -140.9 23.0
39 13 14 77 16 26 E880626 3.7 30.3 13.0 H40611 210.4 -13.9 0.0
Short Margin: 6.14 RCN: 88021226 Ohloss(20% / .01 %): 15.10 10.30
( 163) Status: L
3700.00 4200.00 36M0F8W

164 SILVER SPRIN MD S15610 82.3 22.7 -1.6 134.7 32.1 -130.2 23.0
39 0 0 77 3 27 E940495 3.0 92.9 13.0 S40601 273.2 -13.8 0.0
Short Margin: -3.78 RCN: 94051102 Ohloss(20% / .01 %): 60.70 41.90
( 164) Status: L
3700.00 4200.00 36M0F8W

165 BALTIMORE MD S00433 152.4 19.1 3.8 141.3 69.2 -131.5 23.0
39 23 10 76 47 3 BALTIMOR 6.1 53.3 13.0 A40731 233.7 -13.5 0.0
Short Margin: -3.54 RCN: Ohloss(20% / .01 %): 69.10 38.30
( 165) Status: P
3700.00 4200.00 36M0F8W

166 BETHESDA MD ZSATVS 94.5 25.6 -3.2 133.3 27.6 -130.5 23.0
39 1 0 77 6 33 E890837 2.7 89.6 13.0 FCC32 269.8 -13.5 0.0
Short Margin: -3.46 RCN: Ohloss(20% / .01 %): 65.50 51.10
( 166) Status: L
3700.00 4200.00 36M0F8W

167 HOWARD COUNT MD MIDAC 128.0 19.1 0.1 136.9 41.8 -130.8 23.0
39 14 1 77 2 2 E890135 2.7 54.4 13.0 S40451 234.7 -13.2 0.0
Short Margin: -3.18 RCN: 88112149 Ohloss(20% / .01 %): 70.50 45.50
( 167) Status: L
3700.00 4200.00 36M0F8W

168 HAGERSTOWN MD MOUTEL 164.0 38.2 -7.3 141.5 70.8 -142.9 23.0
39 36 3 77 45 19 HAGERSTO 9.1 336.6 13.0 V41833 156.4 -13.1 0.0
Short Margin: -3.15 RCN: 02090526 Ohloss(20% / .01 %): 53.20 23.50
( 168) Status: P
3625.00 4200.00 1M85G7D 36M0F8W

169 BETHESDA MD ZMARQU 73.2 25.7 -3.2 133.6 28.6 -130.9 23.0
38 57 50 77 6 15 WU31 9.1 101.4 13.0 FCC32 281.6 -13.1 0.0
Short Margin: -3.12 RCN: Ohloss(20% / .01 %): 72.50 61.00
( 169) Status: L
3700.00 4200.00 36M0F8W

170 WHMM-TV VA ZWHMM 66.4 63.5 -10.0 135.0 33.5 -139.0 23.0
38 47 39 77 9 58 E5791 5.5 137.1 13.0 H40901 317.3 -13.0 0.0
Short Margin: 8.00 RCN: Ohloss(20% / .01 %): 64.90 47.00
( 170) Status: L
    
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PDF Name: ORB4\_MOD

HERNDON VA HERNDON ZORBIT 02/17/2004  
 REMOTE VA REMOTE  
 39 0 56.0 77 25 42.0 72.30 6.10

Terrestrial Point To Point Frequencies:

3730.00V

```

=====
EARTH STATION      OWNER      GND      EDISCT  GES      FSLOSS  DIST PR      EPWR
LAT      LON      CALL      ACL      TDISCT  GTS      ESANT  AZ  MARGIN LL
=====
3700.00      4200.00      36M0F8W

171  ALEXANDRIA  VA      P9194      61.0    61.0    -8.0    135.0   33.5 -137.0  23.0
     38 47 39   77 9 58 E930089      3.7    137.1   13.0    C40551 317.3 -13.0   0.0
Short Margin:      7.04 RCN: 92091713  Ohloss(20% / .01 %):  85.30  65.70
( 171) Status: L
     3700.00      4200.00      36M0F8W

172  HAGERSTOWN1A MD  INTELS    163.1    38.2    -7.6    141.5   70.7 -143.0  23.0
     39 35 57   77 45 17 E030071      8.2    336.6   13.0    FCC32  156.4 -13.0   0.0
Short Margin:     -2.95 RCN: 03012429  Ohloss(20% / .01 %):  53.20  23.40
( 172) Status: L
     3625.00      3700.00      100KG7D
     3700.00      4200.00      36M0F8W

173  HAGERSTOWN4A MD  INTELS    164.0    38.2    -7.6    141.5   70.7 -143.1  23.0
     39 35 57   77 45 21 E030082      8.2    336.5   13.0    FCC32  156.3 -12.9   0.0
Short Margin:     -2.95 RCN: 03012426  Ohloss(20% / .01 %):  53.00  23.30
( 173) Status: L
     3625.00      3700.00      36M0F8W
     3700.00      4200.00      100KG7D

174  HAGERSTOWN5A MD  INTELS    164.0    38.2    -7.6    141.5   70.7 -143.1  23.0
     39 35 59   77 45 18 E030103      8.2    336.6   13.0    FCC32  156.4 -12.9   0.0
Short Margin:     -2.95 RCN: 03042928  Ohloss(20% / .01 %):  53.20  23.40
( 174) Status: L
     3625.00      3650.00      100KG7D  72M0G7W
     3700.00      4200.00

175  HAGERSTOWN6A MD  INTELS    164.0    38.2    -7.6    141.5   70.7 -143.1  23.0
     39 35 59   77 45 17 E030101      8.2    336.6   13.0    FCC32  156.4 -12.9   0.0
Short Margin:     -2.95 RCN: 03042406  Ohloss(20% / .01 %):  53.30  23.50
( 175) Status: L
     3625.00      3650.00      100KG7D  72M0G8W
     3700.00      4200.00

176  HAGERSTOWN3A MD  INTELS    164.0    38.2    -7.6    141.5   70.8 -143.1  23.0
     39 35 59   77 45 21 E030100      8.2    336.5   13.0    FCC32  156.4 -12.9   0.0
Short Margin:     -2.94 RCN: 03042136  Ohloss(20% / .01 %):  53.00  23.30
( 176) Status: L
     3625.00      3650.00      100KG7D  72M0G8W
     3700.00      4200.00
    
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PDF Name: ORB4\_MOD

HERNDON VA HERNDON ZORBIT 02/17/2004  
 REMOTE VA REMOTE  
 39 0 56.0 77 25 42.0 72.30 6.10

Terrestrial Point To Point Frequencies:

3730.00V

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=====
EARTH STATION      OWNER      GND      EDISCT  GES      FSLOSS  DIST PR      EPWR
LAT      LON      CALL      ACL      TDISCT  GTS      ESANT  AZ  MARGIN LL
=====
177 MT JACKSON VA P5192 283.5 26.8 -3.7 145.4 111.2 -143.1 23.0
38 43 45 78 39 24 E990175 5.5 253.7 13.0 FCC32 73.0 -12.9 0.0
Short Margin: -2.87 RCN: 98121617 Ohloss(20% / .01 %): 72.90 39.90
( 177) Status: L
3700.00 4200.00 15M0F3F

178 MT JACKSON VA P5192 283.5 26.8 -3.7 145.4 111.2 -143.1 23.0
38 43 45 78 39 24 E990175 5.5 253.7 13.0 FCC32 73.0 -12.9 0.0
Short Margin: -2.87 RCN: 00110722 Ohloss(20% / .01 %): 72.90 39.90
( 178) Status: L
3625.00 4200.00 15M0F3F

179 QUICKSBURG VA P5192 280.4 26.8 -3.7 145.4 111.3 -143.1 23.0
38 43 45 78 39 25 E000589 11.0 253.7 13.0 FCC32 73.0 -12.9 0.0
Short Margin: -2.87 RCN: 00111003 Ohloss(20% / .01 %): 72.80 39.80
( 179) Status: L
3625.00 4200.00 2M05F8W 26M0F8W

180 TYSONS CORN VA S91901 137.2 49.4 -9.5 130.8 20.5 -134.3 23.0
38 54 57 77 13 43 E5692 4.6 122.5 13.0 S40501 302.7 -12.7 0.0
Short Margin: -2.75 RCN: Ohloss(20% / .01 %): 92.50 85.80
( 180) Status: L
3700.00 4200.00 36M0F8W

181 CHESAPEAKE C MD TWFANC 18.3 10.1 6.9 148.2 152.4 -135.3 23.0
39 32 21 75 47 45 E880477 1.8 67.0 13.0 FCC29 248.1 -12.7 0.0
Short Margin: -2.71 RCN: 870910E0 Ohloss(20% / .01 %): 60.70 30.30
( 181) Status: L
3700.00 4200.00 36M0F8W

182 WASHINGTON DC STAPOW 42.7 27.8 -4.1 145.3 109.5 -143.4 23.0
38 56 0 76 10 8 E990279 2.7 94.3 13.0 FCC32 275.2 -12.6 0.0
Short Margin: -2.61 RCN: 99040711 Ohloss(20% / .01 %): 52.70 19.60
( 182) Status: L
3700.00 4200.00 36M0G7F

183 FALLS CHURCH VA ZTELCC 115.8 45.0 -9.3 131.1 21.3 -134.4 23.0
38 55 35 77 12 37 E5352 4.6 117.5 13.0 FCC32 297.7 -12.6 0.0
Short Margin: -2.58 RCN: Ohloss(20% / .01 %): 45.70 41.80
( 183) Status: L
3700.00 4200.00 36M0F8W

184 STATE COLLEG PA ZDYNCO 352.0 39.7 -8.0 150.6 200.7 -152.5 23.0
40 47 31 77 51 45 E000122 21.3 349.4 13.0 FCC32 169.2 -12.5 0.0
Short Margin: -2.46 RCN: 00010324 Ohloss(20% / .01 %): 71.70 45.70
( 184) Status: L
    
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PDF Name: ORB4\_MOD

HERNDON VA HERNDON ZORBIT 02/17/2004  
 REMOTE VA REMOTE  
 39 0 56.0 77 25 42.0 72.30 6.10

Terrestrial Point To Point Frequencies:

3730.00V

```

=====
EARTH STATION      OWNER      GND      EDISCT  GES      FSLOSS  DIST PR      EPWR
LAT      LON      CALL      ACL      TDISCT  GTS      ESANT  AZ  MARGIN LL
=====
3700.00      4200.00      21K0G7D

185  HAGERSTOWN  MD      INTELS      164.6   40.4   -8.2   141.5   70.7 -143.7  23.0
    39 35 57  77 45 18 HAGERSTO      5.5   336.6   13.0   FCC32   156.4  -12.3   0.0
    Short Margin:  -2.33 RCN: 04021210  Ohloss(20% / .01 %):  53.20  23.30
    ( 185) Status: P
    3700.00      4200.00      45K0G7W      72M0G7W

186  QUANTICO   VA      COMCVA      61.0   97.7  -10.5   139.2   54.5 -143.7  23.0
    38 31 50  77 19 39 E010194      3.1   170.7   13.0   S40701  350.8  -12.3   0.0
    Short Margin:  -2.26 RCN: 01042354  Ohloss(20% / .01 %):  58.40  31.80
    ( 186) Status: L
    3700.00      4200.00      36M0F8W

187  NEW KENSINGT PA      P5814      384.1   44.5   -9.2   152.8   261.0 -156.0  23.0
    40 32 1  79 45 16 E890933      4.9   310.9   13.0   FCC32   129.5  -12.0   0.0
    Short Margin:  -1.96 RCN:      Ohloss(20% / .01 %):  78.60  58.00
    ( 187) Status: L
    3700.00      4200.00      36M0F8W

188  BALTIMORE   MD      S18497      61.0   11.6   4.0   142.1   76.0 -132.1  23.0
    39 19 53  76 38 54 E885019      2.7   62.2   13.0   F40501  242.7  -11.9   0.0
    Short Margin:  -1.88 RCN: 86052703  Ohloss(20% / .01 %):  74.60  42.20
    ( 188) Status: L
    3700.00      4200.00      36M0F8W

