

READ INSTRUCTIONS CAREFULLY  
BEFORE PROCEEDING

FEDERAL COMMUNICATIONS COMMISSION  
REMITTANCE ADVICE

Approved by OMB  
3060-0589  
Page No 1 of 2

(1) LOCKBOX # **358210**

SPECIAL USE

FCC USE ONLY

SECTION A - PAYER INFORMATION

(2) PAYER NAME (if paying by credit card, enter name exactly as it appears on your card)  
**Wiley Rein & Fielding LLP**

(3) TOTAL AMOUNT PAID (U.S. Dollars and cents)  
**\$20,010.00**

(4) STREET ADDRESS LINE NO. 1  
**1776 K Street, N.W.**

(5) STREET ADDRESS LINE NO. 2

RECEIVED - FCC  
APR 18 2002

(6) CITY  
**Washington**

Federal Communication Commission  
Bureau/Office

(7) STATE  
**DC**

(8) ZIP CODE  
**20006**

(9) DAYTIME TELEPHONE NUMBER (include area code)  
**202-719-7000**

(10) COUNTRY CODE (if not in U.S.A.)

FCC REGISTRATION NUMBER (FRN) AND TAX IDENTIFICATION NUMBER (TIN) REQUIRED

(11) PAYER (FRN)  
**0002151744**

(12) PAYER (TIN)  
**521289988**

IF PAYER NAME AND THE APPLICANT NAME ARE DIFFERENT, COMPLETE SECTION B  
IF MORE THAN ONE APPLICANT, USE CONTINUATION SHEETS (FORM 159-C)

(13) APPLICANT NAME  
**INTELSAT LLC**

(14) STREET ADDRESS LINE NO. 1  
**3400 International Drive, N.W.**

(15) STREET ADDRESS LINE NO. 2

(16) CITY  
**Washington**

(17) STATE  
**DC**

(18) ZIP CODE  
**20008-3098**

(19) DAYTIME TELEPHONE NUMBER (include area code)  
**202-944-7225**

(20) COUNTRY CODE (if not in U.S.A.)

FCC REGISTRATION NUMBER (FRN) AND TAX IDENTIFICATION NUMBER (TIN) REQUIRED

(21) APPLICANT (FRN)  
**0005069661**

(22) APPLICANT (TIN)  
**980348066**

COMPLETE SECTION C FOR EACH SERVICE, IF MORE THAN ONE SERVICE IS REQUIRED, USE CONTINUATION SHEETS

(23A) CALL SIGN/OTHER ID  
**S2399**

(24A) P. CODE  
**BFY S2399 SAT-MOD-20020418-00063**

(26A) FEE DUE FOR (PTC)  
**\$6,670.00**

(27A) TOTAL FEE  
**INTELSAT LLC  
INTELSAT 603**

(28A) FCC CODE 1

(29A) FCC CODE 2

**S2395 SAT-MOD-20020418-00064**

(23B) CALL SIGN/OTHER ID  
**S2395**

(24B) P. CODE  
**INTELSAT LLC  
INTELSAT 705**

(26B) FEE DUE FOR (PTC)  
**\$6,670.00**

(27B) TOTAL FEE  
**S2396 SAT-MOD-20020418-00065  
INTELSAT LLC  
INTELSAT 709**

(28B) FCC CODE 1

(29B) FCC CODE 2

SECTION D - CERTIFICATION

(30) CERTIFICATION STATEMENT

I, \_\_\_\_\_, certify under penalty of perjury that the foregoing and supporting information is true and correct to the best of my knowledge, information and belief. SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

SECTION E - CREDIT CARD PAYMENT INFORMATION

(31)

MASTERCARD

MASTERCARD/VISA ACCOUNT NUMBER:

VISA

I hereby authorize the FCC to charge my VISA or MASTERCARD for the service(s)/authorization herein described.

SIGNATURE \_\_\_\_\_

DATE \_\_\_\_\_

EXPIRATION DATE: \_\_\_\_\_

File # **SAT-MOD-20020418-00065**  
Call Sign **S2396** Grant Date **10-4-02**  
(or other identifier)

Term Dates \_\_\_\_\_

From \_\_\_\_\_ To: \_\_\_\_\_

SEE PUBLIC BURDEN ON REVERSE

FCC FORM 159 FEBRUARY 2000 (REVISED)

International Bureau

Approved: Jennifer M. Nelson  
consisted with attached conditions

## **Attachment**

By this grant we modify Intelsat LLC's license, authorizing Intelsat LLC to relocate its INTELSAT 709 satellite from its current location at 50.0° W.L. to 55.35° W.L. instead of the 157.0° E.L. orbital location, previously authorized, subject to the following condition:

- 1) Intelsat LLC will operate its INTELSAT 709 satellite in compliance with all existing coordination agreements.

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

In the Matter of:

**INTELSAT LLC**

Applications to Modify Authorizations  
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 Nos. SAT-A/O-20000119-00009; SAT-  
A/O-20000119-00010; SAT-A/O-20000119-  
00013; SAT-AMD-20000119-00032; SAT-  
AMD-20000119-00035; SAT-AMD-  
20000119-00038; SAT-MOD-200100509-  
00034; SAT-MOD-200100509-00036; SAT-  
MOD-20011221-00143.

**Applications of Intelsat LLC  
to Modify Authorizations**

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

Intelsat LLC  
3400 International Drive  
Washington, DC 20008  
(202) 944-6800

Dated: April 18, 2002



File # SAT-MOD-20020418-00065

Call Sign S2396 Grant Date 10-4-02  
(or other identifier)

Term Dates

From \_\_\_\_\_ To: \_\_\_\_\_

Approved: Jennifer M. Gies

*consistent with attached conditions*

REMITTANCE ADVICE (Continuation Sheet)

FEDERAL COMMUNICATIONS COMMISSION

SPECIAL USE
FCC USE ONLY

USE THIS SECTION ONLY FOR EACH ADDITIONAL APPLICANT

SECTION BB - ADDITIONAL APPLICANT INFORMATION

(13) APPLICANT NAME	
(14) STREET ADDRESS LINE NO. 1	
(15) STREET ADDRESS LINE NO. 2	
(16) CITY	(17) STATE (18) ZIP CODE
(19) DAYTIME TELEPHONE NUMBER (include area code)	(20) COUNTRY CODE (if not in U.S.A.)

FCC REGISTRATION NUMBER (FRN) AND TAX IDENTIFICATION NUMBER (TIN) REQUIRED

(21) APPLICANT (FRN)	(22) APPLICANT (TIN)
----------------------	----------------------

IF MORE BOXES ARE NEEDED, USE ADDITIONAL FCC 159-C CONTINUATION SHEETS TO LIST EACH SERVICE

SECTION CC - PAYMENT INFORMATION

(23A) CALL SIGN/OTHER ID <b>S2396</b>	(24A) PAYMENT TYPE CODE <b>BFY</b>	(25A) QUANTITY <b>1</b>
(26A) FEE DUE FOR (PTC) <b>\$6,670.00</b>	(27A) TOTAL FEE <b>\$6,670.00</b>	FCC USE ONLY
(28A) FCC CODE 1	(29A) FCC CODE 2	

(23B) CALL SIGN/OTHER ID	(24B) PAYMENT TYPE CODE	(25B) QUANTITY
(26B) FEE DUE FOR (PTC)	(27B) TOTAL FEE	FCC USE ONLY
(28B) FCC CODE 1	(29B) FCC CODE 2	

(23C) CALL SIGN/OTHER ID	(24C) PAYMENT TYPE CODE	(25C) QUANTITY
(26C) FEE DUE FOR (PTC)	(27C) TOTAL FEE	FCC USE ONLY
(28C) FCC CODE 1	(29C) FCC CODE 2	

(23D) CALL SIGN/OTHER ID	(24D) PAYMENT TYPE CODE	(25D) QUANTITY
(26D) FEE DUE FOR (PTC)	(27D) TOTAL FEE	FCC USE ONLY
(28D) FCC CODE 1	(29D) FCC CODE 2	

(23E) CALL SIGN/OTHER ID	(24E) PAYMENT TYPE CODE	(25E) QUANTITY
(26E) FEE DUE FOR (PTC)	(27E) TOTAL FEE	FCC USE ONLY
(28E) FCC CODE 1	(29E) FCC CODE 2	

(23F) CALL SIGN/OTHER ID	(24F) PAYMENT TYPE CODE	(25F) QUANTITY
(26F) FEE DUE FOR (PTC)	(27F) TOTAL FEE	FCC USE ONLY
(28F) FCC CODE 1	(29F) FCC CODE 2	



# WILEY REIN & FIELDING LLP

149325

1776 K Street, N.W.  
Washington, DC  
**Operating Account**

Date	Amount
04/18/2002	*****20,010.00

**Pay** Twenty Thousand Ten and 00/100 Dollars ONLY

*To the  
Order of* FCC

*[Signature]*  
*Barry L. Strauss*

Bank of America, N.A.  
Washington, DC

(Two Signatures Required For Amounts Over \$1,000.00)

⑈ 149325⑈ ⑆05400⑆204⑆ ⑈000003702987⑈

Attached is our check in full settlement of items shown hereon. If not correct, please return with explanation or call us at (202)719-7512.

**No. 149325**

**Check Date 04/18/2002**

FCC					
Description	Date	Invoice No.	Amount of Invoice	Discount	Net
FILING FEE	04/18/2002		20,010.00	.00	20,010.00
				<b>Total</b>	20,010.00

**TABLE OF CONTENTS**

<b><u>PART 1:</u></b>	Page
<b>I. BACKGROUND.....</b>	<b>2</b>
<b>II. PROPOSED MODIFICATIONS.....</b>	<b>4</b>
<b>III. PUBLIC INTEREST SHOWING .....</b>	<b>5</b>
<b>IV. CONCLUSION.....</b>	<b>7</b>

**PART 2:**

**INDIVIDUAL MODIFICATION APPLICATIONS**

**ATTACHMENT A – INTELSAT LLC OWNERSHIP AND INVESTING ENTITIES**

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

In the Matter of:

**INTELSAT LLC**

Applications to Modify Authorizations  
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 Nos. SAT-A/O-20000119-00009; SAT-  
A/O-20000119-00010; SAT-A/O-  
20000119-00013; SAT-AMD-20000119-  
00032; SAT-AMD-20000119-00035; SAT-  
AMD-20000119-00038; SAT-MOD-  
200100509-00034; SAT-MOD-200100509-  
00036; SAT-MOD-20011221-00143.

**Applications of Intelsat LLC  
to Modify Authorizations**

Intelsat LLC (“Intelsat”), pursuant to Section 25.117(d) of the Federal Communications Commission’s (“FCC” or “Commission”) rules, hereby submits the following three requests for modification of its space station authorizations to permit relocation and deployment plan changes for three of its satellites. Specifically, Intelsat requests authority to make the following modifications to its authorizations for the satellites listed below:

1. **INTELSAT 603** (S2399), File Nos. SAT-A/O-20000119-00013, SAT-AMD-20000119-00032, SAT-MOD-200100509-00034, SAT-MOD-20011221-00143. Intelsat requests modification of its license to relocate INTELSAT 603 from 24.5° W.L. to 178° E.L. Intelsat plans to start drifting INTELSAT 603 toward 178° E.L. in July 2002 and have the satellite on-station at that location in July 2003.
2. **INTELSAT 705** (S2395), File Nos. SAT-A/O-20000119-00009, SAT-AMD-20000119-00035, SAT-MOD-20010509-00036. Intelsat requests modification of its license to relocate INTELSAT 705 from 53° W.L. to 50° W.L. in April/May 2002.
3. **INTELSAT 709** (S2396), File No. SAT-A/O-20000119-00010, SAT-AMD-20000119-00038, Intelsat requests modification of its license to relocate INTELSAT 709 to 55.35° W.L. in May 2002, instead of to 157° E.L. in April 2003.

As explained in the following sections, grant of the instant modifications will serve the public interest by enabling Intelsat to implement deployment plan changes to respond to customer demands and ensure continuity of service. The requested modifications will not adversely affect any party and the total number of orbital locations assigned to Intelsat will not increase. A completed FCC form 312 is attached for each modification requested.

## **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 orbital locations, certain currently operating satellites upon the launch of the 10 planned satellites.<sup>1</sup>

As explained in Intelsat's original application, in order to accomplish its diverse mission, the Intelsat system must 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.

For example, on May 8, 2001, Intelsat filed an application to modify the licenses granted for its INTELSAT 601, 602, 603, 604, 705, 901, and 902 satellites. All of these satellites provide

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<sup>1</sup> See *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* (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 (Aug. 8, 2000) (Memorandum Opinion Order and Authorization) ("Intelsat August 2000 Licensing Order"), recon. denied, 15 FCC Rcd 25234 (2000) (Order on Reconsideration).



C-band and Ku-band services. The requests for modification were granted on August 31, 2001.<sup>2</sup>

In December 2001, Intelsat filed an application to further modify the licenses for the INTELSAT 601, 602, 603 and 604 satellites and to modify its licenses for the INTELSAT 903 and 904 satellites.<sup>3</sup> The modification applications for the INTELSAT 903 and 904 satellites were granted on March 22, 2002.<sup>4</sup> Finally, on March 15, 2002, Intelsat filed applications to amend the modification application for the INTELSAT 602 satellite and to modify its licenses for the INTELSAT 905 and 906 satellites.<sup>5</sup> These requests are currently pending.

The instant application for modification of Intelsat's licenses is the result of further evaluation of market conditions and refinement of Intelsat's satellite deployment plans. The requested modifications are fully described below.

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<sup>2</sup> See *Applications of Intelsat LLC to Modify Authorizations to Operate, and to Further Construct, Launch, and Operate C-band and Ku-band Satellites that Form a Global Communications System in Geostationary Orbit*, 16 FCC Rcd 16208 (2001) (Order and Authorization) ("*Intelsat September 2001 Modification Order*").

<sup>3</sup> See *Applications of Intelsat LLC to Modify Authorization* (filed Dec. 21, 2001). The modification applications were placed on Public Notice on January 11, 2002 and no comments were filed. See *Satellite Policy Branch Information, Applications Accepted for Filing*, Report No. SAT-00098, (Jan. 11, 2002) (Public Notice).

<sup>4</sup> See *Stamp Grant by Jennifer Gilsenan, Branch Chief, Satellite Policy Branch*, File No. SAT-MOD-20011221-00139 (Intelsat 903), issued March 22, 2002; *Stamp Grant by Jennifer Gilsenan, Branch Chief, Satellite Policy Branch*, File No. SAT-MOD-20011221-00140 (Intelsat 904), issued March 22, 2002.

<sup>5</sup> See *Amendment Application of Intelsat LLC to Modify Authorization* (filed Mar. 15, 2002); *Applications of Intelsat LLC to Modify Authorizations* (filed Mar. 15, 2002). The INTELSAT 602 amendment and INTELSAT 905 and 906 modification applications were placed on Public Notice on April 5, 2002. See *Satellite Policy Branch Information, Applications Accepted for Filing*, Report No. SAT-00107, (Apr. 5, 2002) (Public Notice).

## II. PROPOSED MODIFICATIONS

On August 8, 2000, the Commission granted Intelsat authority to operate INTELSAT 603 at 24.5° W.L. and to relocate it to 62.0° E.L. in August 2001.<sup>6</sup> On September 4, 2001, the FCC granted Intelsat authority to continue operation of INTELSAT 603 at 24.5° W.L. until INTELSAT 903 is launched and on-station at that location.<sup>7</sup> In its December 2001 request for modification of its licenses, Intelsat requested authority to continue operation of INTELSAT 603 at 24.5° W.L. until INTELSAT 905 is launched and on-station at that location in August 2002.<sup>8</sup> This request is currently pending. Intelsat now requests authority to relocate INTELSAT 603 from 24.5° W.L. to 178° E.L. upon launch and operation of INTELSAT 905 at 24.5° W.L.<sup>9</sup> Intelsat plans to start relocating INTELSAT 603 in July 2002 and it is planned to be on-station at 178° E.L. in July 2003.

The Commission previously authorized Intelsat to operate INTELSAT 705 at 53° W.L. to serve as an in-orbit back-up for INTELSAT 706 during the March 2002 eclipse season.<sup>10</sup> The March 2002 eclipse season ended on April 12, 2002 and Intelsat now requests authority to relocate INTELSAT 705 to 50° W.L. Intelsat plans to start the relocation of INTELSAT 705 on April 23, 2002 and has filed a request for Special Temporary Authority to start drifting the

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<sup>6</sup> See *Intelsat August 2000 Licensing Order*, 15 FCC Rcd at 15531.

<sup>7</sup> See *Intelsat September 2001 Modification Order*, 16 FCC Rcd 16208, ¶ 4.

<sup>8</sup> See *Applications of Intelsat LLC to Modify Authorizations*, File No. SAT-MOD-20011221-00143 (filed Dec. 21, 2001). The modification application for the 603 satellite was placed on Public Notice on January 11, 2002 and no comments were filed. See *Satellite Policy Branch Information, Applications Accepted for Filing*, Report No. SAT-00098, (Jan. 11, 2002) (Public Notice).

<sup>9</sup> INTELSAT 602, and then INTELSAT 705, were originally licensed to be relocated to 178° E.L. See *Intelsat August 2000 Licensing Order*, 15 FCC Rcd 15460, Appendix A, Table 3.

<sup>10</sup> See *September 2001 Modification Order*, 16 FCC Rcd 16208, ¶ 4.

satellite on that date.<sup>11</sup> This relocation will free up INTELSAT 709, which currently operates at 50° W.L.

Thus, Intelsat also requests FCC approval to relocate INTELSAT 709 to 55.35° W.L. instead to 157° E.L., as originally authorized.<sup>12</sup> At 55.35° W.L., INTELSAT 709 will be co-located with INTELSAT 805 (located at 55.5° W.L.) and will provide needed capacity in the Americas. Upon transfer of traffic from INTELSAT 709 to INTELSAT 705, Intelsat plans to start the relocation of INTELSAT 709 to 55.35° W.L. in early May 2002. INTELSAT 709 is planned to be on-station at that location in late May 2002.

### III. PUBLIC INTEREST SHOWING

The proposed modifications to Intelsat's deployment plan will serve the public interest. Not only will the modifications promote efficient use of the orbital arc, they 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 satellites, the Commission stated that licensees are "in a better position" to determine how to tailor their systems "to meet the particular needs of [their] customers."<sup>13</sup> As a result, the Commission further explained, "the Commission will generally grant a licensee's request to modify its system,

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<sup>11</sup> See *Request for Special Temporary Authority for INTELSAT 705; Call Sign: S2395* (filed Apr. 11, 2002) ("April 2002 705 STA Request").

<sup>12</sup> See *Intelsat August 2000 Licensing Order*, 15 FCC Rcd 15460, Appendix A, Table 3.

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

provided there are no compelling countervailing public interest considerations."<sup>14</sup>

The instant modification applications are fully consistent with this policy. Intelsat proposes to respond to customer needs by operating certain satellites in locations other than those contemplated in the *Intelsat August 2000 Licensing Order*. Importantly, the modifications contemplated herein do 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 satellites affected by these modifications in accordance with the coordination agreements in place. Further, Intelsat has notified the Commission that the 705 and 709 satellites have the same technical characteristics.<sup>15</sup> Thus, relocation of these satellites into orbital locations originally authorized for other Intelsat satellites should raise no interference issues.

