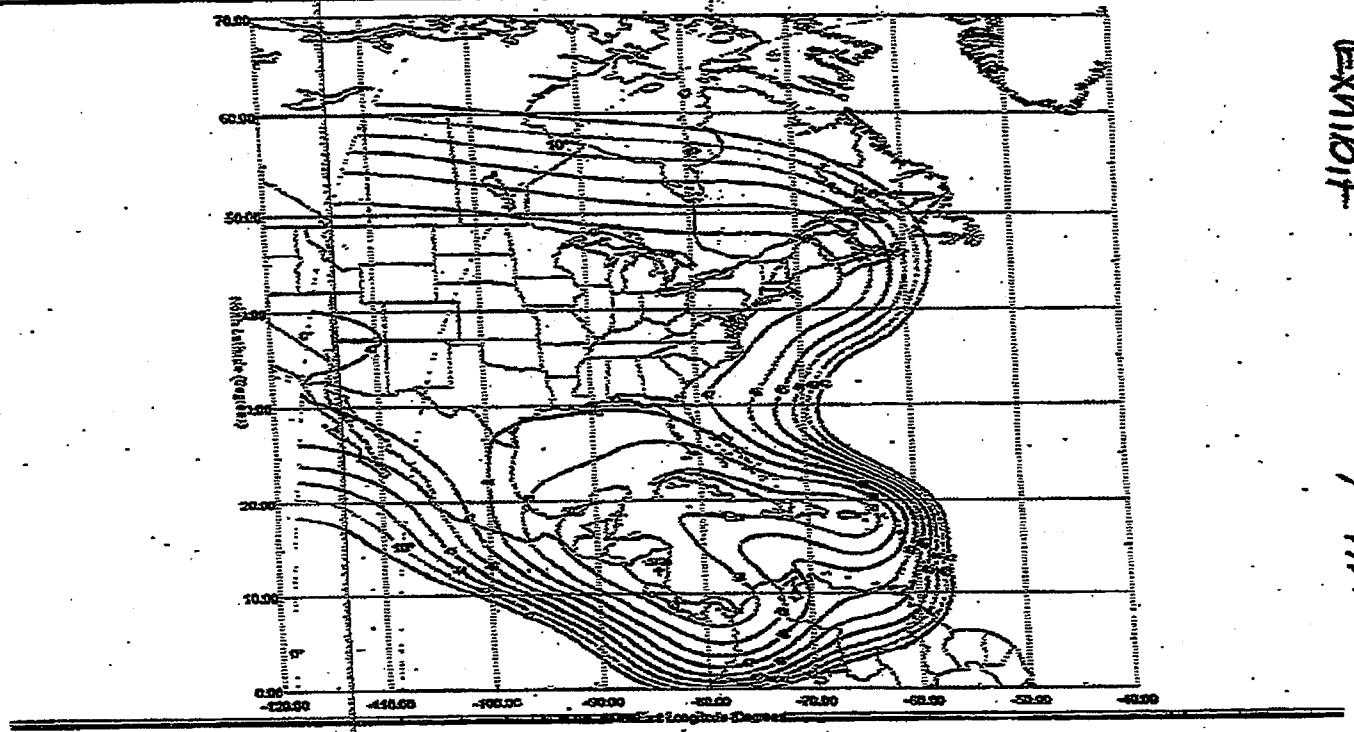
AREAS OF OPERATIONS EXHIBIT

Maps showing areas of operation for Astrium Earth Station on Vessels (ESV) operated pursuant to the WB36 license ESV authorization.