189  PHILADELPHIA PA      TUPNPR      7.3   16.7   1.2   151.3   219.3 -144.2  23.0
    39 57 9  75 11 6 PHILADEL      14.9   60.9   13.0   C40381  242.4  -11.8   0.0
    Short Margin:  -1.85 RCN: 03121108  Ohloss(20% / .01 %):  64.10  40.30
    ( 189) Status: P
    3700.00      4200.00      30K0F1D      10M3G7W

190  TYSONS CORN VA      S91901      109.7   45.1   -9.5   128.7   16.1 -132.2  23.0
    38 56 51  77 15 49 E8425      2.7   117.8   13.0   S40462  297.9  -11.8   0.0
    Short Margin:  -1.83 RCN:      Ohloss(20% / .01 %):  46.30  43.40
    ( 190) Status: L
    3700.00      4200.00      36M0F8W

191  ELLICOTT CT MD      COMHOW      32.3   17.6   0.9   139.1   53.6 -132.2  23.0
    39 14 28  76 52 49 WK31      2.7   61.9   13.0   FCC32   242.3  -11.8   0.0
    Short Margin:  -1.77 RCN:      Ohloss(20% / .01 %):  123.10  94.60
    ( 191) Status: L
    3700.00      4200.00      36M0F8W
    
```

PDF Name: ORB4\_MOD

HERNDON VA HERNDON ZORBIT 02/17/2004  
 REMOTE VA REMOTE  
 39 0 56.0 77 25 42.0 72.30 6.10

Terrestrial Point To Point Frequencies:

3730.00V

```

=====
EARTH STATION      OWNER      GND      EDISCT  GES      FSLOSS  DIST PR      EPWR
LAT      LON      CALL      ACL      TDISCT  GTS      ESANT  AZ  MARGIN LL
=====
192 FALLS CHURCH VA  VATEC      125.0    56.3  -10.0   132.3   24.6 -136.3  23.0
   38 53 48  77 11 21 E970252    18.6   122.4   13.0   FCC32  302.6  -11.7   0.0
Short Margin:    -1.69 RCN: 96081407  Ohloss(20% / .01 %):  67.00  61.40
( 192) Status: L
   3700.00      4200.00      36M0F3F

193 LANHAM          MD  COMCMD      51.8    22.6   -2.6   138.8   51.6 -135.3  23.0
   38 57 46  76 50 11 E860364     4.6    96.3   13.0   S40502 276.7  -11.7   0.0
Short Margin:    -1.69 RCN: 85122350  Ohloss(20% / .01 %):  60.90  38.00
( 193) Status: L
   3700.00      4200.00      36M0F8W

194 FORT BELVOI   VA  AMGOSE      45.7    70.9  -10.0   136.4   39.3 -140.4  23.0
   38 44  2  77  9 11 E6572       6.7   142.5   13.0   FCC32  322.7  -11.6   0.0
Short Margin:    -1.60 RCN: 92102039  Ohloss(20% / .01 %):  80.00  57.20
( 194) Status: L
   3700.00      4200.00      1M06G7D

195 WILMINGTON    DE  P3210       4.6    13.2   -1.1   149.4   174.8 -144.5  23.0
   39 41 43  75 35 57 E970057     2.7    63.8   13.0   C40501 245.0  -11.5   0.0
Short Margin:    -1.54 RCN: 95060714  Ohloss(20% / .01 %):  63.30  27.30
( 195) Status: L
   3700.00      4200.00      36M0F8W

196 WASHINGTON    DC  SPROFV      3.0    44.0   -8.0   136.5   39.8 -138.5  23.0
   38 51 53  77  0 42 E980334     3.7   114.7   13.0   C40551 295.0  -11.5   0.0
Short Margin:    -1.49 RCN: 98032505  Ohloss(20% / .01 %):  63.70  39.60
( 196) Status: L
   3700.00      4200.00      36M0F8W

197 BREN MAR II   VA  P9194      61.0    61.2   -9.6   135.0   33.5 -138.6  23.0
   38 47 39  77  9 58 E2651       2.7   137.1   13.0   S40461 317.3  -11.4   0.0
Short Margin:      8.62 RCN:           Ohloss(20% / .01 %):  86.70  66.10
( 197) Status: L
   3700.00      4200.00      1M54G7D

198 TOWSON        MD  COMCMD     125.0    12.8    4.3   142.9   83.4 -132.6  23.0
   39 24 18  76 36 11 E7006       2.7    58.4   13.0   FCC29  239.0  -11.4   0.0
Short Margin:    -1.37 RCN:           Ohloss(20% / .01 %):  78.00  44.90
( 198) Status: L
   3700.00      4200.00      36M0F8W

199 PHILADELPHIA PA  ZSTAPR     74.7    16.5    1.6   151.4   219.9 -143.7  23.0
   40  0 24  75 12 54 E870866     3.7    59.2   13.0   S40451 240.7  -11.3   0.0
Short Margin:    -1.27 RCN: 86101469  Ohloss(20% / .01 %):  74.20  50.90
( 199) Status: L
    
```

PDF Name: ORB4\_MOD

HERNDON VA HERNDON ZORBIT 02/17/2004  
 REMOTE VA REMOTE  
 39 0 56.0 77 25 42.0 72.30 6.10

Terrestrial Point To Point Frequencies:

3730.00V

```

=====
EARTH STATION      OWNER      GND      EDISCT  GES      FSLOSS  DIST PR      EPWR
LAT      LON      CALL      ACL      TDISCT  GTS      ESANT  AZ  MARGIN LL
=====
3700.00      4200.00      36M0F8W

200 PHILADELPHIA PA      ZSTAPR      74.7      16.5      1.6      151.4      219.9 -143.8      23.0
40 0 24 75 12 54 E870866      5.2      59.2      13.0      S40701      240.7 -11.2      0.0
Short Margin:      -1.24 RCN: 86101449      Ohloss(20% / .01 %):      73.10      49.80
( 200) Status: L
3700.00      4200.00      36M0F8W

201 SPRINGFIELD VA      P9194      51.5      60.7      -9.9      135.0      33.5 -138.9      23.0
38 47 37 77 9 58 E910390      4.9      137.2      13.0      R40924      317.4 -11.1      0.0
Short Margin:      8.91 RCN: 91042403      Ohloss(20% / .01 %):      89.70      71.20
( 201) Status: L
3700.00      4200.00      10M0G7D

202 SPRINGFIELD VA      P9194      51.8      66.0      -9.9      135.0      33.5 -138.9      23.0
38 47 38 77 9 55 E2505      4.9      137.0      13.0      R40924      317.3 -11.1      0.0
Short Margin:      8.92 RCN: 93042216      Ohloss(20% / .01 %):      83.50      65.00
( 202) Status: L
3700.00      4200.00      1M54G7D

203 ALEXANDRIA VA      P9194      51.8      60.9      -9.9      135.0      33.6 -138.9      23.0
38 47 39 77 9 50 E910639      4.9      136.9      13.0      R40924      317.1 -11.1      0.0
Short Margin:      8.93 RCN: 98082008      Ohloss(20% / .01 %):      87.80      69.20
( 203) Status: L
3700.00      4200.00      10M0G7D

204 ROSSLYN VA      S91901      21.3      41.5      -7.1      135.0      33.3 -136.1      23.0
38 53 58 77 4 24 E6488      45.7      112.6      13.0      S40461      292.8 -10.9      0.0
Short Margin:      -0.92 RCN:      Ohloss(20% / .01 %):      68.10      63.60
( 204) Status: L
3700.00      4200.00      36M0F8W

205 PHILADELPHIA PA      RCNOPA      61.0      19.6      -0.3      151.0      211.7 -145.3      23.0
40 7 18 75 25 15 PHILADEL      2.7      53.9      13.0      FCC32      235.2 -10.7      0.0
Short Margin:      -0.68 RCN: 99051310      Ohloss(20% / .01 %):      69.10      44.90
( 205) Status: P
3700.00      4200.00      36M0G7F

206 LAUREL MD      HI      59.1      18.3      0.0      139.4      55.8 -133.4      23.0
39 5 43 76 47 31 E3324      2.7      80.6      13.0      F40501      261.1 -10.6      0.0
Short Margin:      -0.58 RCN:      Ohloss(20% / .01 %):      68.80      39.60
( 206) Status: L
3700.00      4200.00      36M0F8W
    
```

PDF Name: ORB4\_MOD

HERNDON VA HERNDON ZORBIT 02/17/2004  
 REMOTE VA REMOTE  
 39 0 56.0 77 25 42.0 72.30 6.10

Terrestrial Point To Point Frequencies:

3730.00V

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=====
EARTH STATION      OWNER      GND      EDISCT  GES      FSLOSS  DIST PR      EPWR
LAT      LON      CALL      ACL      TDISCT  GTS      ESANT  AZ  MARGIN LL
=====
207 ADELPHI      MD      ZTLNWK      57.9    25.5    -3.2    136.3   38.9 -133.5  23.0
    39 0 16    76 58 47 E5211      2.7     91.6    13.0    FCC32   271.9  -10.5   0.0
Short Margin:      -0.55 RCN:      Ohloss(20% / .01 %):  70.80  46.60
( 207) Status: L
    3700.00    4200.00    36M0F8W

208 PHILADELPHIA PA      RCNOPA      61.0    20.1    -0.6    151.0   211.5 -145.6  23.0
    40 7 25    75 25 33 E990243    2.7     53.8    13.0    FCC32   235.1  -10.4   0.0
Short Margin:      -0.39 RCN:      Ohloss(20% / .01 %):  68.20  44.50
( 208) Status: L
    3700.00    4200.00    36M0G7F

209 BALTIMORE    MD      S00433    152.4    19.1     0.5    141.3   69.2 -134.8  23.0
    39 23 10   76 47 3  BALTIMOR  4.6     53.3    13.0    A4045C  233.7  -10.2   0.0
Short Margin:      -0.24 RCN:      Ohloss(20% / .01 %):  69.70  38.70
( 209) Status: P
    3700.00    4200.00    36M0F8W

210 SILVER SPRIN MD      P6641      100.6    128.2   -10.5    135.3   34.6 -139.8  23.0
    38 59 30   77 1 47 E960165    50.6     94.2    13.0    P40241  274.5  -10.2   0.0
Short Margin:      -0.21 RCN: 95101914 Ohloss(20% / .01 %):  59.30  52.10
( 210) Status: L
    3700.00    4200.00    153KG7W

211 FAIRFAX-OX R VA      MEDIA      134.1    90.9   -10.0    129.8   18.4 -133.8  23.0
    38 51 18   77 22 25 E5228      4.9    165.1    13.0    FCC32   345.2  -10.2   0.0
Short Margin:      -0.18 RCN:      Ohloss(20% / .01 %):  64.10  60.20
( 211) Status: L
    3700.00    4200.00    36M0F8W

212 WASHINGTON    DC      ZTLNWK      57.9    32.0    -3.8    136.1   37.9 -133.9  23.0
    38 56 7    77 0 9 E7838      2.7    103.4    13.0    S40461  283.7  -10.1   0.0
Short Margin:      -0.09 RCN:      Ohloss(20% / .01 %):  77.30  53.40
( 212) Status: L
    3700.00    4200.00    36M0F8W

213 WASHINGTON    DC      RURWES      3.1     48.4    -9.6    136.5   39.8 -140.1  23.0
    38 51 53   77 0 40 E980335    5.5    114.7    13.0    R40924  295.0  -9.9   0.0
Short Margin:      0.09 RCN: 98051204 Ohloss(20% / .01 %):  63.80  40.20
( 213) Status: L
    3700.00    4200.00    36M0F8W

214 WASHINGTON    DC      ZAMFED      17.7    36.8    -6.5    135.6   36.0 -136.1  23.0
    38 54 14   77 2 15 E870123    27.1   109.9    13.0    C40381  290.2  -9.9   0.0
Short Margin:      0.10 RCN: 86090343 Ohloss(20% / .01 %):  68.90  56.60
( 214) Status: L
    
```

