

Jennifer Gilsenan, Chief  
Policy Branch  
International Bureau  
Federal Communications Commission

Before the  
**FEDERAL COMMUNICATIONS COMMISSION**  
Washington, D.C. 20554

In the Matter of:

**INTELSAT LLC**

Application to Modify Authorization to  
Operate, and to Further Construct, Launch,  
and Operate C-band and Ku-band Satellites  
that Form a Global Communications  
System in Geostationary Orbit

File No. SAT-LOA-20000119-00025

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SEP 18 2002

Federal Communication Commission  
Bureau / Office

**Application of Intelsat LLC  
To Modify Authorization**

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(202) 944 6800

September 18, 2002

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Application to Modify Authorization

**PART 2**

Form 312

Exhibit 1

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Attachment A

Before the  
**FEDERAL COMMUNICATIONS COMMISSION**  
Washington, D.C. 20554

In the Matter of:

**INTELSAT LLC**

Application to Modify Authorization to Operate, and to Further Construct, Launch, and Operate C-band and Ku-band Satellites that Form a Global Communications System in Geostationary Orbit

**File No. SAT-LOA-20000119-00025**

**Application of Intelsat LLC  
To Modify Authorization**

Intelsat LLC ("Intelsat") hereby submits the following request for modification of a space station authorization to permit a change in orbital location. Specifically, Intelsat requests authority to make the following modification to its authorization for the satellite listed below:

1. **INTELSAT 907** (S2411), File No. SAT-LOA-20000119-00025, Intelsat requests modification of its license to permit the deployment of the INTELSAT 907 satellite at 27.5° W.L. in the first quarter of 2003 rather than at 31.5° W.L. in February 2003.<sup>1</sup>

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<sup>1</sup> Intelsat will apply for an extension of the launch milestone if the current February, 2003 launch milestone can not be met.

As explained in the following sections, grant of the instant modification application will serve the public interest by enabling Intelsat to implement a deployment plan change to respond to customer demands and ensure continuity of service.

In accordance with the requirements of Section 25.117(d) of the Commission's Rules, 47 C.F.R. § 25.117(d), a completed FCC Form 312 is attached for this modification.

## **I. BACKGROUND**

On August 8, 2000, the Commission granted Intelsat's application for authority to operate 17 in-orbit C-band and Ku-band satellites then owned and operated by the International Telecommunications Satellite Organization ("INTELSAT"). The Commission also granted Intelsat authority to construct, launch and operate 10 planned satellites. The authorization also allowed Intelsat to relocate, among 22 orbit locations, certain currently operating satellites upon the launch of the 10 planned satellites.<sup>2</sup>

As explained in Intelsat's original application, in order to accomplish its diverse mission, the Intelsat system will be a dynamic system that is quick to respond to business demands and customer needs. To this end, Intelsat regularly relocates its satellites to optimize satellite usage, satisfy customer requirements and maximize the utilization of orbital resources.<sup>3</sup>

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<sup>2</sup> See *Application of Intelsat LLC for C-Band and Ku-Band Global Satellite System* (filed Jan. 18, 2000) ("Intelsat LLC Application"); *Applications of Intelsat LLC for Authority to Operate and to Further Construct, Launch, and Operate C-Band and Ku-Band Satellites that Form a Global Communications System in Geostationary Orbit*, 15 FCC Rcd 15460 (2000) (Memorandum Opinion Order and Authorization) ("Intelsat Order"), *recon. denied*, 15 FCC Rcd 25234 (2000) (Order on Reconsideration).

<sup>3</sup> See, e.g., *Application of Intelsat LLC to Modify Authorizations to Operate, and to Further Construct, Launch, and Operate C-band and Ku-band Satellites that Form a*

The instant application for modification of the INTELSAT 907 license is the result of further evaluation and refinement of Intelsat's satellite deployment plans. The requested modification is fully described below. INTELSAT 907, when deployed at the 27.5° W.L. orbital location will release INTELSAT 605. Intelsat will shortly file for authorization to deploy INTELSAT 605 at another location.

## **II. PROPOSED MODIFICATION**

INTELSAT 907 was originally authorized to operate at 31.5° W.L.<sup>4</sup> Intelsat now seeks modification of the INTELSAT 907 license to permit deployment at 27.5° W.L. in the first quarter 2003.<sup>5</sup>

## **III. PUBLIC INTEREST SHOWING**

The proposed modification in Intelsat's deployment plan will serve the public interest. Not only will the modification promote efficient use of the orbital arc, it will also provide Intelsat with the flexibility needed to manage its system and meet the needs of its customers.

The Commission has traditionally provided licensees with the flexibility to adjust to changed circumstances and best serve their customers' needs. In particular, licensees are routinely permitted to re-locate satellites in order to maximize their efficient use of orbital resources. For example, in approving AMSC's 1998 request to relocate one of its

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*Global Communications System in Geostationary Orbit*, 16 FCC Rcd 16208 (2001) (Order and Authorization).

<sup>4</sup> See Intelsat Order, 15 FCC Rcd at 15531.

<sup>5</sup> Intelsat will request an extension of the launch milestone if the current February 2003 milestone can not be met.

satellites, the Commission stated that licensees are "in a better position" to determine how to tailor their systems "to meet the particular needs of its customers."<sup>6</sup> As a result, the Commission further explained, "the Commission will generally grant a licensee's request to modify its system, provided there are no compelling countervailing public interest considerations."<sup>7</sup> The instant modification application is fully consistent with this policy. Intelsat simply proposes to respond to customer needs by operating the INTELSAT 907 satellite in a location other than the one previously licensed. Importantly, the modification contemplated herein does not change the number or identity of the orbital locations previously authorized for use by Intelsat or available for assignment to other applicants. In addition, Intelsat will operate the INTELSAT 907 satellite at the new orbital location in accordance with the coordination agreements with nearby satellite operators, so this modification will not give rise to any coordination concerns. The FCC previously approved operation of INTELSAT 905 at 27.5° W.L.<sup>8</sup> The INTELSAT 905 and INTELSAT 907 satellites have the same technical characteristics.<sup>9</sup>

Most importantly, the proposed modification will ensure continuity of service to Intelsat's customers, as well as provide service to new customers that desire such service.

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<sup>6</sup> See *AMSC Subsidiary Corporation*, 13 FCC Rcd 12316, 12318 (1998) (Order and Authorization).

<sup>7</sup> *Id.*

<sup>8</sup> *Intelsat Order*, 15 FCC Rcd 15460.

<sup>9</sup> See Letter from Jennifer D. Hindin, Attorney for Intelsat LLC, to William F. Caton, Acting Secretary FCC, File Nos. SAT-LOA-20000119-00019 to SAT-LOA-20000119-00025, (dated Mar. 19, 2002) (confirming that the INTELSAT 9 series satellites have the same technical characteristics).

Some of these customers are in small and developing countries for which the Intelsat system continues to be the primary or sole source of international connectivity. Prompt grant of the instant applications will ensure that there is no disruption in service on these and other routes currently served by Intelsat.

#### IV. CONCLUSION

For the reasons explained in the previous sections, Intelsat requests modification of its authorization for INTELSAT 907 to permit implementation of a change in INTELSAT's deployment plan.

Respectfully submitted,

Intelsat LLC

By: 

Patrick J. Cerra  
Vice President  
Intelsat LLC

Bert W. Rein  
Jennifer D. Hindin  
WILEY REIN & FIELDING LLP  
1776 K Street, N.W.  
Washington, D.C. 20006  
(202) 719-7000

September 18, 2002

**FCC 312  
Main Form**

**FEDERAL COMMUNICATIONS COMMISSION**

**APPLICATION FOR SATELLITE SPACE AND EARTH STATION AUTHORIZATIONS**

FCC Use Only  
File Number:  
Call Sign:  
Fee Number:

Approved by OMB  
3660-0678  
Est. Avg Burden Hours  
Per Response: 11 Hrs.

**APPLICANT INFORMATION**

1. Legal Name of Applicant <b>Intelsat LLC</b>		2. Voice Telephone Number <b>(202) 944 6800</b>	
3. Other Name Used for Doing Business (if any)		4. Fax Telephone Number	
5. Mailing Street Address or P.O. Box <b>3400 International Drive, N.W.</b>		6. City <b>Washington</b>	8. Zip Code <b>20008-3098</b>
ATTENTION: <b>Milenko Stojkovic</b>		7. State / Country (if not U.S.A.) <b>DC</b>	10. Voice Telephone Number <b>(202) 719 7000</b>
9. Name of Contact Representative (if other than applicant) <b>Bert Rein</b>		12. Fax Telephone Number <b>(202) 719 7207</b>	
11. Firm or Company Name <b>Wiley, Rein &amp; Fielding LLP</b>		14. City <b>Washington</b>	16. Zip Code <b>20006</b>
13. Mailing Street Address or P.O. Box <b>1776 K Street, N.W.</b>		15. State / Country (if not U.S.A.) <b>DC</b>	
ATTENTION: <b>Bert Rein</b>			

**CLASSIFICATION OF FILING**

17. Place an "X" in the box next to the classification that applies to this filing for both questions a. and b. Mark only one box for 17a and only one box for 17b.

<input type="checkbox"/> a1. Earth Station	<input type="checkbox"/> b1. Application for License of New Station
<input checked="" type="checkbox"/> a2. Space Station	<input type="checkbox"/> b2. Application for Registration of New Domestic Receive-Only Station
	<input type="checkbox"/> b3. Amendment to a Pending Application
	<input checked="" type="checkbox"/> b4. Modification of License or Registration
	<input type="checkbox"/> b5. Assignment of License or Registration
	<input type="checkbox"/> b6. Transfer of Control of License or Registration
	<input type="checkbox"/> b7. Notification of Minor Modification
	<input type="checkbox"/> b8. Application for License of New Receive-Only Station Using Non-U.S. Licensed Satellite
	<input type="checkbox"/> b9. Letter of Intent to Use Non-U.S. Licensed Satellite to Provide Service in the United States
	<input type="checkbox"/> b10. Other (Please Specify):

18. If this filing is in reference to an existing station, enter:  
Call sign of station: **S2411** (a) Date pending application was filed: **N/A**  
(b) File number of pending application: **N/A**



**TYPE OF SERVICE**

20. NATURE OF SERVICE: This filing is for an authorization to provide or use the following type(s) of service(s): Place an "X" in the box(es) next to all that apply.

a. Fixed Satellite  c. Radiodetermination Satellite  e. Direct to Home Fixed Satellite

b. Mobile Satellite  d. Earth Exploration Satellite  f. Digital Audio Radio Service  g. Other (please specify)

21. STATUS: Place an "X" in the box next to the applicable status. Mark only one box.

a. Common Carrier  b. Non-Common Carrier

22. If earth station applicant, place an "X" in the box(es) next to all that apply.

a. Using U.S. licensed satellites  b. Using Non-U.S. licensed satellites

23. If applicant is providing INTERNATIONAL COMMON CARRIER service, see instructions regarding Sec. 214 filings. Mark only one box. Are these facilities:

a. Connected to the Public Switched Network  b. Not connected to the Public Switched Network

24. FREQUENCY BAND(S): Place an "X" in the box(es) next to all applicable frequency band(s).

a. C-Band (4/6 GHz)  c. Other (Please specify)

b. Ku-Band (12/14 GHz)

**TYPE OF STATION**

25. CLASS OF STATION: Place an "X" in the box next to the class of station that applies. Mark only one box.

a. Fixed Earth Station  b. Temporary-Fixed Earth Station  c. 12/14 GHz VSAT Network  d. Mobile Earth Station  e. Space Station  f. Other (Specify)

If space station applicant, go to Question 27.

26. TYPE OF EARTH STATION FACILITY Mark only one box.

a. Transmit/Receive  b. Transmit-Only  c. Receive-Only

**PURPOSE OF MODIFICATION OR AMENDMENT**

27. The purpose of this proposed modification or amendment is to: Place an "X" in the box(es) next to all that apply.

a -- authorization to add new emission designator and related service

b -- authorization to change emission designator and related service

c -- authorization to increase EIRP and EIRP density

d -- authorization to replace antenna

e -- authorization to add antenna

f -- authorization to relocate fixed station

g -- authorization to change assigned frequency(ies)

h -- authorization to add Points of Communication (satellites & countries)

i -- authorization to change Points of Communication (satellites & countries)

j -- authorization for facilities for which environmental assessment and radiation hazard reporting is required

k -- Other (Please Specify) **Authorization to permit change in orbital location**

**ENVIRONMENTAL POLICY**

28. Would a Commission grant of any proposal in this application or amendment have a significant environmental impact as defined by 47 CFR 1.1307? If YES, submit the statement as required by Sections 1.1308 and 1.1311 of the Commission's rules, 47 C.F.R. §§ 1.1308 and 1.1311, as an exhibit to this application.

YES  NO

A Radiation Hazard Study must accompany all applications as an exhibit for new transmitting facilities, major modifications, or major amendments. Refer to OET Bulletin 65.

**ALIEN OWNERSHIP**

29. Is the applicant a foreign government or the representative of any foreign government?	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
30. Is the applicant an alien or the representative of an alien?	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
31. Is the applicant a corporation organized under the laws of any foreign government?	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
32. Is the applicant a corporation of which more than one-fifth of the capital stock is owned of record or voted by aliens or their representatives or by a foreign government or representative thereof or by any corporation organized under the laws of a foreign country?	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
33. Is the applicant a corporation directly or indirectly controlled by any other corporation of which more than one-fourth of the capital stock is owned of record or voted by aliens, their representatives, or by a foreign government or representative thereof or by any corporation organized under the laws of a foreign country?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
34. If any answer to questions 29, 30, 31, 32 and/or 33 is Yes, attach as an exhibit, the identification of the aliens or foreign entities, their nationality, their relationship to the applicant, and the percentage of stock they own or vote.	See Attachment A	

**BASIC QUALIFICATIONS**

35. Does the applicant request any waivers or exemptions from any of the Commission's Rules? If Yes, attach as an exhibit, copies of the requests for waivers or exceptions with supporting documents.	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
36. Has the applicant or any party to this application had any FCC station authorization or license revoked or had any application for an initial, modification or renewal of FCC station authorization, license, or construction permit denied by the Commission? If Yes, attach as an exhibit, an explanation of the circumstances.	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
37. Has the applicant, or any party to this application, or any party directly or indirectly controlling the applicant ever been convicted of a felony by any state or federal court? If Yes, attach as an exhibit, an explanation of the circumstances.	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
38. Has any court finally adjudged the applicant, or any person directly or indirectly controlling the applicant, guilty of unlawfully monopolizing or attempting unlawfully to monopolize radio communication, directly or indirectly, through control of manufacture or sale of radio apparatus, exclusive traffic arrangement or any other means or unfair methods of competition? If Yes, attach as an exhibit, an explanation of the circumstances.	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
39. Is the applicant, or any person directly or indirectly controlling the applicant, currently a party in any pending matter referred to in the preceding two items? If Yes, attach as an exhibit, an explanation of the circumstances.	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
40. If the applicant is a corporation and is applying for a space station license, attach as an exhibit the names, addresses, and citizenship of those stockholders owning of record and/or voting 10 percent or more of the Filer's voting stock and the percentages so held. In the case of fiduciary control, indicate the beneficiary(ies) or class of beneficiaries. Also list the names and addresses of the officers and directors of the Filer.		
41. By checking Yes, the undersigned certifies, that neither the applicant nor any other party to the application is subject to a denial of Federal benefits that includes FCC benefits pursuant to Section 5301 of the Anti-Drug Act of 1988, 21 U.S.C. Section 862, because of a conviction for possession or distribution of a controlled substance. See 47 CFR 1.2002(b) for the meaning of "party to the application" for these purposes.	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
42a. Does the applicant intend to use a non-U.S. licensed satellite to provide service in the United States? If yes, answer 42b and attach an exhibit providing the information specified in 47 C.F.R. § 25.137, as appropriate. If no, proceed to question 43.	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
42b. What administration has licensed or is in the process of licensing the space station? If no license will be issued, what administration has coordinated or is in the process of coordinating the space station? <u>United States</u>		



**INTELSAT 907 MODIFICATION**

**EXHIBIT I**

**Technical Description and  
Other Information Required Under Section 25.114(c)**

The Applicant, Intelsat LLC, hereby applies for authority to permit the deployment of INTELSAT 907 at 27.5° W.L. following launch in the first quarter of 2003 rather than at 31.5° W.L. in February 2003.

Specific technical information for the INTELSAT 907 satellite, as required by Section 25.114 (c) of the Commission's rules, is presented below.

**NAME AND ADDRESS OF APPLICANT**

The Applicant is:

Intelsat LLC  
3400 International Drive, N.W.  
Washington, D.C. 20008-3098  
(202) 944-6800

**NAME AND ADDRESS OF CONTACT PERSONS**

The contact person for the Applicant is:

Dr. Milenko Stojkovic  
Director, Telecommunications and Regulatory Policy  
Intelsat Global Service Corporation  
3400 International Drive, N.W.  
Washington, D.C. 20008-3098  
(202) 944-7225

The Applicant's Counsel is:

Bert W. Rein  
Jennifer D. Hindin  
WILEY REIN & FIELDING LLP  
1776 K Street, N.W.  
Washington, D.C. 20006  
(202) 719-7000

Correspondence and communications concerning this application should be addressed to the aforementioned contact person with copies to the above Counsel.

### **TYPE OF AUTHORIZATION REQUESTED**

This application requests FCC authority to deploy and operate a satellite in the Fixed Satellite Service operating in the C-band and Ku-band at a different orbital location than originally authorized. Intelsat LLC seeks authority for INTELSAT 907 to operate on both a common carrier and non-common carrier basis.

### **TECHNICAL INFORMATION**

#### **A. Satellite Coverage**

Information regarding the coverage of the INTELSAT 907 satellite is provided in Attachment 1.

### **WAIVERS REQUESTED**

It is requested that the waivers granted to the INTELSAT 907 spacecraft at the 31.5° W.L. location continue to apply at the 27.5° W.L. location. These waivers are identical to those granted to the INTELSAT 905 spacecraft originally authorized to operate at the 27.5° W.L. location.

**PUBLIC INTEREST CONSIDERATIONS**

A detailed statement regarding the public interest considerations supporting the grant of this application can be found in Part 1 of this application.

**ENGINEERING CERTIFICATE**

The Engineering Certificate supporting the technical information contained in this application is attached.

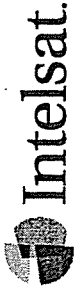
## ENGINEERING CERTIFICATE

I hereby certify that I am the technically qualified person responsible for the preparation of the engineering information contained in the technical portions of the foregoing application, that I am familiar with Part 25 of the Commission's rules and that the technical information is complete and accurate to the best of my knowledge and belief.



Milenko P. Stojkovic, Ph.D.  
Director  
Telecommunications and Regulatory  
Policy  
Intelsat Global Service Corporation

September 13 2002



INTELSAT 907 at 332.50°E Antenna Coverage  
S/C Platform Bias : 0.00°E 0.45°S  
YAW : 0.00°

Peak Gain (Downlink Co-pol) (See +)  
GA : 19.9 dBi

Beam Peak EIRP  
GA : 34.5 dBW

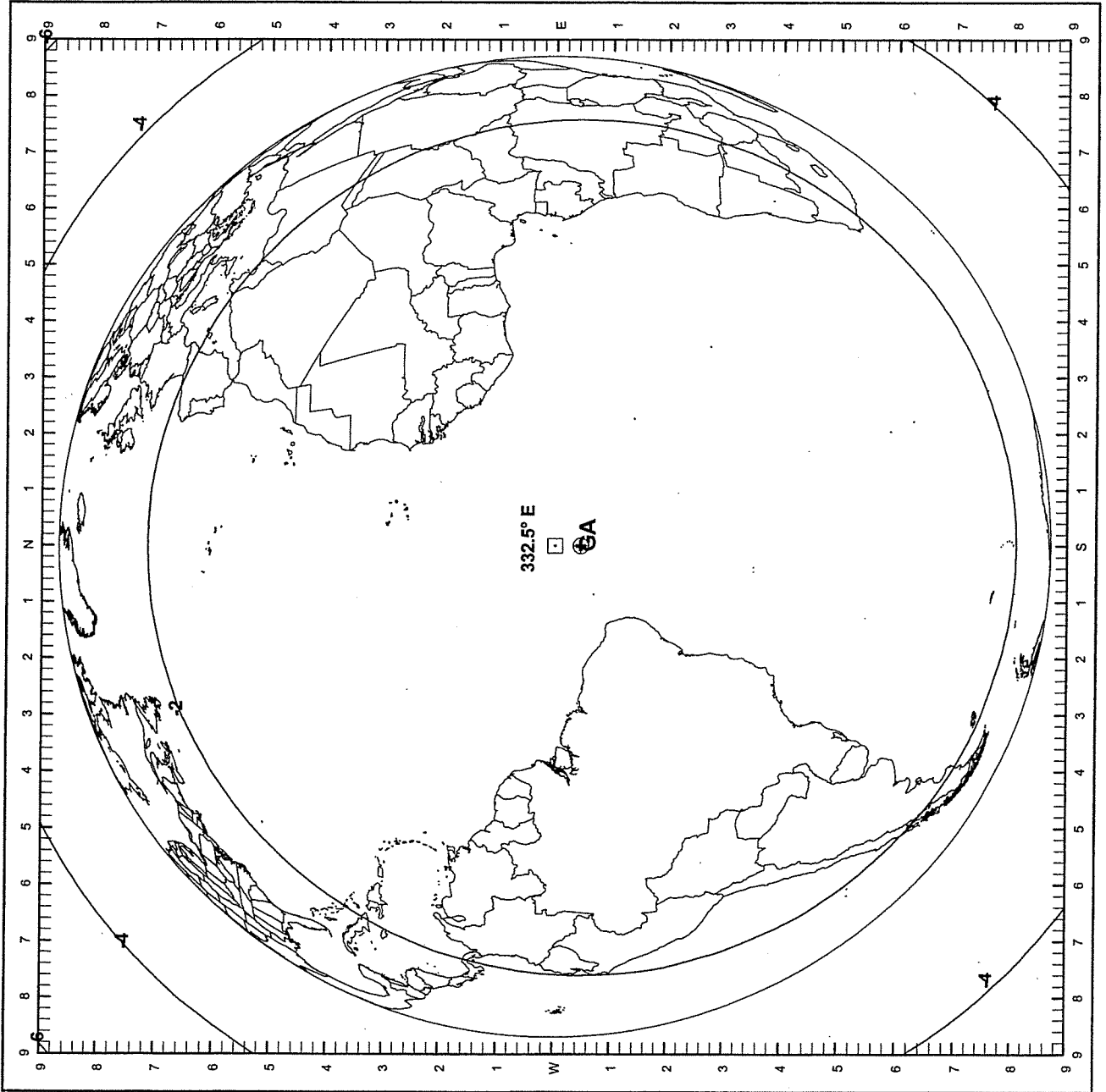
Contour Levels  
GA : -2, -4, -6, -8, -10, -15, -20 dB

Beam Frequencies  
GA : 4095

Polarization  
GA : Circular RHCP

Square : Sub-Satellite Point

Circle : Sat.Ant.Platform Bias







INTELSAT 907 at 332.50°E Antenna Coverage (Predicted)  
S/C Platform Bias : 0.00°E 0.45°S  
YAW : 0.00°