US Beam EIRP Contours

Telesat



Telesat Proprietary

Exhibit 7-11N

MAOR/NAOR Beam EIRP Contours

Telesat

Exhibit T-11N

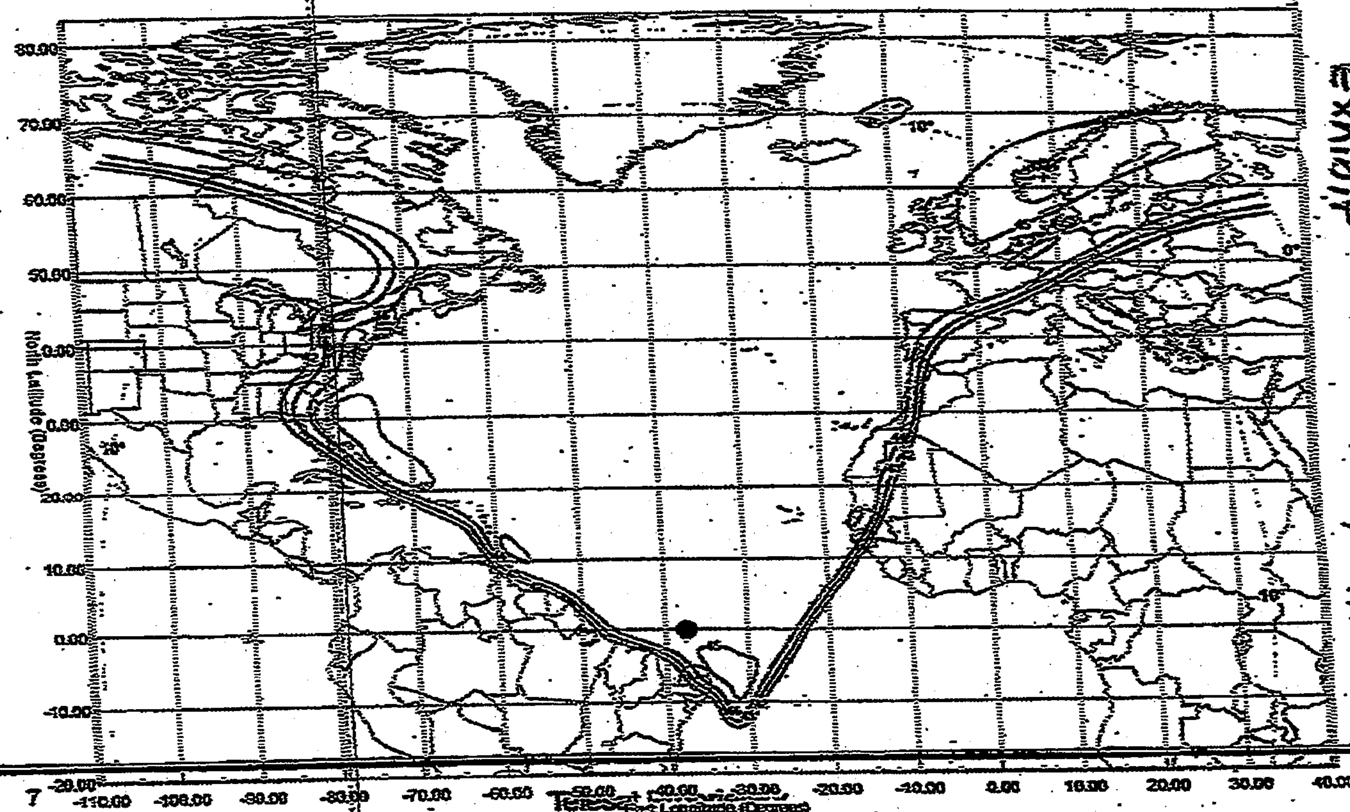
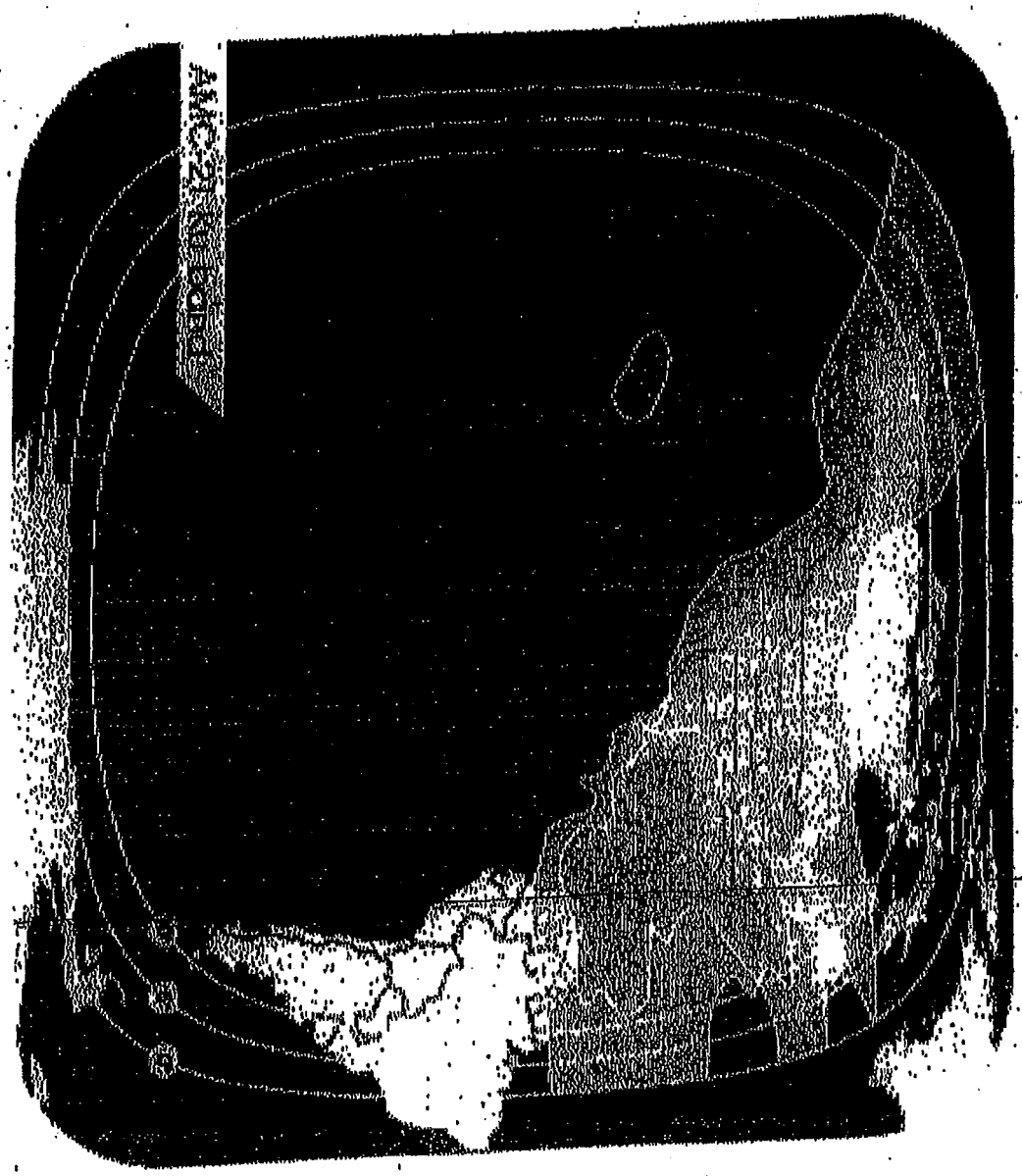