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

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(continued . . .)

Authorization).

<sup>14</sup> *Id.*

<sup>15</sup> *See April 2002 705 STA Request.*



#### IV. CONCLUSION

For the foregoing reasons, Intelsat LLC requests modifications of its authorizations for INTELSAT 603, INTELSAT 705 and INTELSAT 709 to permit relocation and deployment of these satellites as described herein.

Respectfully submitted,

**Intelsat LLC**

By: 

Patrick Cerra  
Vice President

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

Dated: April 18, 2002

**FCC 312  
Main Form**

**FEDERAL COMMUNICATIONS COMMISSION**

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

Approved by OMB  
3060-0678  
Est. Avg. Burden Hours  
Per Response: 11 Hrs.

FCC Use Only

File Number:

Call Sign:

Fee Number:

**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>	
ATTENTION: <b>Milenko Stojkovic</b>		8. Zip Code <b>20008-3098</b>	
9. Name of Contact Representative (If other than applicant) <b>Bert Rein</b>		10. Voice Telephone Number <b>(202) 719 7000</b>	
11. Firm or Company Name <b>Wiley, Rein &amp; Fielding</b>		12. Fax Telephone Number <b>(202) 719 7207</b>	
13. Mailing Street Address or P.O. Box <b>1776 K Street, N.W.</b>		14. City <b>Washington</b>	
ATTENTION: <b>Bert Rein</b>		15. State / Country (if not U.S.A.) <b>DC</b>	
		16. Zip Code <b>20006</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 type="checkbox"/> b6. Transfer of Control of License or Registration
<input type="checkbox"/> a2. Space Station	<input type="checkbox"/> b2. Application for Registration of New Domestic Receive-Only Station	<input type="checkbox"/> b7. Notification of Minor Modification
<input checked="" type="checkbox"/>	<input type="checkbox"/> b3. Amendment to a Pending Application	<input type="checkbox"/> b8. Application for License of New Receive-Only Station Using Non-U.S. Licensed Satellite
	<input type="checkbox"/> b4. Modification of License or Registration	<input type="checkbox"/> b9. Letter of Intent to Use Non-U.S. Licensed Satellite to Provide Service in the United States
	<input type="checkbox"/> b5. Assignment of License or Registration	<input type="checkbox"/> b10. Other (Please Specify):

18. If this filing is in reference to an existing station, enter:  
Call sign of station: **S2396**

(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  
 c. Other (Please specify)

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  
 c. Connected to the Public Switched Network     d. Not connected to the Public Switched Network

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)     b. Ku-Band (12/14 GHz)     c. Other (Please specify)

**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 relocate space station**

**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. 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.

YES     NO

**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 original application filed in January 2000 and updated ownership information in 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?	United States	



43. Description. (Summarize the nature of the application and the services to be provided).  
 Intelsat LLC requests modification of its license to relocate INTELSAT 603 from the 24.5 degrees W.L orbital location to 178 degrees E.L. Intelsat plans to start drifting INTELSAT 603 toward 178 degrees E.L. in July 2002, and have the satellite on-station at that location in July 2003.

Exhibit No.	Identify all exhibits that are attached to this application.
	See Exhibit 1

**CERTIFICATION**

The Applicant waives any claim to the use of any particular frequency or of the electromagnetic spectrum as against the regulatory power of the United States because of the previous use of the same, whether by license or otherwise, and requests an authorization in accordance with this application. The applicant certifies that grant of this application would not cause the applicant to be in violation of the spectrum aggregation limit in 47 CFR Part 20. All statements made in exhibits are a material part hereof and are incorporated herein as if set out in full in this application. The undersigned, individually and for the applicant, hereby certifies that all statements made in this application and in all attached exhibits are true, complete and correct to the best of his or her knowledge and belief, and are made in good faith.

44. Applicant is a (an): (Place an "X" in the box next to applicable response.)  
 a. Individual     b. Unincorporated Association     c. Partnership     d. Corporation     e. Governmental Entity     f. Other  
 (Please specify) L.L.C.

45. Typed Name of Person Signing  
 Patrick Cerra  
 46. Title of Person Signing  
 Vice President

47. Signature  
*Patrick Cerra*

48. Date  
*April 19, 2002*  
 WILLFUL FALSE STATEMENTS MADE ON THIS FORM ARE PUNISHABLE BY FINE AND/OR IMPRISONMENT (U.S. Code, Title 18, Section 1001), AND/OR REVOCATION OF ANY STATION AUTHORIZATION (U.S. Code, Title 47, Section 312(a)(1)), AND/OR FORFEITURE (U.S. Code, Title 47, Section 503).

**NTELSAT 603 MODIFICATION**

**EXHIBIT 1  
Technical Description and  
Other Information Required Under Section 25.114(c)**

The Applicant, Intelsat LLC, hereby applies for authority to relocate INTELSAT 603, a geostationary satellite that is already in orbit and operating in the C-band and Ku-band currently at 24.5° W.L., to the 178° E.L. orbital position. Intelsat plans to start drifting INTELSAT 603 toward 178° E.L. in July 2002 and have the satellite on-station at that location in July 2003.

Specific technical information for the INTELSAT 603 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, Telecommunication and Regulatory Policy  
Intelsat Global Service Corporation  
3400 International Drive, N.W.  
Washington, D.C. 20008-3098  
(202) 944-7590

The Applicant's counsel is:

Bert W. Rein  
Carl R. Frank  
Jennifer 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 contact person for the Applicant, with copies to the above counsel.

**TYPE OF AUTHORIZATION REQUESTED**

This application requests FCC authority to relocate and continue to operate a satellite in the Fixed-Satellite Service operating in the C-band and Ku-band. Intelsat LLC seeks authority for INTELSAT 603 to operate on both a common and non-common carrier basis.

## **TECHNICAL INFORMATION**

The coverage of INTELSAT 603 from the 178° E.L. location is provided in Attachment 1 to this Exhibit 1.

## **WAIVERS REQUESTED**

It is requested that the waivers granted to the INTELSAT 603 spacecraft at the 24.5° W.L. location continue to apply at 178° E.L.

## **PUBLIC INTEREST CONSIDERATIONS**

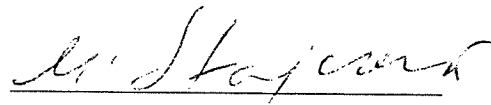
A detailed statement regarding the public interest considerations supporting grant of this application can be found in Part 1 of this application.

## **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

Telecommunication and Regulatory Policy

Intelsat Global Service Corporation

April 18, 2002



INTELSAT 603 at 178.00°E Antenna Coverage  
S/C Platform Bias (Tx) : 0.10°E 0.50°N  
S/C Platform Bias (Rx) : 0.10°E 0.50°N  
YAW : 0.00°  
Antenna Pointing : 0.00°E 0.00°N  
GA

Peak Gain (Downlink Co-pol) (See +)  
GA : 19.4 dBi

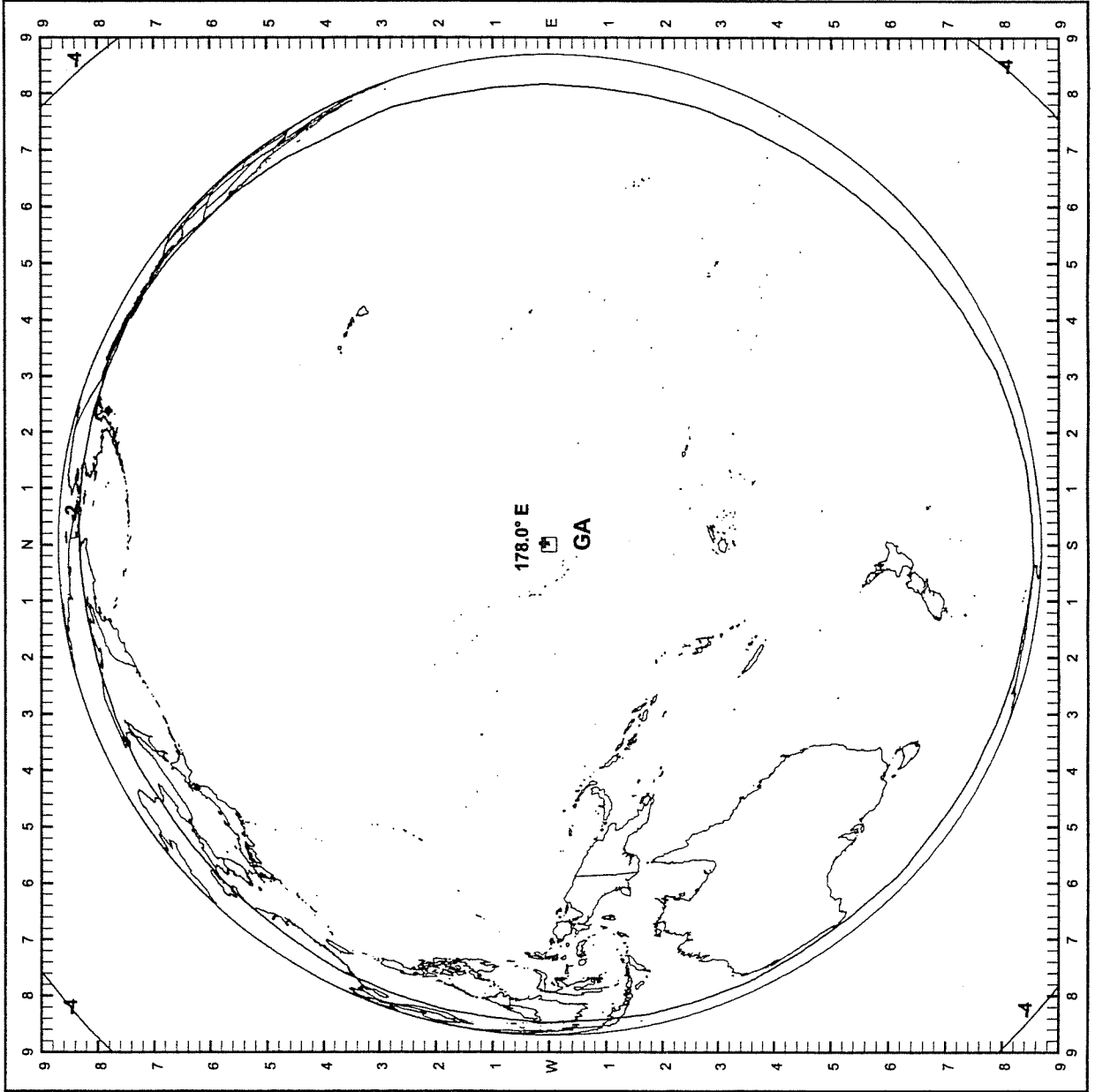
Beam Peak EIRP : 29.3 dBW  
GA

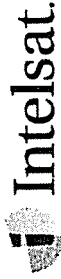
Contour Levels : -2, -4, -6, -8, -10, -15, -20 dB  
GA

Beam Frequencies : 4177.5  
GA

Polarization : Circular RHCP  
GA

Square : Sub-Satellite Point





INTELSAT 603 at 178.00°E Antenna Coverage  
S/C Platform Bias (Tx) : 0.10°E 0.50°N  
S/C Platform Bias (Rx) : 0.10°E 0.50°N  
YAW : 0.00°

Peak Gain (Downlink Co-pol) (See +)  
EH : 25.2 dBi

Beam Peak EIRP  
EH : 35.8 dBW

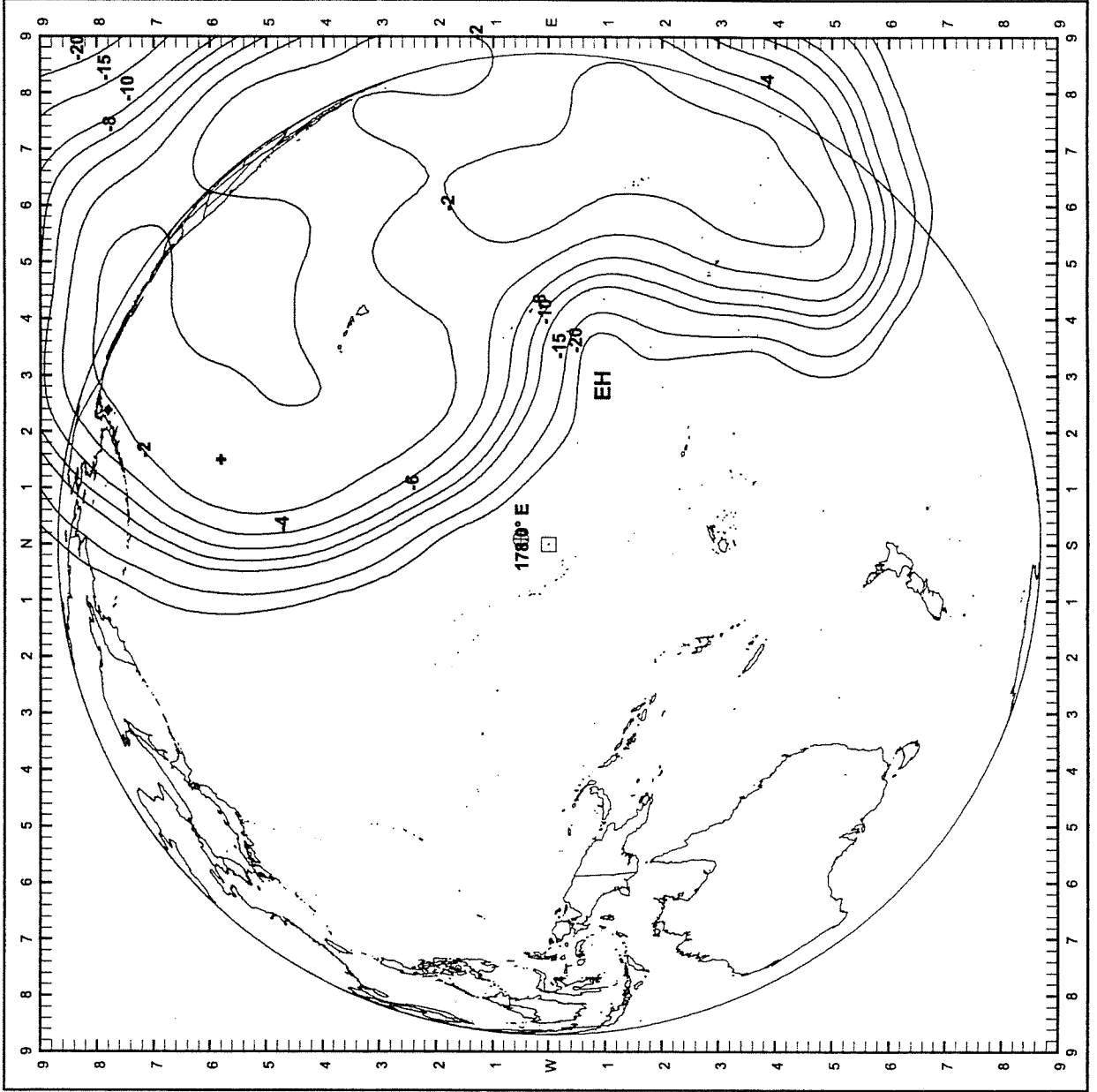
Contour Levels  
EH : -2, -4, -6, -8, -10, -15, -20 dB

Beam Frequencies  
EH : 3905

Polarization  
EH : Circular RHCP

Square : Sub-Satellite Point

Circle : Sat.Ant.Platform Bias





INTELSAT 603 at 178.00°E Antenna Coverage  
 S/C Platform Bias (Tx) : 0.10°E 0.50°N  
 S/C Platform Bias (Rx) : 0.10°E 0.50°N  
 YAW : 0.00°

Peak Gain (Downlink Co-pol) (See +)  
 WH : 24.8 dBi

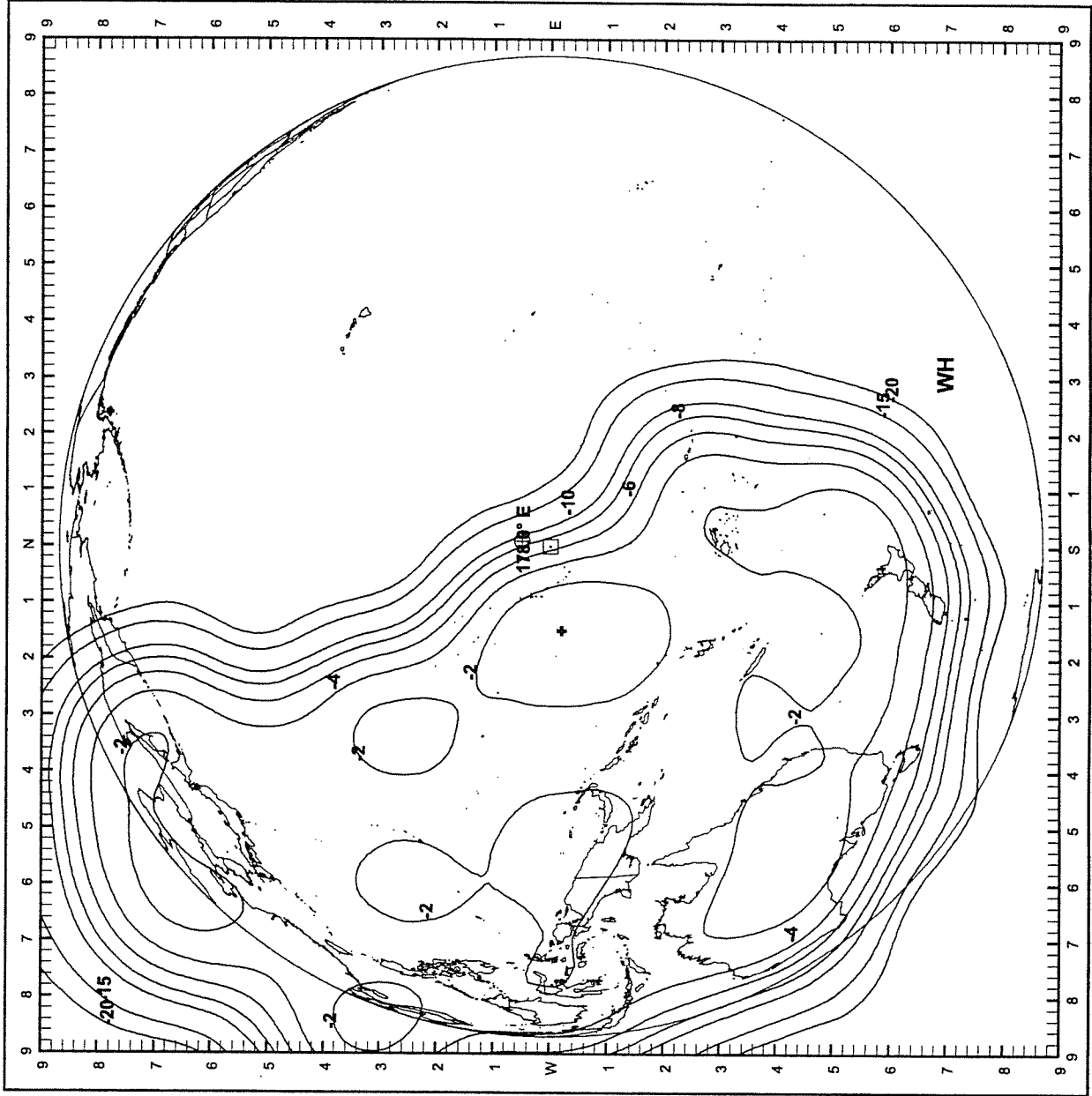
Beam Peak EIRP : 35.4 dBW  
 WH

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

Beam Frequencies : 3905  
 WH

Polarization : Circular RHCP  
 WH

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







INTELSAT 603 at 178.00°E Antenna Coverage  
 S/C Platform Bias (Tx) : 0.10°E 0.50°N  
 S/C Platform Bias (Rx) : 0.10°E 0.50°N  
 YAW : 0.00°