Peak Gain (Downlink Co-pol) (See +)  
AH1 : 26.3 dBi

Beam Peak EIRP  
AH1 : 39.2 dBW

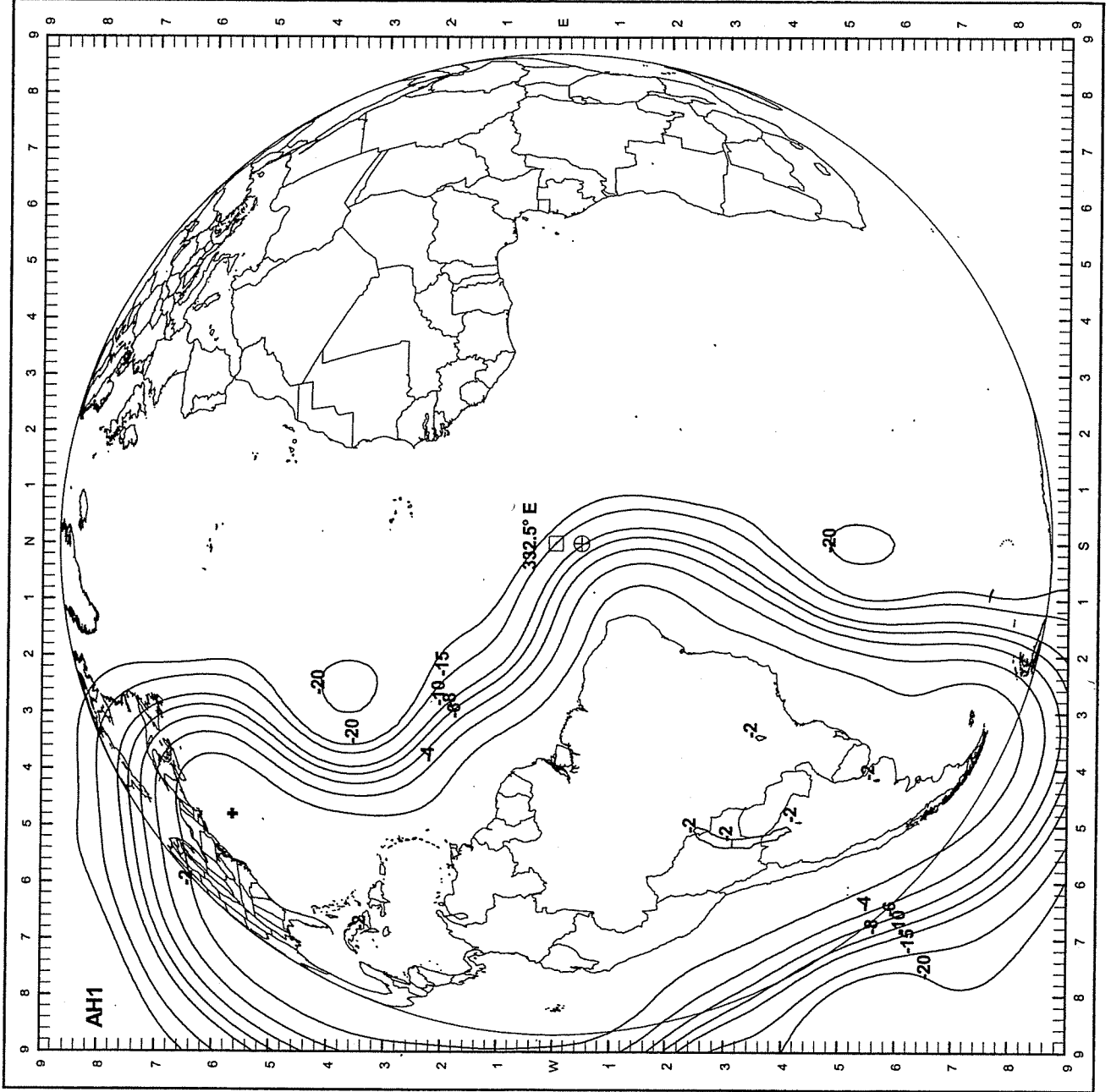
Contour Levels  
AH1 : -2, -4, -6, -8, -10, -15, -20 dB

Beam Frequencies  
AH1 : 3625

Polarization  
AH1 : Circular RHCP

Square : Sub-Satellite Point

Circle : Sat.Ant.Platform Bias





INTELSAT 907 at 332.50°E Antenna Coverage (Predicted)  
S/C Platform Bias : 0.00°E 0.45°S  
YAW : 0.00°

Peak Gain (Downlink Co-pol) (See +)  
AH2 : 25.7 dBi

Beam Peak EIRP  
AH2 : 40.0 dBW

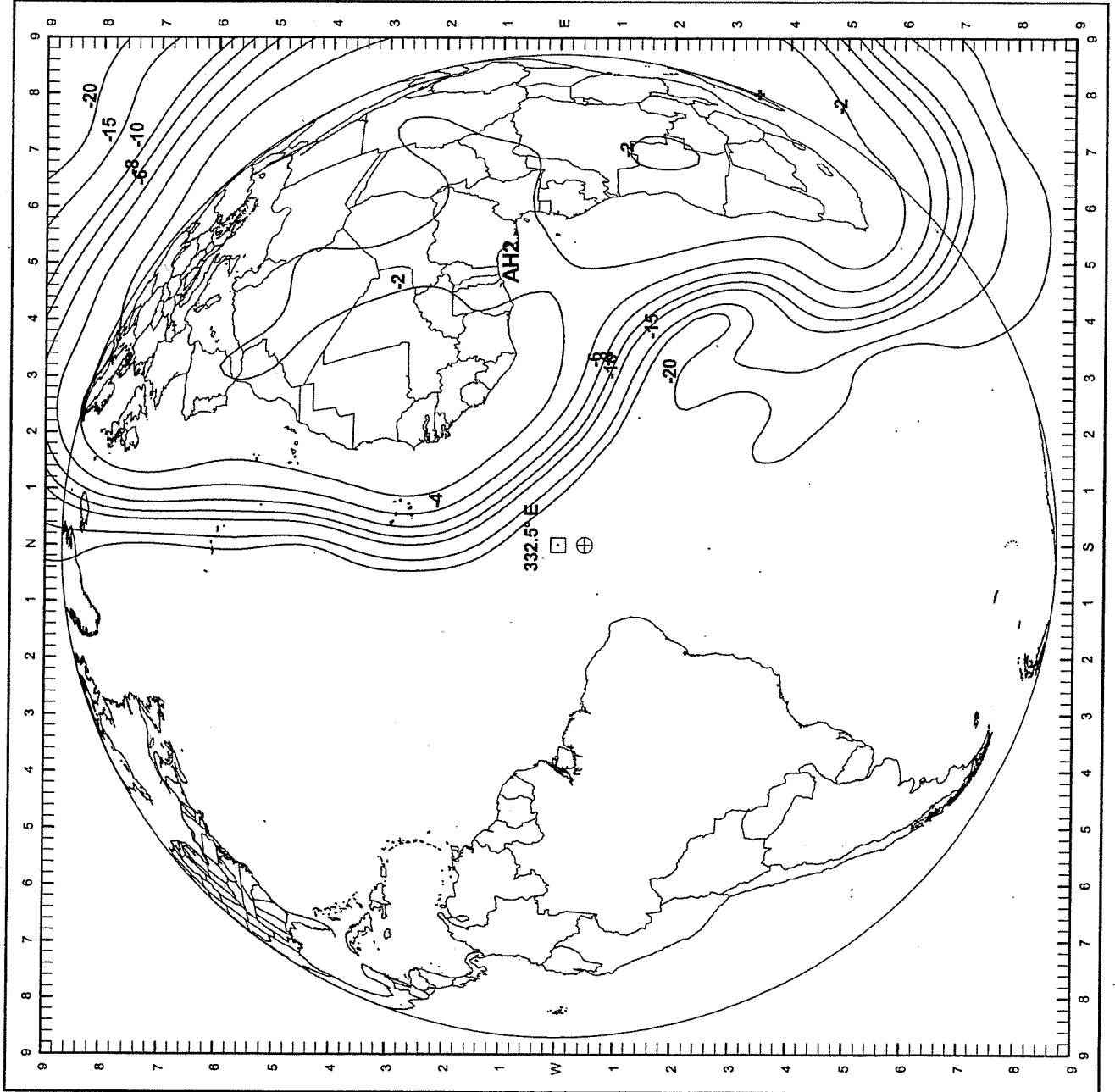
Contour Levels  
AH2 : -2, -4, -6, -8, -10, -15, -20 dB

Beam Frequencies  
AH2 : 3625

Polarization  
AH2 : Circular RHCP

Square : Sub-Satellite Point

Circle : Sat.Ant.Platform Bias



View : Orthographic 332.5° E  
Status : INTELSAT APPROVED

Plot Date: 14 August 2002  
pc5f09\proj19.apr



INTELSAT 907 at 332.50°E Antenna Coverage (Predicted)  
S/C Platform Bias : 0.00°E 0.45°S  
YAW : 0.00°

Peak Gain (Downlink Co-pol) (See +)  
AZ1 : 35.9 dBi

Beam Peak EIRP : 41.7 dBW  
AZ1

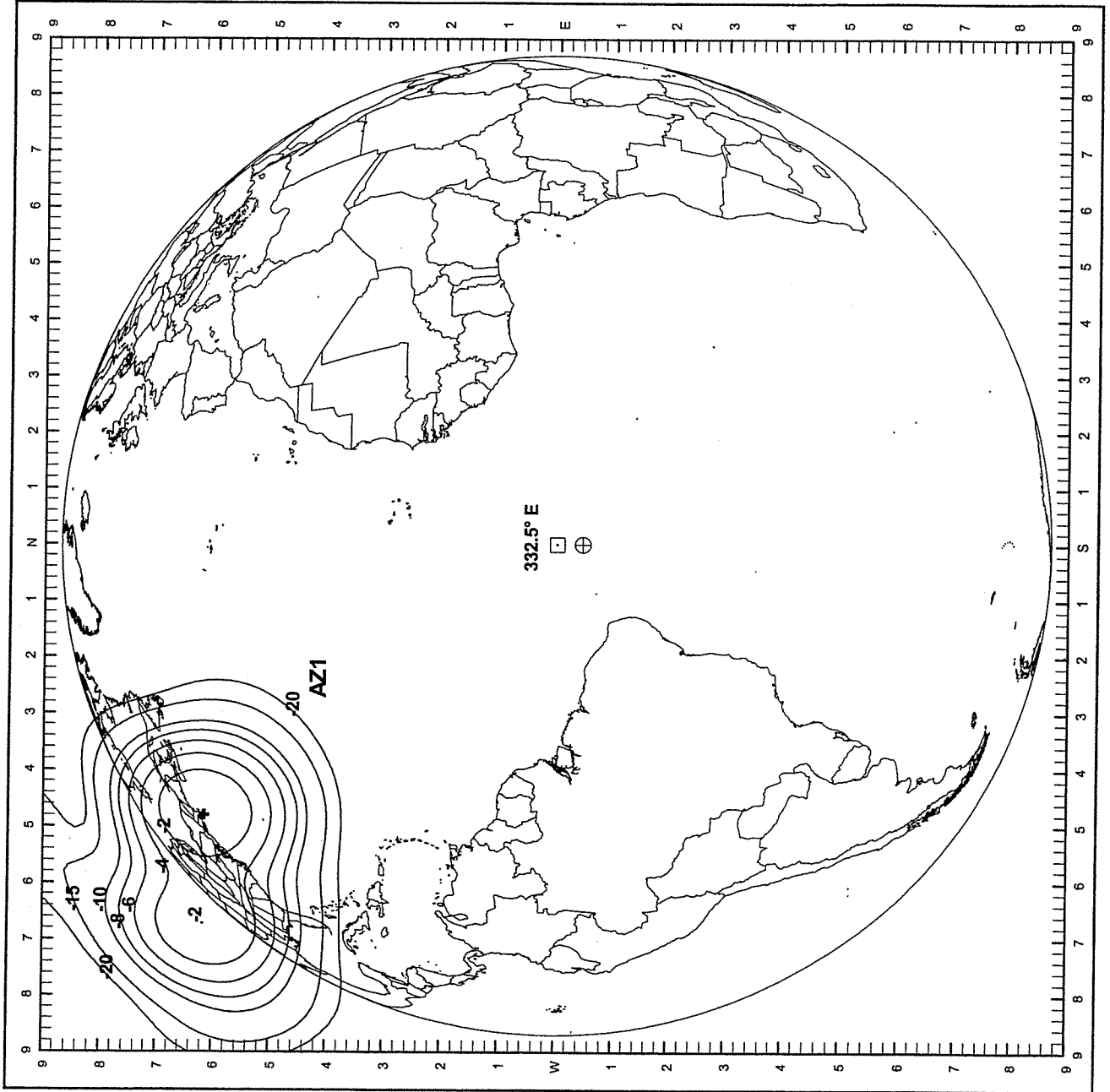
Contour Levels : -2, -4, -6, -8, -10, -15, -20 dB  
AZ1

Beam Frequencies : 3625  
AZ1

Polarization : Circular LHCP  
AZ1

Square : Sub-Satellite Point

Circle : Sat.Ant.Platform Bias





INTELSAT 907 at 332.50°E Antenna Coverage (Predicted)  
S/C Platform Bias : 0.00°E 0.45°S  
YAW : 0.00°

Peak Gain (Downlink Co-pol) (See +)  
AZ25 : 30.2 dBi

Beam Peak EIRP  
AZ25 : 42.3 dBW

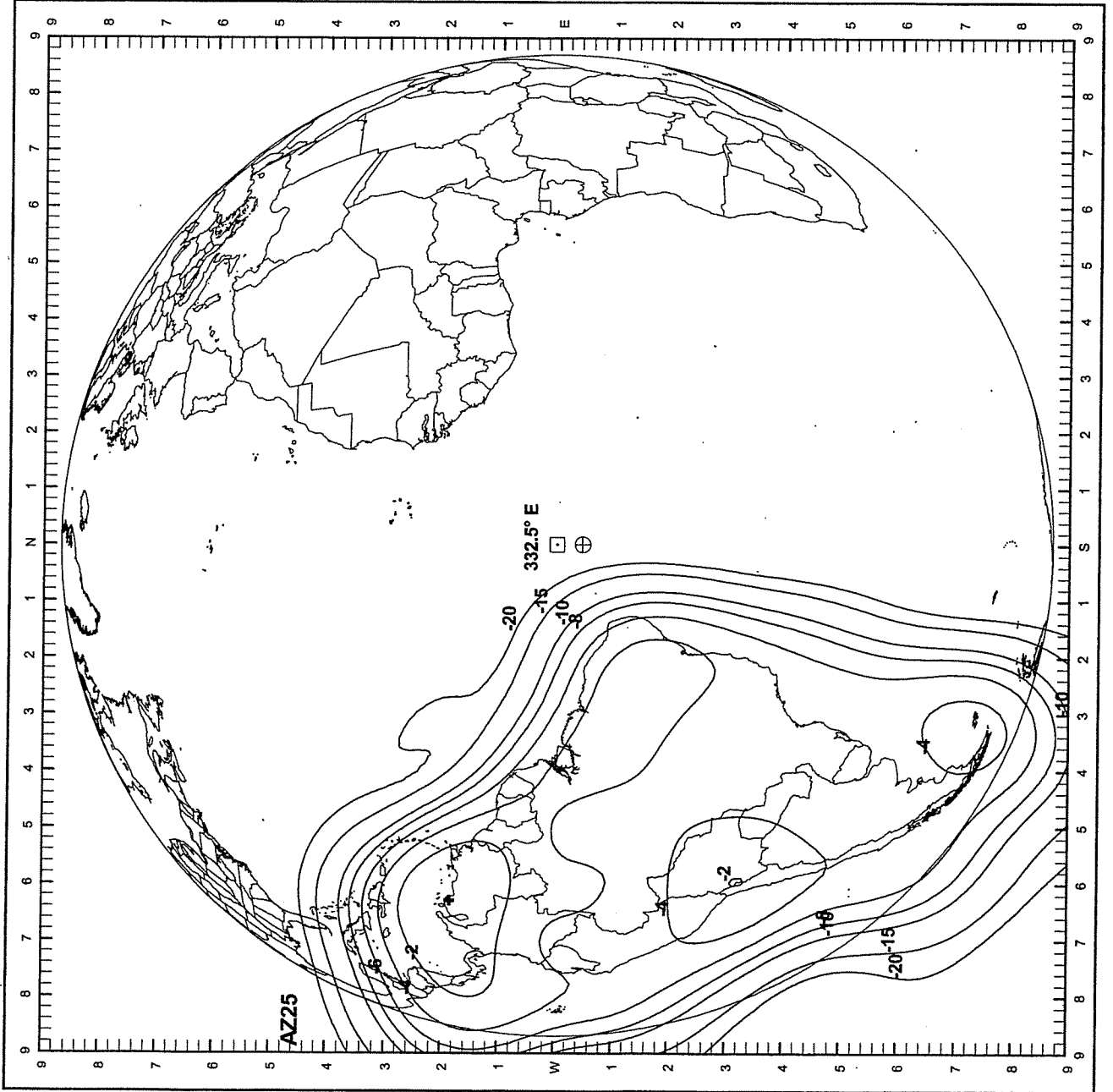
Contour Levels  
AZ25 : -2, -4, -6, -8, -10, -15, -20 dB

Beam Frequencies  
AZ25 : 3625

Polarization  
AZ25 : Circular LHCP

Square : Sub-Satellite Point

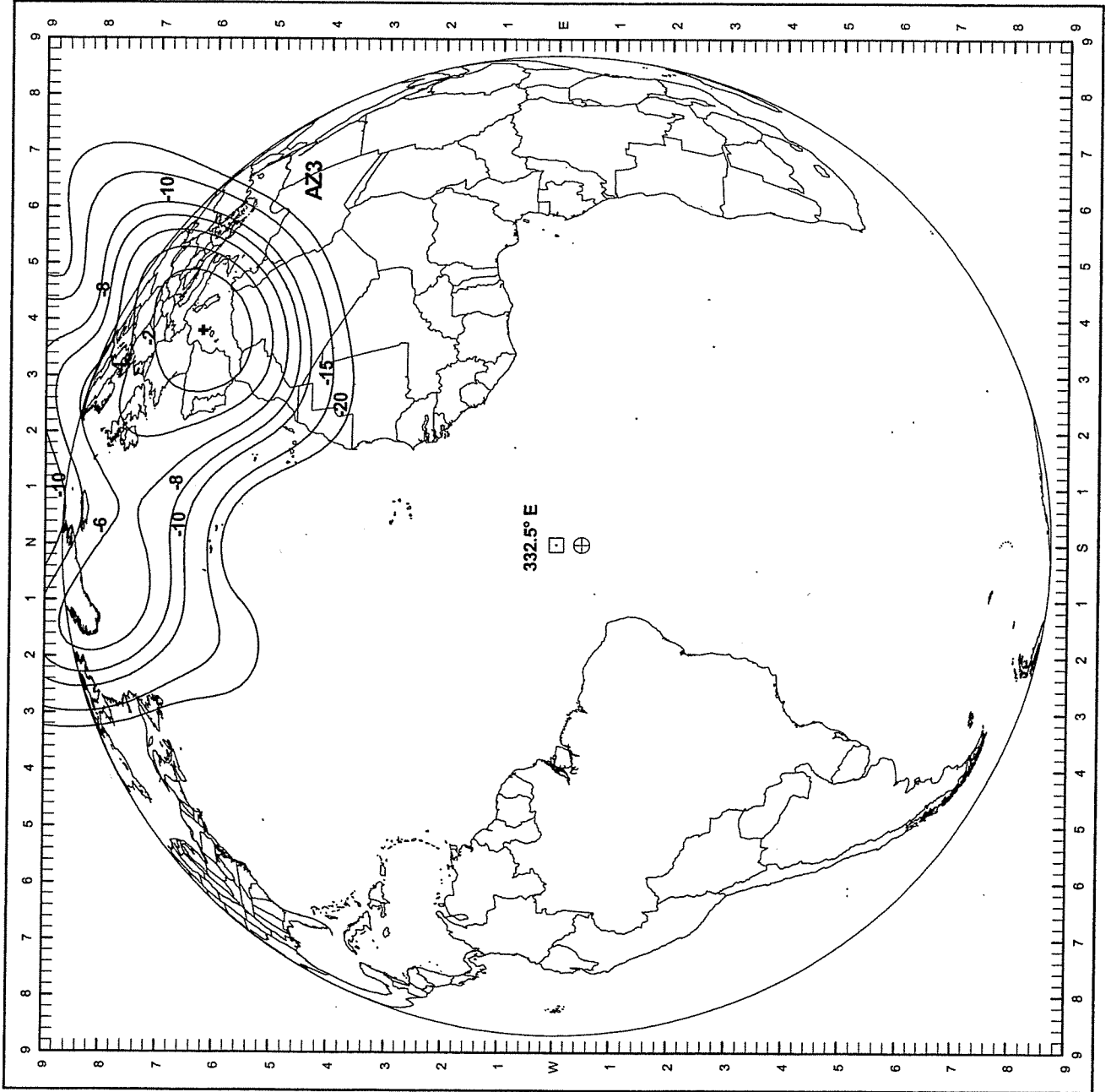
Circle : Sat.Ant.Platform Bias





**INTELSAT 907 at 332.50°E Antenna Coverage (Predicted)**

S/C Platform Bias : 0.00°E 0.45°S  
YAW : 0.00°  
Peak Gain (Downlink Co-pol) (See +)  
AZ3 : 34.3 dBi  
Beam Peak EIRP : 44.7 dBW  
AZ3 : -2, -4, -6, -8, -10, -15, -20 dB  
Contour Levels :  
AZ3 : -2, -4, -6, -8, -10, -15, -20 dB  
Beam Frequencies : 3625  
Polarization : Circular LHCP  
AZ3 :  
Square : Sub-Satellite Point  
Circle : Sat.Ant.Platform Bias





INTELSAT 907 at 332.50°E Antenna Coverage (Predicted)  
S/C Platform Bias : 0.00°E 0.45°S  
YAW : 0.00°

Peak Gain (Downlink Co-pol) (See +)  
AZ4 : 27.7 dBi

Beam Peak EIRP  
AZ4 : 40.2 dBW

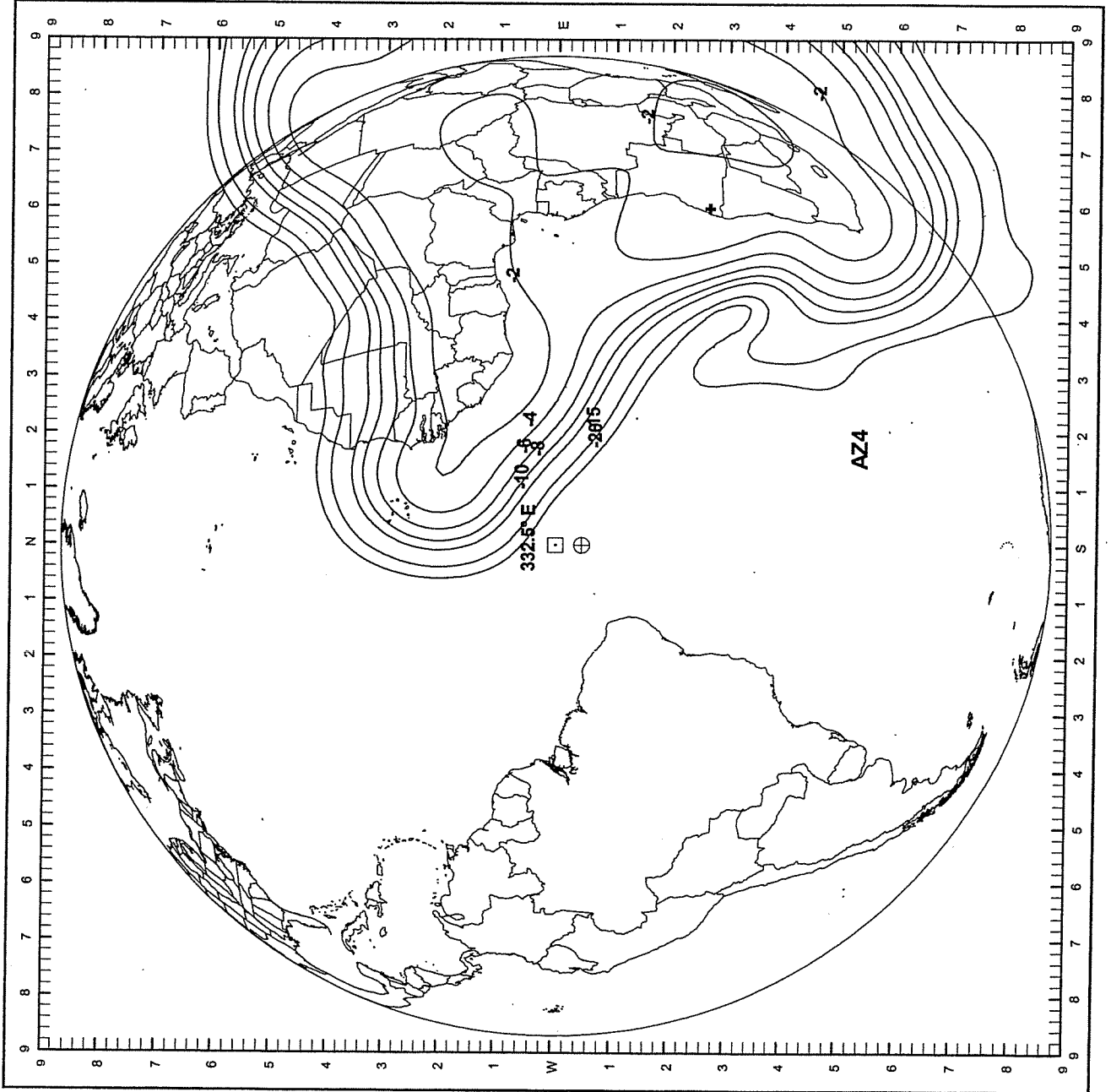
Contour Levels  
AZ4 : -2, -4, -6, -8, -10, -15, -20 dB