Exhibit AMC-21

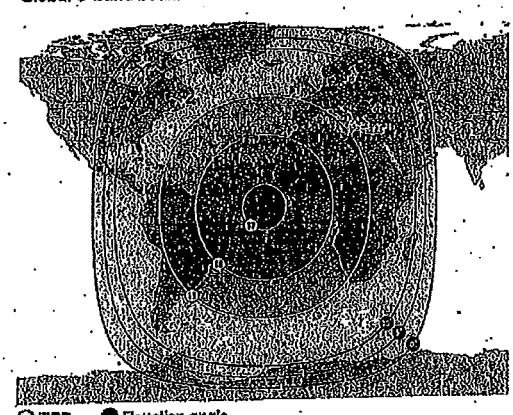


Exhibit

SES-4
338°E

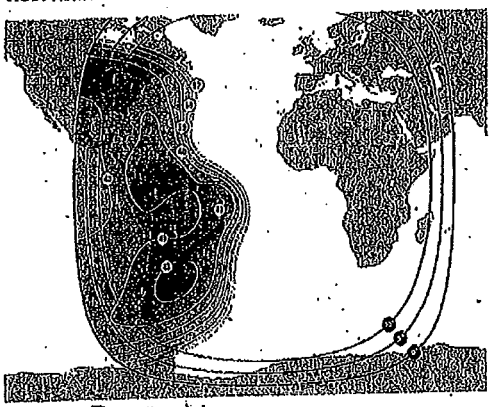
Orbital location

Global C-band beam



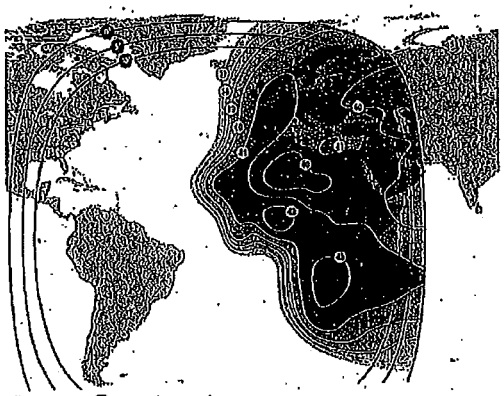
EIRP ● Elevation angle

West Hemi C-band beam



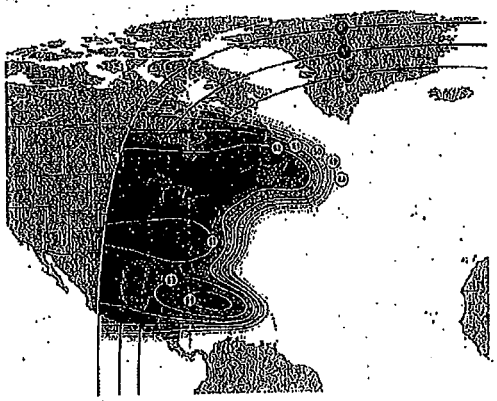
EIRP ● Elevation angle

East Hemi C-band beam



EIRP ● Elevation angle

North America Ku-band beam

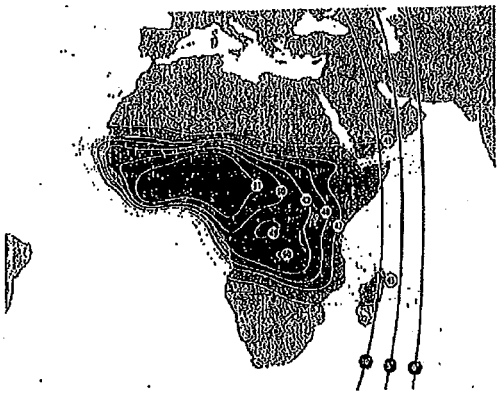


EIRP ● Elevation angle

SES-4
338°E