Peak Gain (Downlink Co-pol) (See +)  
 AZ3 : 32.3 dBi  
 AZ1 : 34.5 dBi

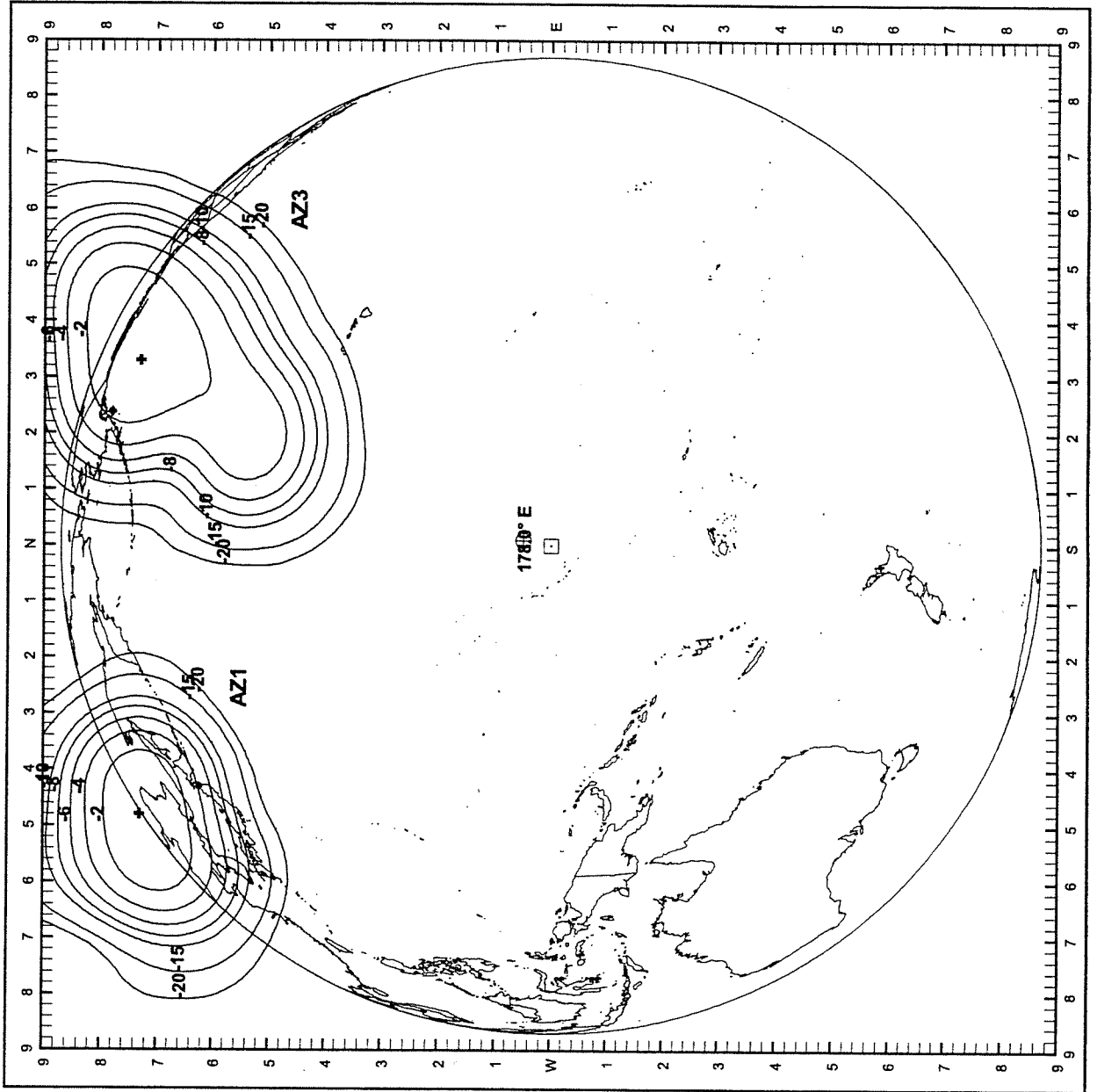
Beam Peak EIRP  
 AZ3 : 36.5 dBW  
 AZ1 : 36.5 dBW

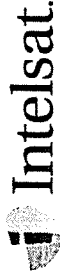
Contour Levels  
 AZ3 : -2, -4, -6, -8, -10, -15,  
 -20 dB  
 AZ1 : -2, -4, -6, -8, -10, -15,  
 -20 dB

Beam Frequencies  
 AZ3 : 3905  
 AZ1 : 3905

Polarization  
 AZ3 : Circular LHCP  
 AZ1 : Circular LHCP

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





INTELSAT 603 at 178.00°E Antenna Coverage  
S/C Platform Bias (Tx) : 0.10°E 0.50°N  
S/C Platform Bias (Rx) : 0.10°E 0.50°N  
YAW : 0.00°

Peak Gain (Downlink Co-pol) (See +)  
AZ4 : 27.2 dBi  
AZ2 : 26.4 dBi

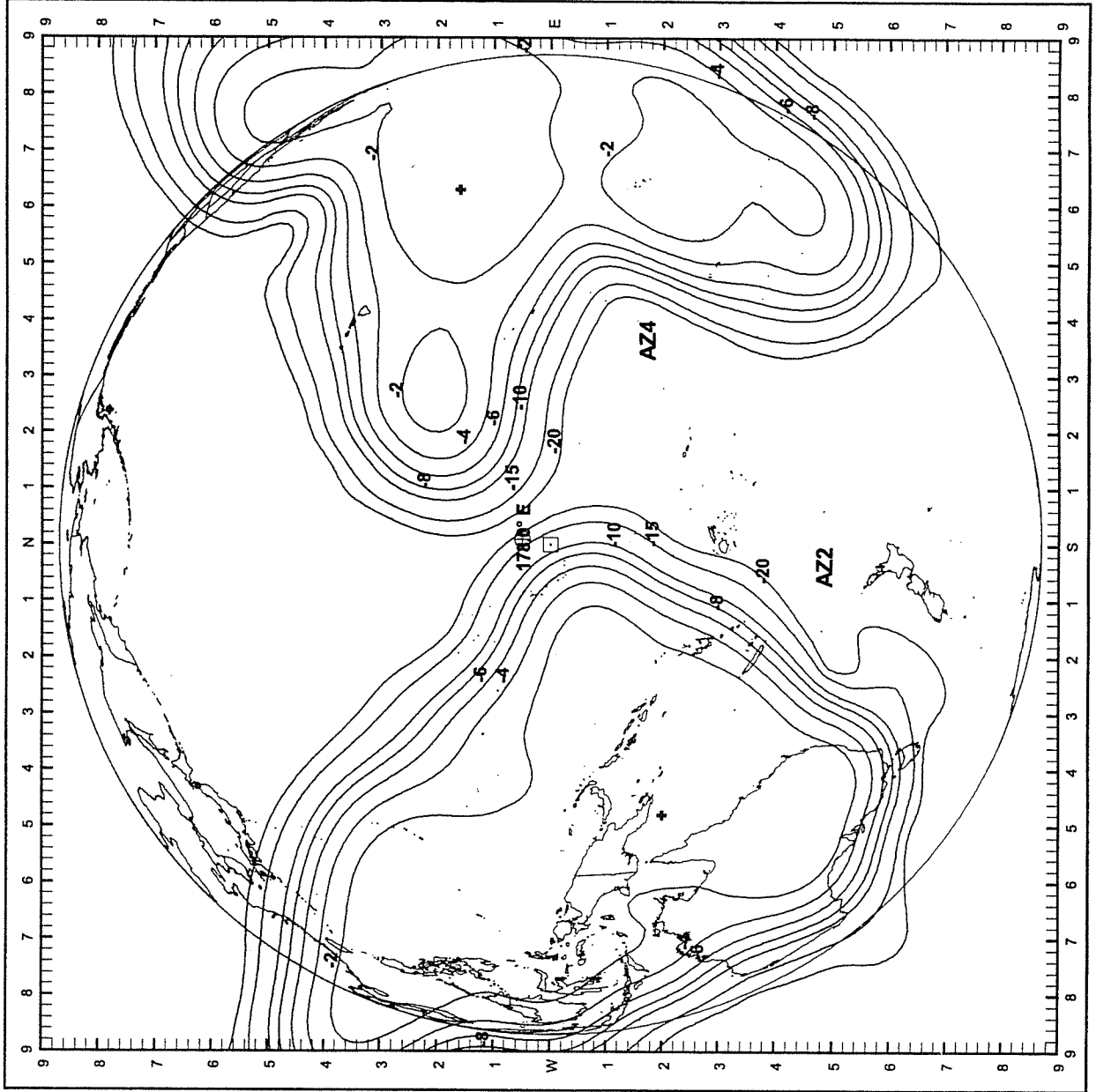
Beam Peak EIRP  
AZ4 : 36.1 dBW  
AZ2 : 35.6 dBW

Contour Levels  
AZ4 : -2, -4, -6, -8, -10, -15,  
-20 dB  
AZ2 : -2, -4, -6, -8, -10, -15,  
-20 dB

Beam Frequencies  
AZ4 : 3905  
AZ2 : 3905

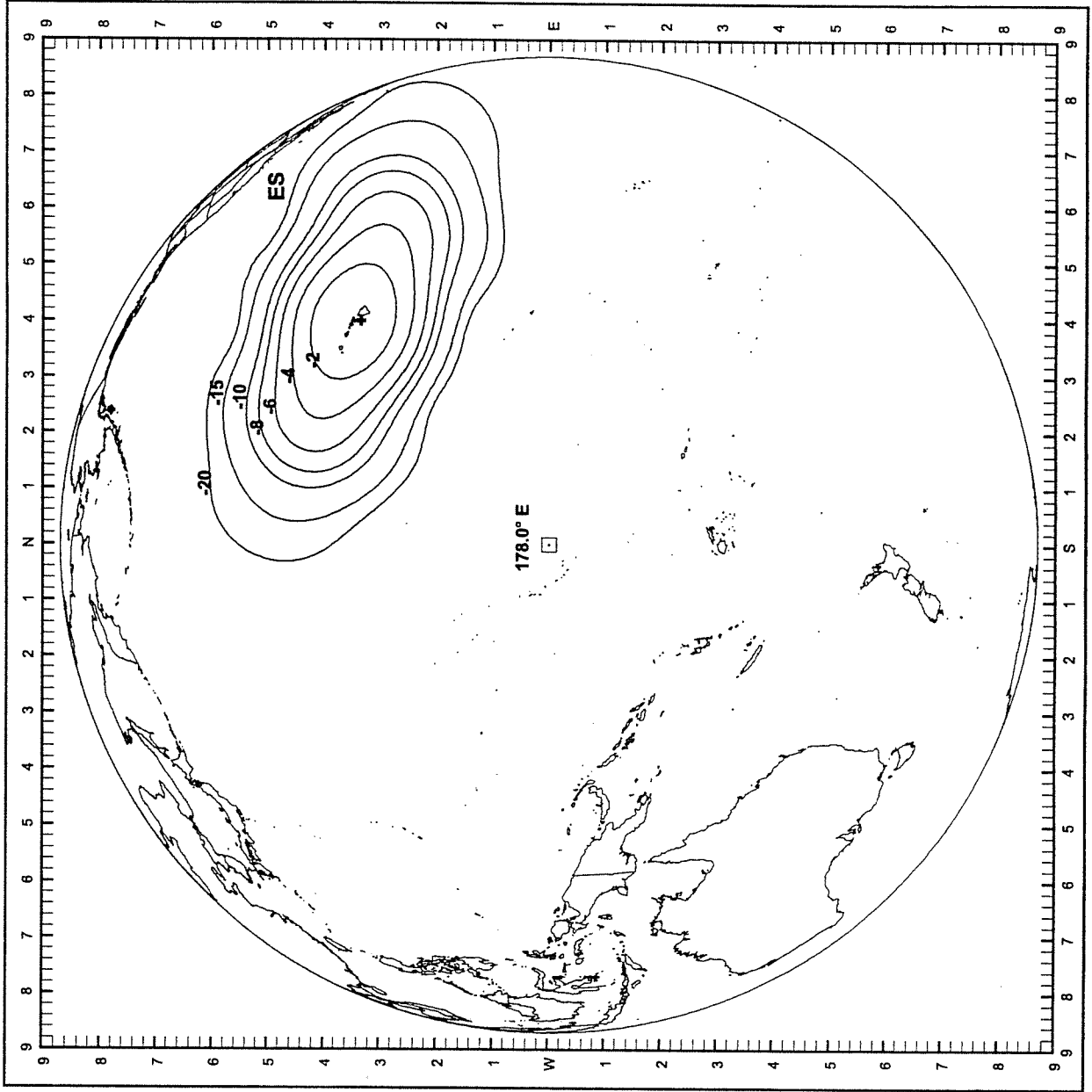
Polarization  
AZ4 : Circular LHCP  
AZ2 : Circular LHCP

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



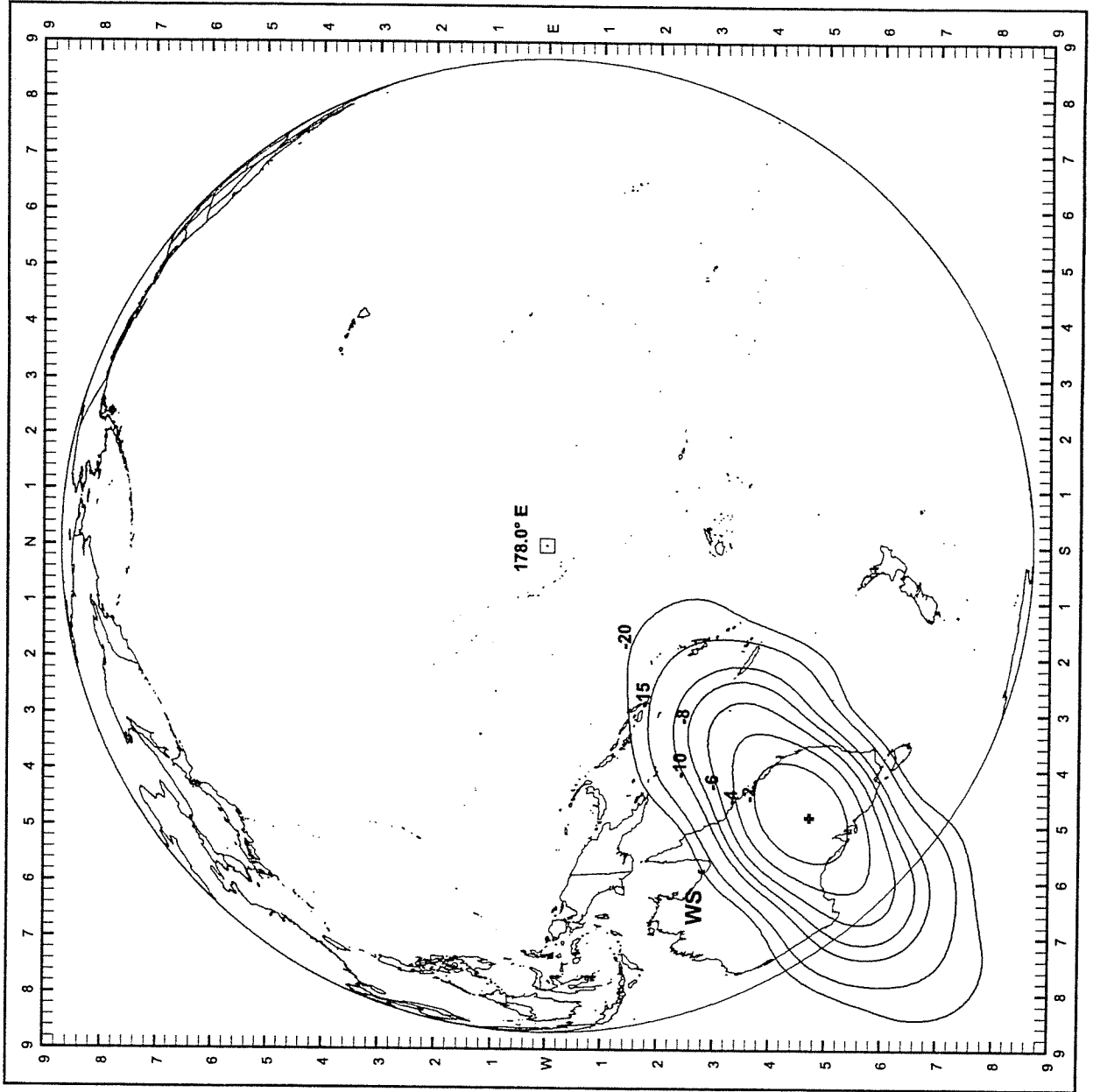


INTELSAT 603 at 178.00°E Antenna Coverage  
S/C Platform Bias (Tx) : 0.10°E 0.50°N  
S/C Platform Bias (Rx) : 0.10°E 0.50°N  
YAW : 0.00°  
Antenna Pointing  
ES : 3.97°E 3.49°N  
Peak Gain (Downlink Co-pol) (See +)  
ES : 37.0 dBi  
Beam Peak EIRP  
ES : 48.7 dBW  
Contour Levels  
ES : -2, -4, -6, -8, -10, -15, -20 dB  
Beam Frequencies : 11155  
Polarization : Linear Vertical  
ES  
Square : Sub-Satellite Point





INTELSAT 603 at 178.00°E Antenna Coverage  
S/C Platform Bias (Tx) : 0.10°E 0.50°N  
S/C Platform Bias (Rx) : 0.10°E 0.50°N  
YAW : 0.00°  
Antenna Pointing  
WS : 4.75°W 4.56°S  
Peak Gain (Downlink Co-pol) (See +)  
WS : 37.5 dBI  
Beam Peak EIRP  
WS : 49.2 dBW  
Contour Levels  
WS : -2, -4, -6, -8, -10, -15, -20 dB  
Beam Frequencies  
WS : 11155  
Polarization  
WS : Linear Horizontal  
Square : Sub-Satellite Point