Beam Frequencies  
AZ4 : 3625

Polarization  
AZ4 : Circular LHCP

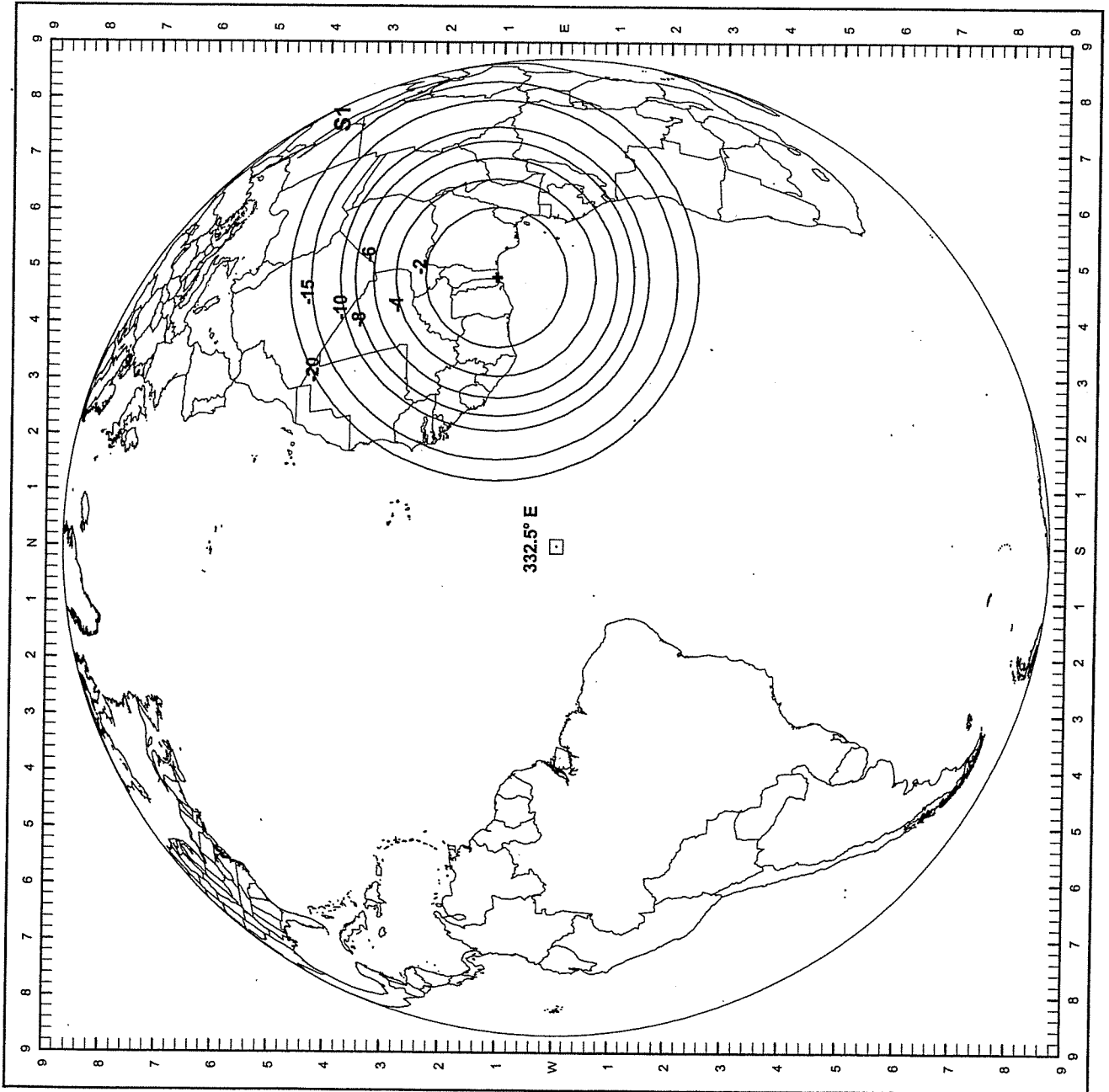
Square : Sub-Satellite Point

Circle : Sat.Ant.Platform Bias





INTELSAT 907 at 332.50°E Antenna Coverage (Predicted)  
S/C Platform Bias : 0.00°E 0.45°S  
YAW : 0.00°  
Antenna Pointing  
S1 : 4.80°E 1.10°N  
Peak Gain (Downlink Co-pol) (See +)  
S1 : 35.9 dBi  
Beam Peak EIRP  
S1 : 52.4 dBW  
Contour Levels  
S1 : -2, -4, -6, -8, -10, -15, -20 dB  
Beam Frequencies  
S1 : 11200  
Polarization  
S1 : Linear Vertical  
Square : Sub-Satellite Point





INTELSAT 907 at 332.50°E Antenna Coverage (Predicted)

S/C Platform Bias : 0.00°E 0.45°S

YAW : 0.00°

Antenna Pointing : S2 : 2.50°E 6.45°N

Peak Gain (Downlink Co-pol) (See +)

S2 : 35.9 dBi

Beam Peak EIRP : 52.5 dBW

S2 : 52.5 dBW

Contour Levels : -2, -4, -6, -8, -10, -15, -20 dB

S2 : -2, -4, -6, -8, -10, -15, -20 dB

Beam Frequencies : 11200

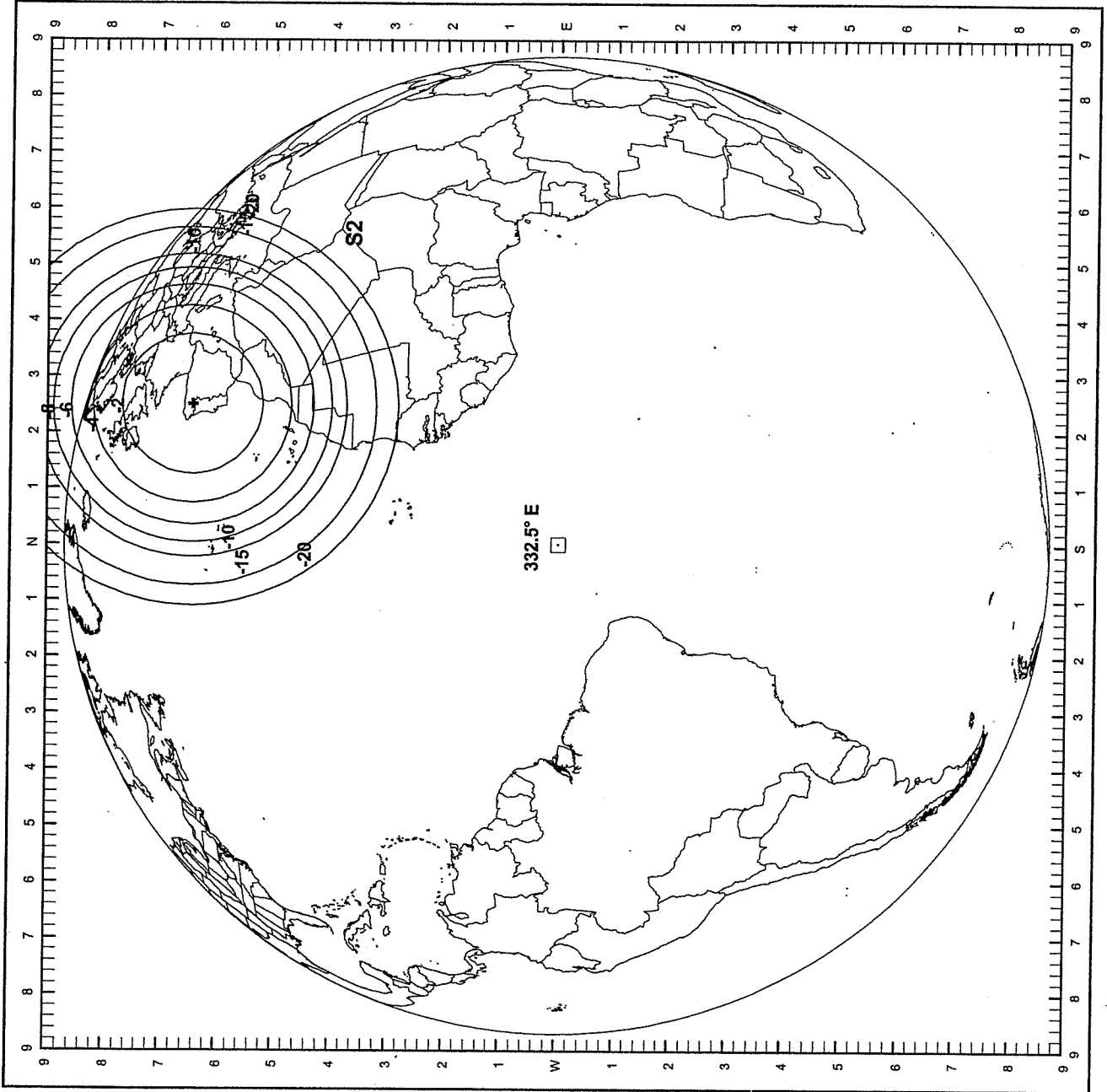
S2 : 11200

Polarization : Linear Horizontal

S2 : Linear Horizontal

Square : Sub-Satellite Point

S2 : Sub-Satellite Point







INTELSAT 907 at 332.50°E Antenna Coverage  
S/C Platform Bias : 0.00°E 0.45°S  
YAW : 0.00°

Peak Gain (Downlink X-pol) (See +)  
GA : -25.3 dBi

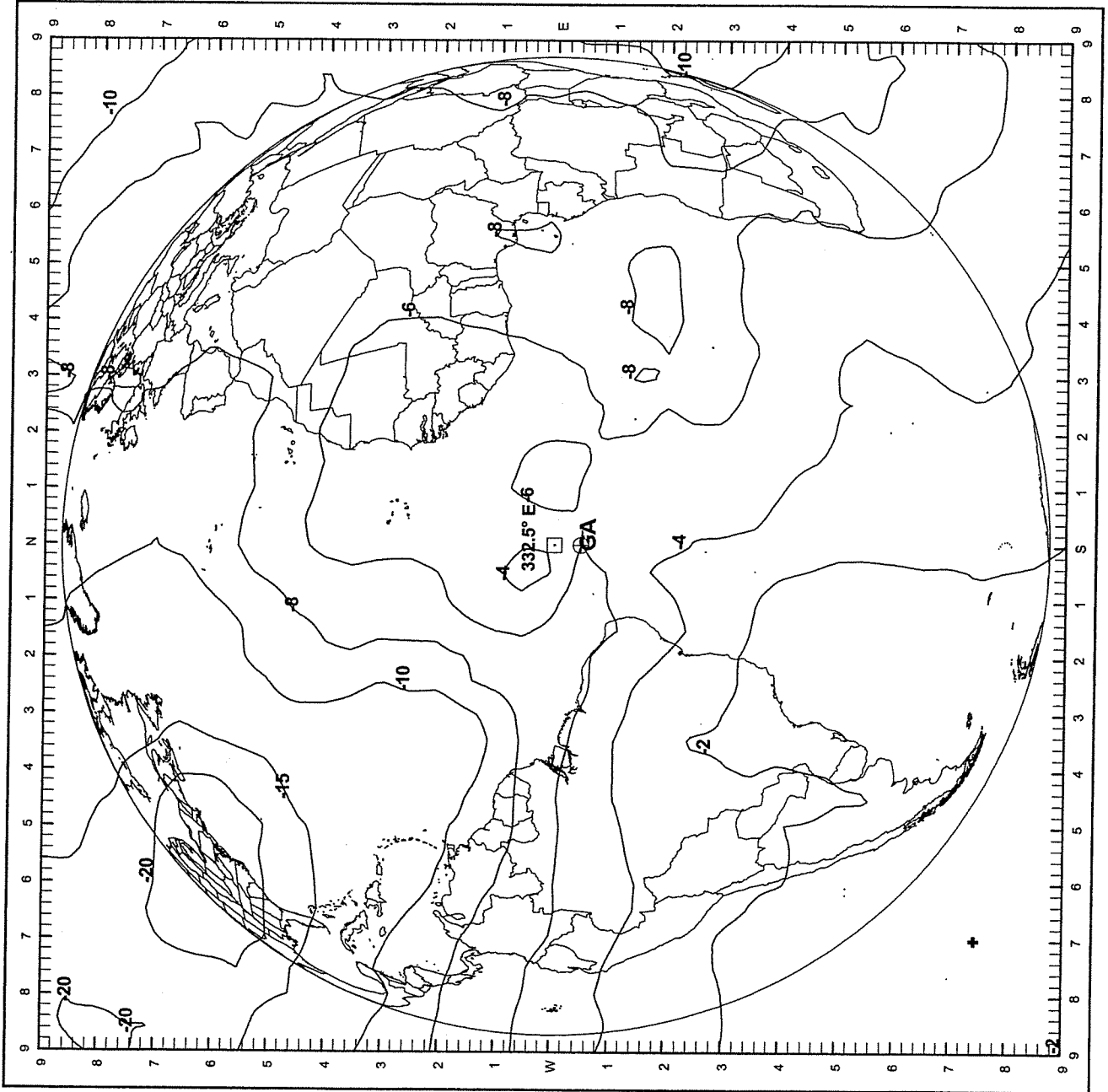
Contour Levels  
GA : -2, -4, -6, -8, -10, -15, -20 dB

Beam Frequencies  
GA : 4095

Polarization  
GA : Circular LHCP

Square : Sub-Satellite Point

Circle : Sat.Ant.Platform Bias





INTELSAT 907 at 332.50°E Antenna Coverage (Predicted)  
S/C Platform Bias : 0.00°E 0.45°S  
YAW : 0.00°

Peak Gain (Downlink X-pol) (See +)  
AH1 : -8.6 dBi

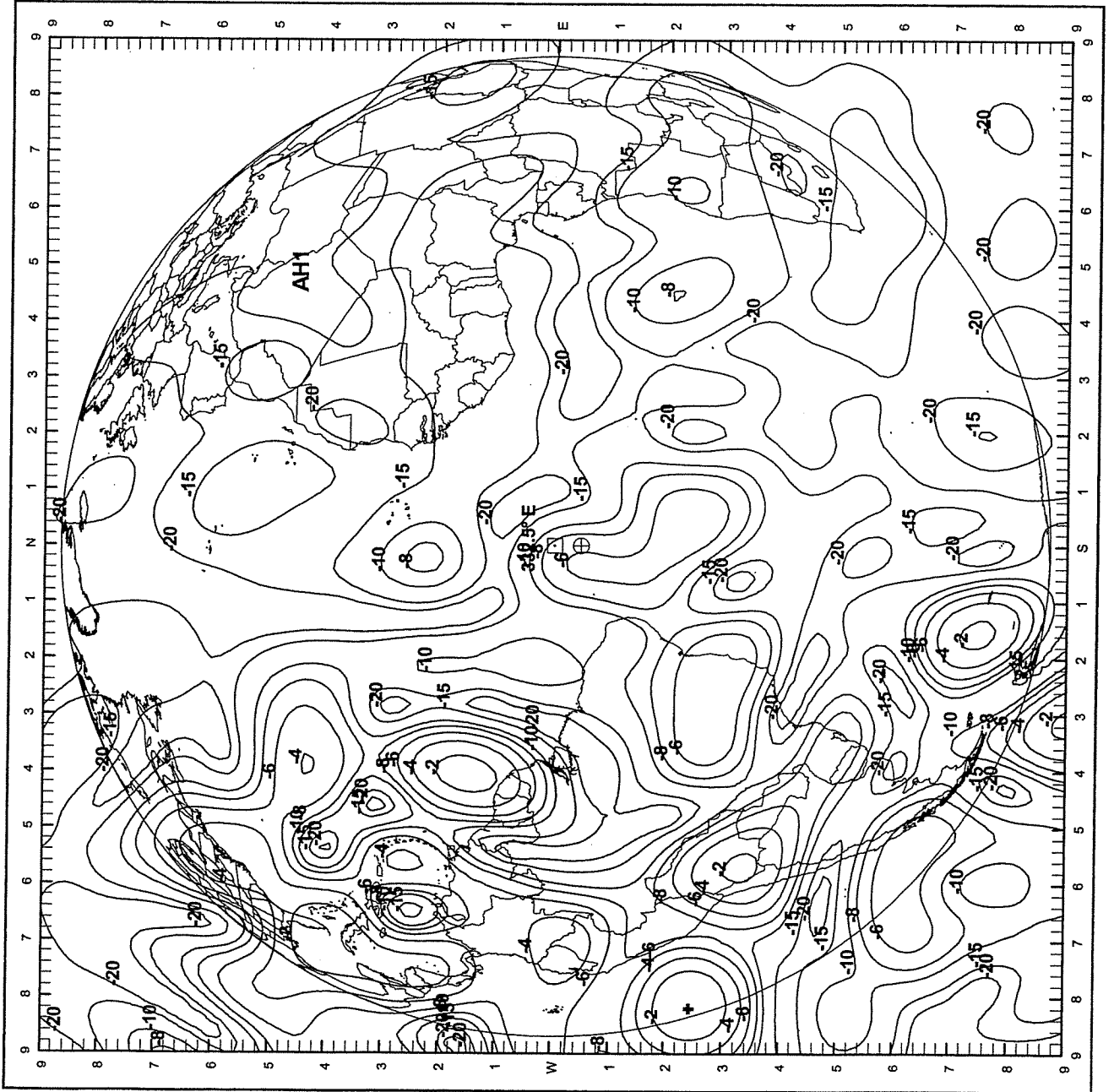
Contour Levels  
AH1 : -2, -4, -6, -8, -10, -15, -20 dB

Beam Frequencies  
AH1 : 3625

Polarization  
AH1 : Circular LHCP

Square : Sub-Satellite Point

Circle : Sat.Ant.Platform Bias





INTELSAT 907 at 332.50°E Antenna Coverage (Predicted)  
S/C Platform Bias : 0.00°E 0.45°S  
YAW : 0.00°

Peak Gain (Downlink X-pol) (See +)  
AH2 : -7.6 dBi

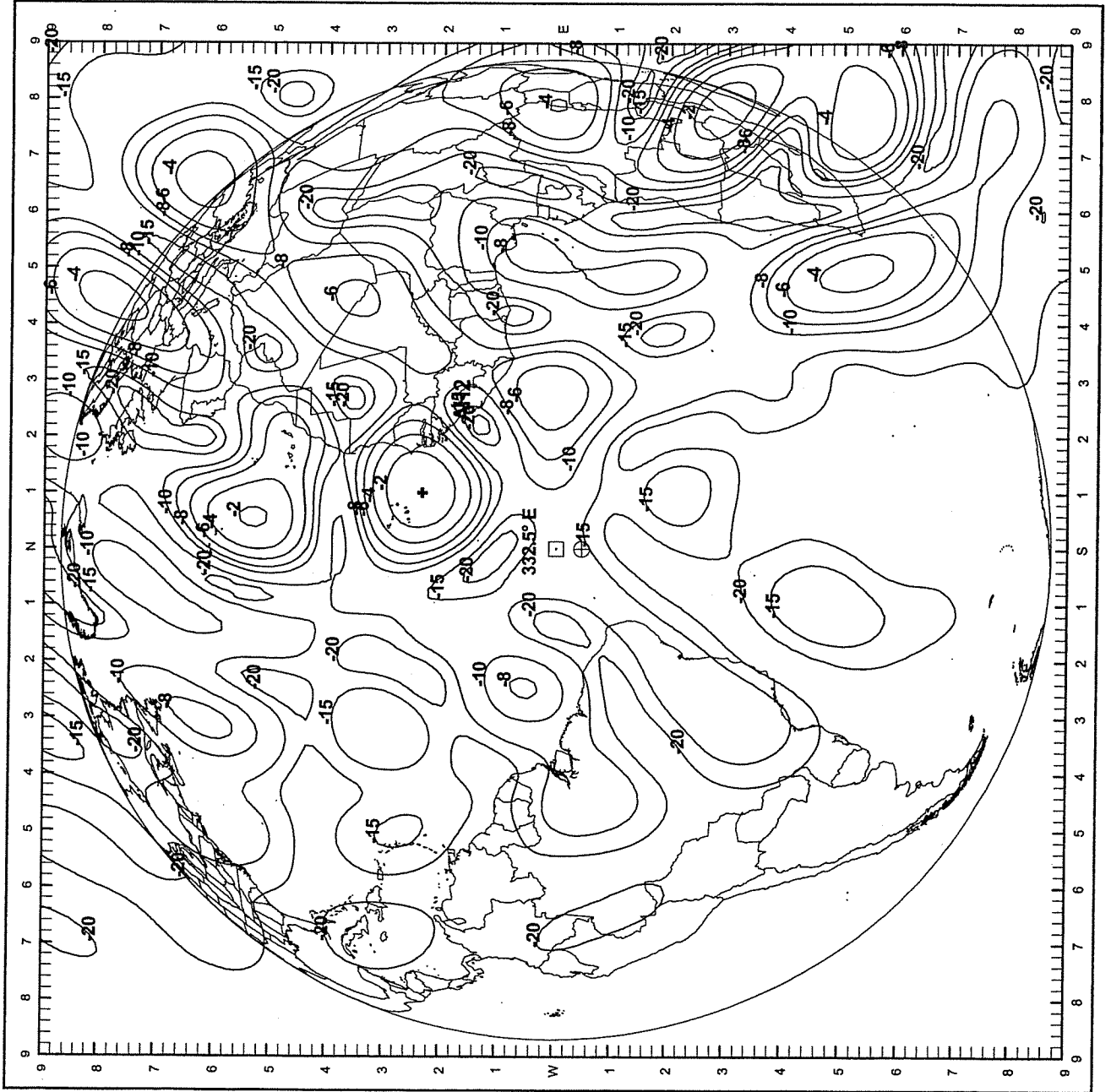
Contour Levels  
AH2 : -2, -4, -6, -8, -10, -15, -20 dB

Beam Frequencies  
AH2 : 3625

Polarization  
AH2 : Circular LHCP

Square : Sub-Satellite Point

Circle : Sat.Ant.Platform Bias





INTELSAT 907 at 332.50°E Antenna Coverage (Predicted)  
S/C Platform Bias : 0.00°E 0.45°S  
YAW : 0.00°

Peak Gain (Downlink X-pol) (See +)  
AZI : 0.3 dBi

Contour Levels

AZI : -2, -4, -6, -8, -10, -15,  
-20 dB

Beam Frequencies

AZI : 3625

Polarization

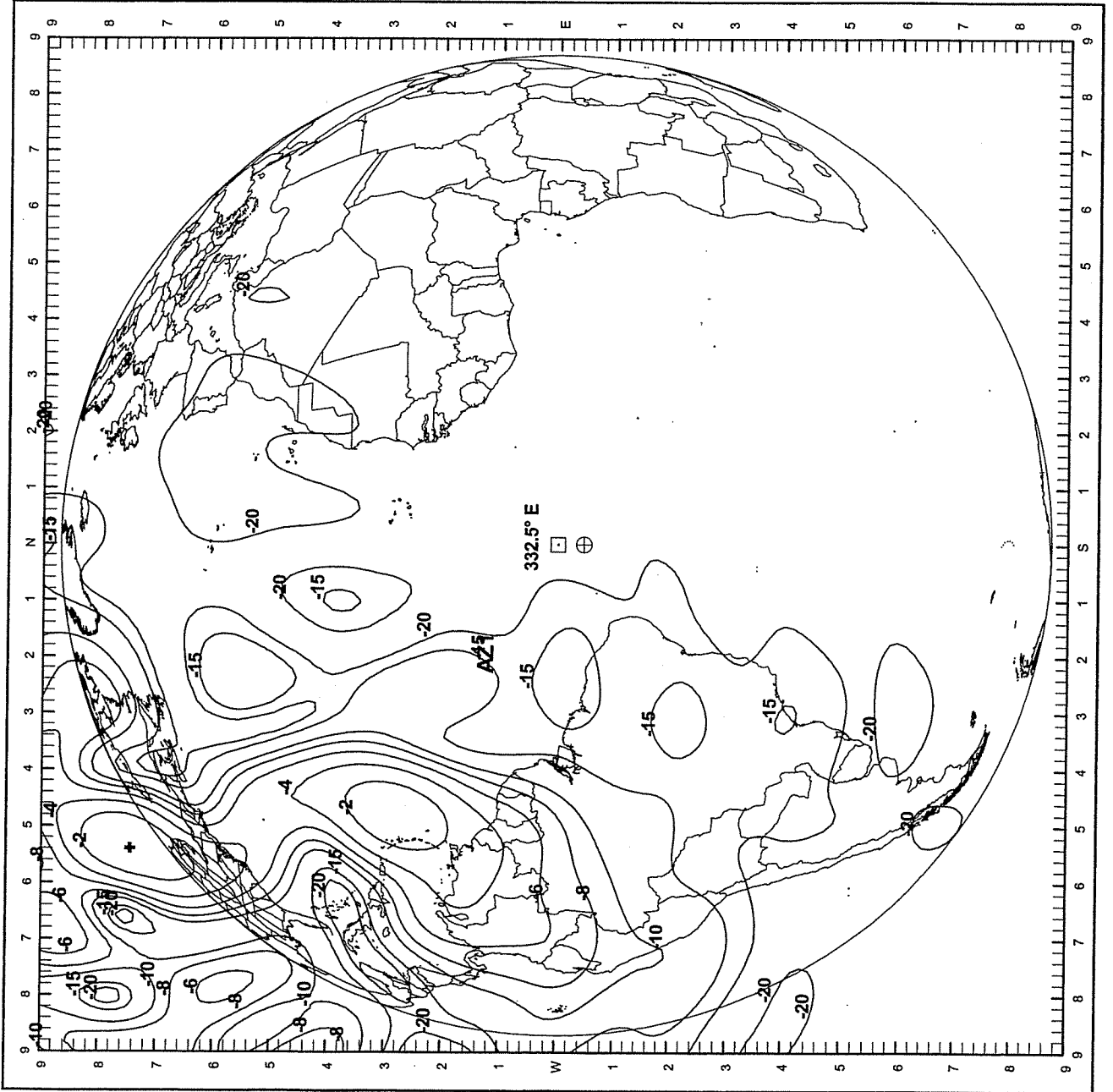
AZI : Circular RHCP

Square

: Sub-Satellite Point

Circle

: Sat.Ant.Platform Bias



View : Orthographic 332.5° E  
Status : INTELSAT APPROVED

Plot Date: 14 August 2002  
pc5f09proj19.apr



INTELSAT 907 at 332.50°E Antenna Coverage (Predicted)  
S/C Platform Bias : 0.00°E 0.45°S  
YAW : 0.00°