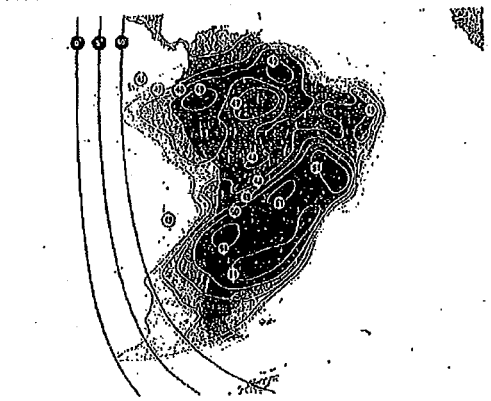
Orbital location

West Africa Ku-band beam



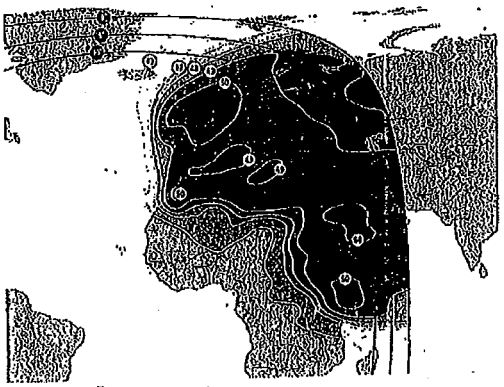
○ EIRP ● Elevation angle

Southern Cone Ku-band beam



○ EIRP ● Elevation angle

Europe Middle East Ku-band beam



○ EIRP ● Elevation angle

Exhibit NSS-7

Exhibit

ESTRELLA DO SUL 1

C-band Payload

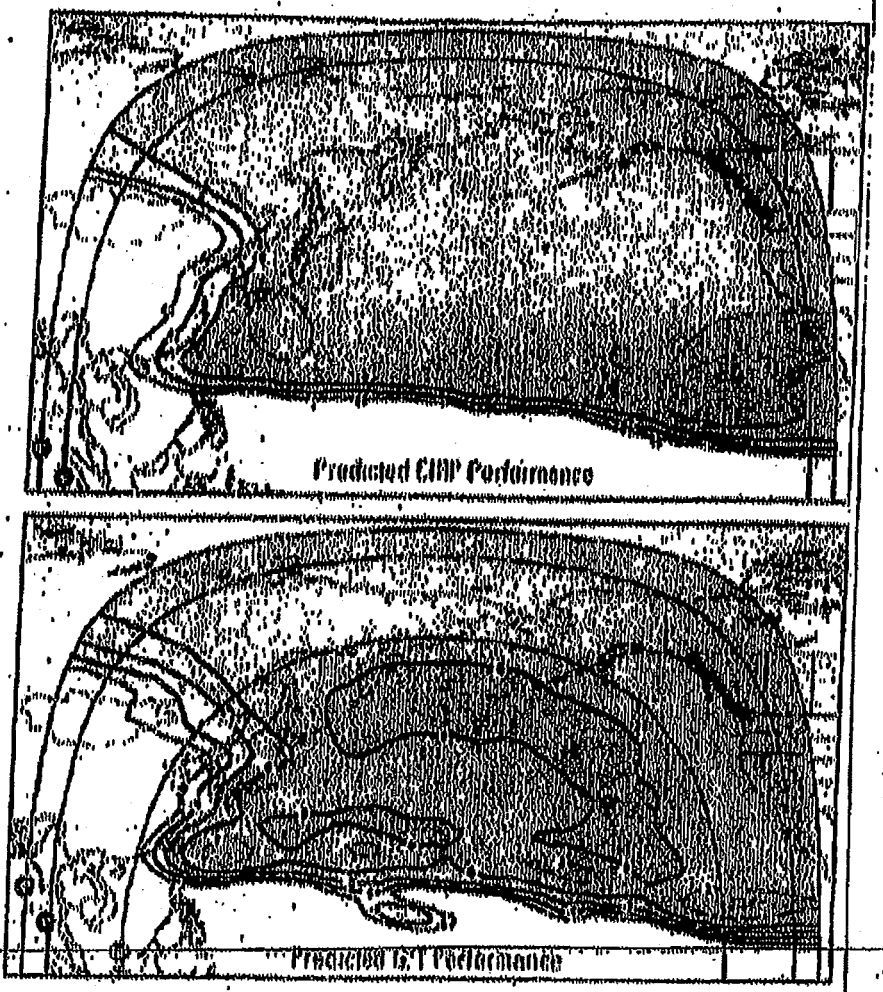
Frequency
Standard
Uplink: 14 to 14.5 GHz
Downlink: 11.7 to 12.2 GHz
Extended
Uplink: 13.75 to 14 GHz
Downlink: 11.45 to 11.7 GHz