INTELSAT 603 at 178.00°E Antenna Coverage  
S/C Platform Bias (Tx) : 0.10°E 0.50°N  
S/C Platform Bias (Rx) : 0.10°E 0.50°N  
YAW : 0.00°  
Antenna Pointing  
GA : 0.00°E 0.00°N

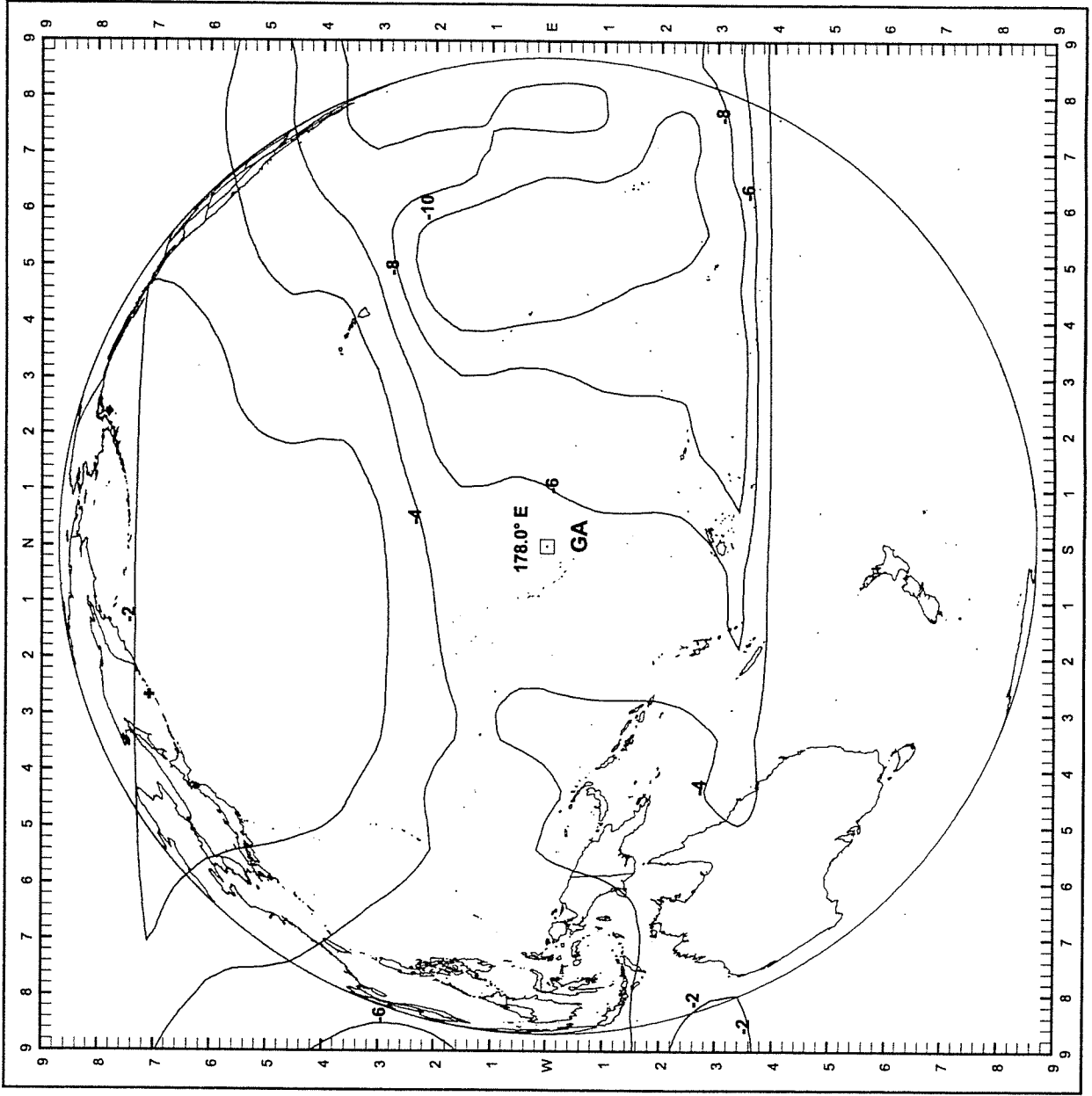
Peak Gain (Downlink X-pol) (See +)  
GA : -11.3 dBi

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

Beam Frequencies : 4177  
GA

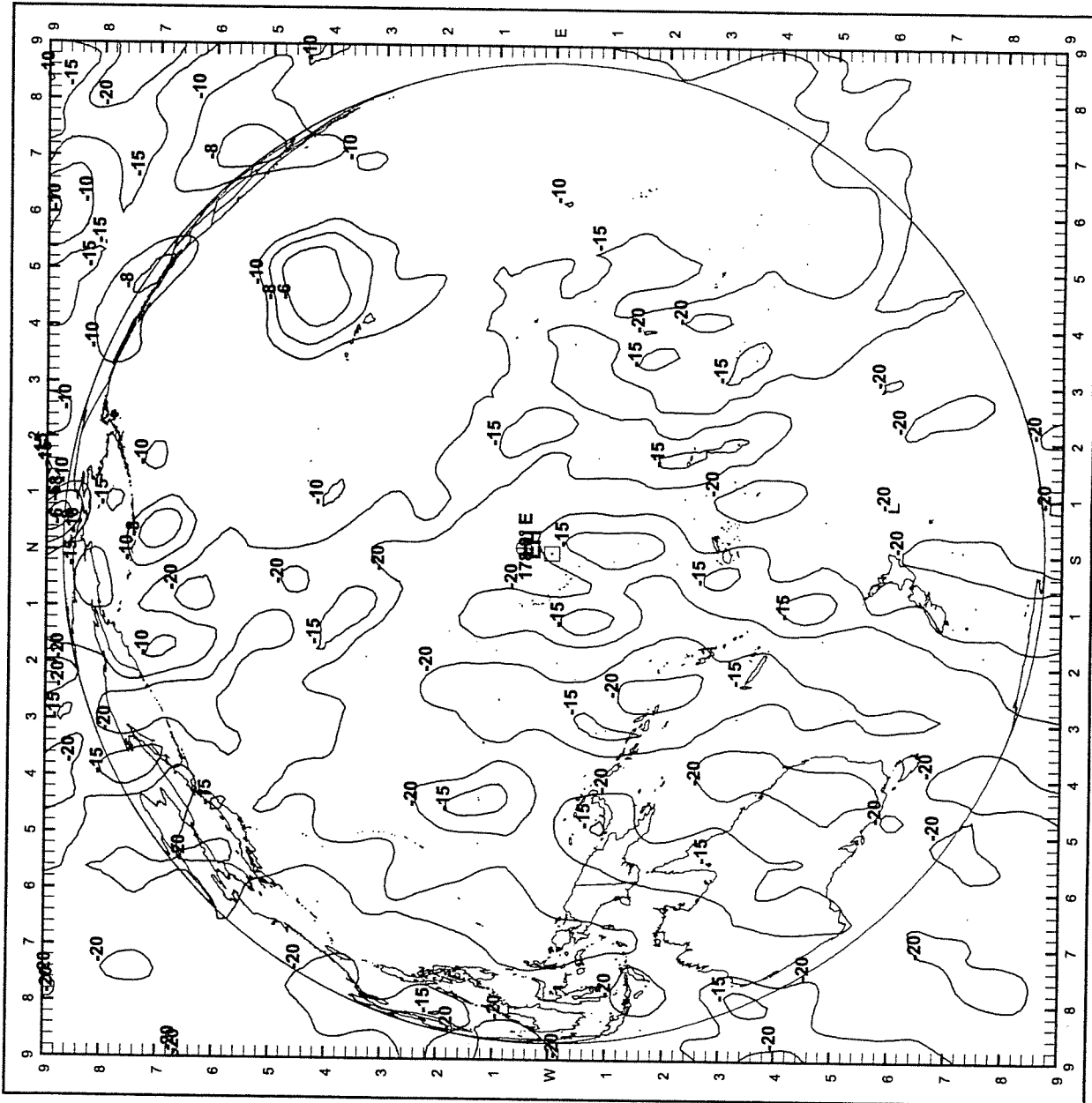
Polarization : Circular LHCP  
GA

Square : Sub-Satellite Point



# Intelsat

INTELSAT 603 at 178.00°E Antenna Coverage  
 S/C Platform Bias (Tx) : 0.10°E 0.50°N  
 S/C Platform Bias (Rx) : 0.10°E 0.50°N  
 YAW : 0.00°  
 Peak Gain (Downlink X-pol) (See +)  
 EH : 0.7 dBi  
 Contour Levels : -2, -4, -6, -8, -10, -15, -20 dB  
 Beam Frequencies : 3905  
 Polarization : Circular LHCP  
 Square : Sub-Satellite Point  
 Circle : Sat.Ant.Platform Bias



View : Orthographic 178.0° E  
 Status : INTELSAT APPROVED

Plot Date: 11 April 2002  
 acp2devproj61.apr



INTELSAT 603 at 178.00°E Antenna Coverage  
S/C Platform Bias (Tx) : 0.10°E 0.50°N  
S/C Platform Bias (Rx) : 0.10°E 0.50°N  
YAW : 0.00°

Peak Gain (Downlink X-pol) (See +)  
WH : -0.6 dBi

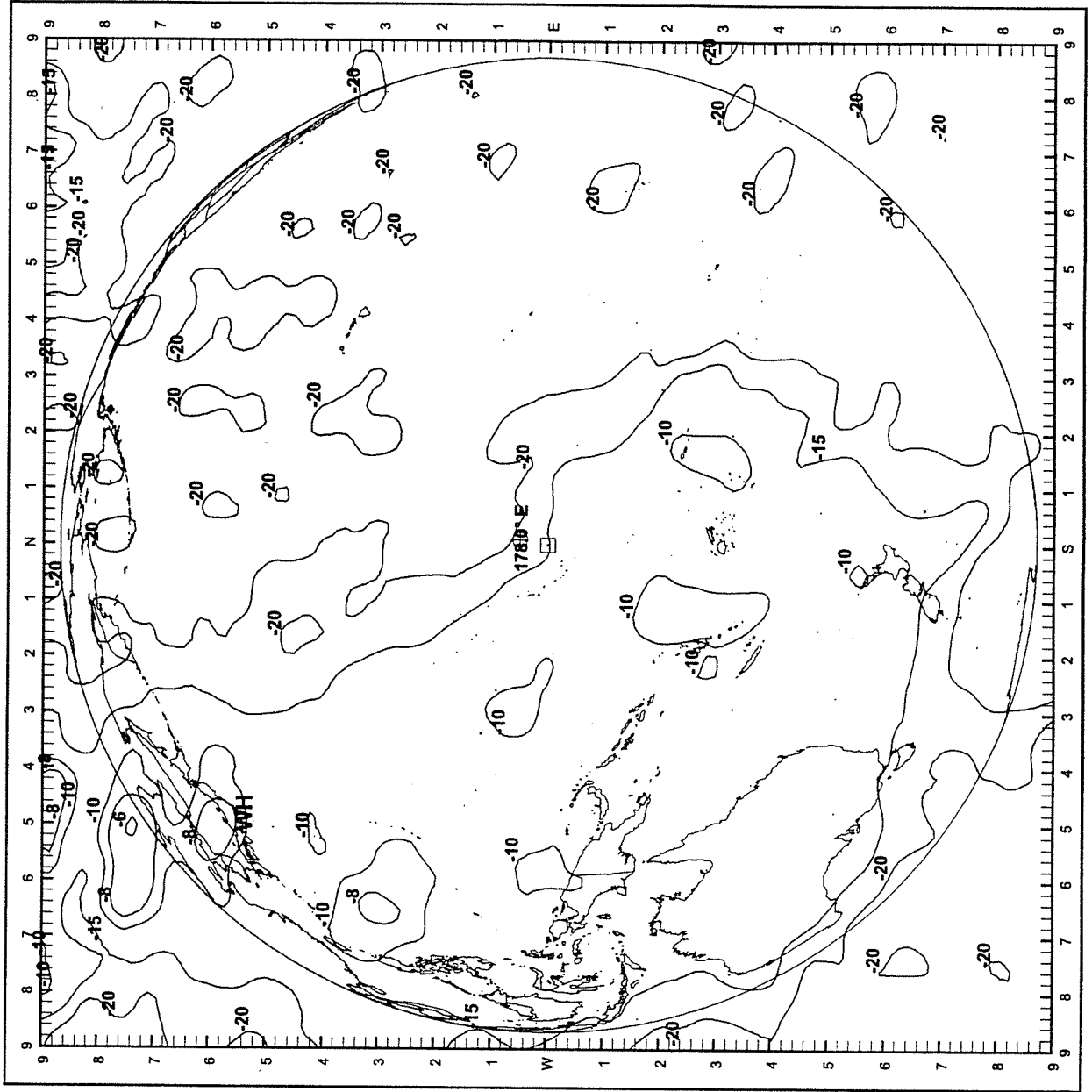
Contour Levels  
WH : -2, -4, -6, -8, -10, -15,  
-20 dB

Beam Frequencies  
WH : 3905

Polarization  
WH : Circular LHCP

Square : Sub-Satellite Point

Circle : Sat.Ant.Platform Bias





INTELSAT 603 at 178.00°E Antenna Coverage  
S/C Platform Bias (Tx) : 0.10°E 0.50°N  
S/C Platform Bias (Rx) : 0.10°E 0.50°N  
YAW : 0.00°

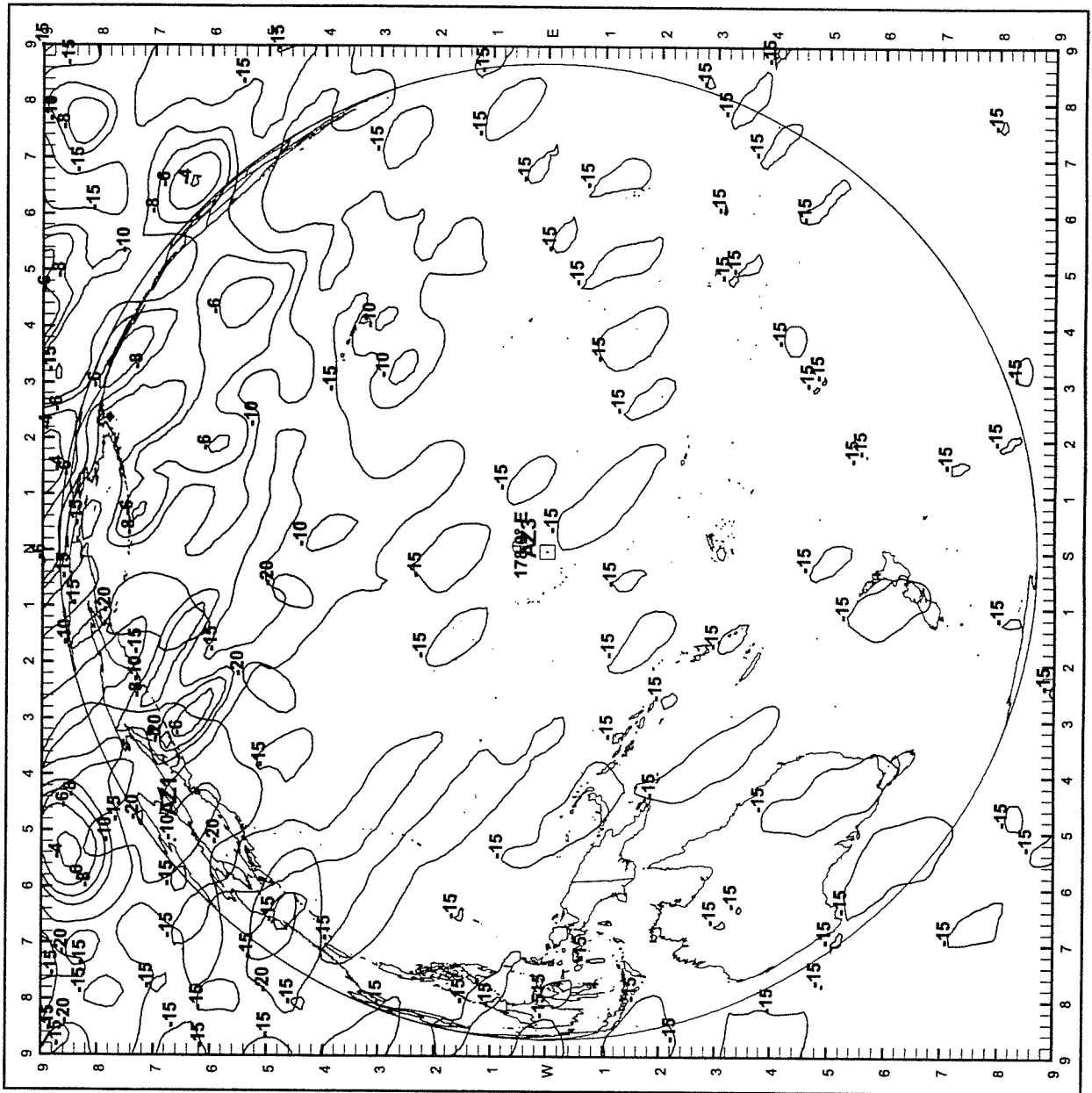
Peak Gain (Downlink X-pol) (See +)  
AZ3 : 1.2 dBi  
AZ1 : 10.8 dBi

Contour Levels  
AZ3 : -2, -4, -6, -8, -10, -15, -20 dB  
AZ1 : -2, -4, -6, -8, -10, -15, -20 dB

Beam Frequencies  
AZ3 : 3905  
AZ1 : 3905

Polarization  
AZ3 : Circular RHCP  
AZ1 : Circular RHCP

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







INTELSAT 603 at 178.00°E Antenna Coverage  
S/C Platform Bias (Tx) : 0.10°E 0.50°N  
S/C Platform Bias (Rx) : 0.10°E 0.50°N  
YAW : 0.00°