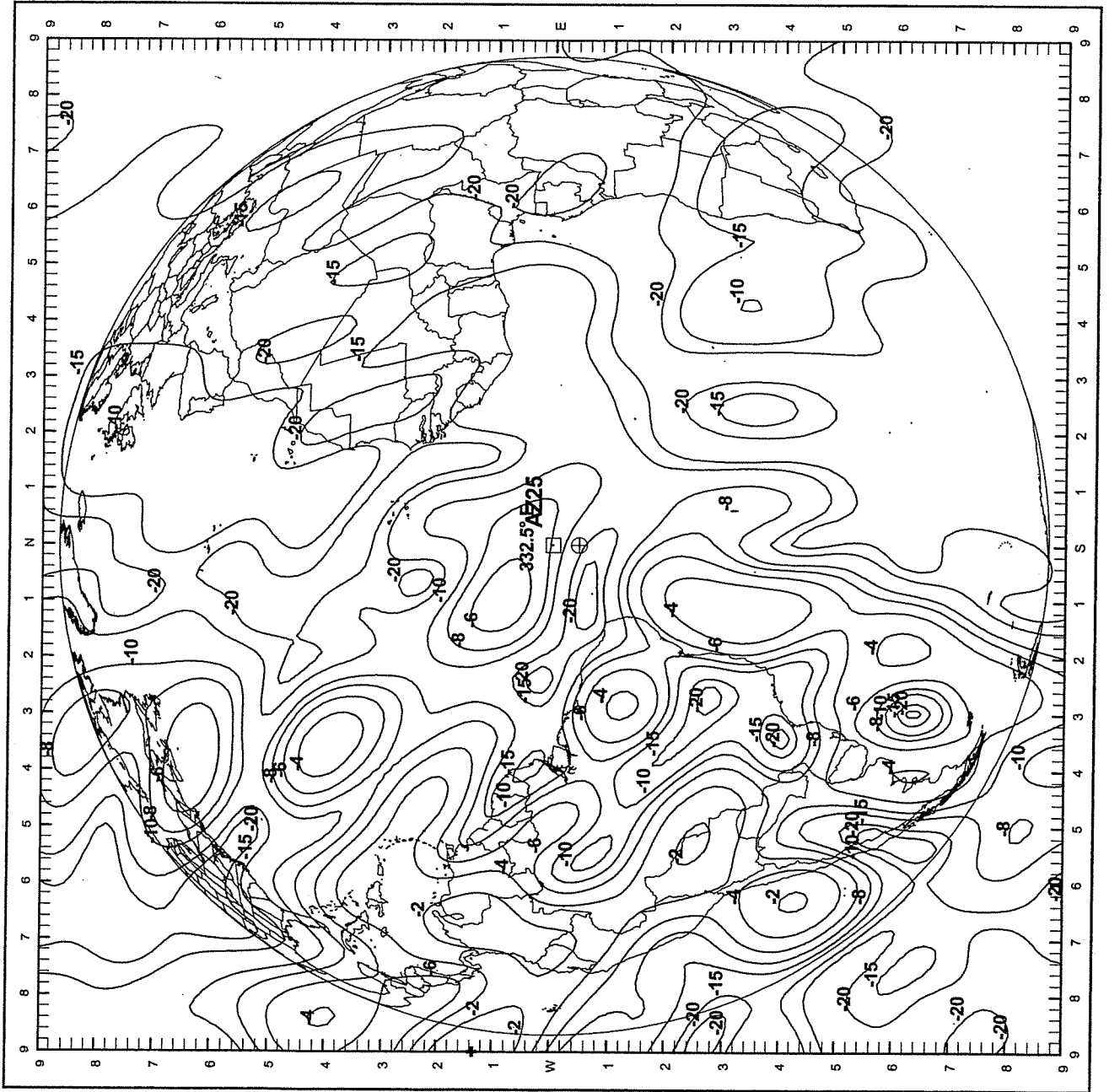
Peak Gain (Downlink X-pol) (See +)  
AZ25 : -6.7 dBi

Contour Levels  
AZ25 : -2, -4, -6, -8, -10, -15, -20 dB

Beam Frequencies  
AZ25 : 3625

Polarization  
AZ25 : Circular RHCP

Square : Sub-Satellite Point  
Circle : Sat.Ant.Platform Bias





INTELSAT 907 at 332.50°E Antenna Coverage (Predicted)  
S/C Platform Bias : 0.00°E 0.45°S  
YAW : 0.00°

Peak Gain (Downlink X-pol) (See +)  
AZ3 : -3.2 dB

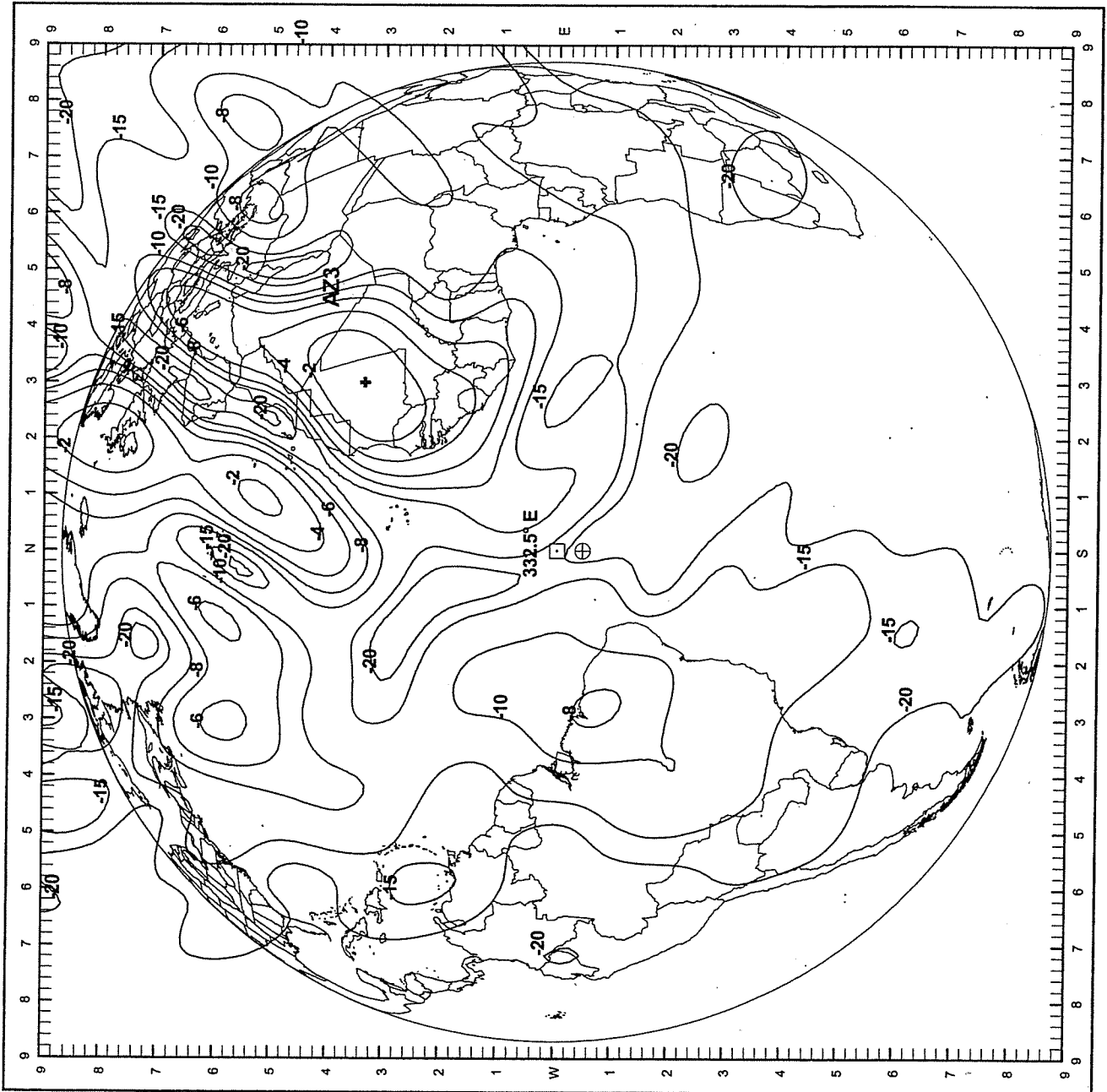
Contour Levels  
AZ3 : -2, -4, -6, -8, -10, -15,  
-20 dB

Beam Frequencies  
AZ3 : 3625

Polarization  
AZ3 : Circular RHCP

Square : Sub-Satellite Point

Circle : Sat.Ant.Platform Bias





INTELSAT 907 at 332.50°E Antenna Coverage (Predicted)  
S/C Platform Bias : 0.00°E 0.45°S  
YAW : 0.00°

Peak Gain (Downlink X-pol) (See +)  
AZ4 : -6.8 dBi

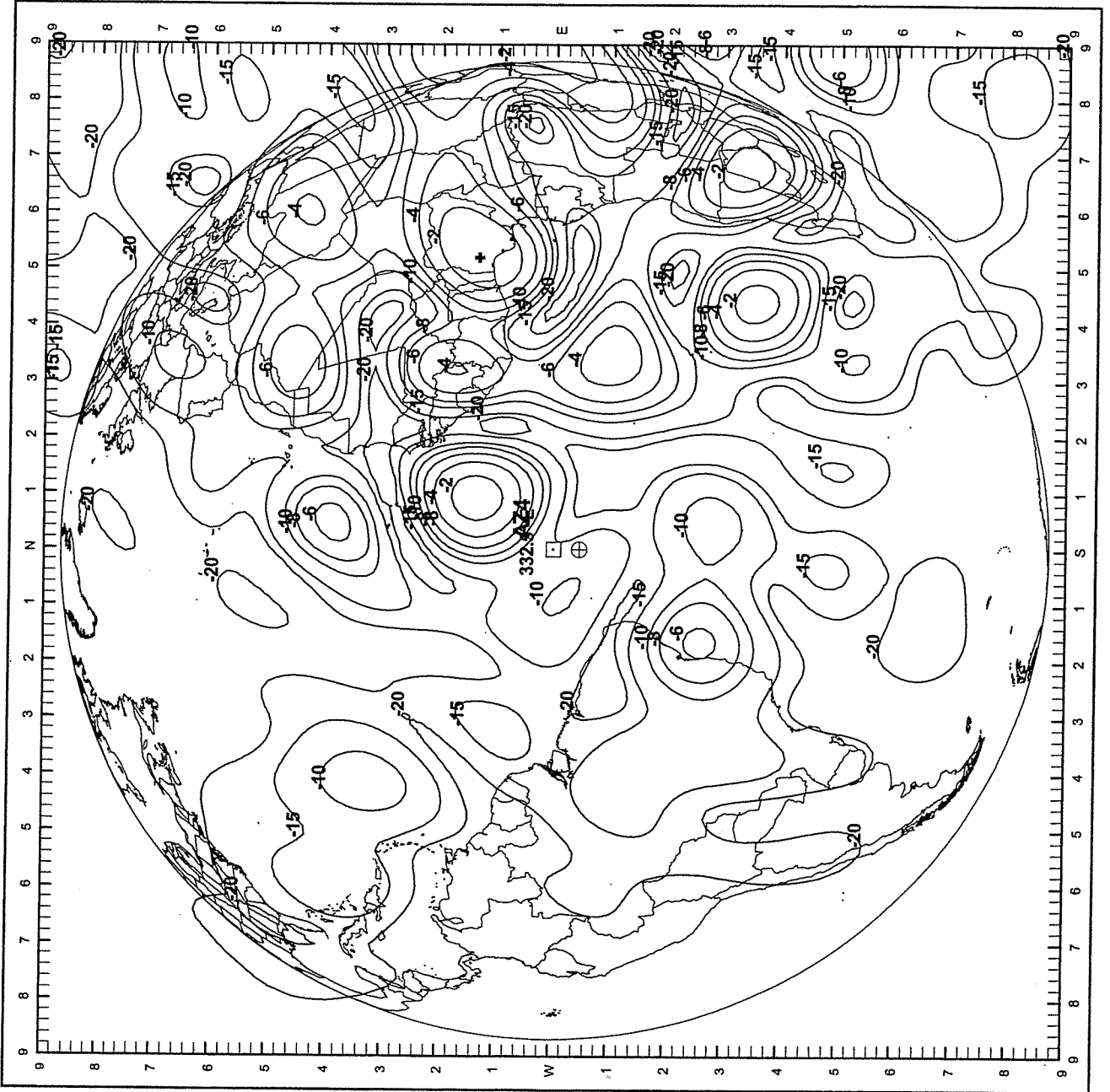
Contour Levels  
AZ4 : -2, -4, -6, -8, -10, -15, -20 dB

Beam Frequencies  
AZ4 : 3625

Polarization  
AZ4 : Circular RHCP

Square : Sub-Satellite Point

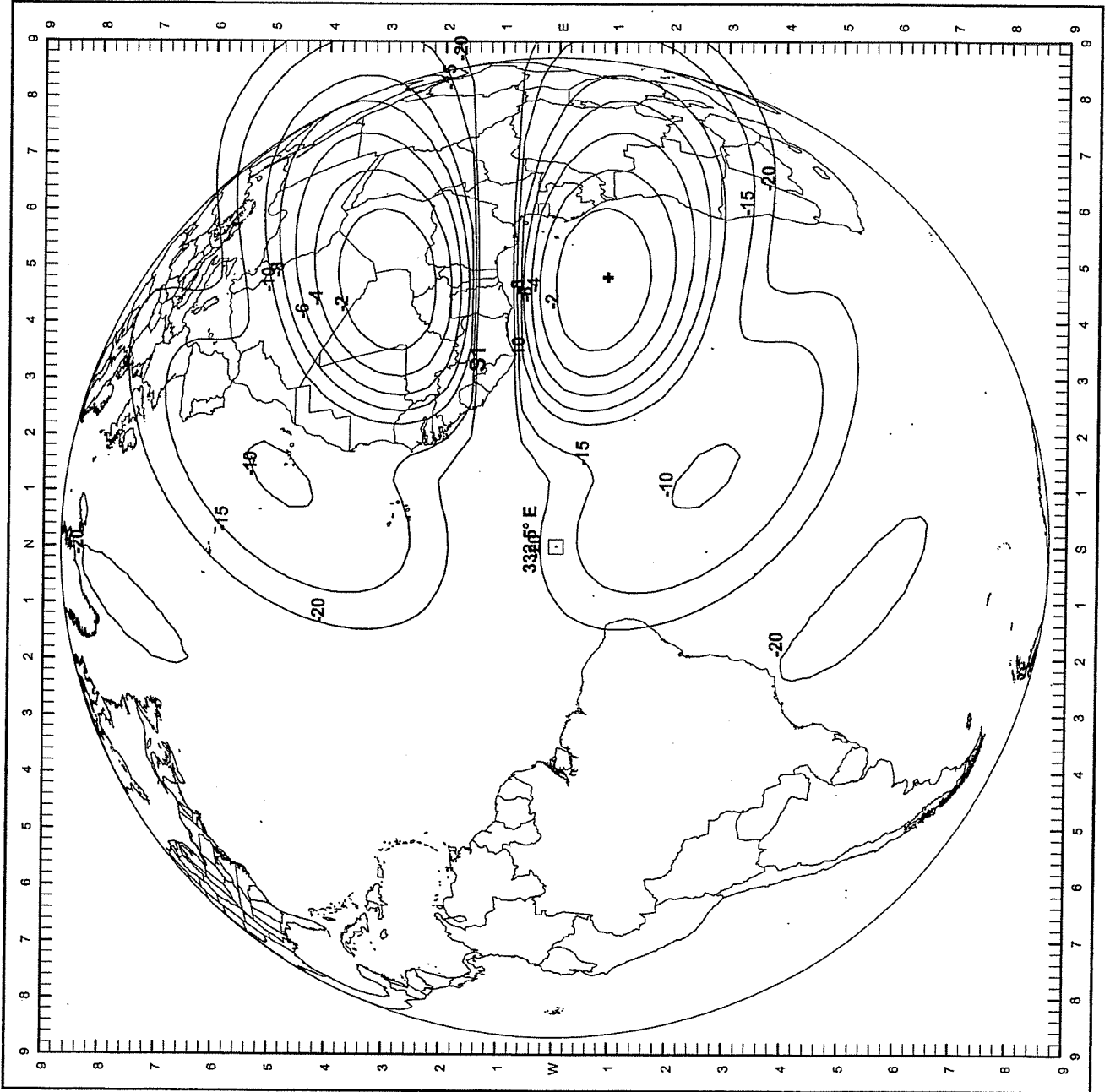
Circle : Sat.Ant.Platform Bias





**INTELSAT 907 at 332.50°E Antenna Coverage (Predicted)**

S/C Platform Bias : 0.00°E 0.45°S  
YAW : 0.00°  
Antenna Pointing  
S1 : 4.80°E 1.10°N  
Peak Gain (Downlink X-pol) (See +)  
S1 : -0.8 dBi  
Contour Levels  
S1 : -2, -4, -6, -8, -10, -15, -20 dB  
Beam Frequencies : 11200  
Polarization : Linear Horizontal  
Square : Sub-Satellite Point

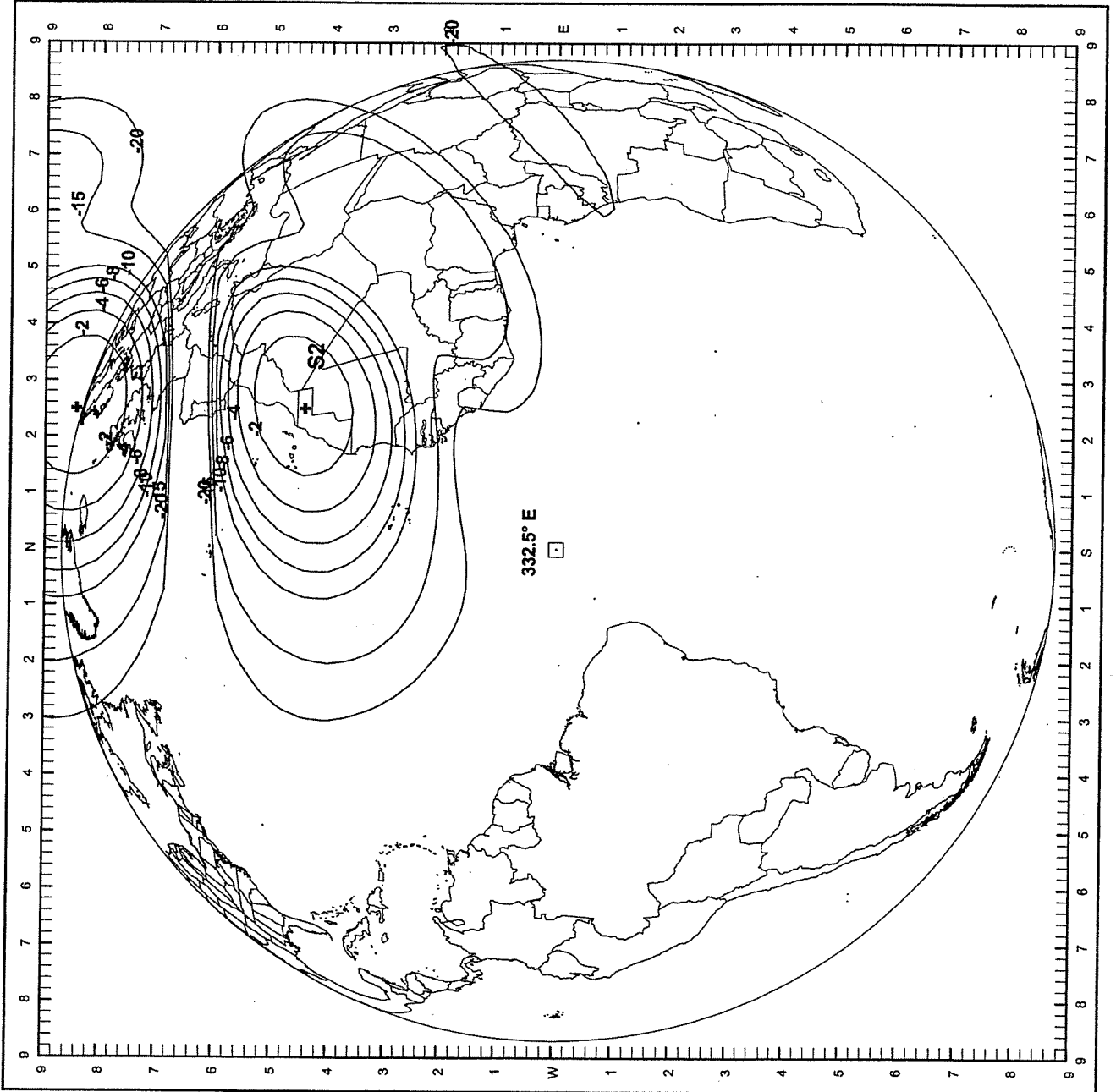






**INTELSAT 907 at 332.50°E Antenna Coverage (Predicted)**

S/C Platform Bias : 0.00°E 0.45°S  
YAW : 0.00°  
Antenna Pointing  
S2 : 2.50°E 6.45°N  
Peak Gain (Downlink X-pol) (See +)  
S2 : -0.5 dBi  
Contour Levels  
S2 : -2, -4, -6, -8, -10, -15,  
-20 dB  
Beam Frequencies : 11200  
Polarization : Linear Vertical  
Square : Sub-Satellite Point





INTELSAT 907 at 332.50°E Antenna Coverage  
S/C Platform Bias : 0.00°E 0.45°S  
YAW : 0.00°

Peak Gain (Uplink Co-pol) (See +)  
GA : 20.0 dBi

Beam Peak G/T  
GA : -7.7 dB/K

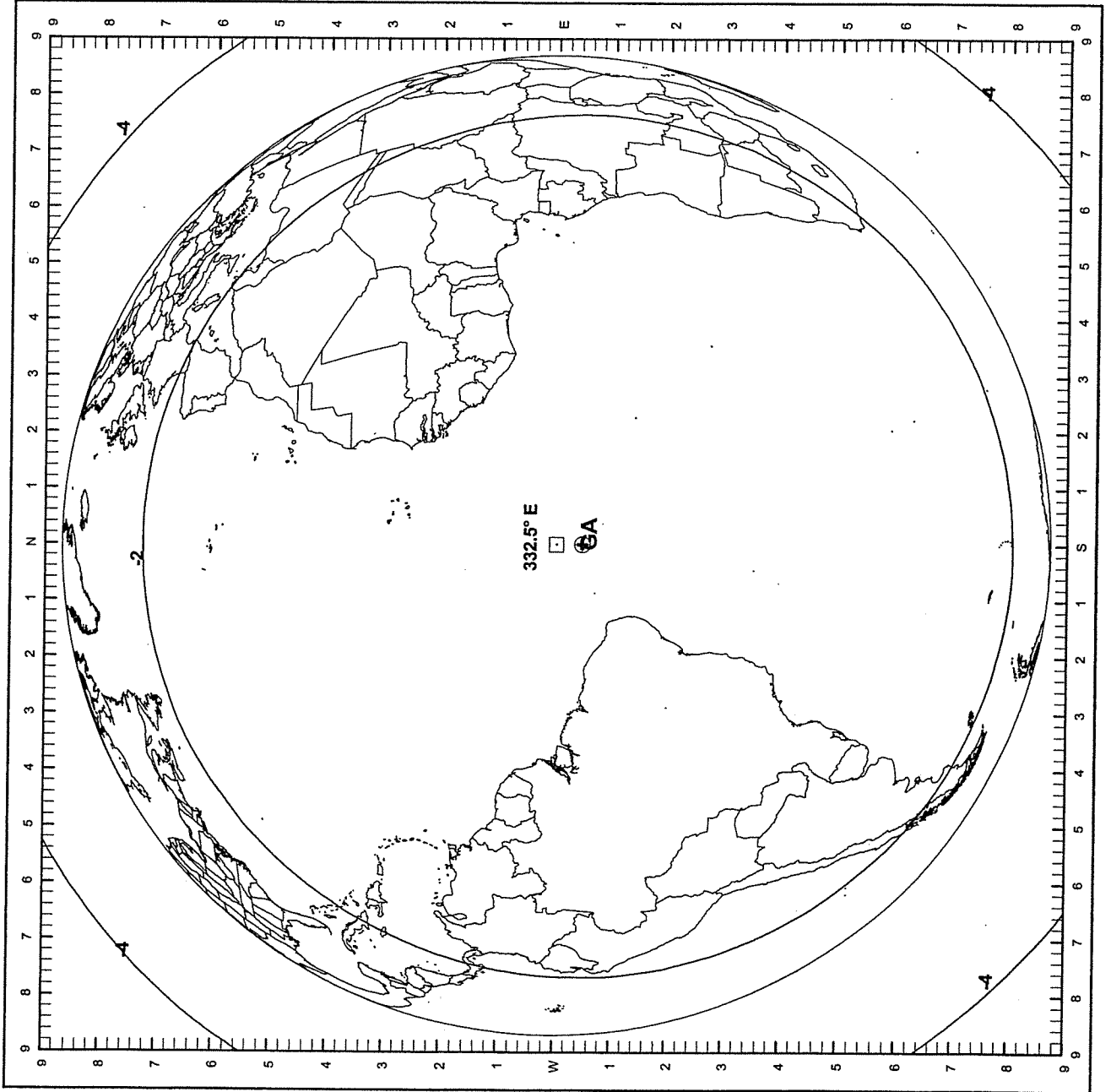
Contour Levels  
GA : -2, -4, -6, -8, -10, -15, -20 dB