PDF Name: ORB4\_MOD

HERNDON VA HERNDON ZORBIT 02/17/2004  
 REMOTE VA REMOTE  
 39 0 56.0 77 25 42.0 72.30 6.10

Terrestrial Point To Point Frequencies:

3730.00V

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=====
EARTH STATION      OWNER      GND      EDISCT  GES      FSLOSS  DIST PR      EPWR
LAT      LON      CALL      ACL      TDISCT  GTS      ESANT  AZ  MARGIN LL
=====
3700.00      4200.00      36M0F8W

215 BALTIMORE MD      WBALTB      97.5      15.8      2.0      142.1      76.0 -134.1 23.0
39 20 5 76 39 1 E5408      2.7      61.9      13.0      FCC29      242.4 -9.9 0.0
Short Margin:      0.12 RCN:      Ohloss(20% / .01 %):      70.30 36.60
( 215) Status: L
3700.00      4200.00      36M0F8W

216 BALTIMORE MD      ZNVINC      109.7      15.5      1.7      141.9      74.5 -134.2 23.0
39 19 21 76 39 43 E5843      2.7      62.5      13.0      F40501      243.0 -9.8 0.0
Short Margin:      0.22 RCN:      Ohloss(20% / .01 %):      60.30 28.20
( 216) Status: L
3700.00      4200.00      36M0F8W

217 FREDERICKSBU VA      COXNVA      39.6      105.5 -10.0      142.3      77.9 -146.3 23.0
38 18 51 77 26 8 E020079      3.6      180.4      13.0      FCC32      0.5 -9.7 0.0
Short Margin:      0.33 RCN: 01051510      Ohloss(20% / .01 %):      72.20 39.80
( 217) Status: L
3700.00      4200.00      36M0G7F

218 NEW CARROLL MD      S91901      51.8      25.5 -2.7      137.7      45.5 -134.4 23.0
38 56 21 76 54 43 E8936      2.7      100.5      13.0      S40462      280.9 -9.6 0.0
Short Margin:      0.37 RCN:      Ohloss(20% / .01 %):      63.20 42.90
( 218) Status: L
3700.00      4200.00      36M0F8W

219 BALTIMORE MD      S18497      61.0      15.4      1.7      142.1      75.9 -134.4 23.0
39 19 53 76 38 55 E4444      2.7      62.2      13.0      F40501      242.7 -9.6 0.0
Short Margin:      0.39 RCN:      Ohloss(20% / .01 %):      74.90 42.50
( 219) Status: L
3700.00      4200.00      36M0F8W

220 PHILADELPHI PA      S00055      153.9      23.5 -2.3      150.1      191.4 -146.4 23.0
40 5 35 75 41 21 E3055      9.1      50.7      13.0      FCC32      231.9 -9.6 0.0
Short Margin:      2.44 RCN:      Ohloss(20% / .01 %):      63.10 36.00
( 220) Status: L
3700.00      4200.00      36M0F8W

221 MANASSAS VA      TELEC      61.0      91.3 -10.0      132.5      25.0 -136.5 23.0
38 47 58 77 30 29 E020335      4.0      196.1      13.0      FCC32      16.1 -9.5 0.0
Short Margin:      8.45 RCN: 02102906      Ohloss(20% / .01 %):      66.60 55.90
( 221) Status: L
3400.00      4200.00      8M10G1D
    
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PDF Name: ORB4\_MOD

HERNDON VA HERNDON ZORBIT 02/17/2004  
 REMOTE VA REMOTE  
 39 0 56.0 77 25 42.0 72.30 6.10

Terrestrial Point To Point Frequencies:

3730.00V

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=====
EARTH STATION      OWNER      GND      EDISCT  GES      FSLOSS  DIST PR      EPWR
LAT      LON      CALL      ACL      TDISCT  GTS      ESANT  AZ  MARGIN LL
=====
222  MCLEAN-TYSON VA  HI          152.4   52.5  -10.0  130.7  20.4 -134.7  23.0
     38 55 13  77 13 35 E2701      5.8   121.0  13.0  F40501 301.2  -9.5  0.0
     Short Margin: 0.51 RCN: Ohloss(20% / .01 %): 62.90 60.40
     ( 222) Status: L
     3700.00 4200.00 36M0F8W

223  CHILLUM HGTS MD  ZTLNWK     21.3   33.9  -4.1  136.5  39.6 -134.5  23.0
     38 57 28  76 58 36 E6036      2.7   99.1  13.0  S40461 279.4  -9.5  0.0
     Short Margin: 0.53 RCN: Ohloss(20% / .01 %): 68.90 44.60
     ( 223) Status: L
     3700.00 4200.00 36M0F8W

224  LEBANON PA COMCSO 178.0   35.2  -3.4  149.3  173.4 -146.7  23.0
     40 21 20  76 23 25 E010208 2.7  30.5  13.0  C40501 211.2  -9.3  0.0
     Short Margin: 0.66 RCN: 01050904 Ohloss(20% / .01 %): 61.10 32.30
     ( 224) Status: L
     3700.00 4200.00 36M07GF

225  ESSEX MD COMCMD 16.8   14.7  2.8  143.6  90.1 -134.8  23.0
     39 18 56  76 27 34 E7005      2.7  67.9  13.0  FCC29 248.6  -9.2  0.0
     Short Margin: 0.77 RCN: Ohloss(20% / .01 %): 60.70 27.60
     ( 225) Status: L
     3700.00 4200.00 36M0F8W

226  CHEVY CHASE MD HI 99.1   34.0  -6.8  134.1  30.0 -134.9  23.0
     38 57 52  77 5 17 E3750      2.7 100.7  13.0  F40501 281.0  -9.1  0.0
     Short Margin: 0.85 RCN: Ohloss(20% / .01 %): 63.90 54.10
     ( 226) Status: L
     3700.00 4200.00 36M0F8W

227  YORK PA FOXBRO 217.3  35.5  -6.8  146.1  120.5 -146.9  23.0
     39 56 25  76 41 47 E000437 3.1  31.2  13.0  FCC32 211.8  -9.1  0.0
     Short Margin: 3.89 RCN: 00040644 Ohloss(20% / .01 %): 57.90 24.80
     ( 227) Status: L
     3700.00 4200.00 36M0F8F

228  DOVER DE S99467 6.1   12.9  4.1  149.0  168.7 -139.0  23.0
     39 11 8  75 29 26 E960145 1.5  82.9  13.0  S40321 264.2  -9.0  0.0
     Short Margin: 0.97 RCN: 95113011 Ohloss(20% / .01 %): 58.60 22.30
     ( 228) Status: L
     3700.00 4200.00 36M0F8W

229  MT JACKSON VA SORNET 280.4  26.8  -3.6  145.4  111.2 -143.0  23.0
     38 43 42  78 39 23 MT JACKS 5.5 253.7  13.0  V40903 73.0  -9.0  0.0
     Short Margin: 1.04 RCN: 99040221 Ohloss(20% / .01 %): 73.10 40.10
     ( 229) Status: P
    
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PDF Name: ORB4\_MOD

HERNDON VA HERNDON ZORBIT 02/17/2004  
 REMOTE VA REMOTE  
 39 0 56.0 77 25 42.0 72.30 6.10

Terrestrial Point To Point Frequencies:

3730.00V

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=====
EARTH STATION      OWNER      GND      EDISCT  GES      FSLOSS  DIST PR      EPWR
LAT      LON      CALL      ACL      TDISCT  GTS      ESANT  AZ  MARGIN LL
=====
3700.00      4200.00      2M00F8W

230 BALTIMORE MD ZCCR      121.9  17.5   0.9  142.1  76.1 -135.2  23.0
    39 20 47  76 39 25 E2838      8.8   60.8  13.0  FCC32  241.4  -8.8  0.0
    Short Margin:      1.20 RCN:      Ohloss(20% / .01 %):      59.00  27.50
( 230) Status: L
    3700.00      4200.00      36M0F8W

231 BALTIMORE MD ZBALDI    118.9  16.9   1.2  142.4  78.2 -135.2  23.0
    39 21 34  76 38 19 E859874    3.0   60.5  13.0  C40507 241.0  -8.8  0.0
    Short Margin:      1.21 RCN:      Ohloss(20% / .01 %):      61.50  32.20
( 231) Status: L
    3700.00      4200.00      36M0F8W

232 WEST CHESTER PA CABLCC      0.0   20.2   8.9  150.2  193.1 -135.3  23.0
    40 0 25  75 35 2 E8916      2.7   54.6  13.0  T40501 235.8  -8.7  0.0
    Short Margin:      1.30 RCN:      Ohloss(20% / .01 %):      121.30  95.90
( 232) Status: L
    3700.00      4200.00      36M0F8W

233 ABERDEEN MD COMHAR      85.3  16.6   1.5  145.9  117.6 -138.4  23.0
    39 31 33  76 14 4 WH58      4.6   60.8  13.0  FCC29  241.6  -8.6  0.0
    Short Margin:      1.40 RCN:      Ohloss(20% / .01 %):      64.20  31.70
( 233) Status: L
    3700.00      4200.00      36M0F8W

234 BALTIMORE MD TELEC      18.3  12.0   5.0  142.5  78.9 -131.4  23.0
    39 15 4  76 34 2 E000357    21.3  70.3  13.0  FCC32  250.9  -8.6  0.0
    Short Margin:      1.43 RCN: 00040632 Ohloss(20% / .01 %):      60.40  29.40
( 234) Status: L
    3700.00      4200.00      8M10G1D

235 CLKS/L1 MD INTELS    147.5  36.1  -8.6  132.9  26.2 -135.5  23.0
    39 13 1  77 16 13 CLKS/L1    5.2   31.3  13.0  V40901 211.4  -8.5  0.0
    Short Margin:      1.46 RCN: 92100229 Ohloss(20% / .01 %):      43.60  38.80
( 235) Status: P
    3700.00      4200.00      36M0F8W

236 FAIRFAX VA S03670    128.0  79.6 -10.0  131.7  22.9 -135.7  23.0
    38 49 53  77 18 31 E3431      2.7  153.0  13.0  FCC32  333.2  -8.3  0.0
    Short Margin:      1.71 RCN:      Ohloss(20% / .01 %):      75.70  66.10
( 236) Status: L
    3700.00      4200.00      36M0F8W
    
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PDF Name: ORB4\_MOD

HERNDON VA HERNDON ZORBIT 02/17/2004  
 REMOTE VA REMOTE  
 39 0 56.0 77 25 42.0 72.30 6.10

Terrestrial Point To Point Frequencies:

3730.00V

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=====
EARTH STATION      OWNER      GND      EDISCT  GES      FSLOSS  DIST PR      EPWR
LAT      LON      CALL      ACL      TDISCT  GTS      ESANT  AZ  MARGIN LL
=====
237 FALLS CHURCH VA      ZNOVAC    121.9    57.2   -10.0   131.8   23.1 -135.8  23.0
    38 53 55  77 12 28 E890196    2.7   124.1   13.0   FCC32   304.3   -8.2   0.0
Short Margin:      1.77 RCN:      Ohloss(20% / .01 %):  71.60  61.80
( 237) Status: L
    3700.00      4200.00      36M0F8W

238 ESSEX      MD      COMCMD    16.8    14.7    2.8   143.6   90.1 -134.8  23.0
    39 18 56  76 27 34 E7005     2.7    67.9   13.0   FCC29   248.6   -8.2   0.0
Short Margin:      1.77 RCN:      Ohloss(20% / .01 %):  60.70  27.60
( 238) Status: L
    3700.00      4200.00      36M0F8W

239 HAGERSTOWN MD      ANTCAB    158.5    42.9   -0.2   141.6   71.9 -135.8  23.0
    39 37 33  77 42 23 WH42     2.7   340.5   13.0   T40501 160.4   -8.2   0.0
Short Margin:      1.81 RCN:      Ohloss(20% / .01 %):  34.60  24.90
( 239) Status: L
    3700.00      4200.00      36M0F8W