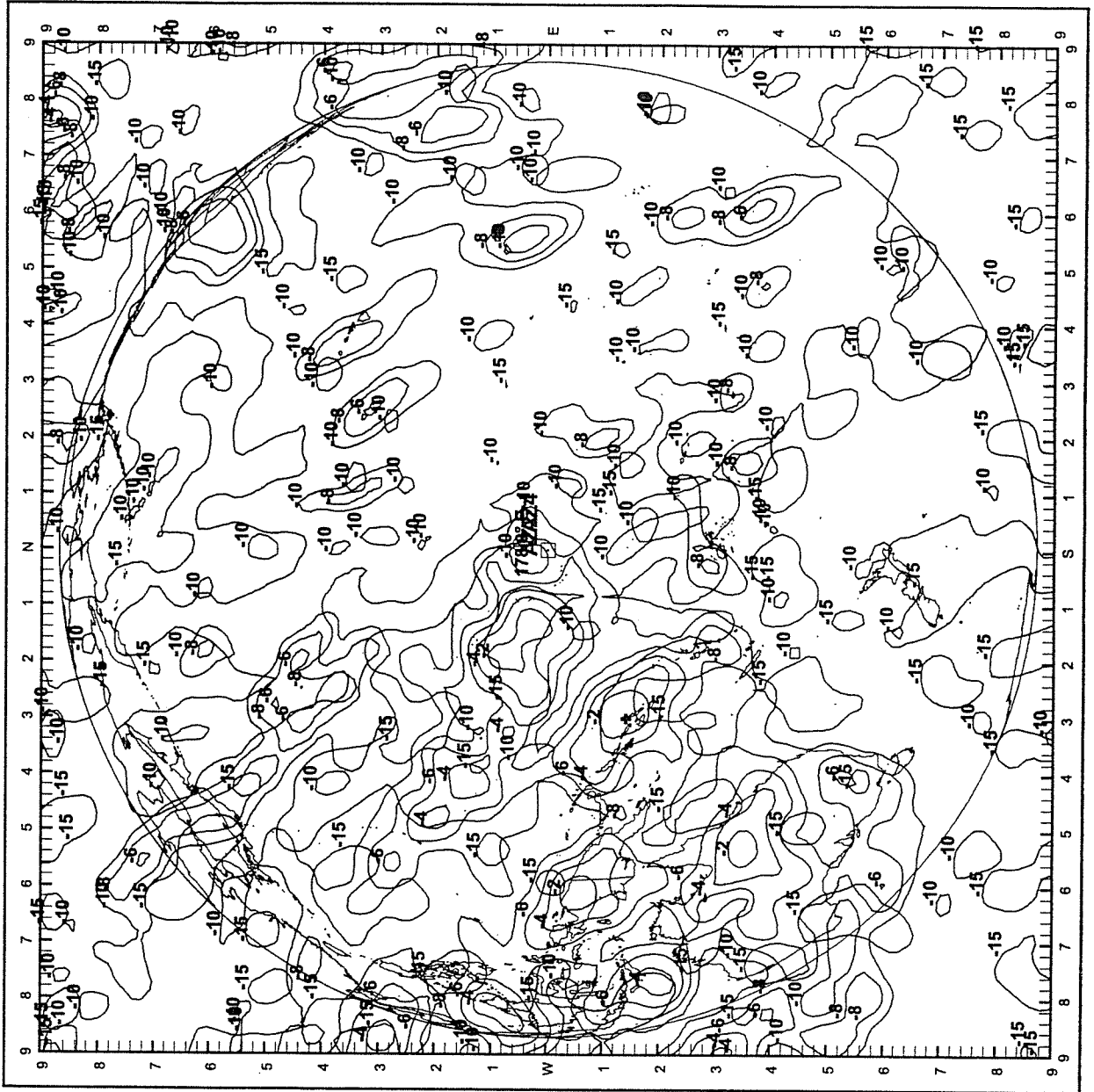
Peak Gain (Downlink X-pol) (See +)  
AZ4 : -4.9 dBi  
AZ2 : -8.9 dBi

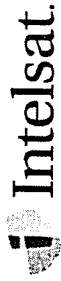
Contour Levels  
AZ4 : -2, -4, -6, -8, -10, -15, -20 dB  
AZ2 : -2, -4, -6, -8, -10, -15, -20 dB

Beam Frequencies  
AZ4 : 3905  
AZ2 : 3905

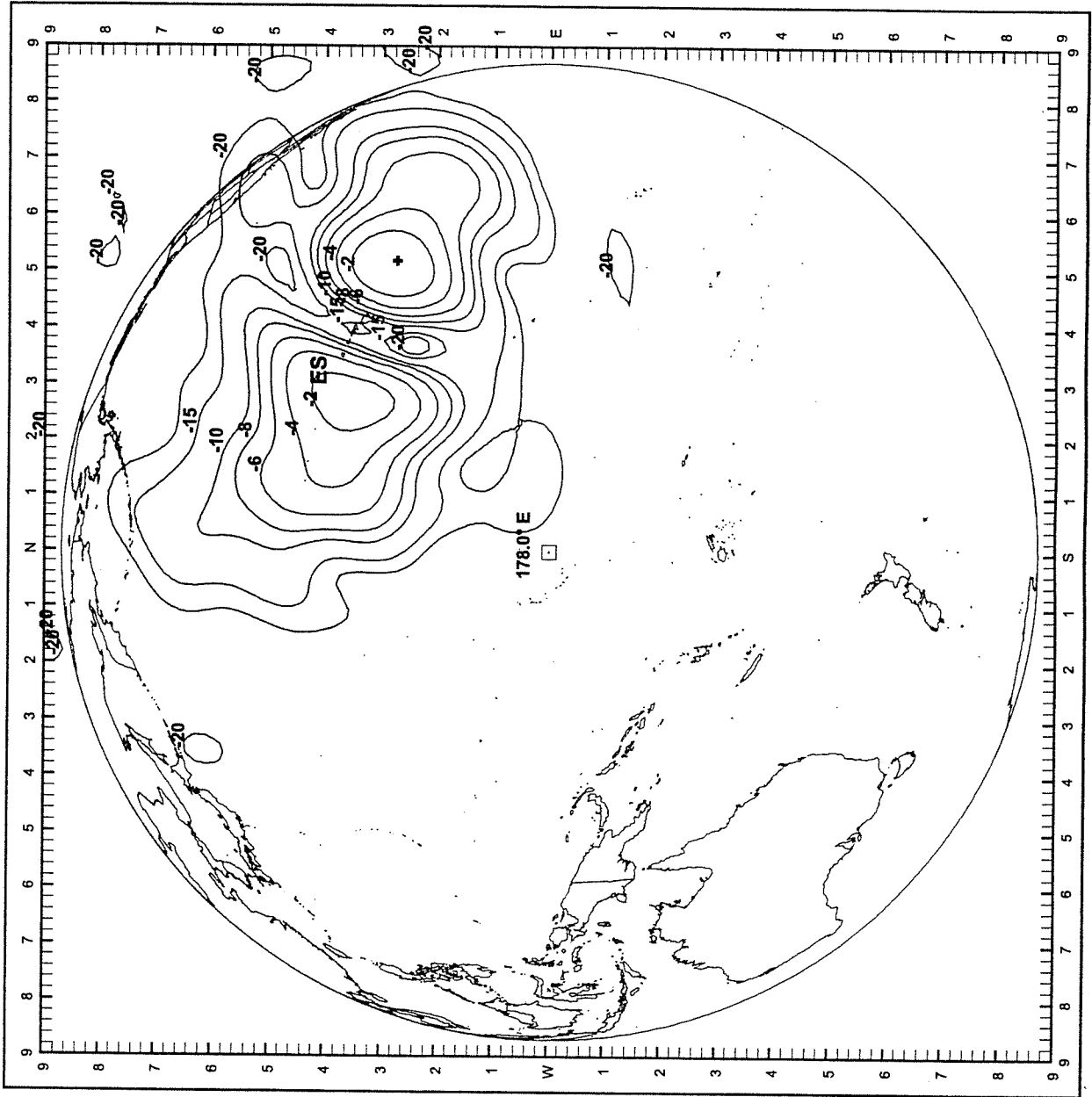
Polarization  
AZ4 : Circular RHCP  
AZ2 : Circular RHCP

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



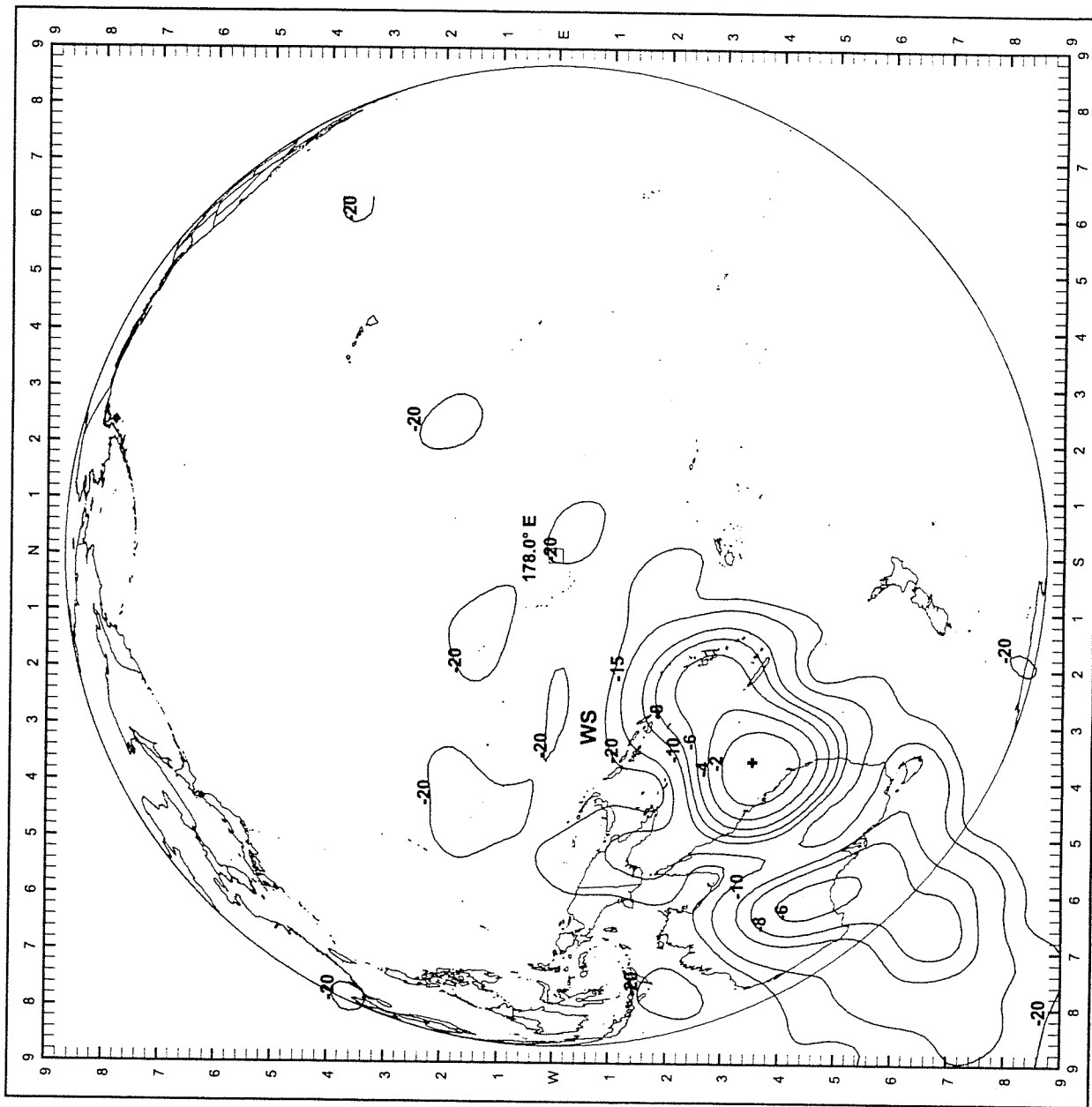


INTELSAT 603 at 178.00°E Antenna Coverage  
S/C Platform Bias (Tx) : 0.10°E 0.50°N  
S/C Platform Bias (Rx) : 0.10°E 0.50°N  
YAW : 0.00°  
Antenna Pointing : 3.97°E 3.49°N  
ES  
Peak Gain (Downlink X-pol) (See +)  
ES : 8.4 dBi  
Contour Levels : -2, -4, -6, -8, -10, -15, -20 dB  
ES  
Beam Frequencies : 11155  
ES  
Polarization : Linear Horizontal  
ES  
Square : Sub-Satellite Point



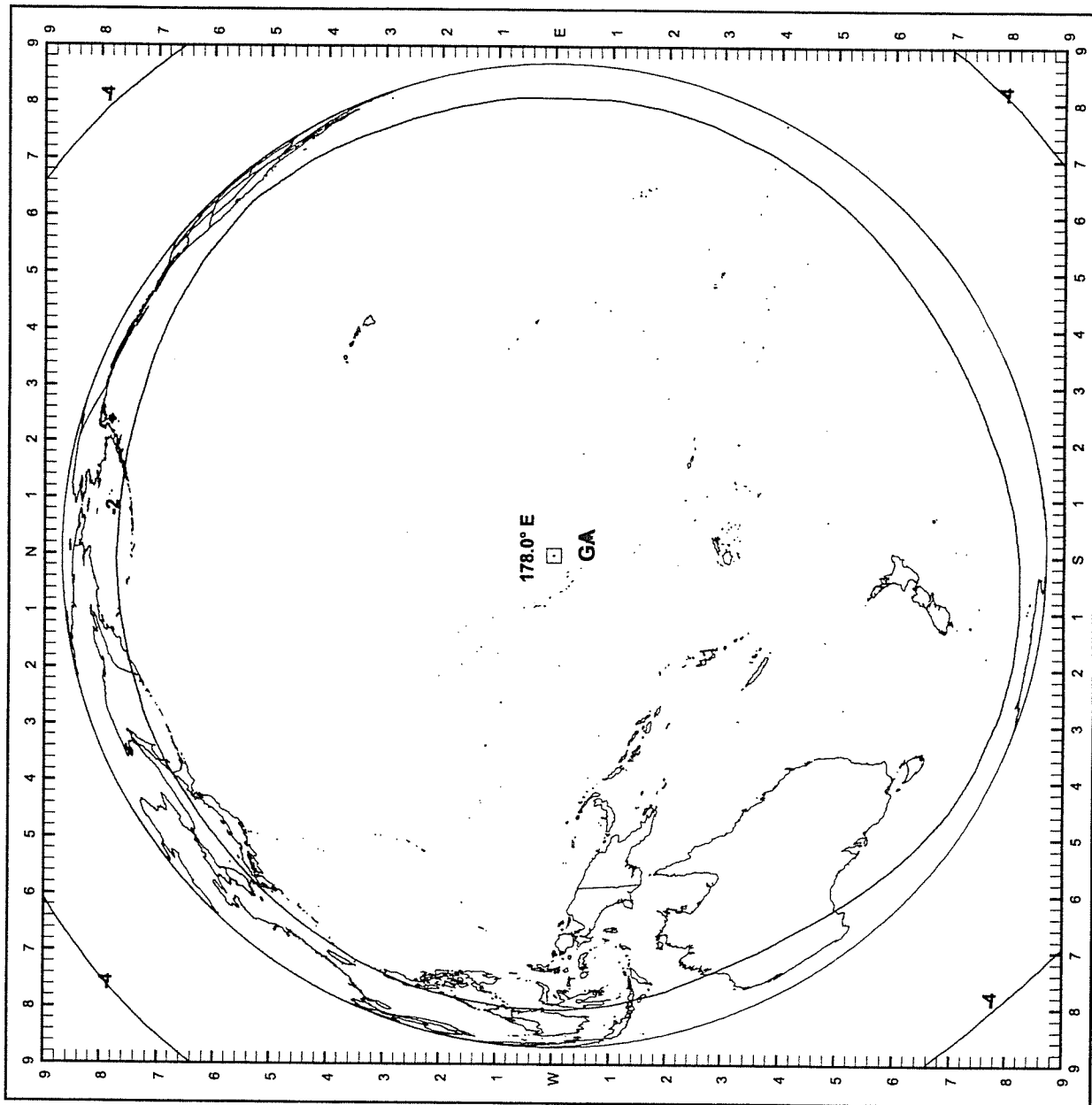
# Intelsat.

INTELSAT 603 at 178.00°E Antenna Coverage  
 S/C Platform Bias (TX) : 0.10°E 0.50°N  
 S/C Platform Bias (RX) : 0.10°E 0.50°N  
 YAW : 0.00°  
 Antenna Pointing WS : 4.75°W 4.56°S  
 Peak Gain (Downlink X-pol) (See +)  
 WS : 10.4 dBi  
 Contour Levels WS : -2, -4, -6, -8, -10, -15, -20 dB  
 Beam Frequencies WS : 11155  
 Polarization WS : Linear Vertical  
 Square : Sub-Satellite Point





INTELSAT 603 at 178.00°E Antenna Coverage  
S/C Platform Bias (Tx) : 0.10°E 0.50°N  
S/C Platform Bias (Rx) : 0.10°E 0.50°N  
YAW : 0.00°  
Antenna Pointing  
GA : 0.00°E 0.00°N  
Peak Gain (Uplink Co-pol) (See +)  
GA : 19.4 dBi  
Beam Peak G/T  
GA : -8.6 dB/K  
Contour Levels  
GA : -2, -4, -6, -8, -10, -15, -20 dB  
Beam Frequencies  
GA : 6402.5  
Polarization  
GA : Circular LHCP  
Square : Sub-Satellite Point





INTELSAT 603 at 178.00°E Antenna Coverage  
 S/C Platform Bias (Tx) : 0.10°E 0.50°N  
 S/C Platform Bias (Rx) : 0.10°E 0.50°N  
 YAW : 0.00°

Peak Gain (Uplink Co-pol) (See +)  
 EH : 24.3 dBi

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

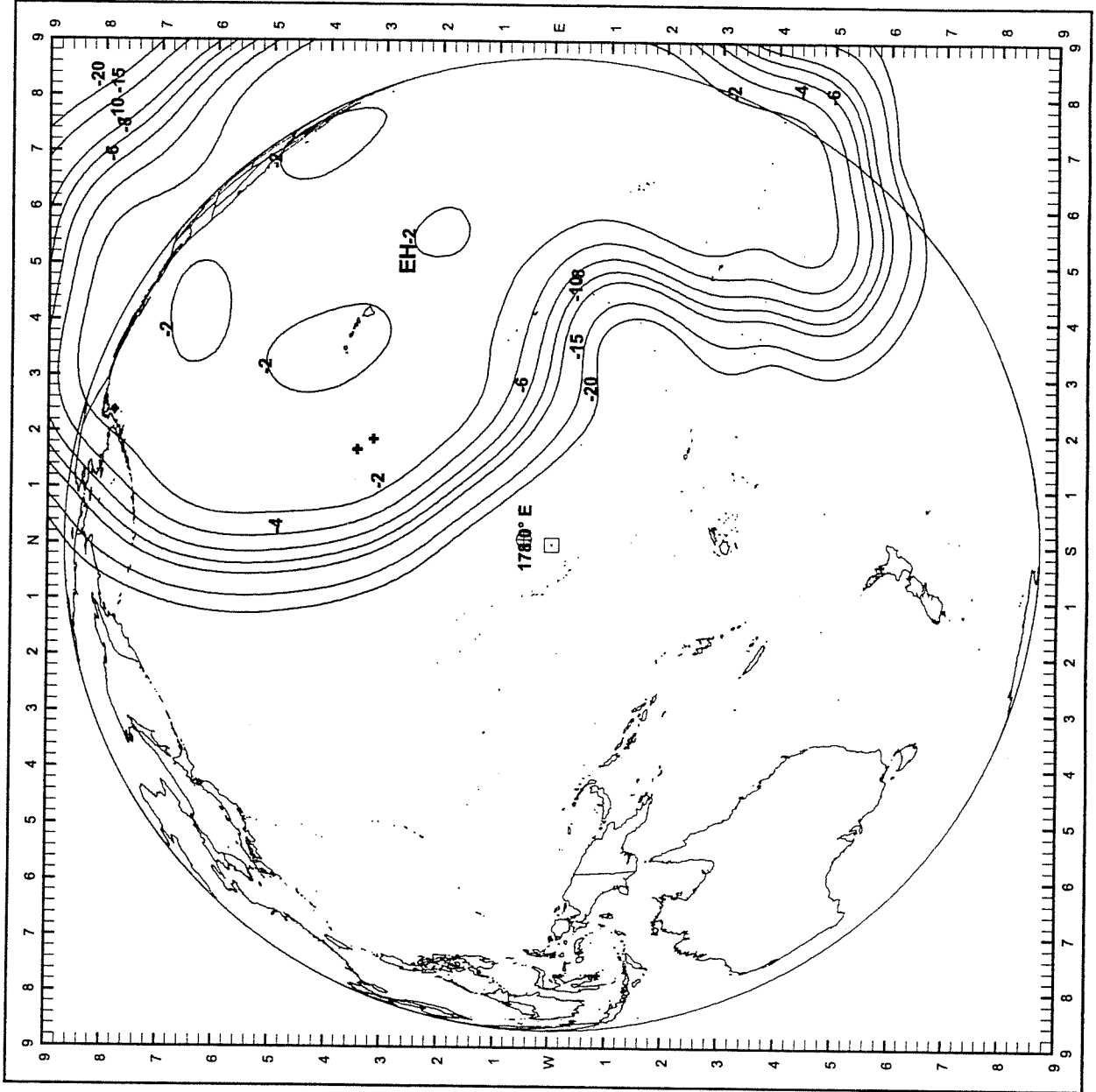
Contour Levels  
 EH : -2, -4, -6, -8, -10, -15, -20 dB