Beam Frequencies  
GA : 6320

Polarization  
GA : Circular LHCP

Square : Sub-Satellite Point

Circle : Sat.Ant.Platform Bias





INTELSAT 907 at 332.50°E Antenna Coverage (Predicted)  
S/C Platform Bias : 0.00°E 0.45°S  
YAW : 0.00°

Peak Gain (Uplink Co-pol) (See +)  
AH1 : 26.3 dBi

Beam Peak G/T  
AH1 : -4.3 dB/K

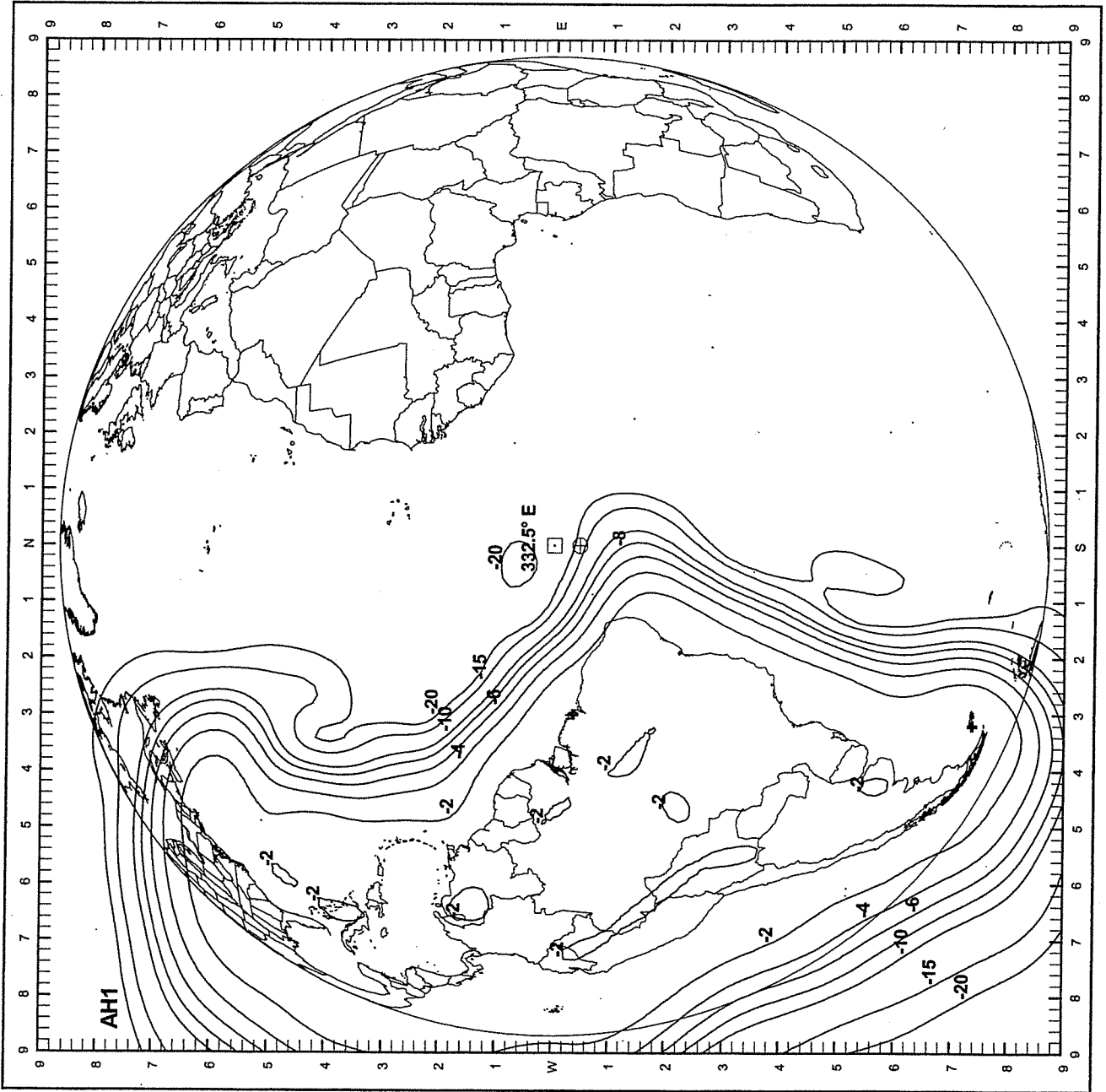
Contour Levels  
AH1 : -2, -4, -6, -8, -10, -15, -20 dB

Beam Frequencies  
AH1 : 5850

Polarization  
AH1 : Circular LHCP

Square : Sub-Satellite Point

Circle : Sat. Ant. Platform Bias





INTELSAT 907 at 332.50°E Antenna Coverage (Predicted)  
S/C Platform Bias : 0.00°E 0.45°S  
YAW : 0.00°

Peak Gain (Uplink Co-pol) (See +)  
AH2 : 26.1 dBi

Beam Peak G/T  
AH2 : -4.4 dB/K

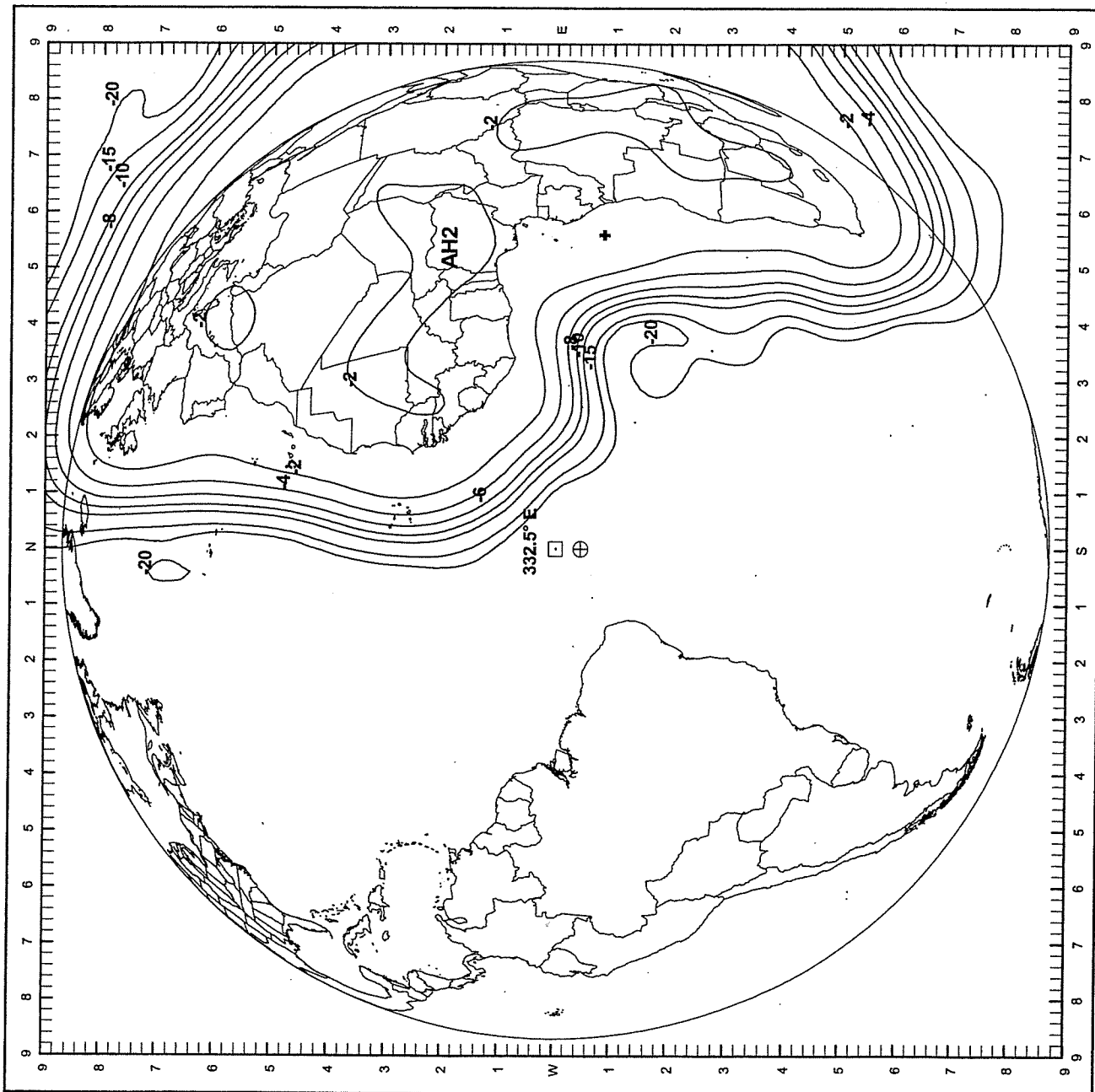
Contour Levels  
AH2 : -2, -4, -6, -8, -10, -15, -20 dB

Beam Frequencies  
AH2 : 5850

Polarization  
AH2 : Circular LHCP

Square : Sub-Satellite Point

Circle : Sat. Ant. Platform Bias





INTELSAT 907 at 332.50°E Antenna Coverage (Predicted)  
S/C Platform Bias : 0.00°E 0.45°S  
YAW : 0.00°

Peak Gain (Uplink Co-pol) (See +)  
AZ1 : 35.2 dBi

Beam Peak G/T  
AZ1 : 2.5 dB/K

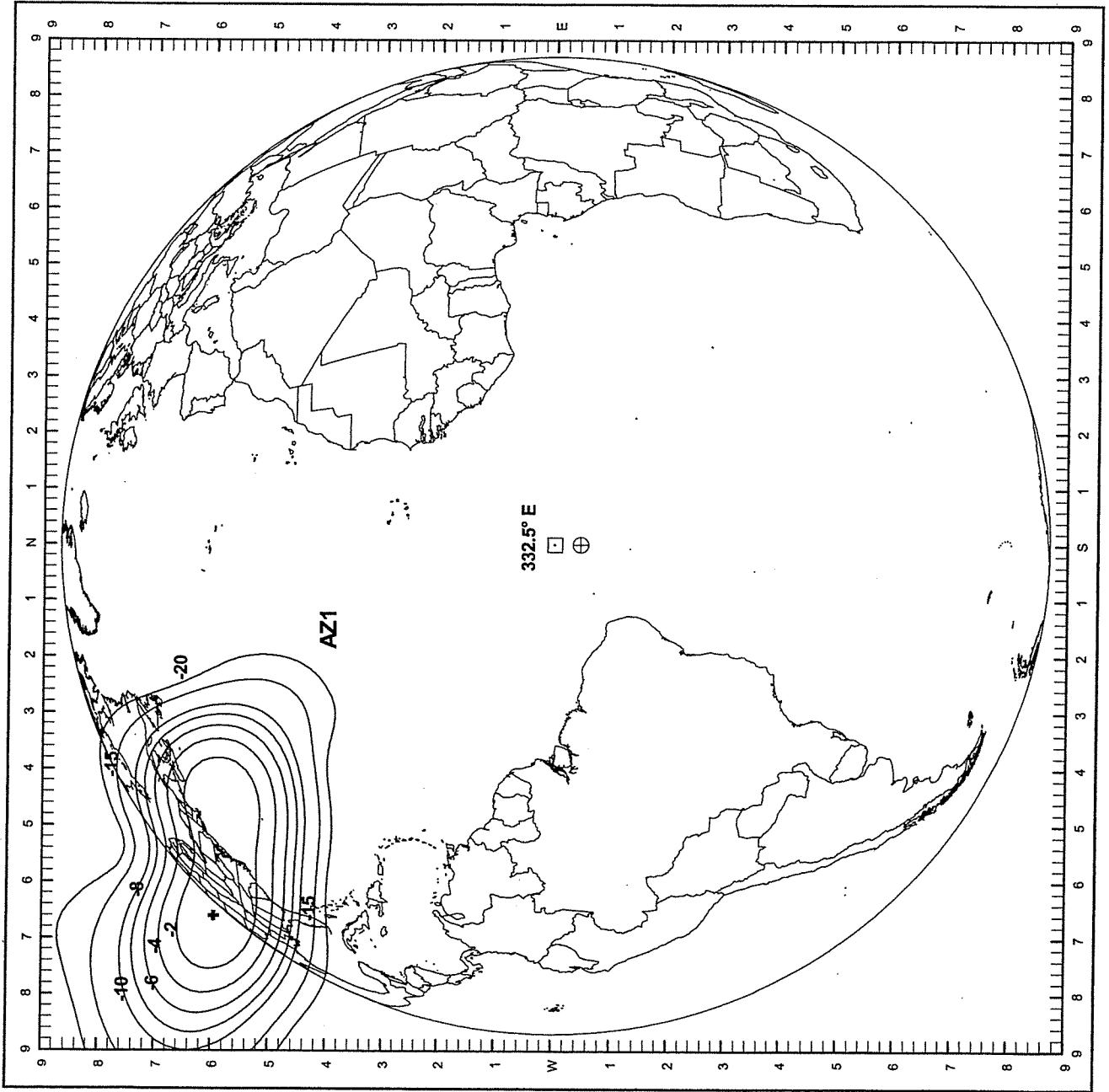
Contour Levels  
AZ1 : -2, -4, -6, -8, -10, -15, -20 dB

Beam Frequencies  
AZ1 : 5850

Polarization  
AZ1 : Circular RHCP

Square : Sub-Satellite Point

Circle : Sat.Ant.Platform Bias





INTELSAT 907 at 332.50°E Antenna Coverage (Predicted)  
S/C Platform Bias : 0.00°E 0.45°S  
YAW : 0.00°

Peak Gain (Uplink Co-pol) (See +)  
AZ25 : 27.9 dBi

Beam Peak G/T  
AZ25 : -3.7 dB/K

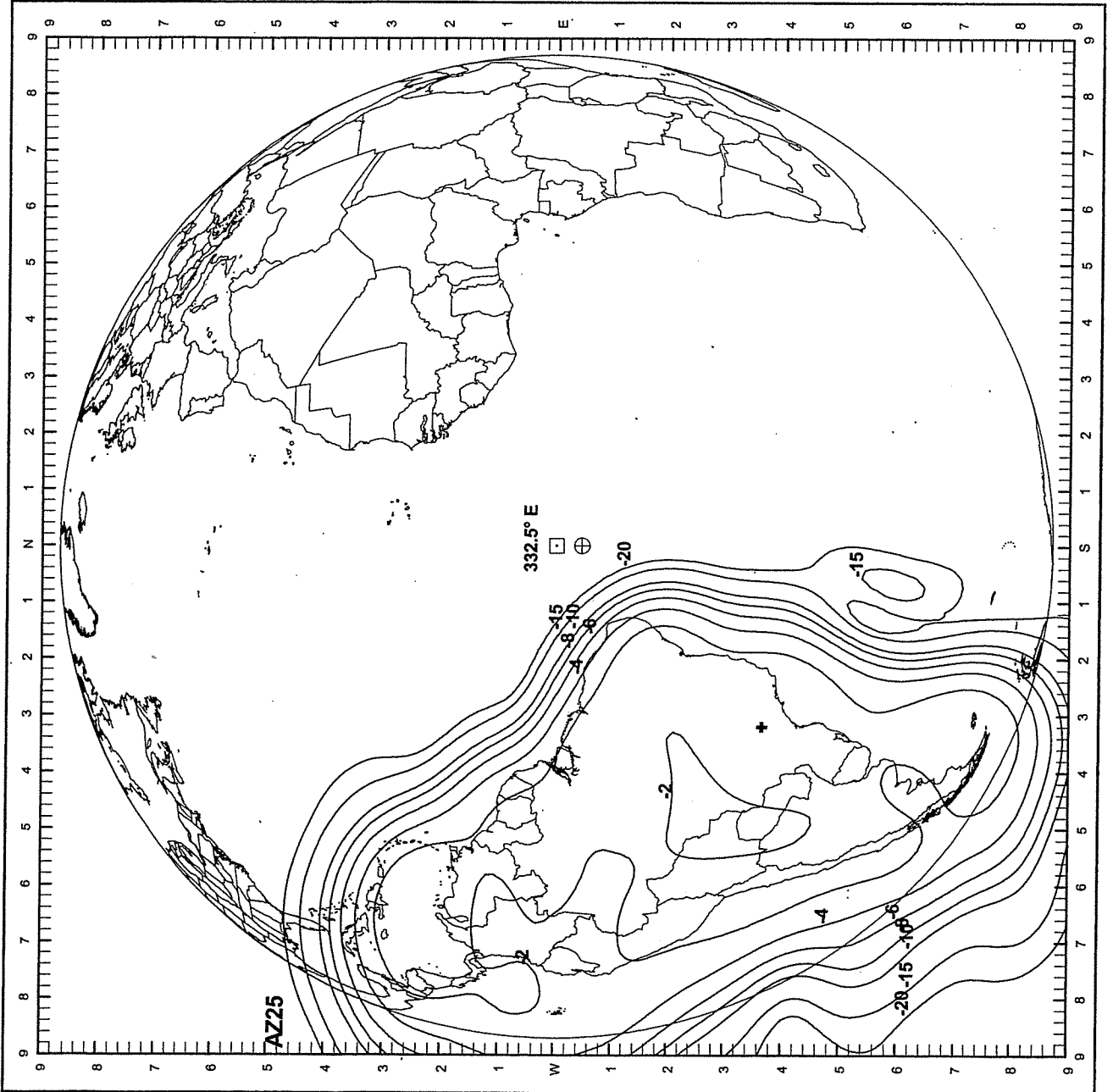
Contour Levels  
AZ25 : -2, -4, -6, -8, -10, -15,  
-20 dB

Beam Frequencies  
AZ25 : 5850

Polarization  
AZ25 : Circular RHCP

Square : Sub-Satellite Point

Circle : Sat. Ant. Platform Bias





INTELSAT 907 at 332.50°E Antenna Coverage (Predicted)  
S/C Platform Bias : 0.00°E 0.45°S  
YAW : 0.00°

Peak Gain (Uplink Co-pol) (See +)  
AZ3 : 33.8 dBi

Beam Peak G/T  
AZ3 : 1.9 dB/K

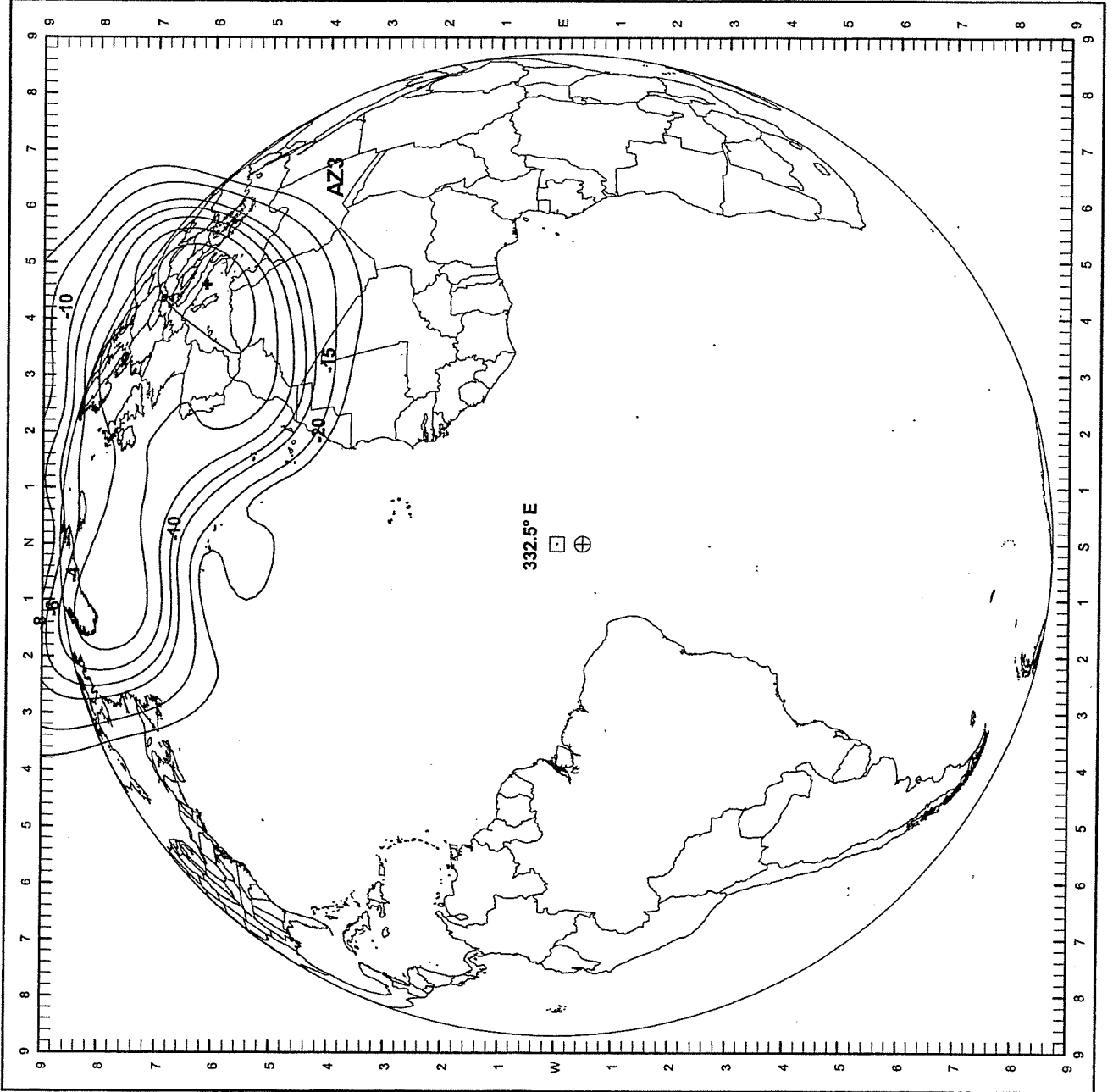
Contour Levels  
AZ3 : -2, -4, -6, -8, -10, -15, -20 dB

Beam Frequencies  
AZ3 : 5850

Polarization  
AZ3 : Circular RHCP

Square : Sub-Satellite Point

Circle : Sat.Ant.Platform Bias





INTELSAT 907 at 332.50°E Antenna Coverage (Predicted)  
S/C Platform Bias : 0.00°E 0.45°S  
YAW : 0.00°

Peak Gain (Uplink Co-pol) (See +)  
AZ4 : 28.9 dBi

Beam Peak G/T  
AZ4 : -2.1 dB/K

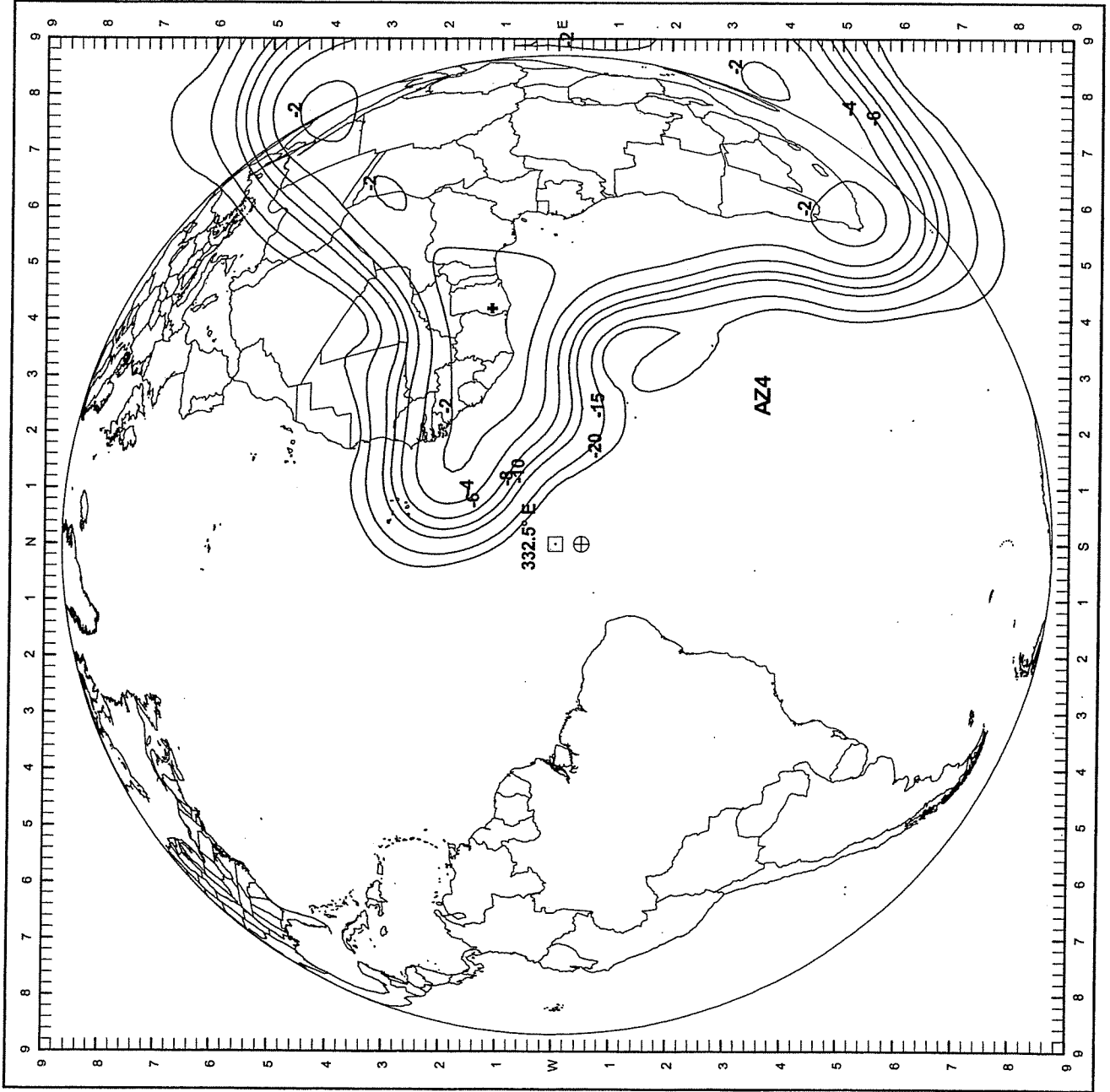
Contour Levels  
AZ4 : -2, -4, -6, -8, -10, -15, -20 dB