240 WASHINGTON DC      S91901    18.3    35.2   -6.5   135.3   34.8 -135.9  23.0
    38 54 20  77 3 9 SPC170    38.1   110.4   13.0   S40462 290.7   -8.1   0.0
Short Margin:      1.86 RCN:      Ohloss(20% / .01 %):  69.30  63.40
( 240) Status: P
    3700.00      4200.00      36M0F8W

241 MERRIFIELD VA      MEDIA     105.2    61.3  -10.0   131.9   23.3 -135.9  23.0
    38 52 22  77 13 50 E5210     2.7   132.7   13.0   FCC32   312.8   -8.1   0.0
Short Margin:      1.86 RCN:      Ohloss(20% / .01 %):  68.10  58.30
( 241) Status: L
    3700.00      4200.00      36M0F8W

242 BALTIMORE MD      SHEBRO     6.1     9.9    0.1   143.1   85.0 -137.0  23.0
    39 18 30  76 31 9 E860830    2.7    67.2   13.0   H40301 247.8   -8.0   0.0
Short Margin:      1.97 RCN:      Ohloss(20% / .01 %):  65.60  30.60
( 242) Status: L
    3700.00      4200.00      36M0F8W

243 COATSVILLE PA      CABLCC    176.8    23.6    7.6   149.5   178.4 -136.0  23.0
    40 1 26  75 48 44 E8944     2.7    50.6   13.0   T40501 231.7   -8.0   0.0
Short Margin:      1.97 RCN:      Ohloss(20% / .01 %):  63.10  34.90
( 243) Status: L
    3700.00      4200.00      36M0F8W

244 TOWSON      MD      COMCMD    125.0    17.4    1.0   142.9   83.4 -136.0  23.0
    39 24 18  76 36 11 E7006     2.7    58.4   13.0   FCC29   239.0   -8.0   0.0
Short Margin:      1.97 RCN:      Ohloss(20% / .01 %):  78.00  44.90
( 244) Status: L
    
```

PDF Name: ORB4\_MOD

HERNDON VA HERNDON ZORBIT 02/17/2004  
 REMOTE VA REMOTE  
 39 0 56.0 77 25 42.0 72.30 6.10

Terrestrial Point To Point Frequencies:

3730.00V

```

=====
EARTH STATION      OWNER      GND      EDISCT  GES      FSLOSS  DIST PR      EPWR
LAT      LON      CALL      ACL      TDISCT  GTS      ESANT  AZ  MARGIN LL
=====
3700.00      4200.00      36M0F8W

245  BREN MAR      VA      P9194      63.4    61.2  -13.0  135.0  33.5 -142.0  23.0
     38 47 41  77 9 56 K5199      4.9    137.0  13.0  R40921 317.2  -8.0  0.0
     Short Margin:      2.00 RCN: 97111013  Ohloss(20% / .01 %):  71.50  53.10
( 245) Status: P
     3700.00      4200.00      10M0G7D

246  ST COLLEGE   PA      ZACCUW     374.9   40.2  -7.6  150.5  200.1 -152.1  23.0
     40 46 53  77 53 44 E980113  11.9   348.6  13.0  P40241 168.3  -7.9  0.0
     Short Margin:      2.09 RCN: 97091509  Ohloss(20% / .01 %):  70.10  44.70
( 246) Status: L
     3700.00      4200.00      36M0G7W

247  WASHINGTON    DC      S91901     18.3    34.5  -6.7  135.4  35.1 -136.1  23.0
     38 54 20  77 2 56 E5664      21.0   110.2  13.0  S40506 290.5  -7.9  0.0
     Short Margin:      2.11 RCN:           Ohloss(20% / .01 %):  71.10  62.70
( 247) Status: L
     3700.00      4200.00      36M0F8W

248  SHENANDOAH  VA      P5192      280.4   26.8  -2.7  145.4  111.3 -142.1  23.0
     38 43 45  78 39 25 E010140  11.0   253.7  13.0  U41831 73.0  -7.9  0.0
     Short Margin:      12.15 RCN: 00042441 Ohloss(20% / .01 %):  72.80  39.80
( 248) Status: L
     3700.00      4200.00      18M0F8W  36M0F8W

249  CATONSVILLE  MD      ZNVINC     152.4   15.5   1.6  140.8  65.2 -133.2  23.0
     39 17 15  76 45 36 E5842      3.7    62.1  13.0  F40701 242.6  -7.8  0.0
     Short Margin:      2.21 RCN:           Ohloss(20% / .01 %):  58.60  31.80
( 249) Status: L
     3700.00      4200.00      36M0F8W

250  CARLTON/SHE  DC      S91901     18.3    35.2  -6.5  135.7  36.3 -136.2  23.0
     38 54 7  77 2 9 E7735      32.0   110.2  13.0  S40462 290.5  -7.8  0.0
     Short Margin:      2.23 RCN:           Ohloss(20% / .01 %):  69.20  61.90
( 250) Status: L
     3700.00      4200.00      36M0F8W

251  WASHINGTON    DC      S00433     18.3    35.2  -6.6  135.6  35.8 -136.2  23.0
     38 54 17  77 2 26 E4466      4.6   109.9  13.0  FCC32 290.2  -7.8  0.0
     Short Margin:      2.23 RCN:           Ohloss(20% / .01 %):  68.80  47.70
( 251) Status: L
     3700.00      4200.00      36M0F8W
    
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PDF Name: ORB4\_MOD

HERNDON VA HERNDON ZORBIT 02/17/2004  
 REMOTE VA REMOTE  
 39 0 56.0 77 25 42.0 72.30 6.10

Terrestrial Point To Point Frequencies:

3730.00V

```

=====
EARTH STATION      OWNER      GND      EDISCT  GES      FSLOSS  DIST PR      EPWR
LAT      LON      CALL      ACL      TDISCT  GTS      ESANT  AZ  MARGIN LL
=====
252  BETHESDA      MD      ZWDCA      93.9    34.0    -6.3    133.6  28.6 -134.0  23.0
     38 57 47  77 6 16 E2660      3.7    101.6   13.0    H40601 281.8  -7.7  0.0
     Short Margin: 2.25 RCN: Ohloss(20% / .01 %): 67.00 53.50
     ( 252) Status: L
     3700.00 4200.00 36M0F8W

253  WASHINGTON     DC      NBCWRC     115.8   38.5    -7.9    134.4  31.2 -136.3  23.0
     38 56 24  77 4 53 E3016      2.7    105.4   13.0    H40501 285.7  -7.7  0.0
     Short Margin: 2.28 RCN: Ohloss(20% / .01 %): 75.40 57.20
     ( 253) Status: R
     3700.00 4200.00 36M0F8W

254  BELTSVILLE  MD      P5192      48.8    105.4   -10.0   138.3  48.9 -142.3  23.0
     39 2 48  76 51 52 E030002  11.0   85.7   13.0    U41831 266.1  -7.7  0.0
     Short Margin: 2.30 RCN: 02102804 Ohloss(20% / .01 %): 59.70 34.60
     ( 254) Status: L
     3700.00 4200.00 43K8G7W

255  CRYSTAL GAT   VA      S91901     15.2    44.8    -9.5    135.9  37.0 -139.3  23.0
     38 51 27  77 3 8 E5666      4.6   118.1   13.0    S40501 298.4  -7.7  0.0
     Short Margin: 2.33 RCN: Ohloss(20% / .01 %): 68.40 48.10
     ( 255) Status: L
     3700.00 4200.00 36M0F8W

256  CRYSTAL CIT  VA      S91901     15.2    44.8    -9.5    135.9  37.2 -139.4  23.0
     38 51 22  77 3 0 E5694      4.6   118.2   13.0    S40501 298.5  -7.6  0.0
     Short Margin: 2.39 RCN: Ohloss(20% / .01 %): 68.00 47.30
     ( 256) Status: L
     3700.00 4200.00 36M0F8W

257  EMMAUS        PA      SAMMPA     268.2   26.1     6.6    152.0  236.6 -139.4  23.0
     40 31 30  75 28 44 E8035      3.7   44.2   13.0    T40501 225.5  -7.6  0.0
     Short Margin: 2.44 RCN: Ohloss(20% / .01 %): 86.70 64.50
     ( 257) Status: L
     3700.00 4200.00 36M0F8W

258  ANNAPOLIS R  MD      COMCMD     10.4    25.2    -3.0    142.4  78.8 -139.5  23.0
     38 58 30  76 31 11 WH74      4.6   92.9   13.0    FCC29  273.6  -7.5  0.0
     Short Margin: 2.48 RCN: Ohloss(20% / .01 %): 59.40 26.90
     ( 258) Status: L
     3700.00 4200.00 36M0F8W

259  BELTSVILLE  MD      P5192      48.8    113.1   -11.4   138.3  48.9 -143.7  23.0
     39 2 48  76 51 52 E970431  7.6   85.7   13.0    R41136 266.1  -7.3  0.0
     Short Margin: 2.66 RCN: 97042807 Ohloss(20% / .01 %): 59.70 33.90
     ( 259) Status: L
    
```

PDF Name: ORB4\_MOD

HERNDON VA HERNDON ZORBIT 02/17/2004  
 REMOTE VA REMOTE  
 39 0 56.0 77 25 42.0 72.30 6.10

Terrestrial Point To Point Frequencies:

3730.00V

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=====
EARTH STATION      OWNER      GND      EDISCT  GES      FSLOSS  DIST PR      EPWR
LAT      LON      CALL      ACL      TDISCT  GTS      ESANT  AZ  MARGIN LL
=====
3700.00      4200.00      76K8G7D  2M45G7D

260  WSHNGTON GR  DC      S91901      6.1  35.0  -6.5  136.2  38.5 -136.7  23.0
    38 53 48  77 0 38 SPC224      2.7  109.8  13.0  S40462 290.1  -7.3  0.0
    Short Margin:      2.73 RCN:      Ohloss(20% / .01 %):      69.70  46.90
( 260) Status: P
    3700.00      4200.00      36M0F8W

261  DOVER      DE      COMDEL      0.0  11.0  6.0  148.7  162.6 -136.7  23.0
    39 12 3  75 33 48 WM99      4.6  82.1  13.0  FCC32  263.3  -7.3  0.0
    Short Margin:      2.75 RCN:      Ohloss(20% / .01 %):      66.70  37.90
( 261) Status: L
    3700.00      4200.00      36M0F8W

262  CHANTILLY VA      S06972      82.0  112.6 -10.0  127.8  14.6 -131.8  23.0
    38 53 6  77 26 37 E000571      1.8  185.2  13.0  FCC32  5.2  -7.2  0.0
    Short Margin:      0.77 RCN: 00051931 Ohloss(20% / .01 %):      95.10  91.00
( 262) Status: L
    3700.00      4200.00      180KF2D

263  ROANOKE      VA      COXROA      302.5  96.9  -1.1  153.9  294.6 -149.0  23.0
    37 16 53  79 58 22 E010316      2.7  229.9  13.0  T40501 48.4  -7.0  0.0
    Short Margin:      2.98 RCN: 01092732 Ohloss(20% / .01 %):      83.30  64.30
( 263) Status: L
    3700.00      4200.00      36M0F8F

264  LENNOX 2      WV      VIOLIC      647.0  9.8  7.3  150.3  195.4 -137.1  23.0
    39 34 7  79 34 44 KA413      18.0  288.9  13.0  FCC32  107.6  -6.9  0.0
    Short Margin:      3.06 RCN:      Ohloss(20% / .01 %):      76.10  49.80
( 264) Status: L
    3625.00      4200.00      11M2G7W

265  BREN MAR II VA      P9194      48.8  142.1 -20.0  135.1  33.7 -149.1  23.0
    38 47 38  77 9 44 KA277      10.7  136.7  13.0  U41831 316.9  -6.9  0.0
    Short Margin:      3.06 RCN: 93042208 Ohloss(20% / .01 %):      81.50  66.20
( 265) Status: L
    3700.00      4200.00      36M0F8W