Saturation flux density
-96 dBW/m²

Exhibit AMC-9

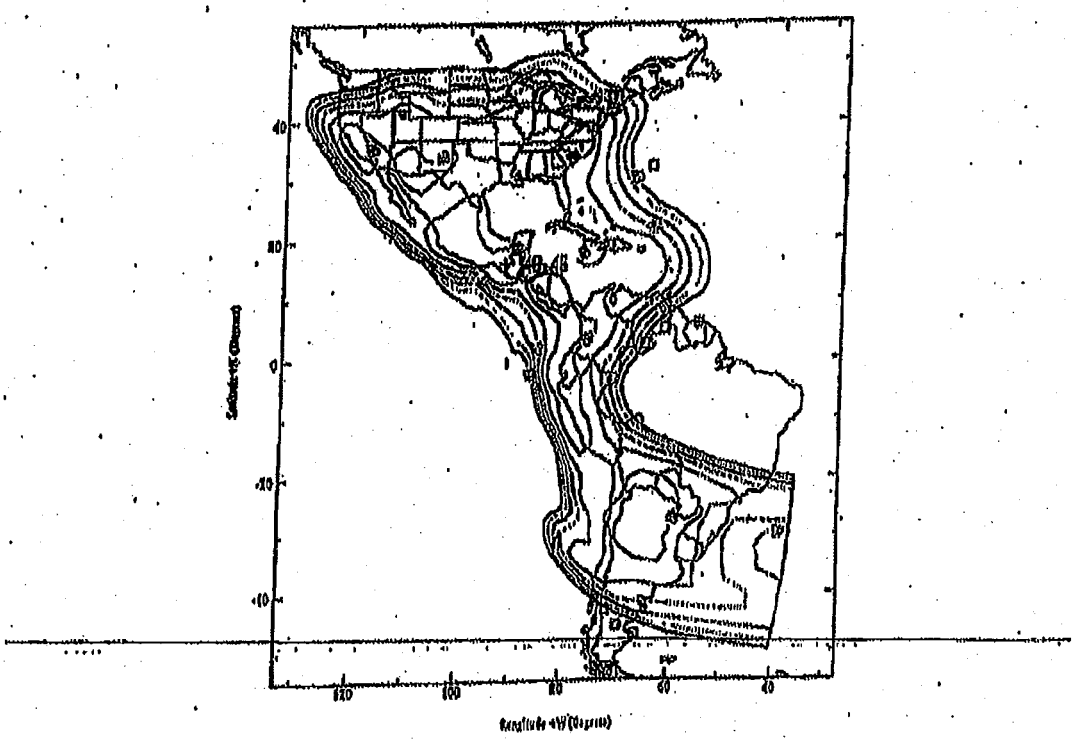
AMC-23 / CE-23 Exhibit

North Pacific Ku-band Zone Beam



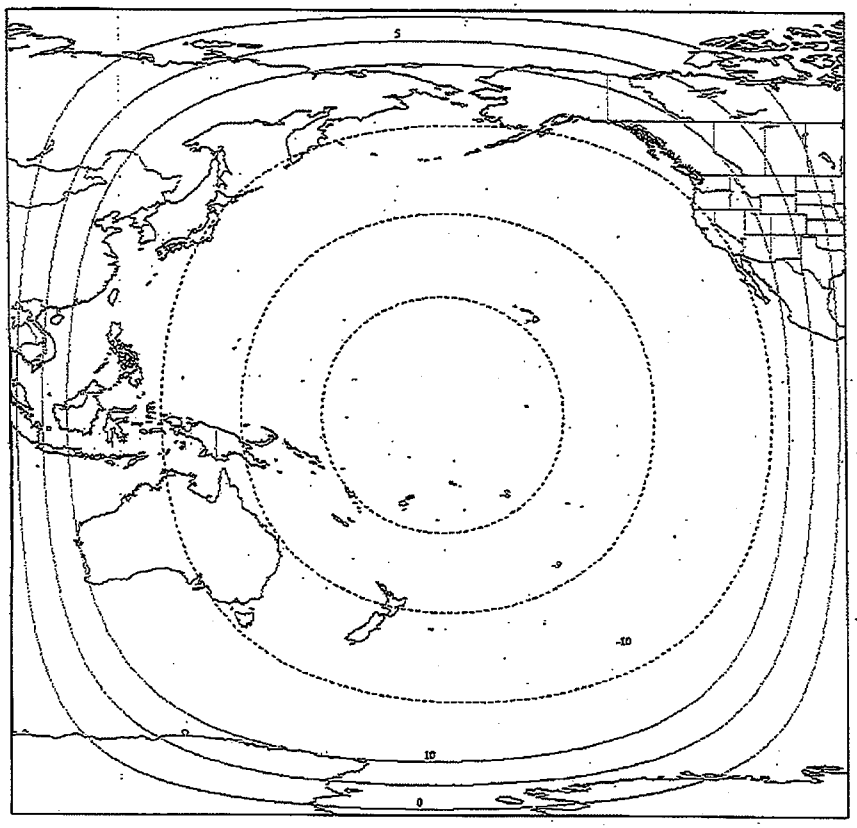
Exhibit

Satmex 5 (116.8° W)
EIRP
Region KU-2 Even Xponder
(Pol. Hor/Ver)



SATMEX PROPRIETARY INFORMATION

C-Band Global Beam G/T



Contours Shown

G/T [dB/K]	Max SFD [dBW/m²]	Min. SFD [dBW/m²]
-7.3 Beam Peak		
-8	-93	-78
-9	-92	-77
-10	-91	-76

Notes

The adjacent plot shows the predicted performance of a typical satellite transponder. Small performance differences should be expected between individual transponders.

Exhibit NSS-9

SES NEW SKIES

IS-21 at 302°E – Ku-Band Mobility*