Beam Frequencies  
AZ4 : 5850

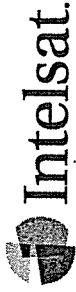
Polarization  
AZ4 : Circular RHCP

Square : Sub-Satellite Point

Circle : Sat.Ant.Platform Bias

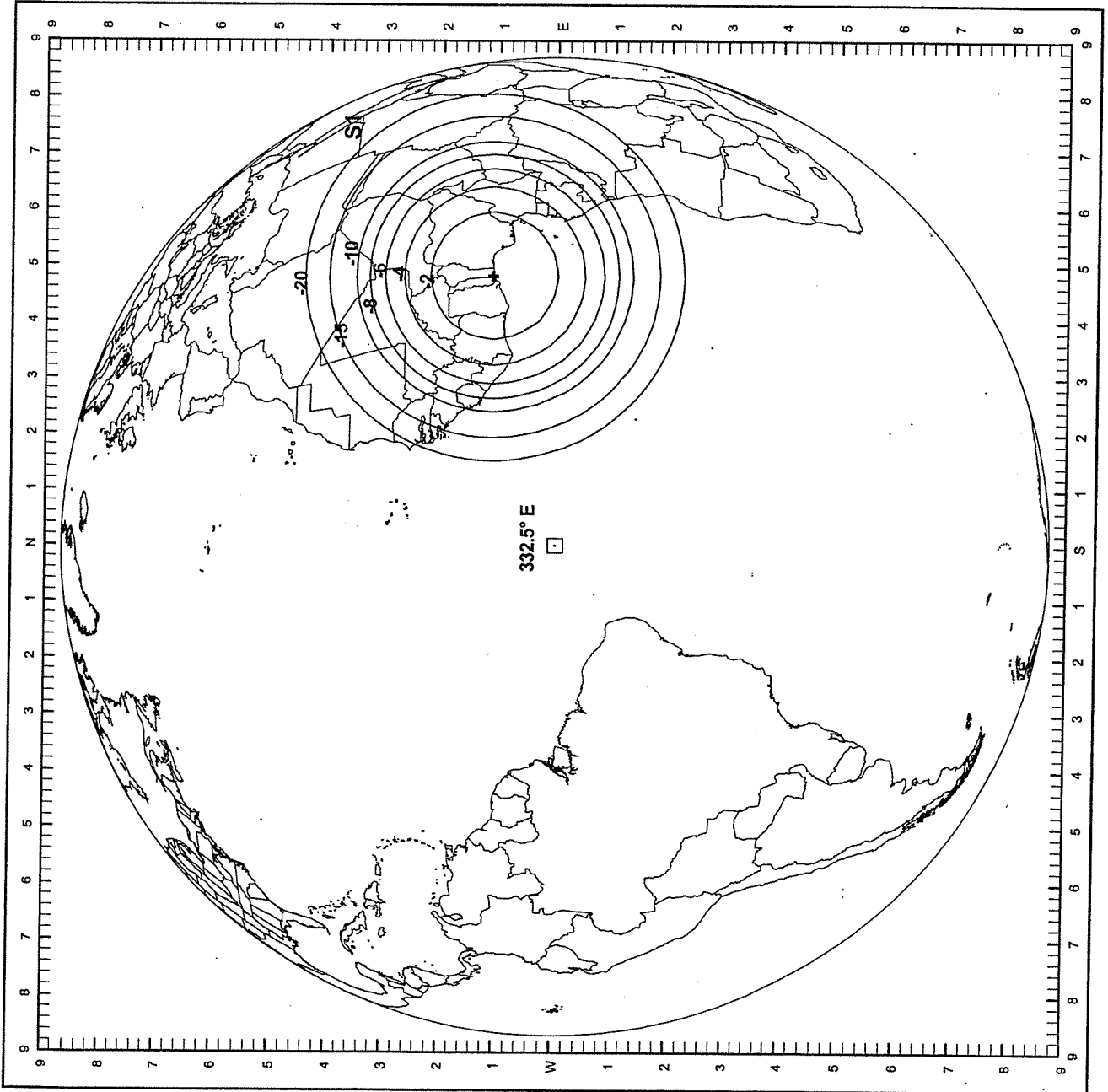






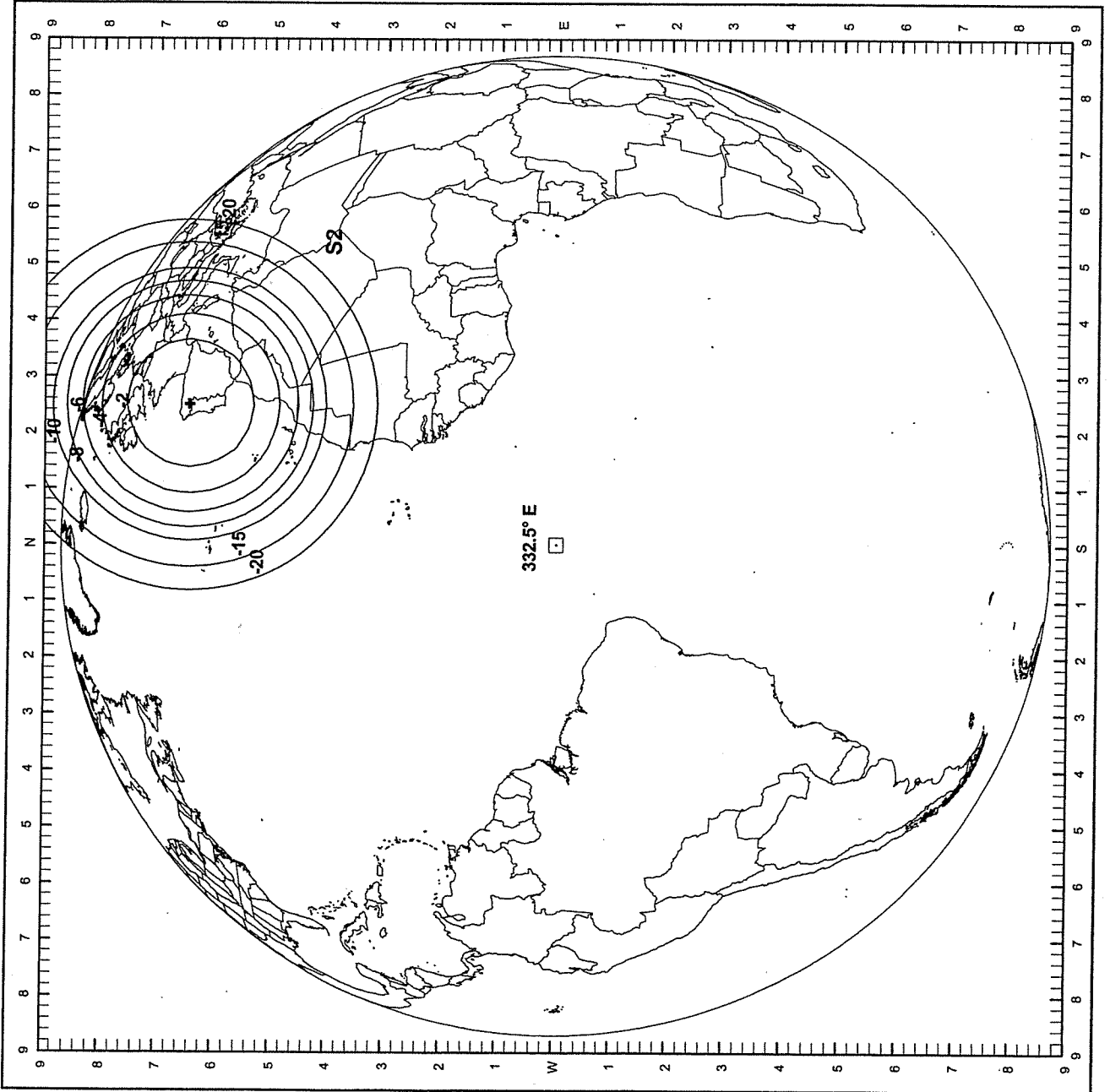
**INTELSAT 907 at 332.50°E Antenna Coverage (Predicted)**

S/C Platform Bias : 0.00°E 0.45°S  
YAW : 0.00°  
Antenna Pointing  
S1 : 4.80°E 1.10°N  
Peak Gain (Uplink Co-pol) (See +)  
S1 : 36.9 dBi  
Beam Peak G/T  
S1 : 8.5 dB/K  
Contour Levels  
S1 : -2, -4, -6, -8, -10, -15, -20 dB  
Beam Frequencies  
S1 : 14000  
Polarization  
S1 : Linear Horizontal  
Square : Sub-Satellite Point





INTELSAT 907 at 332.50°E Antenna Coverage (Predicted)  
S/C Platform Bias : 0.00°E 0.45°S  
YAW : 0.00°  
Antenna Pointing  
S2 : 2.50°E 6.45°N  
Peak Gain (Uplink Co-pol) (See +)  
S2 : 36.9 dBi  
Beam Peak G/T  
S2 : 8.6 dB/K  
Contour Levels  
S2 : -2, -4, -6, -8, -10, -15, -20 dB  
Beam Frequencies  
S2 : 14000  
Polarization  
S2 : Linear Vertical  
Square : Sub-Satellite Point





INTELSAT 907 at 332.50°E Antenna Coverage  
S/C Platform Bias : 0.00°E 0.45°S  
YAW : 0.00°

Peak Gain (Uplink X-pol) (See +)  
GA : -27.1 dBi

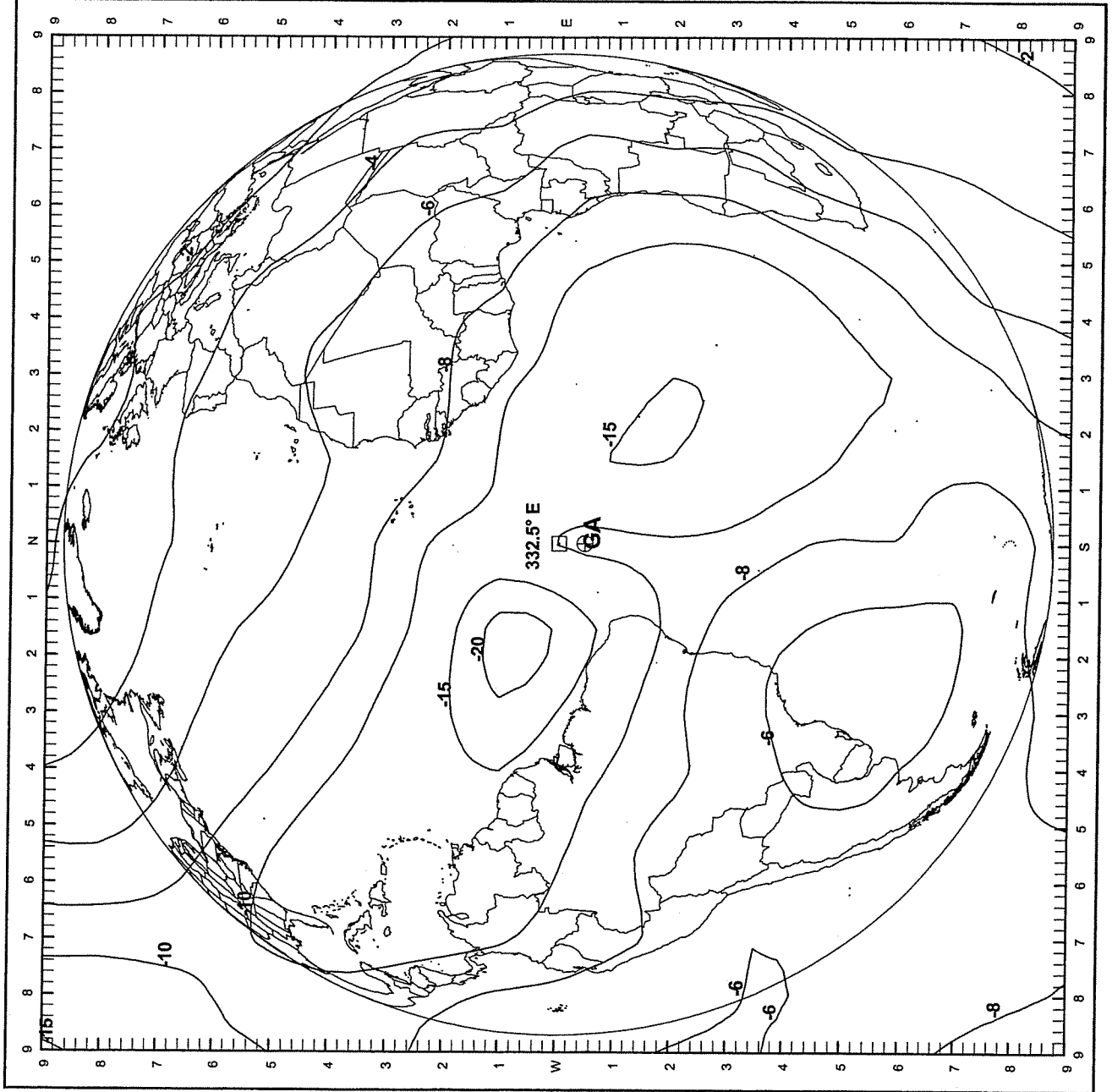
Contour Levels  
GA : -2, -4, -6, -8, -10, -15,  
-20 dB

Beam Frequencies  
GA : 6320

Polarization  
GA : Circular RHCP

Square : Sub-Satellite Point

Circle : Sat.Ant.Platform Bias





INTELSAT 907 at 332.50°E Antenna Coverage (Predicted)  
S/C Platform Bias : 0.00°E 0.45°S  
YAW : 0.00°

Peak Gain (Uplink X-pol) (See +)  
AH1 : -6.6 dBi

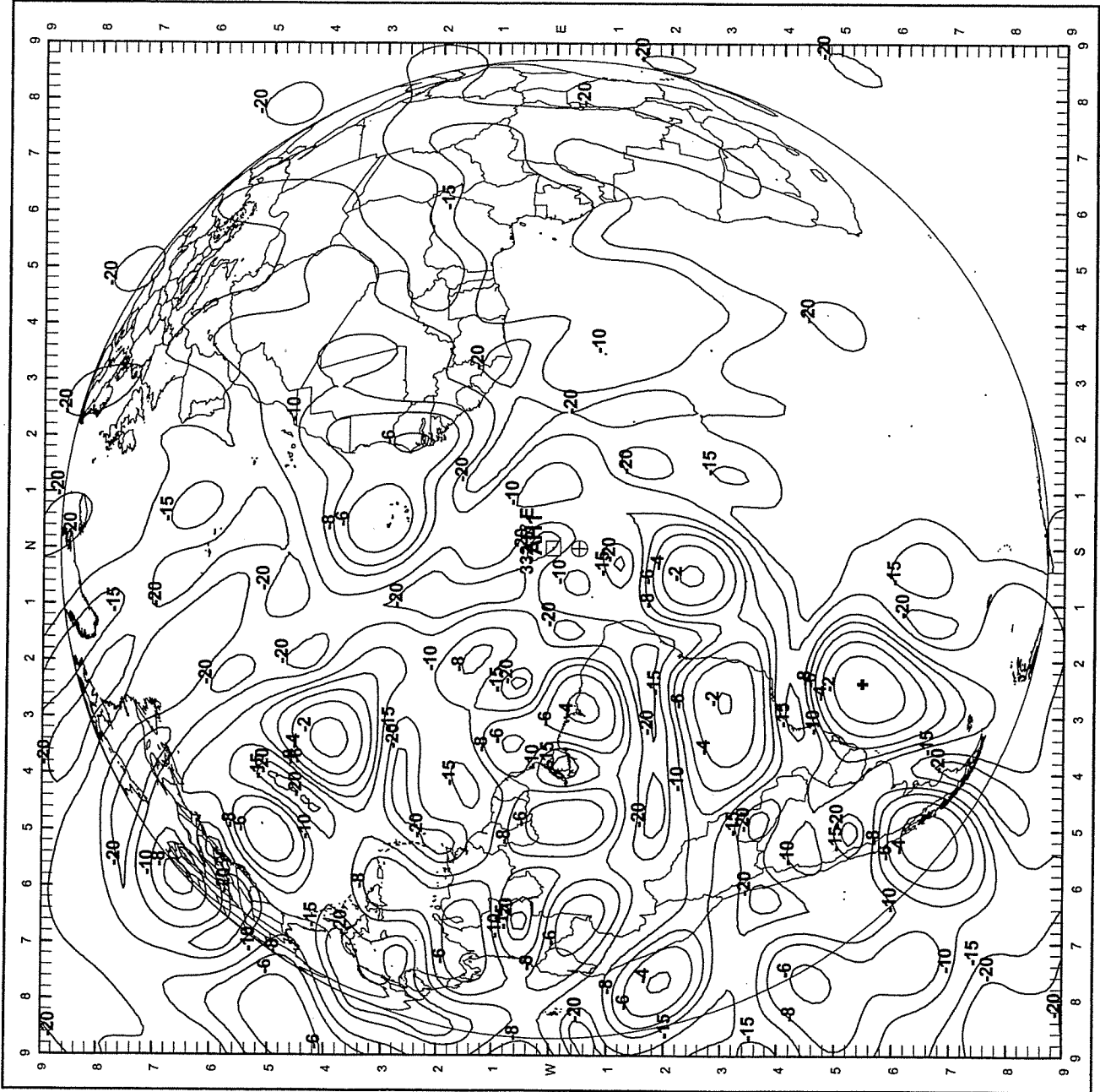
Contour Levels  
AH1 : -2, -4, -6, -8, -10, -15, -20 dB

Beam Frequencies  
AH1 : 5850

Polarization  
AH1 : Circular RHCP

Square : Sub-Satellite Point

Circle : Sat.Ant.Platform Bias





INTELSAT 907 at 332.50°E Antenna Coverage (Predicted)  
S/C Platform Bias : 0.00°E 0.45°S  
YAW : 0.00°

Peak Gain (Uplink X-pol) (See +)  
AH2 : -8.2 dBi

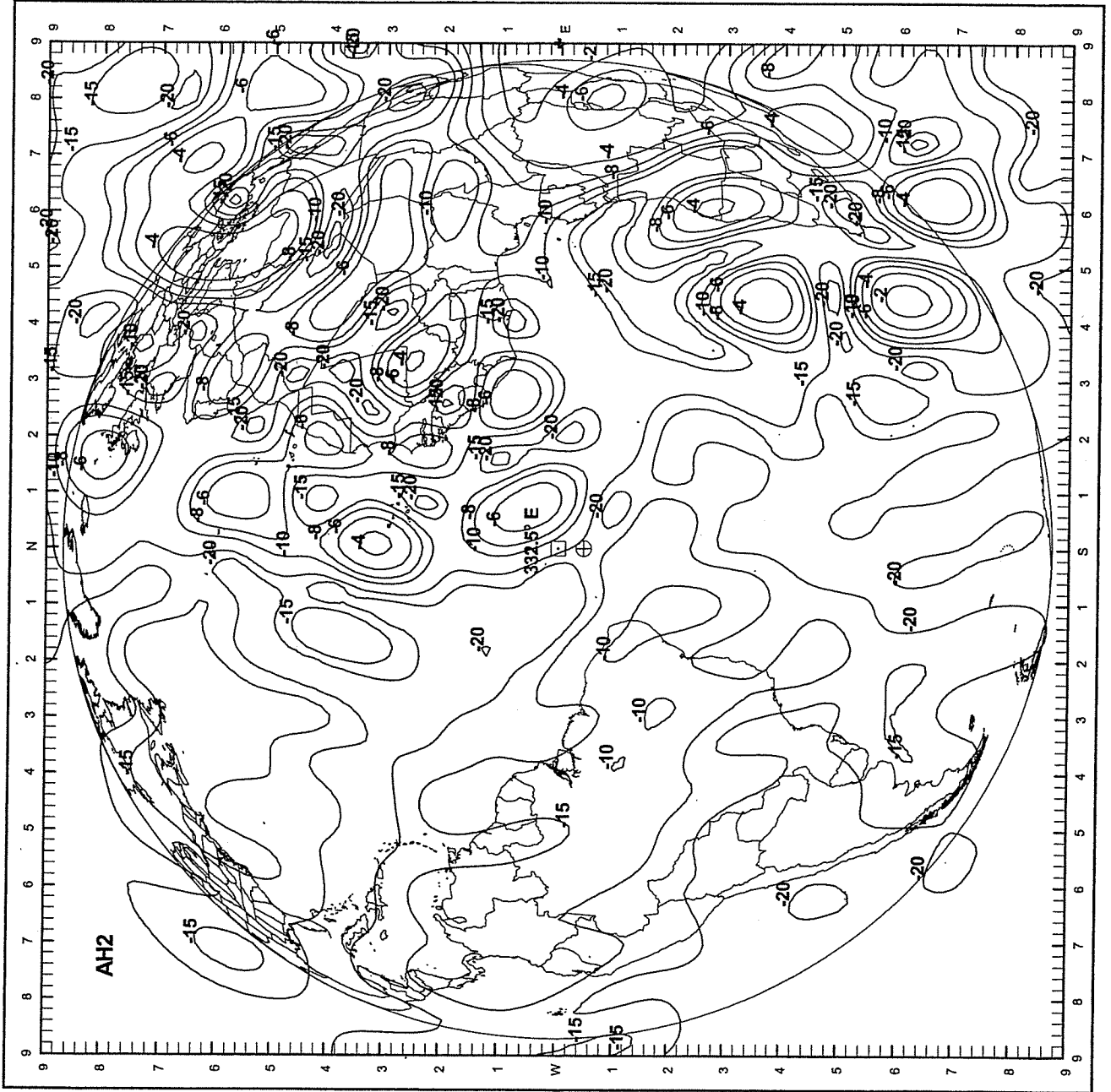
Contour Levels  
AH2 : -2, -4, -6, -8, -10, -15,  
-20 dB

Beam Frequencies  
AH2 : 5850

Polarization  
AH2 : Circular RHCP

Square : Sub-Satellite Point

Circle : Sat.Ant.Platform Bias





INTELSAT 907 at 332.50°E Antenna Coverage (Predicted)  
S/C Platform Bias : 0.00°E 0.45°S  
YAW : 0.00°