Beam Frequencies  
 EH : 6130

Polarization  
 EH : Circular LHCP

Square : Sub-Satellite Point

Circle : Sat.Ant.Platform Bias



# Intelsat.

INTELSAT 603 at 178.00°E Antenna Coverage  
 S/C Platform Bias (Tx) : 0.10°E 0.50°N  
 S/C Platform Bias (Rx) : 0.10°E 0.50°N  
 YAW : 0.00°

Peak Gain (Uplink Co-pol) (See +)  
 WH : 23.6 dBi

Beam Peak G/T  
 WH : -4.5 dB/K

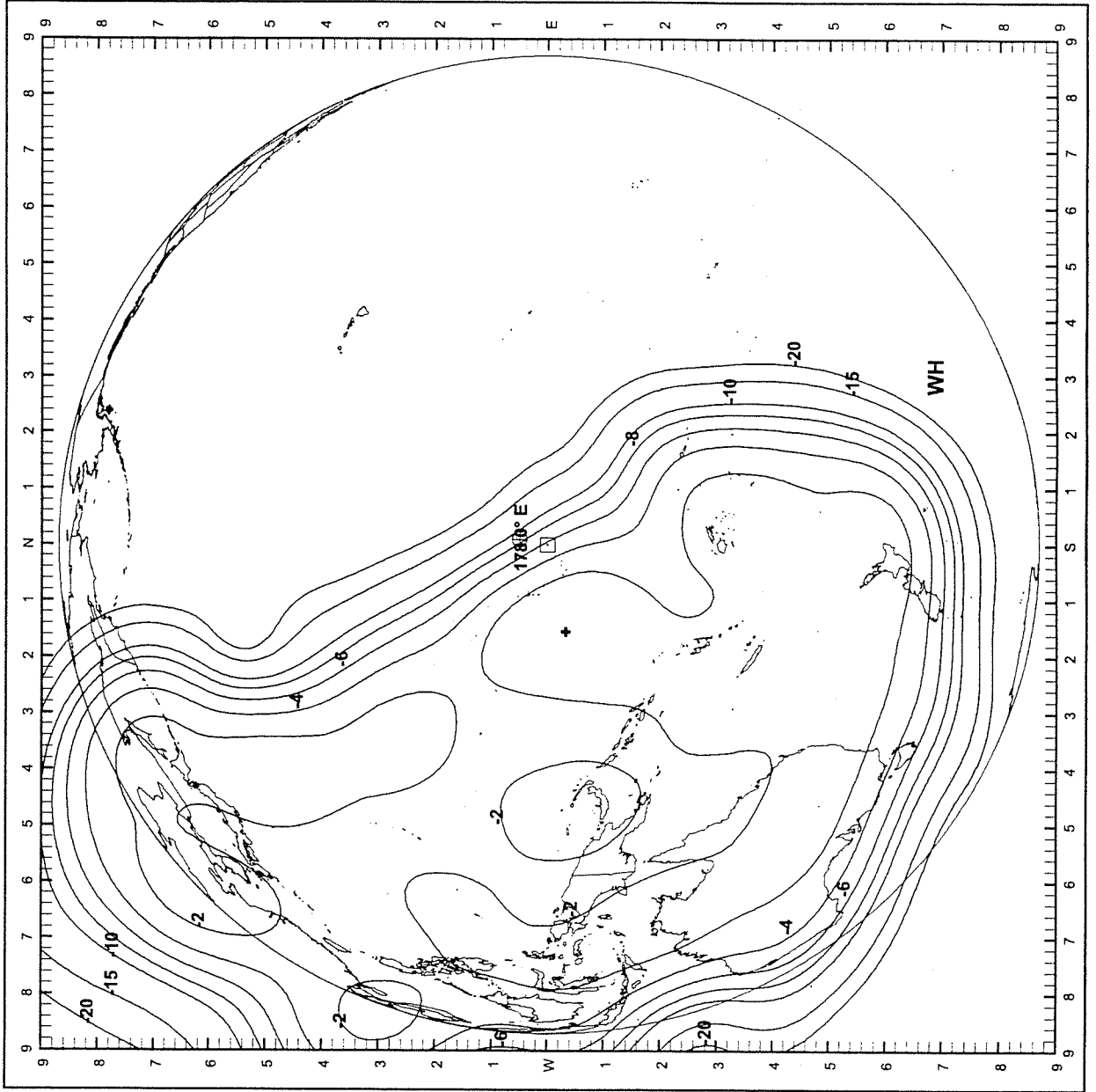
Contour Levels  
 WH : -2, -4, -6, -8, -10, -15, -20 dB

Beam Frequencies  
 WH : 6130

Polarization  
 WH : Circular LHCP

Square : Sub-Satellite Point

Circle : Sat. Ant. Platform Bias



# Intelsat.

INTELSAT 603 at 178.00°E Antenna Coverage  
 S/C Platform Bias (Tx) : 0.10°E 0.50°N  
 S/C Platform Bias (Rx) : 0.10°E 0.50°N  
 YAW : 0.00°

Peak Gain (Uplink Co-pol) (See +)  
 AZ3 : 31.1 dBi  
 AZ1 : 32.6 dBi

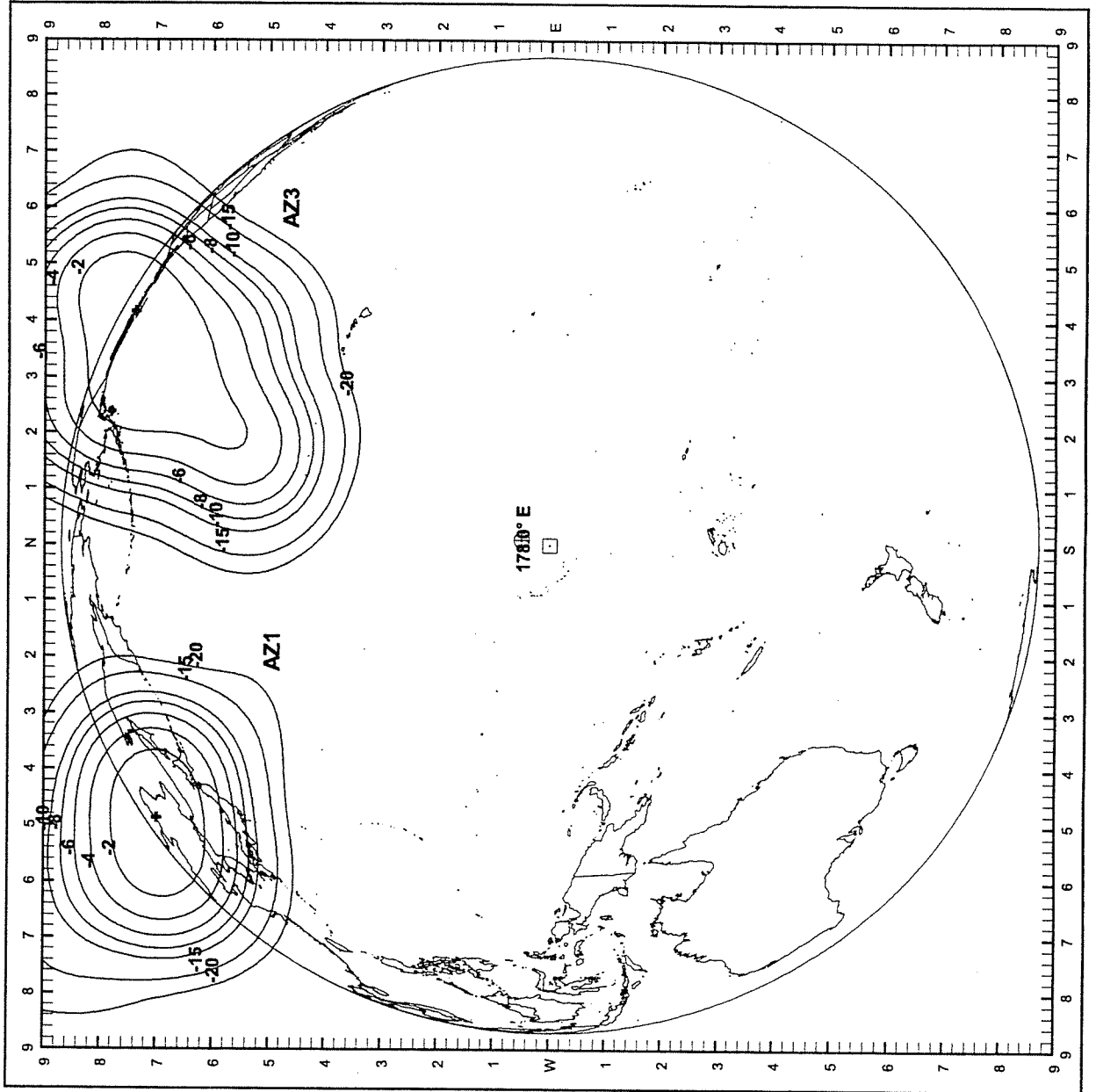
Beam Peak G/T  
 AZ3 : 3.0 dB/K  
 AZ1 : 4.1 dB/K

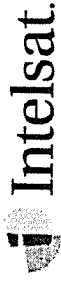
Contour Levels  
 AZ3 : -2, -4, -6, -8, -10, -15,  
 -20 dB  
 AZ1 : -2, -4, -6, -8, -10, -15,  
 -20 dB

Beam Frequencies  
 AZ3 : 6130  
 AZ1 : 6130

Polarization  
 AZ3 : Circular RHCP  
 AZ1 : Circular RHCP

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





INTELSAT 603 at 178.00°E Antenna Coverage  
 S/C Platform Bias (Tx) : 0.10°E 0.50°N  
 S/C Platform Bias (Rx) : 0.10°E 0.50°N  
 YAW : 0.00°

Peak Gain (Uplink Co-pol) (See +)  
 AZ4 : 25.7 dBi  
 AZ2 : 25.7 dBi

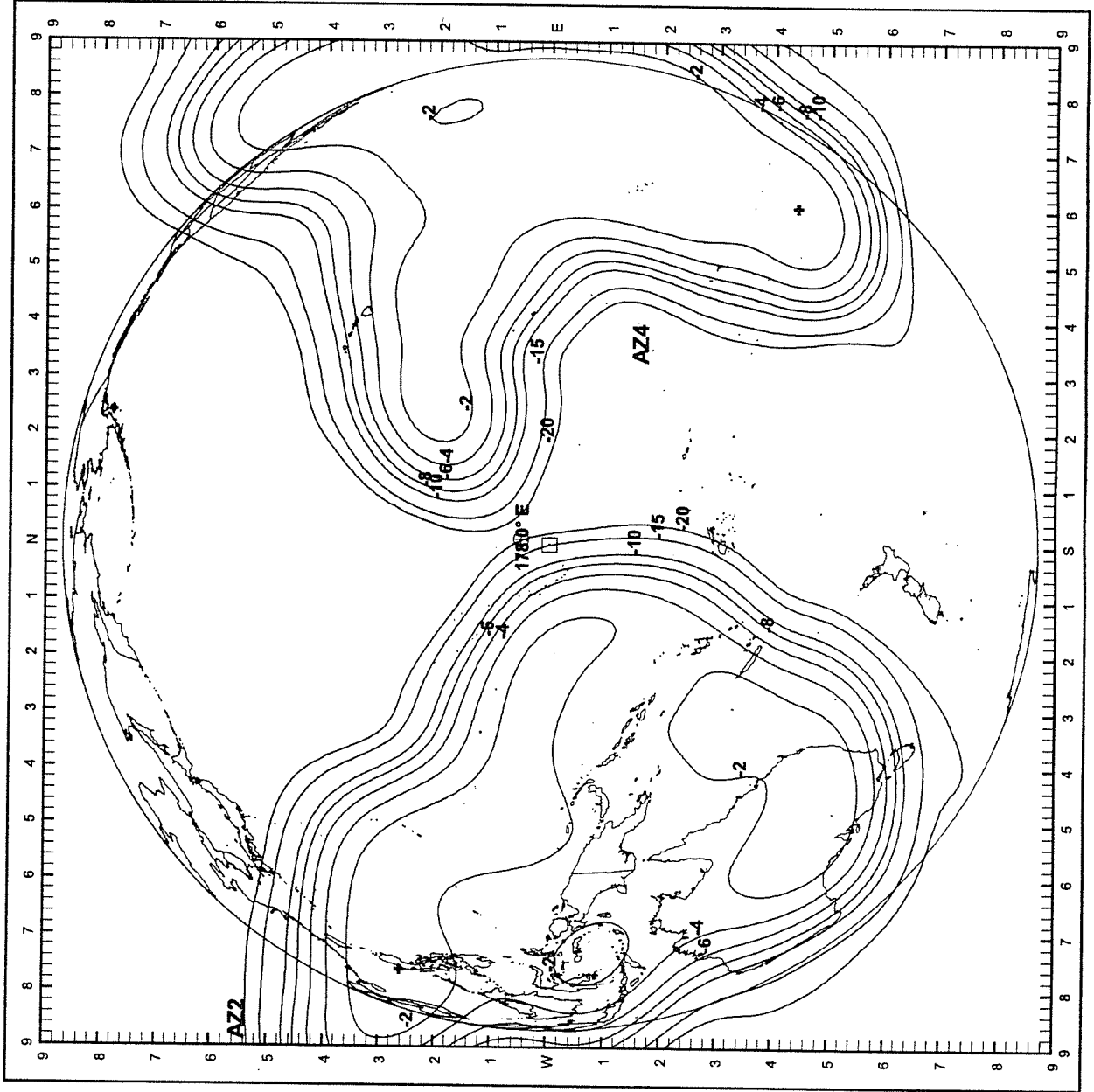
Beam Peak G/T  
 AZ4 : -2.0 dB/K  
 AZ2 : -2.4 dB/K

Contour Levels  
 AZ4 : -2, -4, -6, -8, -10, -15, -20 dB  
 AZ2 : -2, -4, -6, -8, -10, -15, -20 dB

Beam Frequencies  
 AZ4 : 6130  
 AZ2 : 6130

Polarization  
 AZ4 : Circular RHCP  
 AZ2 : Circular RHCP

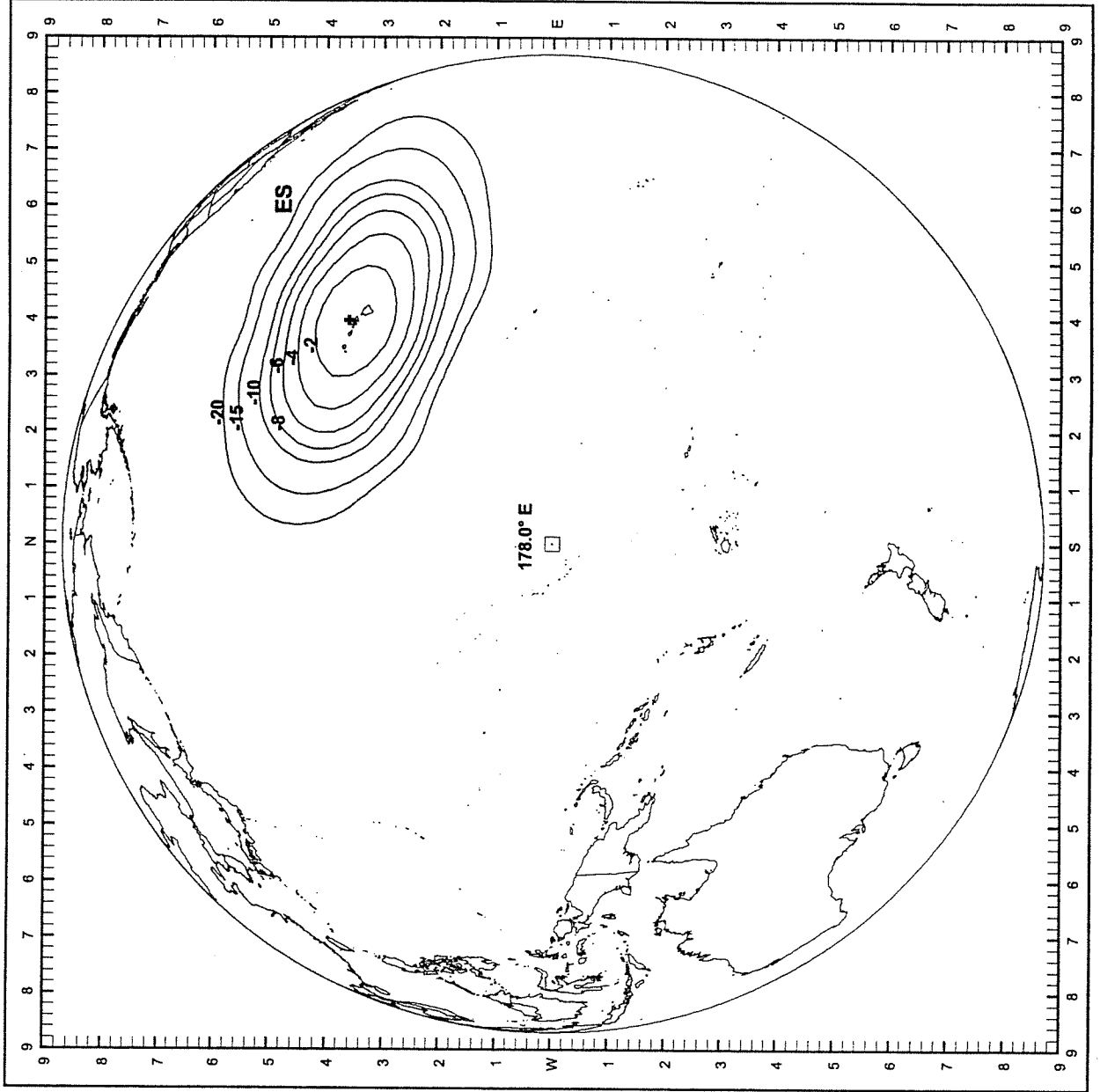
Square : Sub-Satellite Point  
 Circle : Sat.Ant.Platform Bias