266  WASHINGTON DC      ZUSIA      12.2  36.8  -7.1  136.1  37.8 -137.2  23.0
    38 53 41  77 1 12 WASHINT      45.7  110.6  13.0  FCC32  290.9  -6.8  0.0
    Short Margin:      3.21 RCN: 95040422 Ohloss(20% / .01 %):      67.80  61.20
( 266) Status: L
    3700.00      4200.00      36M0F8W
    
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PDF Name: ORB4\_MOD

HERNDON VA HERNDON ZORBIT 02/17/2004  
 REMOTE VA REMOTE  
 39 0 56.0 77 25 42.0 72.30 6.10

Terrestrial Point To Point Frequencies:

3730.00V

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=====
EARTH STATION      OWNER      GND      EDISCT  GES      FSLOSS  DIST PR      EPWR
LAT      LON      CALL      ACL      TDISCT  GTS      ESANT  AZ  MARGIN LL
=====
267 WASHINGTON DC HI 7.6 36.8 -7.1 136.2 38.3 -137.3 23.0
38 53 8 77 1 9 E7721 2.7 112.0 13.0 FCC32 292.3 -6.7 0.0
Short Margin: 3.31 RCN: Ohloss(20% / .01 %): 64.20 40.20
( 267) Status: L
3700.00 4200.00 36M0F8W

268 HARRISBURG PA HARSTV 97.7 35.1 -5.3 148.0 149.7 -147.3 23.0
40 17 57 76 53 43 HARRISBU 8.3 17.6 13.0 A40731 198.0 -6.7 0.0
Short Margin: 16.34 RCN: 02013151 Ohloss(20% / .01 %): 60.50 30.20
( 268) Status: P
3700.00 4200.00 36M0F9W

269 HARRISONBURG VA WMRVA 417.6 90.9 -8.1 147.4 139.8 -149.5 23.0
38 26 27 78 51 30 E030319 2.5 243.2 13.0 C40381 62.4 -6.5 0.0
Short Margin: 3.52 RCN: 03111915 Ohloss(20% / .01 %): 64.70 33.90
( 269) Status: L
3700.00 4200.00 10M3G7W

270 FALLS CHURCH VA ZWFAX 96.0 53.7 -10.5 133.1 26.9 -137.6 23.0
38 52 47 77 10 16 E7049 1.8 123.9 13.0 S40301 304.2 -6.4 0.0
Short Margin: 3.60 RCN: 99061510 Ohloss(20% / .01 %): 71.50 61.70
( 270) Status: L
3700.00 4200.00 36M0F8W

271 FALLS CHURC VA ZWFAX 96.0 53.7 -10.5 133.1 26.9 -137.6 23.0
38 52 47 77 10 15 E7049 1.8 123.9 13.0 S40301 304.1 -6.4 0.0
Short Margin: 3.61 RCN: Ohloss(20% / .01 %): 71.40 61.50
( 271) Status: L
3700.00 4200.00 36M0F8W

272 HARRISBURG PA S84550 164.6 39.1 -7.8 147.8 146.3 -149.6 23.0
40 14 26 76 47 57 HARRISBU 5.5 21.4 13.0 FCC32 201.9 -6.4 0.0
Short Margin: 3.62 RCN: 03100352 Ohloss(20% / .01 %): 57.80 26.20
( 272) Status: P
3700.00 4200.00 1M85G7D 36M0F8W

273 CHARLES TOWN WV CHATOW 157.6 45.9 -9.5 138.2 48.1 -141.7 23.0
39 17 47 77 51 6 E970435 2.7 310.5 13.0 FCC32 130.3 -6.3 0.0
Short Margin: 3.70 RCN: 97073138 Ohloss(20% / .01 %): 64.80 45.30
( 273) Status: L
3700.00 4200.00 36M0F8W

274 ELKTON MD COMELK 61.0 13.3 4.2 147.9 148.4 -137.7 23.0
39 37 13 75 53 37 E4318 3.7 62.6 13.0 S40501 243.6 -6.3 0.0
Short Margin: 3.70 RCN: Ohloss(20% / .01 %): 59.00 21.70
( 274) Status: L
    
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PDF Name: ORB4\_MOD

HERNDON VA HERNDON ZORBIT 02/17/2004  
 REMOTE VA REMOTE  
 39 0 56.0 77 25 42.0 72.30 6.10

Terrestrial Point To Point Frequencies:

3730.00V

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=====
EARTH STATION      OWNER      GND      EDISCT  GES      FSLOSS  DIST PR      EPWR
LAT      LON      CALL      ACL      TDISCT  GTS      ESANT  AZ  MARGIN LL
=====
3700.00      4200.00      36M0F8W

275  PURCELLVILLE VA      MIACO      163.1   56.0  -10.4  133.4   27.7 -137.8  23.0
     39  8  31  77  42  15  E890637      2.7  300.5  13.0  S40451 120.4   -6.2   0.0
     Short Margin:      3.76 RCN: 88112150  Ohloss(20% / .01 %):  47.70  42.60
( 275) Status: L
     3700.00      4200.00      36M0F8W

276  ARLINGTON      VA      SVATEC      117.3   31.2   -5.5  134.3   30.8 -133.8  23.0
     38  55  58  77  5  18  E890106      21.3  107.2  13.0  S40281 287.4   -6.2   0.0
     Short Margin:      3.79 RCN: 88090643  Ohloss(20% / .01 %):  46.80  41.10
( 276) Status: L
     3700.00      4200.00      36M0F8W

277  BALTIMORE      MD      HWBALT      91.4    17.0    1.3  142.1   76.0 -134.8  23.0
     39  20  5  76  38  59  E859871      3.7   61.9  13.0  S40701 242.5   -6.2   0.0
     Short Margin:      3.83 RCN:      Ohloss(20% / .01 %):  69.00  36.80
( 277) Status: L
     3700.00      4200.00      36M0F8W

278  FT MEYER      VA      COMCVA      66.4    41.5   -8.8  135.0   33.6 -137.8  23.0
     38  52  42  77  4  57  E860208      2.7  116.8  13.0  S40501 297.0   -6.2   0.0
     Short Margin:      3.84 RCN:      Ohloss(20% / .01 %):  67.20  46.50
( 278) Status: L
     3700.00      4200.00      36M0F8W

279  LEBANON      PA      COMCPA      178.0   35.2   -6.7  149.3  173.4 -149.9  23.0
     40  21  20  76  23  25  LEBANON      2.7   30.5  13.0  FCC32  211.2   -6.1   0.0
     Short Margin:      3.94 RCN: 01022835  Ohloss(20% / .01 %):  61.10  32.30
( 279) Status: P
     3700.00      4200.00      36M07GF

280  OXFORD      PA      S06475      129.5   18.5    0.9  147.9  147.7 -141.0  23.0
     39  46  3  76  0  51  E920561      2.4   55.1  13.0  S40321 236.0   -6.0   0.0
     Short Margin:      3.99 RCN: 92061814  Ohloss(20% / .01 %):  69.50  39.50
( 280) Status: L
     3700.00      4200.00      36M0F8W

281  BALTIMORE      MD      S06972      6.1    13.9    3.2  142.3   77.2 -133.0  23.0
     39  17  46  76  36  41  E6176      24.1   65.9  13.0  P40301 246.4   -6.0   0.0
     Short Margin:      2.03 RCN:      Ohloss(20% / .01 %):  66.50  34.90
( 281) Status: L
     3700.00      4200.00      180KF2D
    
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PDF Name: ORB4\_MOD

HERNDON VA HERNDON ZORBIT 02/17/2004  
 REMOTE VA REMOTE  
 39 0 56.0 77 25 42.0 72.30 6.10

Terrestrial Point To Point Frequencies:

3730.00V

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=====
      EARTH STATION      OWNER      GND      EDISCT  GES      FSLOSS  DIST PR      EPWR
      LAT      LON      CALL      ACL      TDISCT  GTS      ESANT  AZ  MARGIN LL
=====
282  GLOUCESTER  NJ      COMWIL      6.1    13.2    4.3    151.4  222.1 -141.1  23.0
     39 53 42  75 6 40 E3789      3.7    63.1    13.0    S40501  244.6  -5.9  0.0
     Short Margin:      4.09 RCN:      Ohloss(20% / .01 %):  63.90  40.60
     ( 282) Status: L
     3700.00      4200.00      36M0F8W

283  ALLENTOWN   PA      RCNONY     152.4   26.4   -3.5   152.6  253.4 -150.1  23.0
     40 42 19  75 26 15 E6527      8.1    41.6    13.0    FCC32   222.9  -5.9  0.0
     Short Margin:      4.12 RCN:      Ohloss(20% / .01 %):  69.20  47.90
     ( 283) Status: L
     3700.00      4200.00      36M0F8W

284  PHILADELPHIA PA      SCHDP      5.8     13.1    4.0    151.3  218.8 -141.3  23.0
     39 56 43  75 11 11 E890562  23.2   61.1    13.0    FCC29   242.6  -5.7  0.0
     Short Margin:      4.26 RCN: 89013125 Ohloss(20% / .01 %):  63.80  39.80
     ( 284) Status: L
     3700.00      4200.00      36M0F8W

285  WASHINGTON   DC      COCADI     39.6    31.9   -9.7   135.6   36.0 -139.3  23.0
     38 55 13  77 1 52 E881128  3.1   106.9   13.0    S40452  287.2  -5.7  0.0
     Short Margin:      4.33 RCN: 88033122 Ohloss(20% / .01 %):  79.30  56.40
     ( 285) Status: L
     3700.00      4200.00      36M0F8W

286  KING PRUSSI  PA      SGTEGV     64.0    20.1   -5.3   151.0  212.1 -150.3  23.0
     40 6 20  75 24 4 E7132      5.5    54.5    13.0    A40931  235.9  -5.7  0.0
     Short Margin:      6.34 RCN:      Ohloss(20% / .01 %):  64.80  41.00
     ( 286) Status: L
     3700.00      4200.00      36M0F8W

287  ANNAPOLIS   MD      ZSPACA     10.1    22.3   -1.7   142.7   80.9 -138.4  23.0
     38 58 8  76 29 46 E7340      2.7    93.3    13.0    FCC32   274.0  -5.6  0.0
     Short Margin:      4.38 RCN:      Ohloss(20% / .01 %):  54.70  21.70
     ( 287) Status: L
     3700.00      4200.00      36M0F8W

288  READING      PA      COMCPA     79.2    28.5    5.6    150.3  194.1 -138.7  23.0
     40 21 59  75 59 34 E990014  4.0    38.9    13.0    T40501  219.8  -5.3  0.0
     Short Margin:      4.66 RCN: 98111302 Ohloss(20% / .01 %):  69.00  43.50
     ( 288) Status: L
     3700.00      4200.00      36M0F8F

289  BALTIMORE (  MD      S06390    102.7   15.5    2.2    141.9   74.3 -133.7  23.0
     39 19 8  76 39 43 WM25      5.5    62.7    13.0    FCC32   243.3  -5.3  0.0
     Short Margin:      2.69 RCN:      Ohloss(20% / .01 %):  60.50  28.80
     ( 289) Status: R
    
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PDF Name: ORB4\_MOD

HERNDON VA HERNDON ZORBIT 02/17/2004  
 REMOTE VA REMOTE  
 39 0 56.0 77 25 42.0 72.30 6.10

Terrestrial Point To Point Frequencies:

3730.00V

```

=====
EARTH STATION      OWNER      GND      EDISCT  GES      FSLOSS  DIST PR      EPWR
LAT      LON      CALL      ACL      TDISCT  GTS      ESANT  AZ  MARGIN LL
=====
3700.00      4200.00      200KF3E

290 PHILADELPHIA PA      ZWKBS      4.6      13.1      3.5      151.2  216.8 -141.7  23.0
39 54 49 75 11 30 E5827      4.6      61.9      13.0      S40701  243.3 -5.3  0.0
Short Margin:      4.73 RCN:      Ohloss(20% / .01 %):  106.00  82.50
( 290) Status: L
3700.00      4200.00      36M0F8W

291 TOUGHKENAMO PA      ADELGL      146.3      16.8      1.4      149.1  170.2 -141.7  23.0
39 50 11 75 45 30 E2852      4.6      57.1      13.0      FCC29  238.2 -5.3  0.0
Short Margin:      4.75 RCN:      Ohloss(20% / .01 %):  59.10  29.60
( 291) Status: L
3700.00      4200.00      36M0F8W

292 PHILADELPHIA PA      S10813      11.6      13.1      5.6      151.4  222.0 -139.8  23.0
39 57 15 75 9 1 E930490      21.3      61.2      13.0      C40381  242.7 -5.2  0.0
Short Margin:      4.79 RCN: 93072815 Ohloss(20% / .01 %):  64.00  40.10
( 292) Status: L
3700.00      4200.00      36M0F8W

293 ALLENTOWN PA      WMUHFM      146.9      26.5      -4.7      152.1  240.3 -150.8  23.0
40 35 47 75 30 40 E040047      8.6      42.4      13.0      C40381  223.7 -5.2  0.0
Short Margin:      4.80 RCN: 04011317 Ohloss(20% / .01 %):  68.40  45.70
( 293) Status: A
3700.00      4200.00      10M3G7W

294 NEW KENSIN PA      P5814      384.1      38.2      -8.1      152.8  261.0 -154.9  23.0
40 32 1 79 45 16 E890933      2.1      310.9      13.0      C40551  129.5 -5.1  0.0
Short Margin:      4.91 RCN: 95111535 Ohloss(20% / .01 %):  81.40  60.90
( 294) Status: L
3700.00      4200.00      36M0F8W

295 ALEXANDRIA VA      ATCTEL      49.0      61.1      -10.0      135.0  33.5 -139.0  23.0
38 47 36 77 9 58 E990305      9.8      137.2      13.0      FCC32  317.4 -5.0  0.0
Short Margin:      5.02 RCN: 99022517 Ohloss(20% / .01 %):  84.20  68.70
( 295) Status: L
3700.00      4200.00      10M0G7D

296 ALEXANDRIA VA      P9194      48.8      141.2      -10.0      135.1  33.7 -139.1  23.0
38 47 38 77 9 44 E970267      6.7      136.7      13.0      FCC32  316.9 -4.9  0.0
Short Margin:      5.06 RCN: 01041735 Ohloss(20% / .01 %):  84.70  67.30
( 296) Status: L
3625.00      3700.00      10M0G7W
    
```



PDF Name: ORB4\_MOD

HERNDON VA HERNDON ZORBIT 02/17/2004  
 REMOTE VA REMOTE  
 39 0 56.0 77 25 42.0 72.30 6.10

Terrestrial Point To Point Frequencies:

3730.00V

```

=====
EARTH STATION      OWNER      GND      EDISCT  GES      FSLOSS  DIST PR      EPWR
LAT      LON      CALL      ACL      TDISCT  GTS      ESANT  AZ  MARGIN LL
=====
297 SILVER SPRG MD    WUSATV    109.7    14.4    -8.5    136.7    40.5 -139.2  23.0
   39 3 26 76 57 47 E860716    3.7    83.2    13.0    V40611 263.6    -4.8    0.0
Short Margin:      5.16 RCN: 86031799    Ohloss(20% / .01 %):  60.30  36.00
( 297) Status: L
   3700.00      4200.00      36M0F8W

298 BALTIMORE MD    S06390    73.8    15.5    2.3    142.8    81.7 -134.5  23.0
   39 20 42 76 34 58 WN55    5.5    63.1    13.0    FCC32 243.7    -4.5    0.0
Short Margin:      3.48 RCN:      Ohloss(20% / .01 %):  63.10  30.30
( 298) Status: L
   3700.00      4200.00      200KF3E

299 SILVER SPRIN MD    ZAPPTE    147.2    144.3    -10.0    136.5    39.7 -140.5  23.0
   39 6 10 76 58 58 SILVER S 4.3    75.7    13.0    FCC32 256.0    -4.5    0.0
Short Margin:      5.49 RCN: 94080313    Ohloss(20% / .01 %):  35.00  27.50
( 299) Status: A
   3700.00      4200.00      36M0F8W

300 PRINCESS ANN MD    UMDES      4.6    45.2    -8.1    149.4    176.4 -151.5  23.0
   38 12 38 75 40 57 E030338    2.7    119.9    13.0    C40381 301.0    -4.5    0.0
Short Margin:      5.54 RCN: 03112501    Ohloss(20% / .01 %):  59.40  32.10
( 300) Status: L
   3700.00      4200.00      30K0F1D 10M3G7W

301 HARRISBURG PA    HARSTV    97.7    33.1    -7.6    148.0    149.7 -149.6  23.0
   40 17 57 76 53 43 HARRISBU 5.3    17.6    13.0    A4045C 198.0    -4.4    0.0
Short Margin:      15.64 RCN: 02013152    Ohloss(20% / .01 %):  60.80  30.70
( 301) Status: P
   3700.00      4200.00      36M0F9W

302 WASHINGTON DC    BLKENT    30.5    31.8    -5.2    136.4    39.4 -135.7  23.0
   38 54 57 76 59 29 WASHINGT 7.0    106.1    13.0    S40701 286.4    -4.3    0.0
Short Margin:      5.65 RCN: 93102248    Ohloss(20% / .01 %):  67.40  44.70
( 302) Status: P
   3700.00      4200.00      36M0F8W

303 SPRINGFIELD VA    ALLNEW    61.0    75.8    -10.0    135.7    36.1 -139.7  23.0
   38 44 22 77 12 29 E910474    2.1    148.0    13.0    FCC29 328.1    -4.3    0.0
Short Margin:      5.66 RCN: 91061828    Ohloss(20% / .01 %):  75.40  51.80
( 303) Status: L
   3700.00      4200.00      36M0F8W

304 SPRINGFIELD VA    ALLNEW    61.0    75.8    -10.0    135.7    36.1 -139.7  23.0
   38 44 22 77 12 29 E910474    2.7    148.0    13.0    V40461 328.1    -4.3    0.0
Short Margin:      5.66 RCN: 91061828    Ohloss(20% / .01 %):  74.70  51.40
( 304) Status: L
    
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PDF Name: ORB4\_MOD

HERNDON VA HERNDON ZORBIT 02/17/2004  
 REMOTE VA REMOTE  
 39 0 56.0 77 25 42.0 72.30 6.10

Terrestrial Point To Point Frequencies:

3730.00V

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=====
EARTH STATION      OWNER      GND      EDISCT  GES      FSLOSS  DIST PR      EPWR
LAT      LON      CALL      ACL      TDISCT  GTS      ESANT  AZ  MARGIN LL
=====
3700.00      4200.00      36M0F8W

305  CRYSTAL CTY MD      S91901      9.1      44.9      -9.9      136.0      37.4 -139.8  23.0
     38 50 59  77  3  7 E5685      63.7      119.3      13.0      S40506 299.5      -4.2  0.0
     Short Margin:      5.83 RCN:      Ohloss(20% / .01 %):      66.30  61.30
( 305) Status: L
     3700.00      4200.00      36M0F8W

306  WILMINGTON DE      COMLCI      21.3      13.2      3.5      149.5      177.3 -140.0  23.0
     39 42 12  75 34 18 E871088      3.1      63.9      13.0      S40505 245.1      -4.0  0.0
     Short Margin:      5.98 RCN: 86111734 Ohloss(20% / .01 %):      61.80  34.10
( 306) Status: L
     3700.00      4200.00      36M0F8W

307  JOHNSTOWN PA      FOXBRO      606.5      40.2      -8.1      149.9      185.7 -152.0  23.0
     40 16 12  78 51 34 E000433      3.1      319.0      13.0      FCC32  138.1      -4.0  0.0
     Short Margin:      5.99 RCN: 00041705 Ohloss(20% / .01 %):      62.30  36.00
( 307) Status: L
     3700.00      4200.00      36M0F8F

308  WASHINGTON DC      S06972      114.3      34.8      -6.5      134.5      31.5 -135.0  23.0
     38 56 32  77  4 35 E990455      13.9      104.8      13.0      FCC32  285.0      -4.0  0.0
     Short Margin:      4.02 RCN: 99082708 Ohloss(20% / .01 %):      53.00  47.20
( 308) Status: L
     3700.00      4200.00      180KF2D

309  PHILADELPHIA PA      TEMPUR      20.7      16.7      1.4      151.5      223.2 -144.1  23.0
     39 58 52  75  9  9 E873737      44.8      60.5      13.0      FCC29  242.0      -3.9  0.0
     Short Margin:      6.06 RCN: 870602E1 Ohloss(20% / .01 %):      63.50  39.00
( 309) Status: L
     3700.00      4200.00      36M0F8W

310  SPRINGFIELD VA      ALLNEW      61.0      75.8      -10.5      135.7      36.1 -140.2  23.0
     38 44 22  77 12 29 E910474      3.4      148.0      13.0      V40613 328.1      -3.8  0.0
     Short Margin:      6.16 RCN: 91061828 Ohloss(20% / .01 %):      74.20  51.50
( 310) Status: L
     3700.00      4200.00      36M0F8W

311  CHARLOTTE SVI VA      P1175      533.4      77.8      -9.9      146.4      123.9 -150.3  23.0
     38  7 36  78 17 16 E970009      7.6      217.4      13.0      A41204 36.9      -3.7  0.0
     Short Margin:      20.27 RCN: 96090306 Ohloss(20% / .01 %):      53.90  27.60
( 311) Status: L
     3700.00      4200.00      2M04G1W
    
```

PDF Name: ORB4\_MOD

HERNDON VA HERNDON ZORBIT 02/17/2004  
 REMOTE VA REMOTE  
 39 0 56.0 77 25 42.0 72.30 6.10

Terrestrial Point To Point Frequencies:

3730.00V

```

=====
EARTH STATION      OWNER      GND      EDISCT  GES      FSLOSS  DIST PR      EPWR
LAT      LON      CALL      ACL      TDISCT  GTS      ESANT  AZ  MARGIN LL
=====
312 NEWPORT NEWS VA      COXHAM      35.0    90.2   -9.1   149.2  171.2 -152.3  23.0
    37 30 50 76 58 47 E020055      3.3   166.6   13.0   C40501 346.9  -3.7   0.0
Short Margin:      6.28 RCN: 01053103 Ohloss(20% / .01 %): 66.50 38.70
( 312) Status: L
    3700.00      4200.00      36M0F8F

313 SUITLAND MD      ZSCAPI      86.9    41.5   -8.5   137.8  46.4 -140.3  23.0
    38 50 53 76 56 18 E940142      5.5   113.4   13.0   FCC32  293.8  -3.7   0.0
Short Margin:      6.29 RCN: Ohloss(20% / .01 %): 62.30 48.70
( 313) Status: L
    3700.00      4200.00      36M0F8W

314 BALTIMORE ( MD      S04737      36.6    15.5    0.9   142.3  77.6 -135.4  23.0
    39 18 52 76 37 1 E870027      4.6    64.4   13.0   F40504 244.9  -3.6   0.0
Short Margin:      4.40 RCN: Ohloss(20% / .01 %): 64.90 31.30
( 314) Status: L
    3700.00      4200.00      36M0F8W

315 STATE COLLEG PA      ZDYNCO      352.0    39.8   -8.0   150.6  200.7 -152.5  23.0
    40 47 31 77 51 45 E000122      22.6   349.4   13.0   FCC32  169.2  -3.5   0.0
Short Margin:      6.54 RCN: 00010325 Ohloss(20% / .01 %): 71.60 45.60
( 315) Status: L
    3700.00      4200.00      21K0G7D

316 RICHMOND VA      FOXBRO      64.0   105.3 -10.0   148.6  159.5 -152.6  23.0
    37 34 47 77 29 10 E000391      3.1   181.8   13.0   FCC32   1.8  -3.4   0.0
Short Margin:      6.56 RCN: 00040655 Ohloss(20% / .01 %): 58.00 28.60
( 316) Status: L
    3700.00      4200.00      36M0F8F

317 PIMPLE HILL PA      S08721      673.6    32.0    3.8   153.4  277.2 -143.6  23.0
    41 1 38 75 30 20 PIMPLE      4.6    35.6   13.0   T40501 216.9  -3.4   0.0
Short Margin:      6.56 RCN: Ohloss(20% / .01 %): 62.50 38.00
( 317) Status: P
    3700.00      4200.00      36M0F8W

318 WASHINGTON DC      S06390      82.3    34.5   -6.8   134.8  32.5 -135.6  23.0
    38 56 38 77 3 50 WASHING2      18.9   104.0   13.0   F40371 284.2  -3.4   0.0
Short Margin:      4.56 RCN: 97063003 Ohloss(20% / .01 %): 71.80 60.20
( 318) Status: P
    3700.00      4200.00      150KF3E

319 FT BELVOIR VA      COMCVA      36.6    76.2   -9.5   137.1  42.9 -140.6  23.0
    38 42 5 77 8 27 E3821      2.7   144.3   13.0   S40501 324.5  -3.4   0.0
Short Margin:      6.65 RCN: Ohloss(20% / .01 %): 60.30 35.00
( 319) Status: L
    
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PDF Name: ORB4\_MOD

HERNDON VA HERNDON ZORBIT 02/17/2004  
 REMOTE VA REMOTE  
 39 0 56.0 77 25 42.0 72.30 6.10

Terrestrial Point To Point Frequencies:

3730.00V