Peak Gain (Uplink X-pol) (See +)  
AZ1 : 1.7 dBi

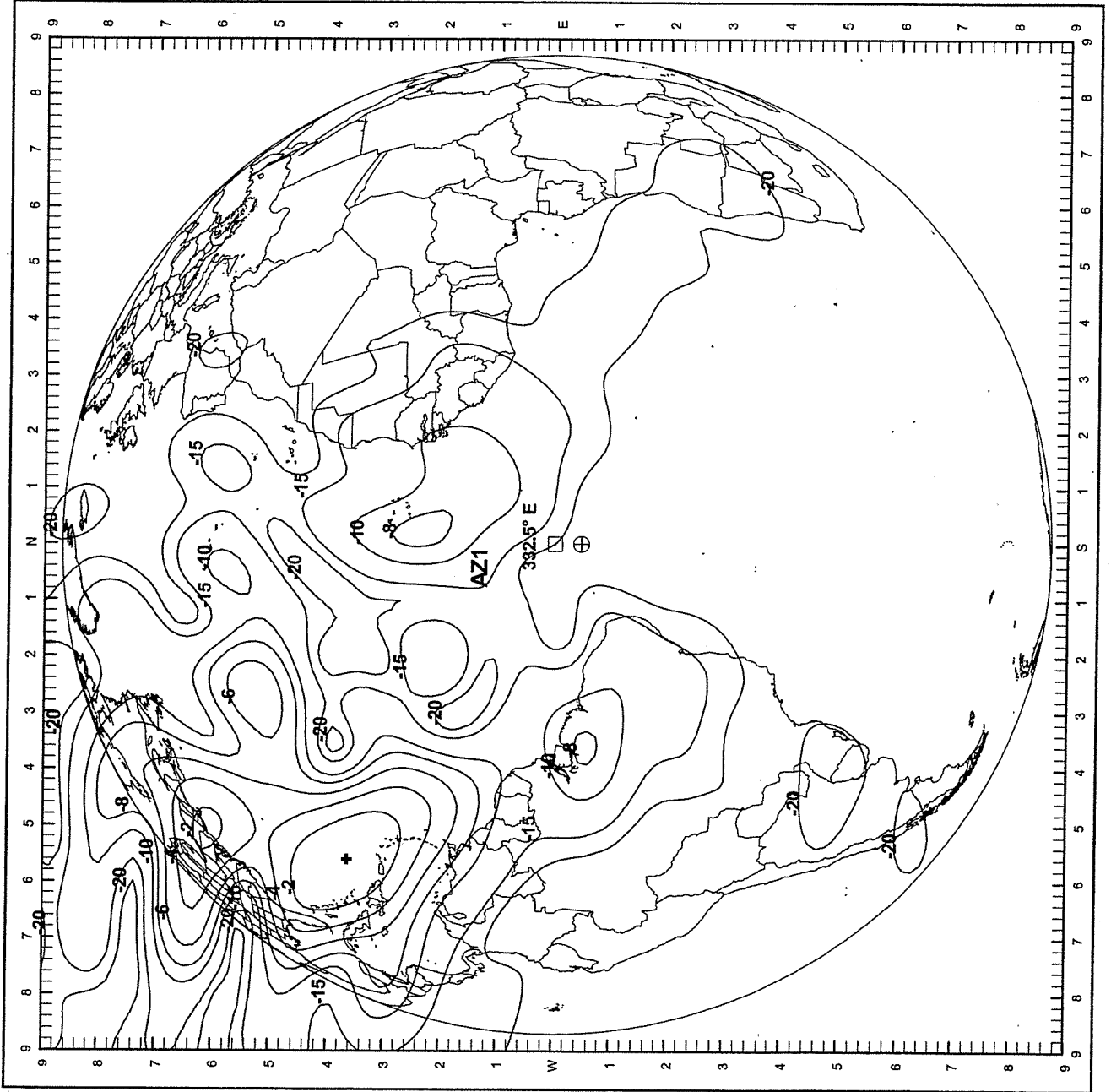
Contour Levels  
AZ1 : -2, -4, -6, -8, -10, -15, -20 dB

Beam Frequencies  
AZ1 : 5850

Polarization  
AZ1 : Circular LHCP

Square : Sub-Satellite Point

Circle : Sat.Ant.Platform Bias





INTELSAT 907 at 332.50°E Antenna Coverage (Predicted)  
S/C Platform Bias : 0.00°E 0.45°S  
YAW : 0.00°

Peak Gain (Uplink X-pol) (See +)  
AZ25 : -5.6 dBi

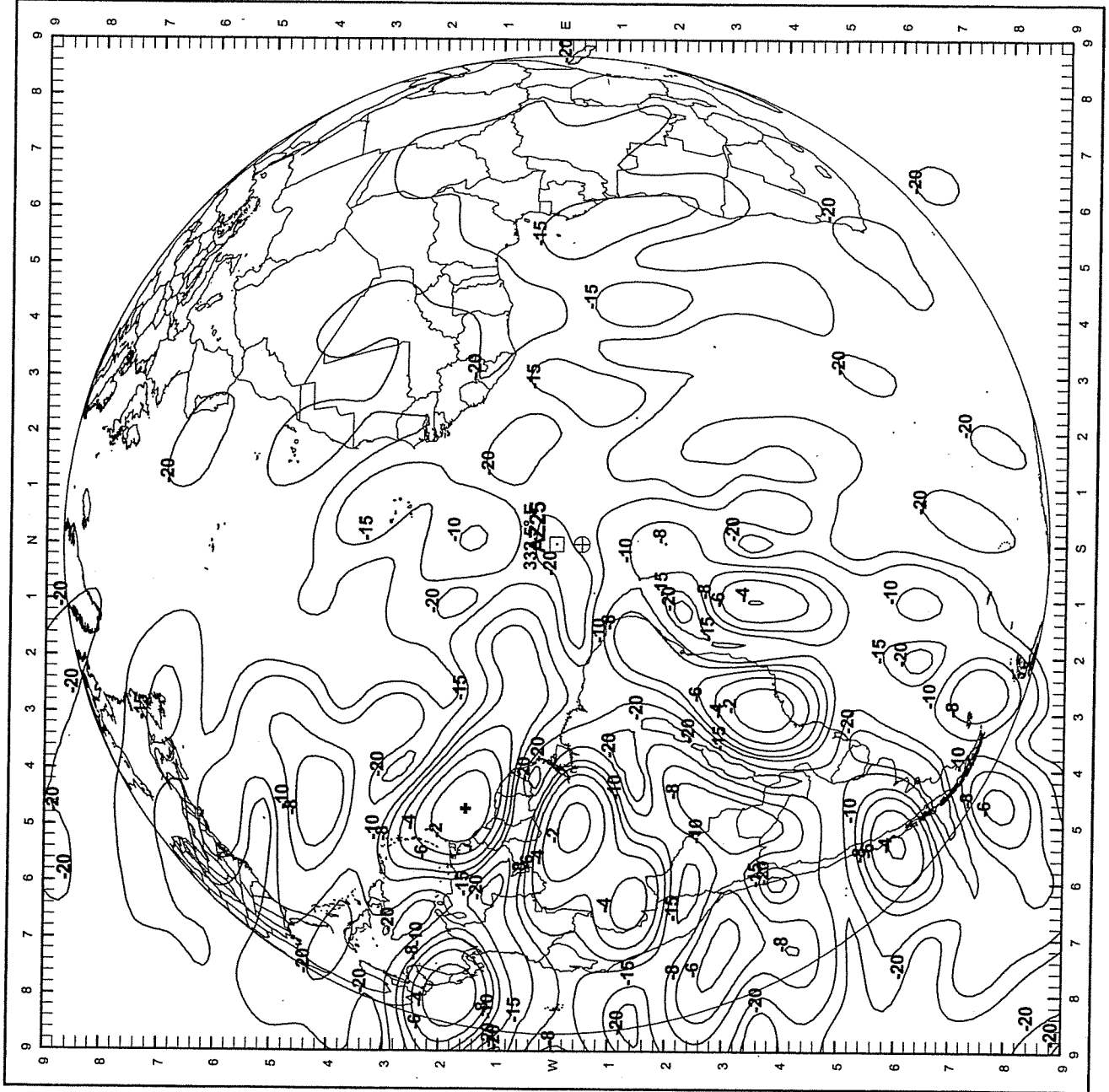
Contour Levels  
AZ25 : -2, -4, -6, -8, -10, -15, -20 dB

Beam Frequencies  
AZ25 : 5850

Polarization  
AZ25 : Circular LHCP

Square : Sub-Satellite Point

Circle : Sat.Ant.Platform Bias





INTELSAT 907 at 332.50°E Antenna Coverage (Predicted)  
S/C Platform Bias : 0.00°E 0.45°S  
YAW : 0.00°

Peak Gain (Uplink X-pol) (See +)  
AZ3 : -2.6 dBi

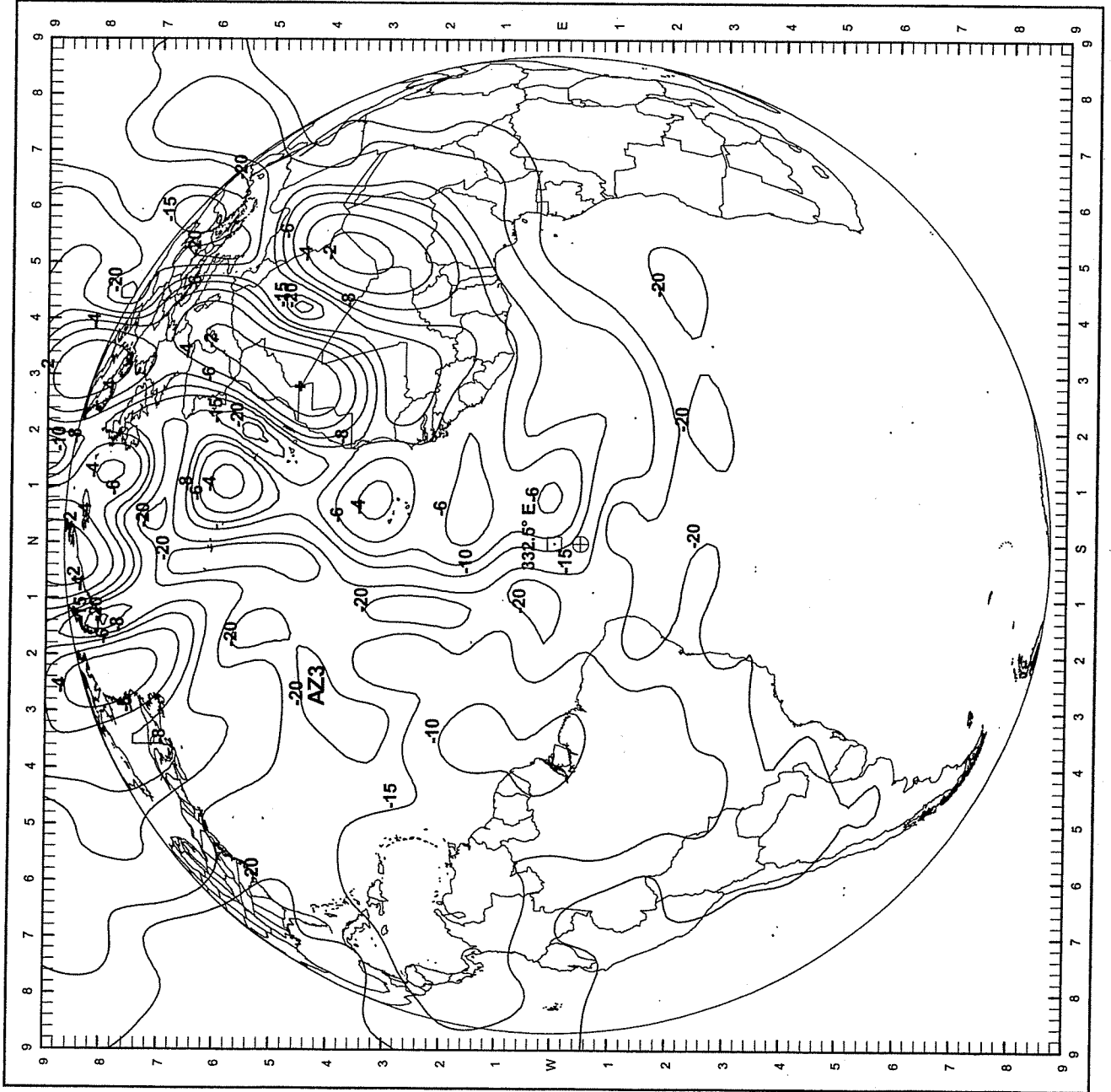
Contour Levels  
AZ3 : -2, -4, -6, -8, -10, -15, -20 dB

Beam Frequencies  
AZ3 : 5850

Polarization  
AZ3 : Circular LHCP

Square : Sub-Satellite Point

Circle : Sat.Ant.Platform Bias







INTELSAT 907 at 332.50°E Antenna Coverage (Predicted)  
S/C Platform Bias : 0.00°E 0.45°S  
YAW : 0.00°

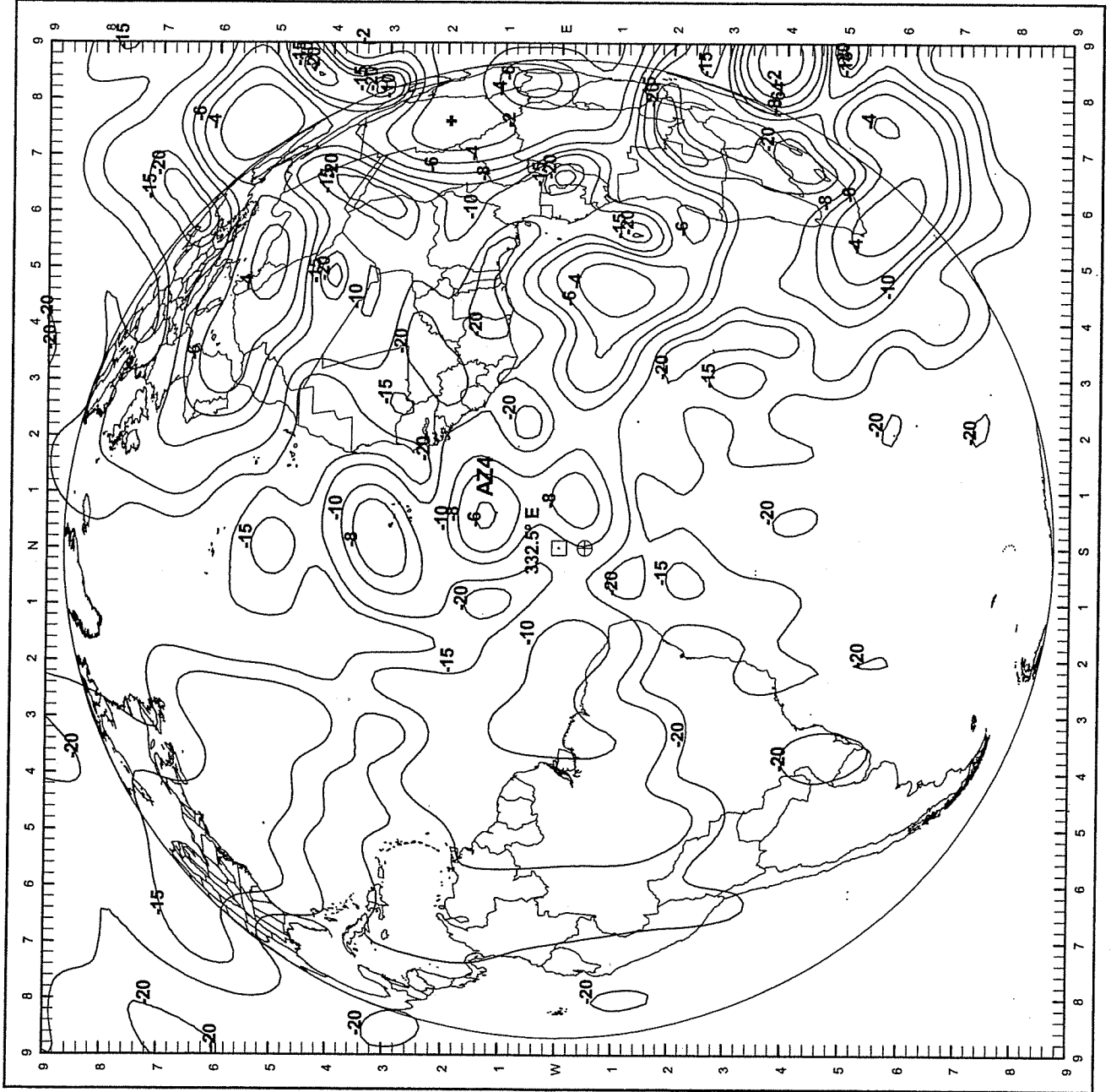
Peak Gain (Uplink X-pol) (See +)  
AZ4 : -5.2 dBi

Contour Levels  
AZ4 : -2, -4, -6, -8, -10, -15, -20 dB

Beam Frequencies  
AZ4 : 5850

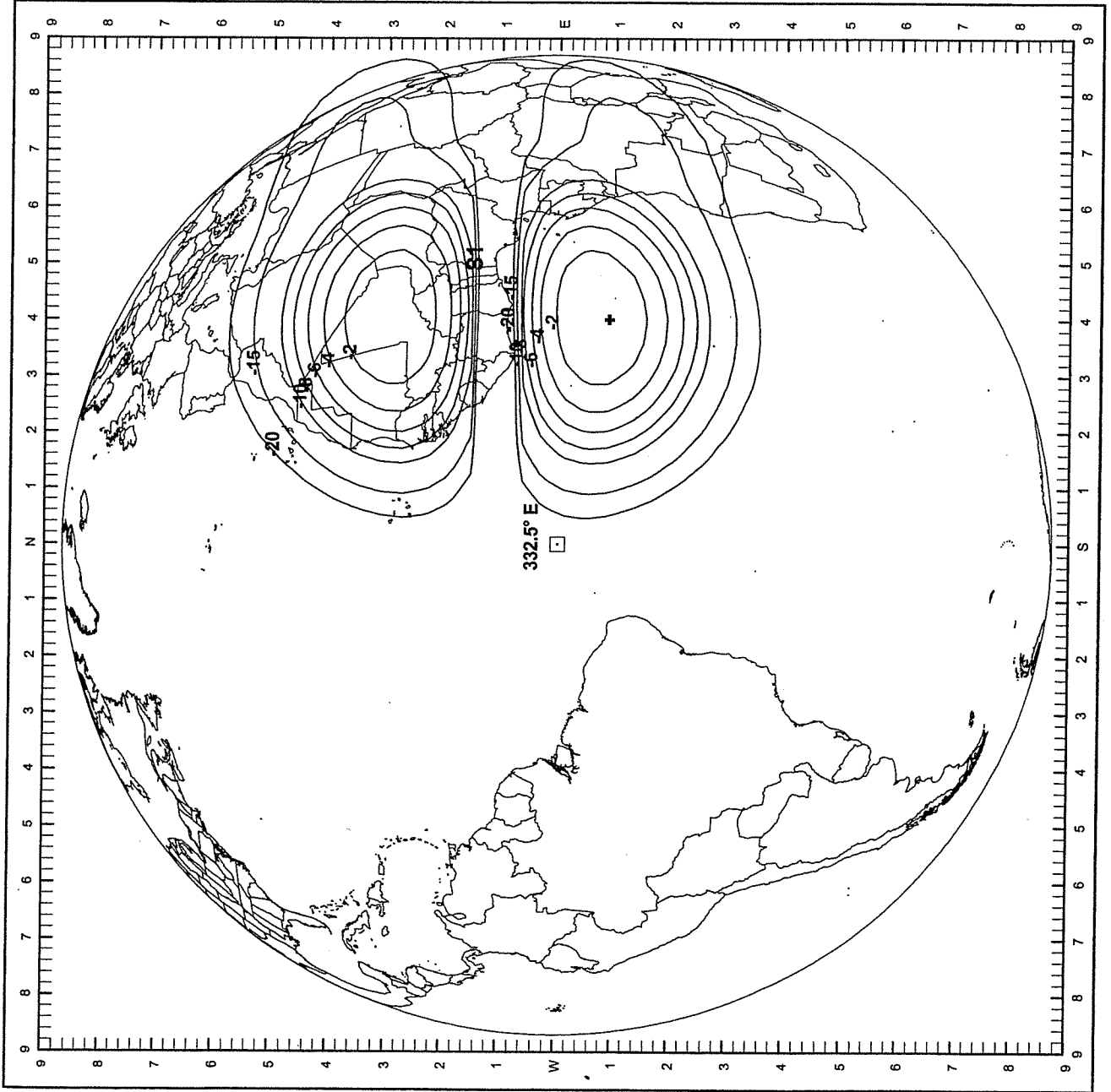
Polarization  
AZ4 : Circular LHCP

Square : Sub-Satellite Point  
Circle : Sat.Ant.Platform Bias





INTELSAT 907 at 332.50°E Antenna Coverage (Predicted)  
S/C Platform Bias : 0.00°E 0.45°S  
YAW : 0.00°  
Antenna Pointing  
S1 : 4.80°E 1.10°N  
Peak Gain (Uplink X-pol) (See +)  
S1 : -0.2 dBi  
Contour Levels  
S1 : -2, -4, -6, -8, -10, -15, -20 dB  
Beam Frequencies  
S1 : 14000  
Polarization  
S1 : Linear Vertical  
Square : Sub-Satellite Point





INTELSAT 907 at 332.50°E Antenna Coverage (Predicted)  
S/C Platform Bias : 0.00°E 0.45°S  
YAW : 0.00°  
Antenna Pointing  
S2 : 2.50°E 6.45°N

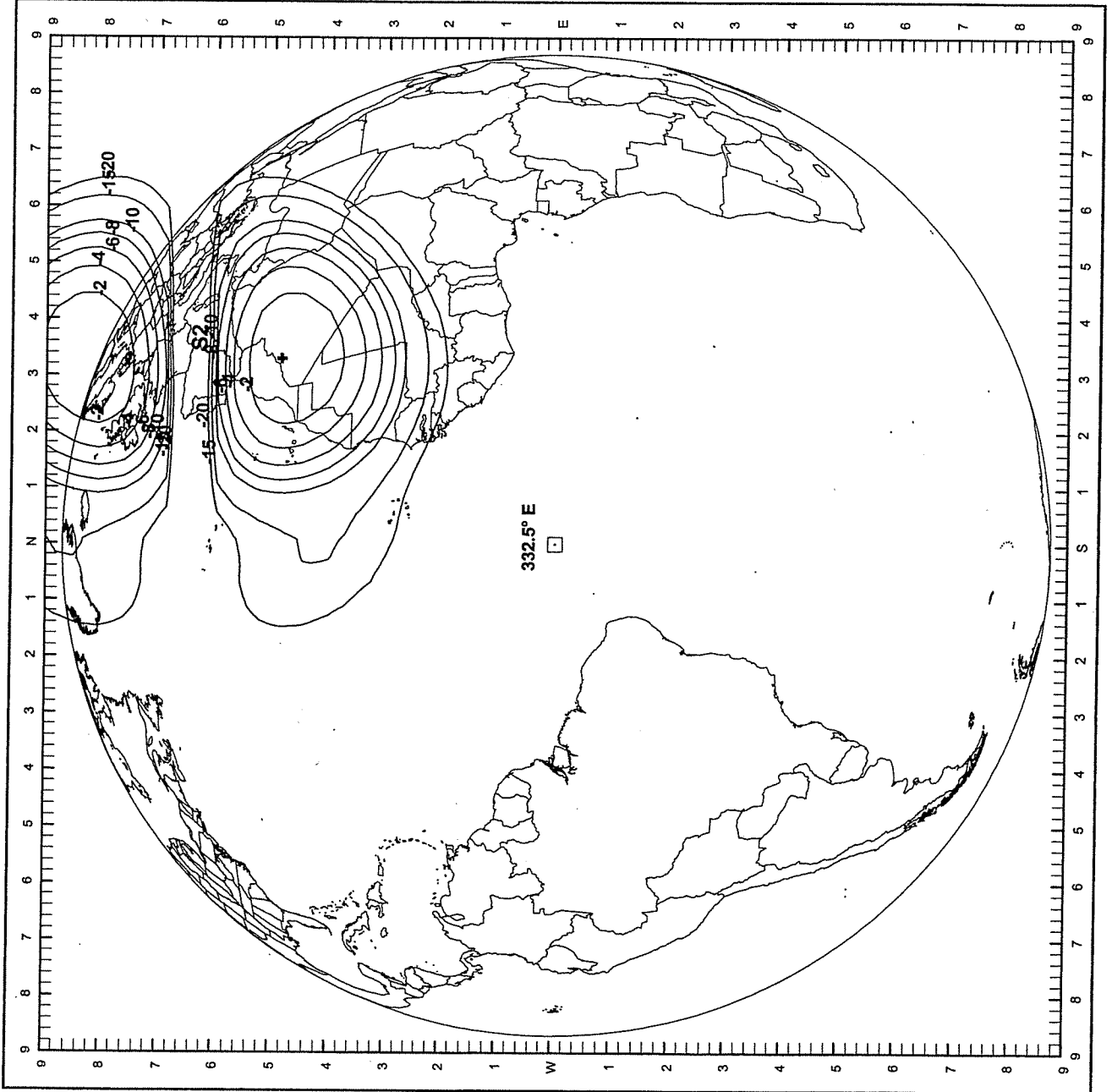
Peak Gain (Uplink X-pol) (See +)  
S2 : -0.1 dBi

Contour Levels  
S2 : -2, -4, -6, -8, -10, -15, -20 dB

Beam Frequencies  
S2 : 14000

Polarization  
S2 : Linear Horizontal

Square : Sub-Satellite Point



(Shareholders are ranked in order of Percentage of Shares; associated entities are grouped together)