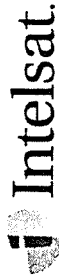






INTELSAT 603 at 178.00°E Antenna Coverage  
S/C Platform Bias (Tx) : 0.10°E 0.50°N  
S/C Platform Bias (Rx) : 0.10°E 0.50°N  
YAW : 0.00°  
Antenna Pointing  
ES : 3.97°E 3.49°N  
Peak Gain (Uplink Co-pol) (See +)  
ES : 37.9 dBi  
Beam Peak G/T  
ES : 7.9 dB/K  
Contour Levels  
ES : -2, -4, -6, -8, -10, -15, -20 dB  
Beam Frequencies  
ES : 14205  
Polarization  
ES : Linear Horizontal  
Square : Sub-Satellite Point





INTELSAT 603 at 178.00°E Antenna Coverage  
S/C Platform Bias (Tx) : 0.10°E 0.50°N  
S/C Platform Bias (Rx) : 0.10°E 0.50°N  
YAW : 0.00°  
Antenna Pointing  
WS : 4.75°W 4.56°S

Peak Gain (Uplink Co-pol) (See +)  
WS : 37.1 dBi

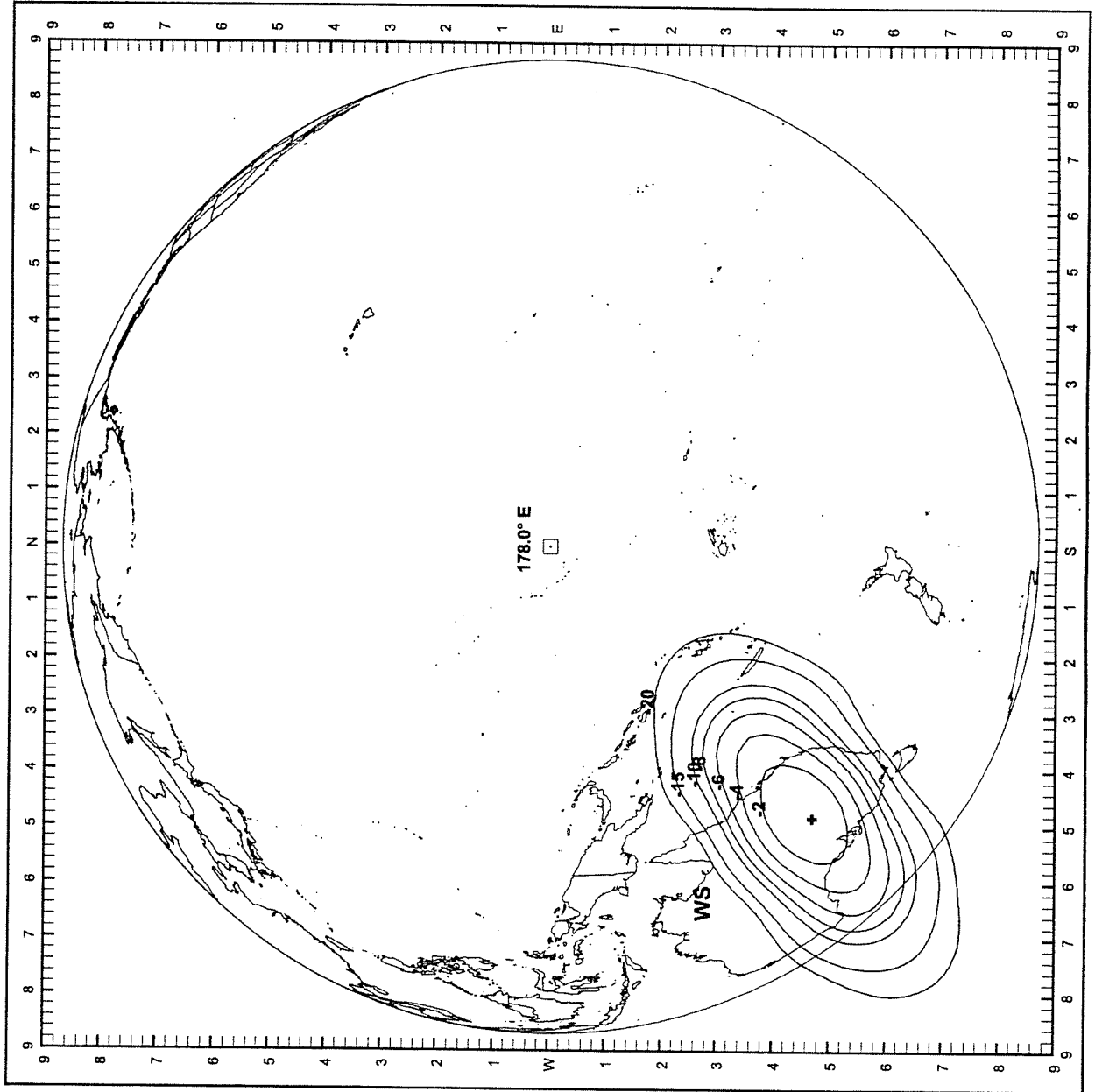
Beam Peak G/T  
WS : 6.9 dB/K

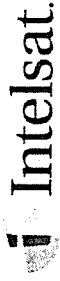
Contour Levels  
WS : -2, -4, -6, -8, -10, -15, -20 dB

Beam Frequencies  
WS : 14205

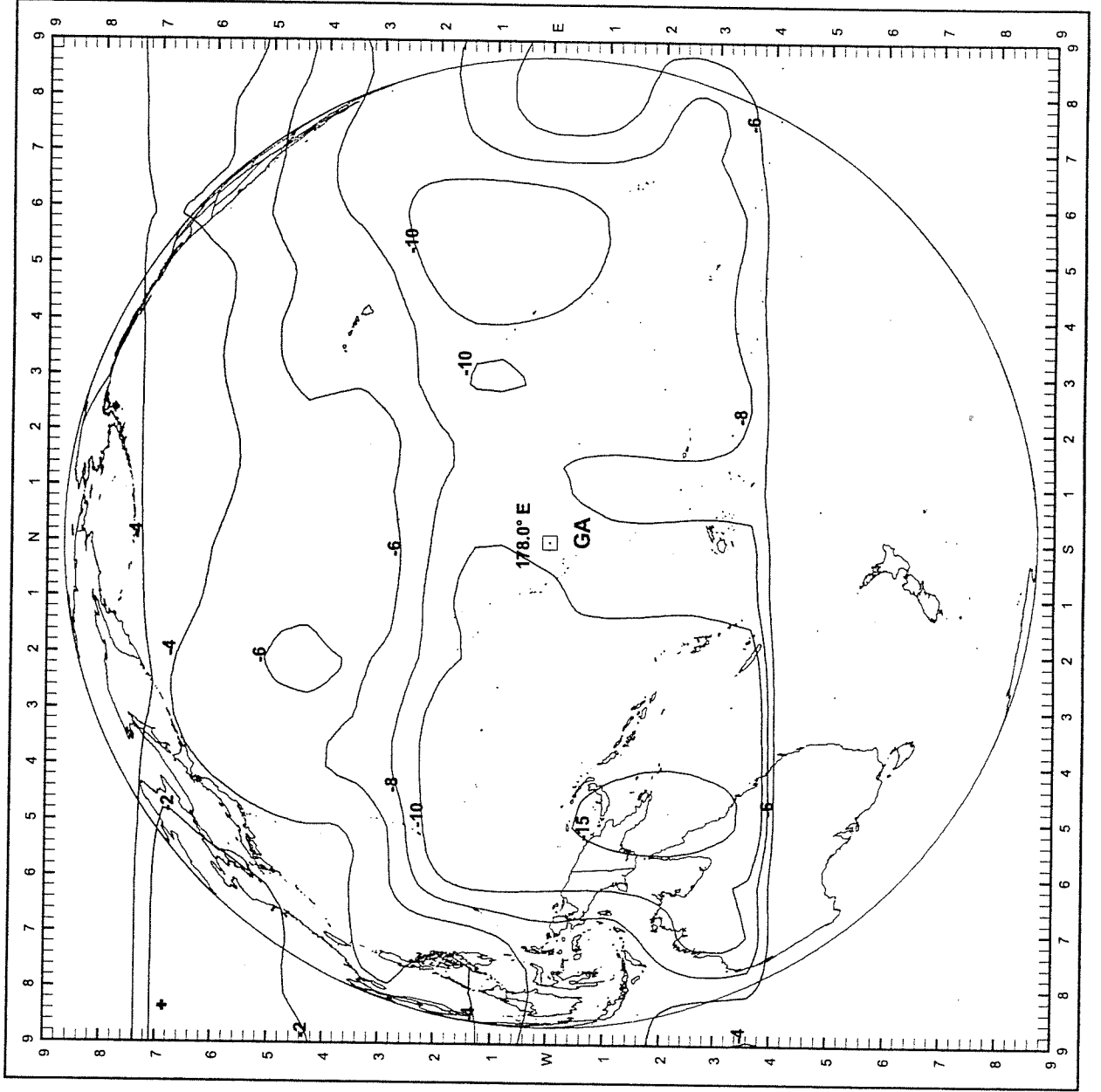
Polarization  
WS : Linear Vertical

Square : Sub-Satellite Point





INTELSAT 603 at 178.00°E Antenna Coverage  
S/C Platform Bias (Tx) : 0.10°E 0.50°N  
S/C Platform Bias (Rx) : 0.10°E 0.50°N  
YAW : 0.00°  
Antenna Pointing  
GA : 0.00°E 0.00°N  
Peak Gain (Uplink X-pol) (See +)  
GA : -10.9 dBi  
Contour Levels  
GA : -2, -4, -6, -8, -10, -15, -20 dB  
Beam Frequencies  
GA : 6402  
Polarization  
GA : Circular RHCP  
Square : Sub-Satellite Point



# Intelsat.

INTELSAT 603 at 178.00°E Antenna Coverage  
 S/C Platform Bias (Tx) : 0.10°E 0.50°N  
 S/C Platform Bias (Rx) : 0.10°E 0.50°N  
 YAW : 0.00°

Peak Gain (Uplink X-pol) (See +)  
 EH : -7.9 dBi

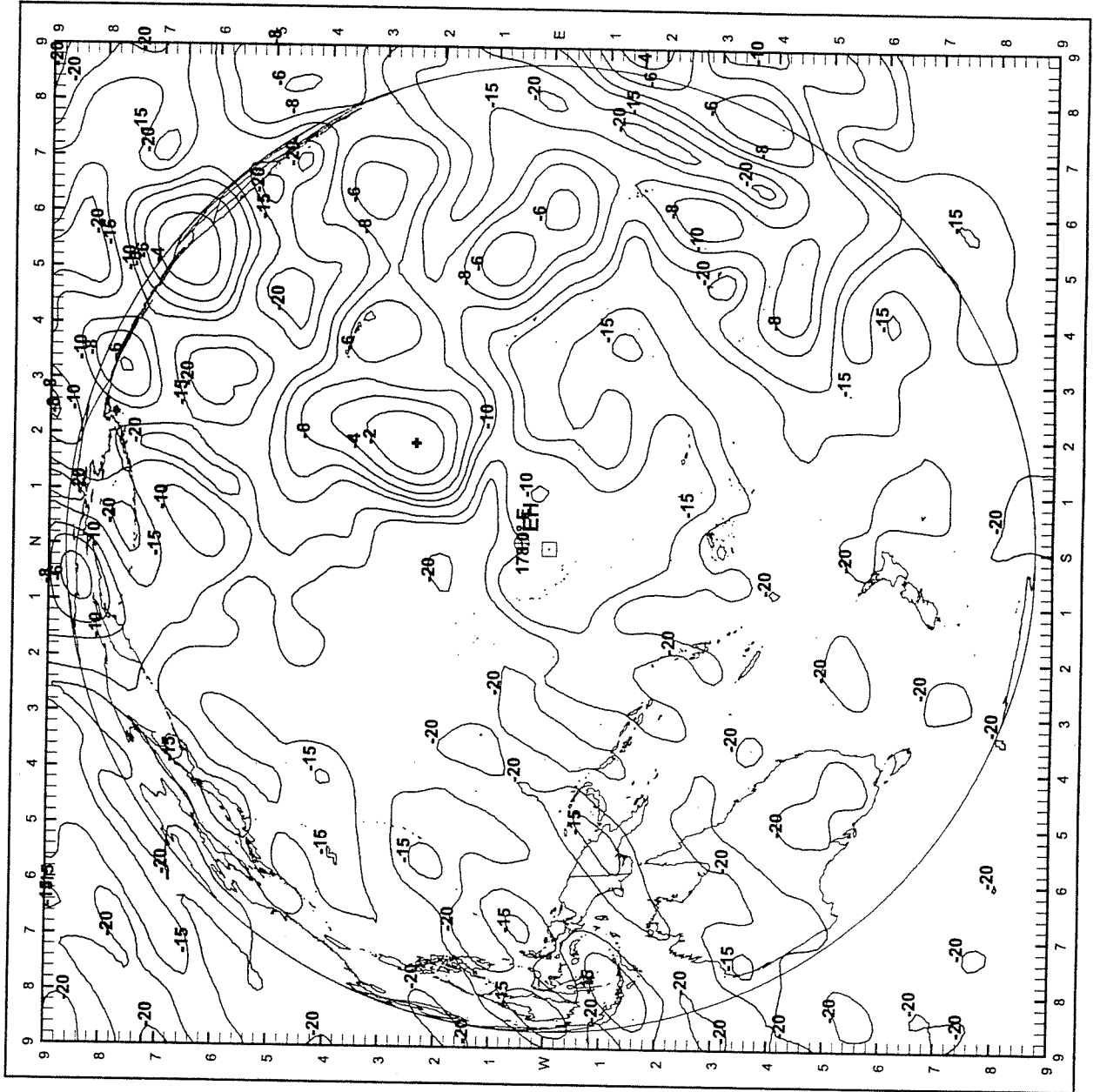
Contour Levels  
 EH : -2, -4, -6, -8, -10, -15, -20 dB

Beam Frequencies  
 EH : 6130

Polarization  
 EH : Circular RHCP

Square : Sub-Satellite Point

Circle : Sat. Ant. Platform Bias





INTELSAT 603 at 178.00°E Antenna Coverage  
S/C Platform Bias (Tx) : 0.10°E 0.50°N  
S/C Platform Bias (Rx) : 0.10°E 0.50°N  
YAW : 0.00°

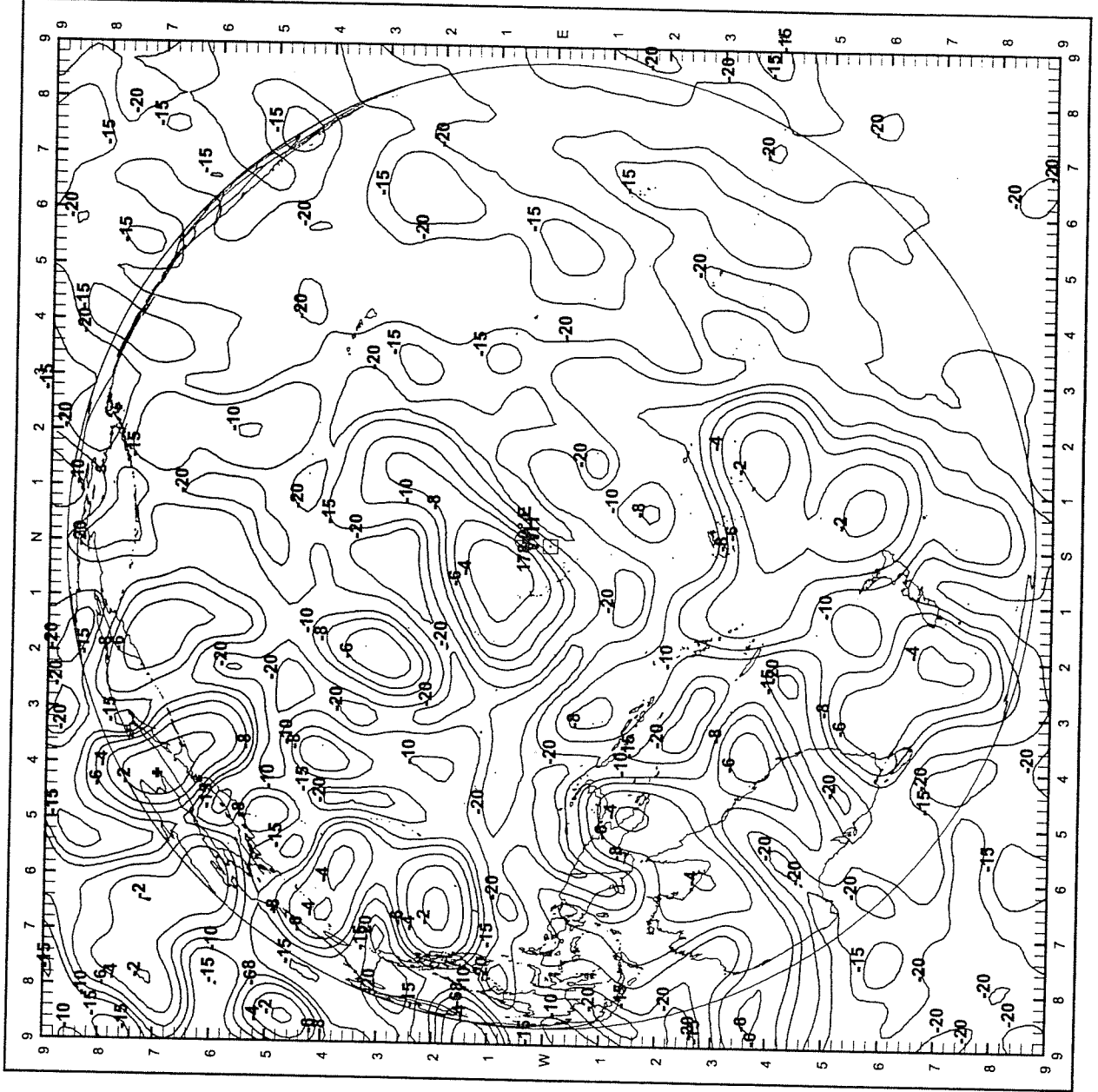
Peak Gain (Uplink X-pol) (See +)  
WH : -11.2 dBi

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

Beam Frequencies  
WH : 6130

Polarization  
WH : Circular RHCP

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



View : Orthographic 178.0° E  
Status : INTELSAT APPROVED

Plot Date: 11 April 2002  
acp2dev\proj61.apr

# Intelsat.

INTELSAT 603 at 178.00°E Antenna Coverage  
 S/C Platform Bias (Tx) : 0.10°E 0.50°N  
 S/C Platform Bias (Rx) : 0.10°E 0.50°N  
 YAW : 0.00°