```

=====
EARTH STATION      OWNER      GND      EDISCT  GES      FSLOSS  DIST PR      EPWR
LAT      LON      CALL      ACL      TDISCT  GTS      ESANT  AZ  MARGIN LL
=====
3700.00      4200.00      36M0F8W

320  FAWN GROVE  PA      CLEPAR      227.1  27.0  -4.9  145.7  115.3  -144.7  23.0
39 43 51  76 27 29 E990009      2.1  46.1  13.0  C40381 226.8  -3.3  0.0
Short Margin:      6.65 RCN: 98082709  Ohloss(20% / .01 %):  57.80  24.70
( 320) Status: L
3700.00      4200.00      36M0F8W

321  VINELAND   NJ      COMSNJ      18.3  10.6  6.3  151.0  210.6  -138.7  23.0
39 27 53  75 3 29 WL78      4.6  75.5  13.0  FCC29  257.1  -3.3  0.0
Short Margin:      6.66 RCN: 86121594  Ohloss(20% / .01 %):  64.20  40.30
( 321) Status: L
3700.00      4200.00      36M0F8W

322  GEORGE MASON VA  SVATEC      153.6  83.1  -11.0  131.7  22.9  -136.7  23.0
38 49 53  77 18 31 E890086      24.4  153.0  13.0  S40281 333.2  -3.3  0.0
Short Margin:      6.71 RCN: 88042554  Ohloss(20% / .01 %):  33.10  29.00
( 322) Status: L
3700.00      4200.00      36M0F8W

323  CHARLES TOWN WV  ROCONE      179.8  38.5  -7.6  135.1  33.8  -136.7  23.0
39 17 19  77 15 21 E000578      16.4  26.1  13.0  FCC32  206.2  -3.3  0.0
Short Margin:      6.72 RCN: 00072443  Ohloss(20% / .01 %):  44.60  38.30
( 323) Status: L
3700.00      4200.00      9M00G1F

324  PHILADELPHI PA  S01270      86.9  16.7  1.5  151.3  219.7  -143.9  23.0
40 0 17  75 12 58 E4708      4.6  59.3  13.0  S40701 240.7  -3.1  0.0
Short Margin:      6.86 RCN:      Ohloss(20% / .01 %):  63.50  29.80
( 324) Status: L
3700.00      4200.00      36M0F8W

325  WASHINGTON  DC      ZGRTSE      48.8  46.4  -9.7  137.2  43.3  -140.9  23.0
38 50 8  76 59 7 E8743      2.7  117.3  13.0  FCC32  297.6  -3.1  0.0
Short Margin:      6.90 RCN:      Ohloss(20% / .01 %):  59.50  34.10
( 325) Status: L
3700.00      4200.00      36M0F8W

326  ETAM        WV      ZBLRCO      548.5  7.6  7.7  150.6  202.1  -136.9  23.0
39 16 43  79 44 31 E970095      4.6  279.0  13.0  A40932 97.6  -3.1  0.0
Short Margin:      6.92 RCN: 96111209  Ohloss(20% / .01 %):  80.70  56.00
( 326) Status: L
3700.00      4200.00      1M60G7D
    
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PDF Name: ORB4\_MOD

HERNDON VA HERNDON ZORBIT 02/17/2004  
 REMOTE VA REMOTE  
 39 0 56.0 77 25 42.0 72.30 6.10

Terrestrial Point To Point Frequencies:

3730.00V

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=====
EARTH STATION      OWNER      GND      EDISCT  GES      FSLOSS  DIST PR      EPWR
LAT      LON      CALL      ACL      TDISCT  GTS      ESANT  AZ  MARGIN LL
=====
327 WASHINGTON DC      S06390  108.8  39.4  -7.9  134.2  30.4 -136.1  23.0
38 56 10 77 5 32 WP50  5.5  106.7  13.0  FCC32  286.9  -2.9  0.0
Short Margin: 5.06 RCN: Ohloss(20% / .01 %): 48.30 42.70
( 327) Status: L
3700.00 4200.00 200KF3E

328 DALE CT VA      CMCAVA  79.2  100.5 -10.0  136.8  41.4 -140.8  23.0
38 38 56 77 20 30 WR97  2.7  169.5  13.0  FCC32  349.6  -2.9  0.0
Short Margin: 7.14 RCN: 86051517 Ohloss(20% / .01 %): 66.10 41.20
( 328) Status: L
3700.00 4200.00 36M0F8W

329 WESTMINSTER MD      PREMD  256.0  31.9  -5.9  141.3  68.9 -141.1  23.0
39 32 9 76 59 35 E8011  3.0  32.8  13.0  S40502 213.2  -2.9  0.0
Short Margin: 7.14 RCN: Ohloss(20% / .01 %): 82.50 51.40
( 329) Status: L
3700.00 4200.00 36M0F8W

330 NEW KENT VA      COXHAM  35.0  90.2 -10.0  149.2  171.2 -153.2  23.0
37 30 50 76 58 47 E010202  3.0  166.6  13.0  FCC32  346.9  -2.8  0.0
Short Margin: 7.18 RCN: 01051512 Ohloss(20% / .01 %): 66.90 39.20
( 330) Status: L
3700.00 4200.00 36M0G7F

331 WOODBURY NJ      COMCGC  15.2  13.3  3.9  151.2  215.8 -141.3  23.0
39 50 1 75 9 19 WQ58  4.6  64.3  13.0  FCC32  245.8  -2.7  0.0
Short Margin: 7.31 RCN: Ohloss(20% / .01 %): 63.50 39.90
( 331) Status: L
3700.00 4200.00 36M0F8W

332 PHILADELPHI PA      COMCPA  12.2  16.7  1.5  152.0  236.9 -144.5  23.0
40 2 29 75 0 43 E5456  4.6  60.5  13.0  S40461 242.0  -2.5  0.0
Short Margin: 7.51 RCN: Ohloss(20% / .01 %): 64.90 33.10
( 332) Status: L
3700.00 4200.00 36M0F8W

333 ROWLESBURG WV      P1175  537.0  12.6  4.9  150.6  201.7 -139.7  23.0
39 16 52 79 44 9 KA351  11.9  279.1  13.0  V42101 97.7  -2.3  0.0
Short Margin: 5.71 RCN: 92070603 Ohloss(20% / .01 %): 84.00 58.60
( 333) Status: L
3625.00 4200.00 1M24G7W

334 PURCELLVILLE VA      P1175  131.7  50.4  -9.9  135.8  36.8 -139.7  23.0
39 16 1 77 42 23 E930447  2.1  319.3  13.0  P40301 139.2  -2.3  0.0
Short Margin: 5.74 RCN: 93070241 Ohloss(20% / .01 %): 52.60 45.60
( 334) Status: L
    
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PDF Name: ORB4\_MOD

HERNDON VA HERNDON ZORBIT 02/17/2004  
 REMOTE VA REMOTE  
 39 0 56.0 77 25 42.0 72.30 6.10

Terrestrial Point To Point Frequencies:

3730.00V

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=====
EARTH STATION      OWNER      GND      EDISCT  GES      FSLOSS  DIST PR      EPWR
LAT      LON      CALL      ACL      TDISCT  GTS      ESANT  AZ  MARGIN LL
=====
3700.00      4200.00      36M0F8W

335 HAGERSTOWN MD ANTCAB 158.5 44.0 -9.1 141.6 71.9 -144.7 23.0
39 37 33 77 42 23 E6273 4.6 340.5 13.0 FCC29 160.4 -2.3 0.0
Short Margin: 7.74 RCN: Ohloss(20% / .01 %): 34.50 24.90
( 335) Status: L
3700.00      4200.00      36M0F8W

336 ARLINGTON VA ACP 74.7 47.7 -10.0 134.7 32.5 -138.8 23.0
38 53 22 77 5 25 E4755 8.8 115.4 13.0 S40701 295.6 -2.2 0.0
Short Margin: 7.77 RCN: Ohloss(20% / .01 %): 69.20 54.20
( 336) Status: L
3700.00      4200.00      36M0F8W

337 CHESTER PA COMSPA 29.3 14.6 2.4 150.5 198.7 -142.1 23.0
39 51 31 75 23 34 WT28 2.7 61.2 13.0 F40501 242.5 -2.2 0.0
Short Margin: 7.77 RCN: Ohloss(20% / .01 %): 64.90 40.00
( 337) Status: L
3700.00      4200.00      36M0F8W

338 DISTRICT HGT MD COMCMD 47.2 42.8 -9.1 138.8 51.9 -141.9 23.0
38 52 27 76 51 28 E4830 2.7 107.4 13.0 S40501 287.8 -2.1 0.0
Short Margin: 7.87 RCN: Ohloss(20% / .01 %): 63.40 35.40
( 338) Status: L
3700.00      4200.00      36M0F8W

339 WASHINGTON DC S06390 15.2 39.3 -7.0 136.0 37.5 -136.9 23.0
38 53 58 77 1 19 WASHING1 18.6 109.9 13.0 C40381 290.2 -2.1 0.0
Short Margin: 5.95 RCN: 94060706 Ohloss(20% / .01 %): 69.20 58.10
( 339) Status: P
3700.00      4200.00      200KF3E

340 SILVER SPRI MD ZCABRO 85.3 25.7 -3.3 134.7 32.2 -131.9 23.0
39 0 1 77 3 26 E6632 3.7 92.8 13.0 S40281 273.1 -2.1 0.0
Short Margin: 0.95 RCN: Ohloss(20% / .01 %): 62.20 47.50
( 340) Status: L
3700.00      4200.00      36M0F8W

341 EASTON MD EASTUT 5.5 31.2 -5.0 146.1 119.5 -145.0 23.0
38 46 38 76 5 4 E6884 4.6 102.3 13.0 S40501 283.2 -2.0 0.0
Short Margin: 8.04 RCN: Ohloss(20% / .01 %): 55.70 23.10
( 341) Status: L
3700.00      4200.00      36M0F8W
    
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PDF Name: ORB4\_MOD

HERNDON VA HERNDON ZORBIT 02/17/2004  
 REMOTE VA REMOTE  
 39 0 56.0 77 25 42.0 72.30 6.10

Terrestrial Point To Point Frequencies:

3730.00V

```

=====
EARTH STATION      OWNER      GND      EDISCT  GES      FSLOSS  DIST PR      EPWR
LAT      LON      CALL      ACL      TDISCT  GTS      ESANT  AZ  MARGIN LL
=====
342 WASHINGTON DC      S06390      18.3  36.7  -7.1  136.0  37.5 -137.1  23.0
    38 54 8 77 1 15 E930122      26.8  109.4  13.0  FCC32  289.7  -1.9  0.0
Short Margin:      6.10 RCN: 03070843 Ohloss(20% / .01 %): 70.20 61.40
( 342) Status: P
    3700.00      4200.00      150KF3D

343 ETAM WV      VIOLIC      538.1  12.6  4.5  150.6  201.7 -140.1  23.0
    39 16 50 79 44 12 KA378      36.3  279.1  13.0  FCC32  97.7  -1.9  0.0
Short Margin:      6.12 RCN: 92070603 Ohloss(20% / .01 %): 79.20 52.80
( 343) Status: L
    3625.00      4200.00      36M0F8W

344 WASHINGTON DC      S06972      18.3  39.4  -7.9  135.3  34.8 -137.2  23.0
    38 54 24 77 3 4 E960214      29.6  110.1  13.0  FCC32  290.4  -1.8  0.0
Short Margin:      6.23 RCN: 95121320 Ohloss(20% / .01 %): 71.10 64.20
( 344) Status: L
    3700.00      4200.00      180KF2D

345 WARRENTON VA      SPOTSY      185.9  105.2 -10.5  137.8  46.0 -142.3  23.0
    38 42 38 77 47 15 E865041      3.0  222.7  13.0  S40462  42.6  -1.7  0.0
Short Margin:      8.27 RCN: 86061046 Ohloss(20% / .01 %): 56.60 39.50
( 345) Status: L
    3700.00      4200.00      36M0F8W

346 WASHINGTON DC      S06972      19.8  39.4  -7.9  135.5  35.5 -137.4  23.0
    38 54 9 77 2 40 E960213      32.6  110.5  13.0  FCC32  290.8  -1.6  0.0
Short Margin:      6.40 RCN: 95121318 Ohloss(20% / .01 %): 69.20 62.30
( 346) Status: L
    3700.00      4200.00      180KF2D

347 WASHINGTON DC      S06972      18.0  39.4  -7.9  135.6  35.8 -137.5  23.0
    38 54 9 77 2 30 E990381      35.4  110.4  13.0  FCC32  290.6  -1.5  0.0
Short Margin:      6.47 RCN: 99062901 Ohloss(20% / .01 %): 67.80 57.10
( 347) Status: L
    3700.00      4200.00      180KF2D

348 WASHINGTON DC      S06972      21.3  39.3  -7.9  135.7  36.2 -137.5  23.0
    38 54 18 77 2 6 E870855      8.2  109.6  13.0  FCC32  289.9  -1.5  0.0
Short Margin:      6.54 RCN: 94040504 Ohloss(20% / .01 %): 71.20 55.70
( 348) Status: L
    3700.00      4200.00      36M0F8W

349 WYE MILLS MD      CHRCVI      12.2  24.7  -2.8  145.8  115.6 -142.6  23.0
    38 57 32 76 5 46 E900115      1.8  92.7  13.0  S40321  273.5  -1.4  0.0
Short Margin:      8.56 RCN: 89120513 Ohloss(20% / .01 %): 56.70 19.70
( 349) Status: L
    
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PDF Name: ORB4\_MOD

HERNDON VA HERNDON ZORBIT 02/17/2004  
 REMOTE VA REMOTE  
 39 0 56.0 77 25 42.0 72.30 6.10

Terrestrial Point To Point Frequencies:

3730.00V

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=====
EARTH STATION      OWNER      GND      EDISCT  GES      FSLOSS  DIST PR      EPWR
LAT      LON      CALL      ACL      TDISCT  GTS      ESANT  AZ  MARGIN LL
=====
3700.00      4200.00      36M0F8W

350 WASHINGTON DC      S06972      20.7      39.4      -7.9      135.7      36.3 -137.6 23.0
38 54 14 77 2 3 E870855      28.0      109.8      13.0      FCC32      290.1      -1.4 0.0
Short Margin:      6.59 RCN: 95121317      Ohloss(20% / .01 %):      70.10 62.10
( 350) Status: L
3700.00      4200.00      180KF2D

351 FAIRFAX-OX R VA      MEDIA      134.1      90.9      -13.0      129.8      18.4 -136.8 23.0
38 51 18 77 22 25 E5229      4.9      165.1      13.0      R40921      345.2      -1.2 0.0
Short Margin:      8.82 RCN:      Ohloss(20% / .01 %):      64.10 60.20
( 351) Status: L
3700.00      4200.00      36M0F8W

352 PHILADELPHI PA      ZCAPCC      86.9      16.7      1.5      151.3      219.7 -143.8 23.0
40 0 17 75 12 58 E860738      4.6      59.3      13.0      A4045C      240.7      -1.2 0.0
Short Margin:      8.82 RCN:      Ohloss(20% / .01 %):      63.50 29.80
( 352) Status: L
3700.00      4200.00      36M0F8W

353 LOTHIAN MD      ACABLE      30.5      36.5      -7.6      141.3      69.4 -142.9 23.0
38 48 15 76 40 29 E860718      2.7      109.5      13.0      F40504      290.0      -1.1 0.0
Short Margin:      8.94 RCN: 86012011      Ohloss(20% / .01 %):      64.50 33.10
( 353) Status: L
3700.00      4200.00      36M0F8W

354 NEW KENSINGT PA      P5814      379.5      40.2      -8.1      152.8      261.1 -154.9 23.0
40 32 2 79 45 17 E880053      3.1      310.9      13.0      FCC32      129.5      -1.1 0.0
Short Margin:      8.94 RCN: 03063019      Ohloss(20% / .01 %):      82.80 62.20
( 354) Status: L
3700.00      4200.00      36M0F3F

355 BERRYVILLE VA      ADELCR      198.1      63.9      -10.0      139.0      53.1 -143.0 23.0
39 10 15 78 0 30 E7396      2.7      289.1      13.0      FCC32      108.8      -1.0 0.0
Short Margin:      9.01 RCN:      Ohloss(20% / .01 %):      37.20 27.50
( 355) Status: L
3700.00      4200.00      36M0F8W

356 OXFORD PA      S06475      137.2      20.3      -1.2      147.9      147.7 -143.1 23.0
39 46 3 76 0 51 E3416      2.7      55.1      13.0      F40501      236.0      -0.9 0.0
Short Margin:      9.09 RCN:      Ohloss(20% / .01 %):      65.90 35.80
( 356) Status: L
3700.00      4200.00      36M0F8W
    
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PDF Name: ORB4\_MOD

HERNDON VA HERNDON ZORBIT 02/17/2004  
 REMOTE VA REMOTE  
 39 0 56.0 77 25 42.0 72.30 6.10

Terrestrial Point To Point Frequencies:

3730.00V

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=====
EARTH STATION      OWNER      GND      EDISCT  GES      FSLOSS  DIST PR      EPWR
LAT      LON      CALL      ACL      TDISCT  GTS      ESANT  AZ      MARGIN LL
=====
357 LYNCHBURG VA LIBBRO 240.8 105.4 -9.1 152.1 239.9 -155.2 23.0
37 21 17 79 10 49 E881163 3.7 220.3 13.0 C40551 39.2 -0.8 0.0
Short Margin: 9.18 RCN: 01073005 Ohloss(20% / .01 %): 77.50 55.50
( 357) Status: L
3700.00 4200.00 51K2G7W 11M2G7W

358 SMITHBURG MD ANTCAB 496.8 43.1 -7.9 141.4 69.8 -143.3 23.0
39 38 17 77 32 31 E872090 2.7 351.9 13.0 F40502 171.9 -0.7 0.0
Short Margin: 9.26 RCN: 87021811 Ohloss(20% / .01 %): 42.10 20.30
( 358) Status: L
3700.00 4200.00 36M0F8W

359 STATE COLLEG PA STELEB 336.2 39.8 -10.7 150.6 201.2 -155.3 23.0
40 47 53 77 51 15 E970170 18.9 349.7 13.0 S40452 169.4 -0.7 0.0
Short Margin: 9.28 RCN: 96101604 Ohloss(20% / .01 %): 70.30 44.30
( 359) Status: L
3700.00 4200.00 36M0F8W

360 FREDERICKSB VA COXNVA 51.8 107.4 -10.0 142.3 77.9 -146.3 23.0
38 18 50 77 26 16 WG69 4.6 180.6 13.0 FCC29 0.6 -0.7 0.0
Short Margin: 9.34 RCN: Ohloss(20% / .01 %): 57.30 25.00
( 360) Status: L
3700.00 4200.00 36M0F8W

361 LOWER MERIO PA CCABNR 73.2 16.0 1.9 151.3 219.4 -143.4 23.0
40 1 0 75 13 43 E3923 0.0 58.8 13.0 FCC29 240.3 -0.6 0.0
Short Margin: 9.44 RCN: Ohloss(20% / .01 %): 75.80 53.00
( 361) Status: L
3700.00 4200.00 36M0F8W

362 SPRINGFIELD VA S06972 74.0 68.4 -10.0 134.6 32.1 -138.6 23.0
38 48 0 77 10 57 E010046 14.2 138.2 13.0 R40281 318.4 -0.4 0.0
Short Margin: 7.63 RCN: 01011603 Ohloss(20% / .01 %): 64.10 51.50
( 362) Status: L
3700.00 4200.00 180KF2D

363 SPRINGFIELD VA S06972 70.1 68.4 -10.0 134.7 32.3 -138.7 23.0
38 47 58 77 10 46 E980037 7.9 137.9 13.0 R40281 318.1 -0.3 0.0
Short Margin: 7.68 RCN: 97072916 Ohloss(20% / .01 %): 67.20 51.90
( 363) Status: L
3700.00 4200.00 180KF2D

364 WARMINSTER PA SGTEGV 96.0 16.8 -3.7 152.1 240.7 -149.8 23.0
40 12 4 75 4 52 E860011 5.5 56.1 13.0 A40911 237.6 -0.2 0.0
Short Margin: 5.79 RCN: Ohloss(20% / .01 %): 65.10 42.50
( 364) Status: L
    
```

PDF Name: ORB4\_MOD

HERNDON		VA	HERNDON	ZORBIT	02/17/2004				
REMOTE		VA	REMOTE						
39	0	56.0	77	25	42.0	72.30	6.10		

Terrestrial Point To Point Frequencies:

3730.00V

```

=====
EARTH STATION      OWNER      GND      EDISCT  GES      FSLOSS  DIST PR      EPWR
LAT      LON      CALL      ACL      TDISCT  GTS      ESANT  AZ  MARGIN LL
=====

```

```

3700.00      4200.00      36M0F8W

365  ALEXANDRIA  VA      S06972      77.4      63.5  -10.0  134.9  33.3  -138.9  23.0
38 48 15      77 9 23  E000522      1.8  134.7  13.0  R40281 314.9  -0.1  0.0
Short Margin:      7.95 RCN: 00051721  Ohloss(20% / .01 %):  63.70  42.00
( 365) Status: L
3700.00      4200.00      180KF2D

```

PDF Name: ORB4\_MOD

REMOTE	VA	REMOTE	ZORBIT	02/17/2004				
HERNDON	VA	HERNDON						
39	0	57.0	77	25	42.0	72.30		.00

Terrestrial Point To Point Frequencies:

No Terrestrial Frequencies found for this path

```

=====
      EARTH STATION      OWNER      GND      EDISCT  GES      FSLOSS  DIST PR      EPWR
      LAT      LON      CALL      ACL      TDISCT  GTS      ESANT  AZ      MARGIN LL
=====

```

\*\*\*\*\*

No Cases Found for this path

\*\*\*\*\*

Cases Found 365

Number of Earth Stations Selected is: 1316

\*\*\*\*\* End of Terrestrial/Earth Station Interference Study Listing \*\*\*\*\*

```
=====
OWNER      EARTH STATION    CALL SIGN  LATITUDE    LONGITUDE   W.LON  MARGIN
=====
```

\*\*\*\*\*

No Precipitation Scatter Beam Intersection Cases Found

\*\*\*\*\* End Precipitation Scatter Beam Intersection Listing \*\*\*\*\*

\*\*\*\*\* End of ESCHK Listing for pdf\_name: ORB4\_MOD \*\*\*\*\*