Name	Nationality	% Government Ownership	# Shares	% Shares/ Votes	WTO Y/N?†	Shareholders as of Privatization
COMSAT Corporation	United States		36,319,340	21.791592%	Y(M)	Yes
COMSAT General Corporation	United States		1,983,149	1.189889%	Y(M)	Yes
COMSAT Argentina S.A.	(United States -- shares recently transferred to COMSAT International Ventures)		1,771,957	1.063174%	Y(M)	Yes
COMSAT Brazil Ltda.	Brazil		10,244	0.006146%	Y(M)	Yes
COMSAT International Ventures	United States		2	0.000001%	Y(M)	Yes
Videsh Sanchar Nigam Limited	India		9,015,314	5.409186%	Y(M)	Yes
FRANCE TELECOM	France	54%	7,049,234	4.229538%	Y(M)	Yes
Telenor Broadband Services AS	Norway	79%	6,855,530	4.113316%	Y(M)	Yes
British Telecommunications plc	United Kingdom		6,388,702	3.83219%	Y(M)	Yes
Teleglobe, Inc.	Canada		6,284,635	3.770779%	Y(M)	Yes
Teleglobe International (UK) Ltd.	United Kingdom		2	0.000001%	Y(M)	Yes
Deutsche Telekom AG	Germany	42%	5,718,954	3.431371%	Y(M)	Yes
Genesis Sechste Verwaltungsgesellschaft mbH	Germany		4,605,244	2.763145%	Y(M)	No
Empresa Brasileira de Telecomunicações S.A. (EMBRATEL)	Brazil		3,910,169	2.346100%	Y(M)	Yes
Cable & Wireless plc	United Kingdom		3,410,112	2.046066%	Y(M)	Yes
Cable & Wireless Panamá S.A.	Panama	49%	487,559	0.292535%	Y(M)	Yes
Cable & Wireless Jamaica Limited	Jamaica		368,444	0.221066%	Y(M)	Yes
Cable & Wireless (West Indies) Ltd.	United Kingdom		216,220	0.129732%	Y(M)	Yes
Cable & Wireless BET Limited	Barbados		148,407	0.089044%	Y(M)	Yes
Telstra Corporation Limited	Australia	51%	2,842,777	1.705665%	Y(M)	Yes
CHINA TELECOM	China, People's Rep. Of	100%	2,769,292	1.661574%	Y(M)	Yes
Turk Telekomunikasyon A.S.	Turkey	100%	2,502,134	1.501280%	Y(M)	Yes
Empreso Nacional Telecomunicaciones TELECOM	Colombia	100%	2,500,390	1.500233%	Y(M)	Yes
Telecommunication Company of Iran	Iran, Islamic Rep. of	70%	2,434,474	1.460684%	N	Yes
Orbital Holdings, Ltd.	United Kingdom		2,293,170	1.375901%	Y(M)	No
KPN Satcom B.V.	Netherlands	80%	2,024,029	1.214417%	Y(M)	Yes
TELKOM SA Limited	South Africa	70%	1,930,115	1.158068%	Y(M)	Yes
KDDI Corporation	Japan	45.9%	1,892,884	1.135730%	Y(M)	Yes
Venezuelan Telephone Company (Compañía Anónima Nacional Teléfonos de Venezuela)	Venezuela		1,865,544	1.119326%	Y(M)	Yes
Singapore Telecommunications Limited	Singapore	78%	1,581,372	0.948823%	Y(M)	Yes
Optus Networks Pty. Limited	Australia		1,551,372	0.930823%	Y(M)	Yes
Telefónica del Perú, S.A.A.	Peru		1,548,075	0.928845%	Y(M)	Yes
Saudi Telecom Company (STC)	Saudi Arabia	100%	1,506,892	0.904135%	Y(O)	Yes
Ministry of Communications of the Government of the United Arab Emirates	United Arab Emirates	100%	1,363,459	0.818075%	Y(M)	Yes
Swisscom AG	Switzerland	70%	1,263,054	0.757832%	Y(M)	Yes
"BEZEQ" The Israel Telecommunication Corporation Limited	Israel	54%	1,234,100	0.740460%	Y(M)	Yes
Telefónica de España, S.A.	Spain		1,224,877	0.734926%	Y(M)	Yes
Korea Telecom Corp.	Korea, Rep. of	57.9%	1,217,695	0.730617%	Y(M)-	Yes
Pakistan Telecommunications Company (Trust I)	Pakistan		1,106,707	0.664024%	Y(M)	Yes
Pakistan Telecommunication Company (Codan Trust Co. Ltd. Under Collat. Trust)	Pakistan		16,512	0.009907%	Y(M)	Yes
Empresa Nacional de Telecomunicaciones S.A. (ENTEL)	Chile		1,075,104	0.645062%	Y(M)	Yes
Empresa Nacional de Telecomunicaciones (ENTEL)	Bolivia		313,347	0.188008%	Y(M)	Yes
Ministry of Communications, The State of Kuwait	Kuwait	100%	1,069,179	0.641507%	Y(M)	Yes
PCCW-HKT Limited	China, People's Rep. Of		1,055,732	0.633439%	Y(M)	Yes
Companhia Portuguesa Radio Marconi	Portugal	6.8%	1,047,867	0.628720%	Y(M)	Yes
Nigerian Telecommunications Limited (NITEL)	Nigeria	100%	997,467	0.598480%	Y(M)	Yes

Name	Nationality	% Government Ownership	# Shares	% Shares/ Votes	WTO Y/N?†	Shareholders as of Privatization
Central Bank of Russian Federation (Bank of Russia)	Russian Federation	100%	848,115	0.508869%	Y(O)	Yes
TELEKOM MALAYSIA BERHAD (128740-P)	Malaysia	64%	833,704	0.500222%	Y(M)	Yes
Telecom Corporation of New Zealand Limited	New Zealand		820,597	0.492358%	Y(M)	Yes
The Communications Authority of Thailand (CAT)	Thailand	100%	793,015	0.475809%	Y(M)	Yes
Telecom Egypt	Egypt	100%	769,449	0.461669%	Y(M)	Yes
TELECOMUNICACIONES DE MEXICO (TELECOMM)	Mexico		563,357	0.338014%	Y(M)	Yes
PT INDOSAT	Indonesia	76%	562,090	0.337254%	Y(M)	Yes
Bahrain Telecommunications Company (BATELCO)	Bahrain	39%	558,082	0.334849%	Y(M)	Yes
Telkom Kenya Limited	Kenya	100%	539,669	0.323801%	Y(M)	Yes
Telia AB	Sweden	70%	522,064	0.313238%	Y(M)	Yes
Government of the Democratic and Popular Republic of Algeria	Algeria	100%	513,695	0.308217%	Y(O)	Yes
TELE Greenland A/S	Denmark	100%	496,634	0.297980%	Y(M)	Yes
Government of the Great Socialist People's Libyan Arab Jamahiriya	Libya	100%	484,754	0.290852%	N	Yes
Empresa Guatemalteca de Telecomunicaciones	Guatemala		427,460	0.256476%	Y(M)	Yes
VISOR Investment Solutions Ltd.	Kazakistan		419,710	0.251826%	Y(O)	No
Vietnam Posts and Telecommunications Corporation	Viet Nam	100%	414,215	0.248529%	Y(O)	Yes
Telekomunikacja Polska S.A.	Poland	65%	404,209	0.242525%	Y(M)	Yes
BELGACOM	Belgium	50.1%	397,267	0.238360%	Y(M)	Yes
Sri Lanka Telecom, Ltd.	Sri Lanka	65%	394,944	0.236966%	Y(M)	Yes
Philippine Communications Satellite Corporation (PHILCOMSAT)	Philippines		394,805	0.236883%	Y(M)	Yes
Hellenic Telecommunications Organization (OTE) S.A. (Trust II)	Greece		390,204	0.234122%	Y(M)	Yes
ANGOLA TELECOM, E.P.	Angola	100%	380,514	0.228308%	Y(M)	Yes
Société Nationale des Télécommunications (SONATEL)	Senegal	30%	380,349	0.228209%	Y(M)	Yes
Spacelink International LLC	United Kingdom		357,412	0.214447%	Y(M)	Yes
Compañía Dominicana de Teléfonos, C. por A.	Dominican Republic		355,642	0.213385%	Y(M)	Yes
Telegraph & Telephone Board of Bangladesh	Bangladesh	100%	355,197	0.213118%	Y(M)	Yes
Government of the Republic of Iraq (Trust II)	Iraq	100%	350,942	0.210565%	N	Yes
Ghana Telecommunications Company Limited	Ghana	70%	347,544	0.208526%	Y(M)	Yes
Russian Satellite Communications Company (RSCC) (Trust II)	Russian Federation	100%	335,290	0.201174%	Y(O)	Yes
Jordan Telecommunications Company	Jordan	60%	332,445	0.199467%	Y(M)	Yes
L'Agence des Télécommunications de Côte d'Ivoire (ATCI)	Côte d'Ivoire	100%	329,692	0.197815%	Y(M)	Yes
Telekom Austria Aktiengesellschaft	Austria	47.8%	321,462	0.192877%	Y(M)	Yes
Telekom Austria Aktiengesellschaft (Codan Trust Co. Ltd. Under Collat. Trust)	Austria	48%	1,259	0.000755%	Y(M)	Yes
Instituto Costarricense de Electricidad	Costa Rica	100%	316,027	0.189616%	Y(M)	Yes
Mauritius Telecom Limited	Mauritius		316,027	0.189616%	Y(M)	Yes
TDC Tele Danmark A/S	Denmark		313,192	0.187915%	Y(M)	Yes
Cameroon Telecommunications (CAMTEL)	Cameroon	100%	310,170	0.186102%	Y(M)	Yes
Qatar Public Telecommunications Corporation (Q-TEL)	Qatar	55%	281,672	0.169003%	Y(M)	Yes
Government of Lebanon	Lebanon	100%	281,102	0.168661%	Y(O)	Yes
Oman Telecommunications Company (S.A.O.C.) - Omantel	Oman	100%	280,187	0.168112%	Y(M)	Yes
Itissalat Al Maghrib S.A.	Mofocco	51%	271,200	0.162720%	Y(M)	Yes

Name	Nationality	% Government Ownership	# Shares	% Shares/ Votes	WTO Y/N?†	Shareholders as of Privatization
Telepuerto Internacional Buenos Aires, S.A. (TIBA)	Argentina		265,951	0.159571%	Y(M)	No
Telecom Argentina STET – France Telecom S.A.	Argentina		260,432	0.156259%	Y(M)	Yes
Office des Postes et Télécommunications de Polynésie Française	France		259,987	0.155992%	Y(M)	Yes
Tecoar S.A.	Argentina		256,135	0.153681%	Y(M)	Yes
SOCIETATEA NATIONALA DE RADIOCOMUNICATII S.A.	Romania	65%	255,077	0.153046%	Y(M)	Yes
Empresa Nacional de Telecomunicações de Moçambique, E.P. – TDM	Mozambique	100%	255,024	0.153014%	Y(M)	Yes
Andinatel S.A.	Ecuador	100%	253,074	0.151844%	Y(M)	Yes
Comisión Nacional de Telecomunicaciones (CONATEL)	Paraguay	100%	251,407	0.150844%	Y(M)	Yes
Tanzania Telecommunications Company Limited	Tanzania	65%	232,860	0.139716%	Y(M)	Yes
Ethiopian Telecommunications Corporation	Ethiopia	100%	220,424	0.132254%	Y(O)	Yes
Jabatan Telekom of Brunei Darussalam (Trust II)	Brunei Darussalam		218,365	0.131019%	Y(M)	Yes
Iceland Telecom Limited	Iceland	100%	214,605	0.128763%	Y(M)	Yes
JSC TNS-Plus (Trust II)	Kazakstan		204,402	0.122641%	Y(O)	Yes
Telefónica de Argentina	Argentina		203,059	0.121835%	Y(M)	Yes
The Bahamas Telecommunication Corporation (BATELCO)	Bahamas	100%	192,202	0.115321%	Y(O)	Yes
Côte d'Ivoire (CI Telecom)	Côte d'Ivoire	49%	184,002	0.110401%	Y(M)	Yes
TELECOM MALAGASY S.A.	Madagascar	66%	181,700	0.109020%	Y(M)	Yes
MONACO TELECOM S.A.M.	Monaco		174,002	0.104401%	N	Yes
Hungarian Satellite Communications Association (HUNSAT)	Hungary		171,509	0.102905%	Y(M)	Yes
Société des Télécommunications du Mali (SOTELMA)	Mali	100%	166,232	0.099739%	Y(M)	Yes
Société des Télécommunications du Togo (TOGO TELECOM)	Togo	100%	164,170	0.098502%	Y(M)	Yes
Government of the Syrian Arab Republic	Syria	100%	162,145	0.097287%	N	Yes
Rudolph Schillinger	Switzerland		156,692	0.094015%	Y(M)	No
Office Congolais des Postes et Télécommunications (OCPT)	Congo, Dem. Rep. of	100%	151,403	0.090842%	Y(M)	Yes
Office Congolais des Postes et Télécommunications (OCPT) (Codan Trust Co. Ltd. Under Collat. Trust)	Congo, Dem. Rep. of	100%	100,851	0.060511%	Y(M)	Yes
Advance Telecomunicaciones S.A.	Argentina		148,939	0.089363%	Y(M)	Yes
Government of the Republic of Yemen.	Yemen	100%	143,144	0.085886%	Y(O)	Yes
RTE Commercial Enterprises Ltd.	Ireland		142,579	0.085547%	Y(M)	Yes
Gabon Telecom S.A.	Gabon	100%	142,467	0.085480%	Y(M)	No
Zambia Telecommunications Company Ltd.	Zambia	100%	138,957	0.083374%	Y(M)	Yes
Government of the Republic of the Sudan	Sudan	100%	138,849	0.083309%	Y(O)	Yes
Nepal Telecommunications Corporation	Nepal	100%	133,139	0.079883%	Y(O)	Yes
Pacifictel S.A.	Ecuador		129,682	0.077809%	Y(M)	Yes
Datasat Communications Limited	United Kingdom		127,519	0.076511%	Y(M)	Yes
Société Nigérienne des Télécommunications (SONITEL)	Niger	100%	122,957	0.073774%	Y(M)	Yes
Telecommunications D'Haiti, S.A. (Trust II)	Haiti		115,079	0.069047%	Y(M)	Yes
Fiji International Telecommunications Limited (FINTEL)	Fiji	51%	114,919	0.068951%	Y(M)	Yes
Telecommunications Services of Trinidad and Tobago Limited	Trinidad & Tobago	51%	112,369	0.067421%	Y(M)	Yes
Telikom PNG Limited	Papua New Guinea	100%	111,336	0.066802%	Y(M)	Yes

Name	Nationality	% Government Ownership	# Shares	% Shares/ Votes	WTO Y/N?†	Shareholders as of Privatization
Telikom PNG Limited (Codan Trust Co. Ltd. Under Collat. Trust)	Papua New Guinea	100%	1,034	0.000620%	Y(M)	Yes
MALTACOM p.l.c.	Malta	60%	104,354	0.062612%	Y(M)	Yes
Ceske Radiokomunikace a.s.	Czech Republic	51%	102,954	0.061772%	Y(M)	Yes
Compania de Telecomunicaciones de El Salvador, S.A. de C.V.	El Salvador	49%	98,305	0.058983%	Y(M)	Yes
Public Enterprise PTT Bosnia and Herzegovina	Bosnia & Herzegovina	100%	97,680	0.058608%	Y(O)	Yes
Office National des Télécommunications (ONATEL) du Burkina Faso	Burkina Faso	100%	96,857	0.058114%	Y(M)	Yes
Kingston TLI Ltd.	United Kingdom		96,307	0.057784%	Y(M)	Yes
Compañia de teléfonos de Chile Transmisiones Regionales S.A.	Chile		96,022	0.057613%	Y(M)	Yes
Ministry of Maritime Affairs, Transport and Communications	Croatia	65%	95,955	0.057573%	Y(M)	Yes
Cyprus Telecommunications Authority (Trust II)	Cyprus	100%	95,955	0.057573%	Y(M)	Yes
Malawi Telecommunications Limited	Malawi	100%	95,955	0.057573%	Y(M)	Yes
Community of the Yugoslav Posts, Telegraphs and Telephones	Yugoslavia	51%	95,955	0.057573%	Y(O)	Yes
Ministere des Postes et Telecommunications (Trust II)	Guinea	100%	95,709	0.057425%	Y(M)	Yes
Office des Postes et Télécommunications de la République du Bénin	Benin	100%	95,454	0.057272%	Y(M)	Yes
Redwing Satellite Solutions Ltd.	United Kingdom		95,062	0.057037%	Y(M)	Yes
Instituto Nicaragüense de Telecomunicaciones y Correos (TELCOR)	Nicaragua	60%	89,450	0.053670%	Y(M)	Yes
Societe Mauritanienne de Telecommunications "MAURITEL" (Trust II)	Mauritania	49%	88,365	0.053019%	Y(M)	Yes
Administracion Nacional de Telecomunicaciones	Uruguay	100%	87,597	0.052558%	Y(M)	Yes
Ministry of Telecommunications of the Republic of Armenia	Armenia	100%	83,334	0.050000%	Y(O)	Yes
Ministry of Communication of Azerbaijan Republic	Azerbaijan	100%	83,334	0.050000%	Y(O)	Yes
Department of Communications, Ministry of Communications (Trust II)	Bhutan	100%	83,334	0.050000%	Y(O)	Yes
Botswana Telecommunications Corporation (Trust II)	Botswana	100%	83,334	0.050000%	Y(M)	Yes
Bulgarian Telecommunications Company Ltd.	Bulgaria	100%	83,334	0.050000%	Y(M)	Yes
CABO VERDE TELECOM, SARL	Cape Verde	55%	83,334	0.050000%	Y(O)	Yes
Societe des Telecommunications du Tchad (SOTEL TCHAD) (Trust II)	Chad	52%	83,334	0.050000%	Y(M)	Yes
Societe Nationale des Postes at Telecommunications (Trust II)	Comoros	100%	83,334	0.050000%	N	Yes
ONPT (Trust II)	Congo, Republic of	100%	83,334	0.050000%	Y(M)	Yes
Empresa de Telecomunicaciones de Cuba, S.A. (ETECSA)	Cuba	51%	83,334	0.050000%	Y(M)	Yes
Ministry of Transportation and Communications of the Republic of Equatorial Guinea	Equatorial Guinea	100%	83,334	0.050000%	N	Yes
Sonera Carrier Networks Ltd.	Finland	52.8%	83,334	0.050000%	Y(M)	Yes
Gambia Telecommunications Company, Ltd.	Gambia	100%	83,334	0.050000%	Y(M)	Yes
SakSat Georgia, Ltd.	Georgia		83,334	0.050000%	Y(M)	Yes
Empresa Hondureña de Telecomunicaciones (HONDUTEL)	Honduras	100%	83,334	0.050000%	Y(M)	Yes

Name	Nationality	% Government Ownership	# Shares	% Shares/ Votes	WTO Y/N?†	Shareholders as of Privatization
Ministry of Posts and Telecommunications of the Democratic People's Republic of Korea	Korea, Dem. Peoples Rep. Of	100%	83,334	0.050000%	Y(M)	Yes
Ministry of Transport and Communications of the Kyrgyz Republic	Kyrgyz Republic	100%	83,334	0.050000%	Y(M)	Yes
Government of the Principality of Liechtenstein	Liechtenstein	100%	83,334	0.050000%	Y(M)	Yes
Enterprise des Postes et Télécommunications	Luxembourg	100%	83,334	0.050000%	Y(M)	Yes
Federated States of Micronesia Telecommunications Corporation	Micronesia		83,334	0.050000%	N	Yes
Mongolia Telecom	Mongolia		83,334	0.050000%	Y(M)	Yes
Telecom Namibia Limited	Namibia	100%	83,334	0.050000%	Y(M)	Yes
Rwandatel S.A.	Rwanda	99%	83,334	0.050000%	Y(M)	Yes
Ministry of Posts and Telecommunications of the Somali Democratic Republic (Trust II)	Somalia	100%	83,334	0.050000%	N	Yes
Posts and Telecommunications Corporation (Public)	Swaziland	100%	83,334	0.050000%	Y(M)	Yes
Ministry of Communications, Public	Tajikistan	100%	83,334	0.050000%	Y(O)	Yes
Ministere des Transports et des Communications (Trust II)	Tunisia	100%	83,334	0.050000%	Y(M)	Yes
Uganda Telecom Limited	Uganda	49%	83,334	0.050000%	Y(M)	Yes
Tryco International Inc. (Trust II)	United States / Austria		83,334	0.050000%	Y(M)	Yes
Tryco International Inc.	United States / Austria		83,334	0.050000%	Y(M)	Yes
Post and Telecommunications Agency of the Republic of Uzbekistan	Uzbekistan	100%	83,334	0.050000%	Y(O)	Yes
Government of the Vatican City State	Vatican City State	100%	83,334	0.050000%	Y(O)	Yes
Secretaria de Comunicaciones	Argentina	100%	83,167	0.049900%	Y(M)	Yes
Ministry of Post and Communications (Trust II)	Jordan	100%	83,165	0.049899%	Y(M)	Yes
Société Centrafricaine des Télécommunications (SOCATEL) (Codan Trust Co. Ltd. Under Collat. Trust)	Central African Republic	60%	72,734	0.043640%	Y(M)	Yes
Société Centrafricaine des Télécommunications (SOCATEL)	Central African Republic	60%	23,221	0.013933%	Y(M)	Yes
Eircom plc (Trust II)	Ireland		62,097	0.037258%	Y(M)	Yes
Globecast Northern Europe Ltd. (UK)	United Kingdom		59,853	0.035913%	Y(M)	Yes
Government of Zimbabwe (Codan Trust Co. Ltd. Under Collat. Trust)	Zimbabwe	100%	53,097	0.031858%	Y(M)	Yes
Government of Zimbabwe	Zimbabwe	100%	30,237	0.018142%	Y(M)	Yes
Bellsouth Chile S.A. (Trust II)	Chile		48,965	0.029379%	Y(M)	Yes
Mediterranean Network S.A.M.	Monaco		48,249	0.028949%	N	No
Gibraltar Telecommunications International Limited	United Kingdom		47,204	0.028322%	Y(M)	Yes
GENSAT SARL	France		24,689	0.014813%	Y(M)	Yes
Teleport UK Limited (trading as Satellite Media Services)	United Kingdom		23,847	0.014308%	Y(M)	Yes
Western Telesystems (Ghana) Ltd.	Ghana		22,019	0.013211%	Y(M)	Yes
Servicio Para el Transporte de Información S.A. (SPTI)	Argentina		21,130	0.012678%	Y(M)	Yes
GTECH Foreign Holdings Corporation	Argentina		20,225	0.012135%	Y(M)	Yes
Michel Ducros	Switzerland		19,751	0.011851%	Y(M)	No
SOTELGUI	Guinea	40%	16,947	0.010168%	Y(M)	Yes
Pramer S.C.A.	Argentina		14,684	0.008810%	Y(M)	Yes
AT&T Chile Long Distance S.A.	Chile		12,934	0.007760%	Y(M)	Yes
Haitel, S.A. (Trust II)	Haiti	97%	10,952	0.006571%	Y(M)	Yes
DeTeSat Deutsche Telekom	United Kingdom		9,074	0.005444%	Y(M)	Yes
Z&Z SA	France		8,230	0.004938%	Y(M)	No
Frederic Putod	Morocco		8,230	0.004938%	Y(M)	No
Data Marine Systems Ltd.	United Kingdom		8,155	0.004893%	Y(M)	Yes
Tgo Do Brasil Limitada	Brazil		5,224	0.003134%	Y(M)	Yes
Bruno Garcin	United Kingdom		4,938	0.002963%	Y(M)	Yes



Name	Nationality	% Government Ownership	# Shares	% Shares/ Votes	WTO Y/N?†	Shareholders as of Privatization
WOLD Internacional, S.A.	Argentina		4,115	0.002469%	Y(M)	Yes
Television New Zealand Ltd.	New Zealand		3,409	0.002045%	Y(M)	Yes
Outremer TELECOM (Trust II)	Martinique (French Polynesia)		3,070	0.001842%	N	Yes
Beednet Group	United Kingdom		1,385	0.000831%	Y(M)	Yes
ST Teleport PTE Ltd.	Singapore		1,044	0.000626%	Y(M)	Yes
Servicios Satelitales S.A.	Argentina		790	0.000474%	Y(M)	Yes
Electroteks Limited	Sri Lanka		389	0.000233%	Y(M)	Yes
MULTICOMS	France		2	0.000001%	Y(M)	Yes
Tele2 Sverige AB	Sweden		2	0.000001%	Y(M)	Yes
Caprock UK Ltd.	United Kingdom		2	0.000001%	Y(M)	Yes
Flow-Line Communications Ltd.	United Kingdom		2	0.000001%	Y(M)	Yes
International Telecommunications & Network, Inc. (Trust II)	United Kingdom		2	0.000001%	Y(M)	Yes
Loral CyberStar GmbH (Trust II)	United Kingdom		2	0.000001%	Y(M)	Yes
Multipoint Communications Ltd.	United Kingdom		2	0.000001%	Y(M)	Yes
Muslim Television Ahmadiyya (Trust II)	United Kingdom		2	0.000001%	Y(M)	Yes
National Transcommunications Ltd. (NTL)	United Kingdom		2	0.000001%	Y(M)	Yes
Orblynx UK Ltd. (Trust II)	United Kingdom		2	0.000001%	Y(M)	Yes
Primus Telecommunications UK Ltd. (Trust II)	United Kingdom		2	0.000001%	Y(M)	Yes
RTE Commercial Enterprises Ltd.	United Kingdom		2	0.000001%	Y(M)	Yes
Triaton GMBH (Trust II)	United Kingdom		2	0.000001%	Y(M)	Yes
Williams Communications Group Ltd. (Trust II)	United Kingdom		2	0.000001%	Y(M)	Yes
			166,666,755	100.00%		

NOTES:

Certain trusts noted above in parenthetical references are so designated for informational purposes only; beneficiaries are treated as owners for purposes of Section 310(b)(4) reporting purposes.

† World Trade Organization Members are noted as Y(M). WTO Observers are noted as Y(O). With the exception of the Holy See, observers must start accession negotiations within five years of becoming observers.