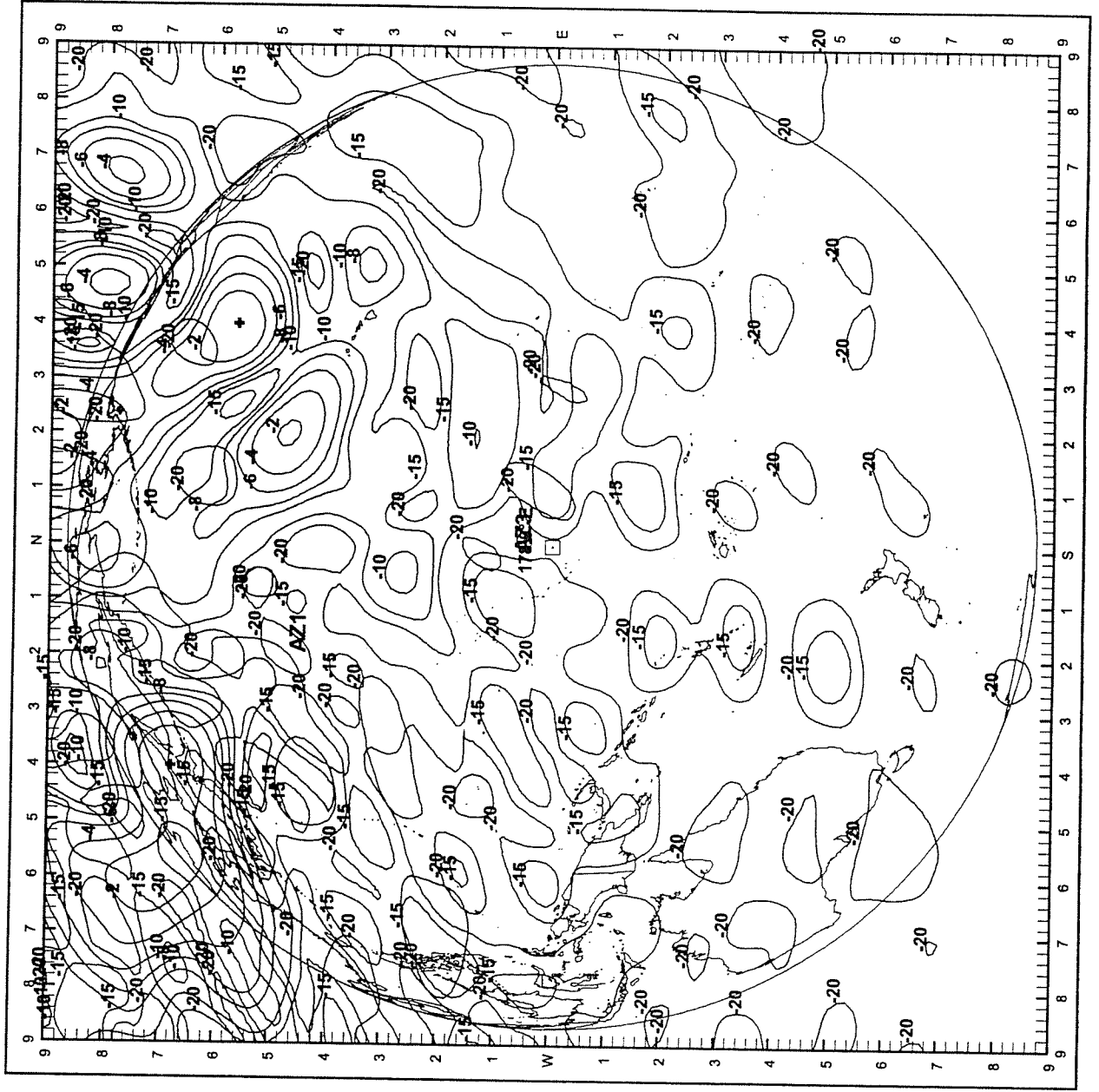
Peak Gain (Uplink X-pol) (See +)  
 AZ3 : -7.1 dBi  
 AZ1 : 1.2 dBi

Contour Levels  
 AZ3 : -2, -4, -6, -8, -10, -15, -20 dB  
 AZ1 : -2, -4, -6, -8, -10, -15, -20 dB

Beam Frequencies  
 AZ3 : 6130  
 AZ1 : 6130

Polarization  
 AZ3 : Circular LHCP  
 AZ1 : Circular LHCP

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



# Intelsat

INTELSAT 603 at 178.00°E Antenna Coverage  
 S/C Platform Bias (Tx) : 0.10°E 0.50°N  
 S/C Platform Bias (Rx) : 0.10°E 0.50°N  
 YAW : 0.00°

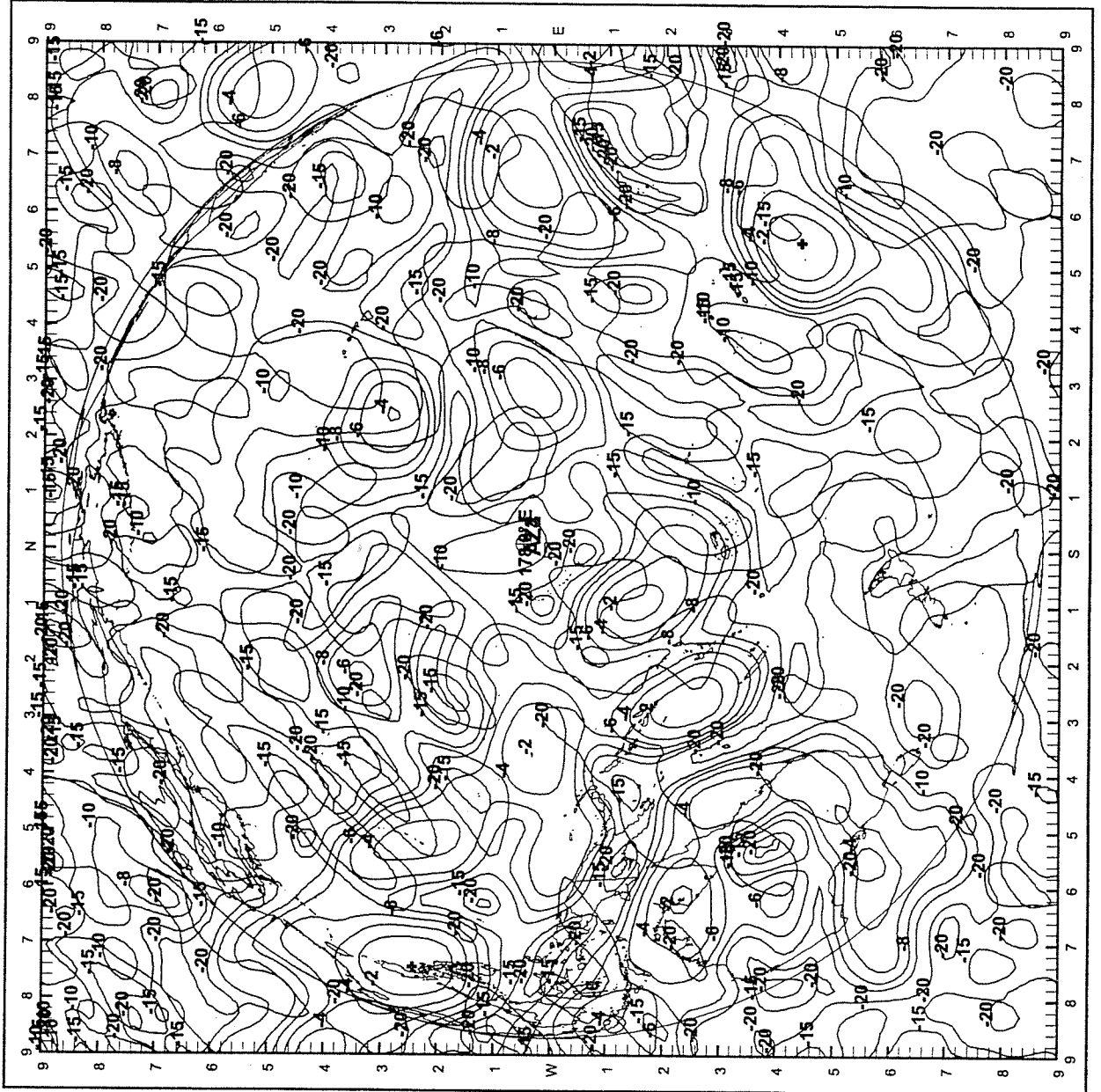
Peak Gain (Uplink X-pol) (See +)  
 AZ4 : -7.6 dBi  
 AZ2 : -10.7 dBi

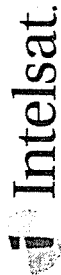
Contour Levels  
 AZ4 : -2, -4, -6, -8, -10, -15, -20 dB  
 AZ2 : -2, -4, -6, -8, -10, -15, -20 dB

Beam Frequencies  
 AZ4 : 6130  
 AZ2 : 6130

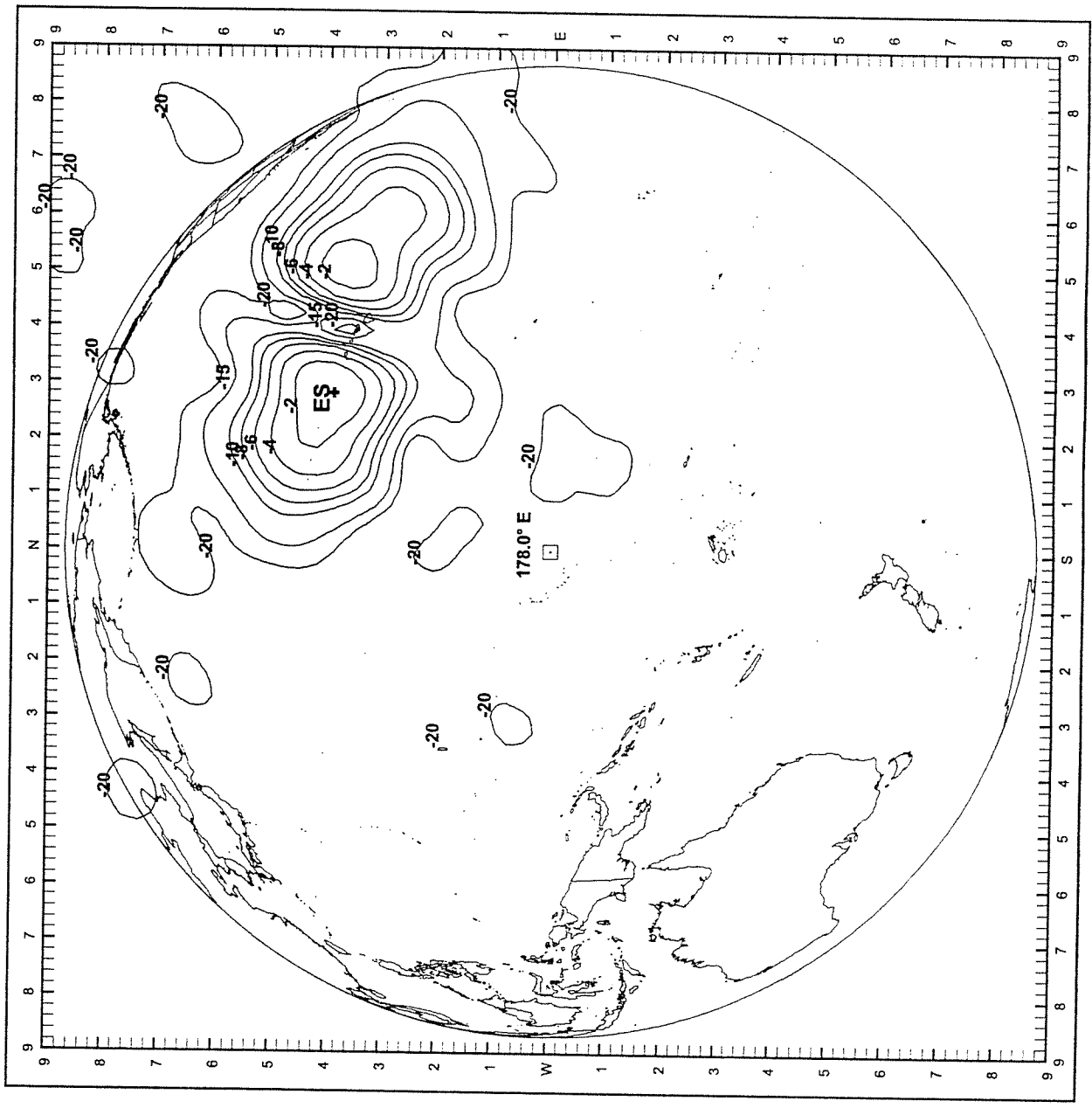
Polarization  
 AZ4 : Circular LHCP  
 AZ2 : Circular LHCP

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





INTELSAT 603 at 178.00°E Antenna Coverage  
S/C Platform Bias (Tx) : 0.10°E 0.50°N  
S/C Platform Bias (Rx) : 0.10°E 0.50°N  
YAW : 0.00°  
Antenna Pointing  
ES : 3.97°E 3.49°N  
Peak Gain (Uplink X-pol) (See +)  
ES : 8.8 dBi  
Contour Levels  
ES : -2, -4, -6, -8, -10, -15, -20 dB  
Beam Frequencies : 14205  
Polarization : Linear Vertical  
ES  
Square : Sub-Satellite Point



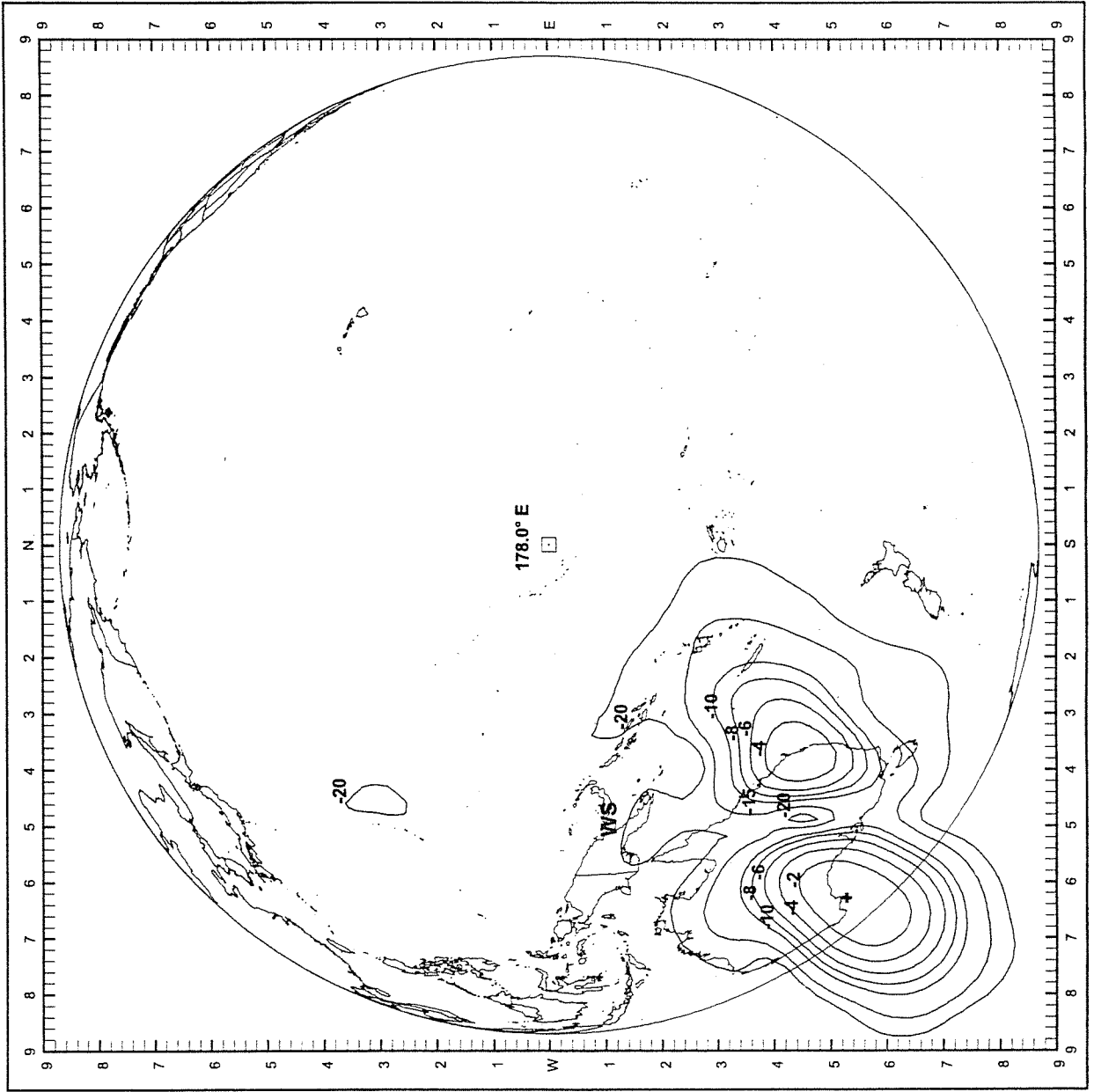
Plot Date: 11 April 2002  
acp2devproj61 apr

View : Orthographic 178.0° E  
Status : INTELSAT APPROVED



# Intelsat

INTELSAT 603 at 178.00°E Antenna Coverage  
 S/C Platform Bias (Tx) : 0.10°E 0.50°N  
 S/C Platform Bias (Rx) : 0.10°E 0.50°N  
 YAW : 0.00°  
 Antenna Pointing  
 WS : 4.75°W 4.56°S  
 Peak Gain (Uplink X-pol) (See +)  
 WS : 11.5 dBi  
 Contour Levels  
 WS : -2, -4, -6, -8, -10, -15,  
 -20 dB  
 Beam Frequencies  
 WS : 14205  
 Polarization  
 WS : Linear Horizontal  
 Square : Sub-Satellite Point



**FCC 312  
Main Form**

**FEDERAL COMMUNICATIONS COMMISSION**

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

Approved by OMB  
3060-0678  
Est. Avg. Burden Hours  
Per Response: 11 Hrs.

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

**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>	
ATTENTION: <b>Milenko Stojkovic</b>		7. State / Country (if not U.S.A.) <b>DC</b>	
9. Name of Contact Representative (if other than applicant) <b>Bert Rein</b>		8. Zip Code <b>20008-3098</b>	
11. Firm or Company Name <b>Wiley, Rein &amp; Fielding</b>		10. Voice Telephone Number <b>(202) 719 7000</b>	
13. Mailing Street Address or P.O. Box <b>1776 K Street, N.W.</b>		12. Fax Telephone Number <b>(202) 719 7207</b>	
ATTENTION: <b>Bert Rein</b>		14. City <b>Washington</b>	
		15. State / Country (if not U.S.A.) <b>DC</b>	
		16. Zip Code <b>20006</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 type="checkbox"/> b6. Transfer of Control of License or Registration
<input checked="" type="checkbox"/> a2. Space Station	<input type="checkbox"/> b2. Application for Registration of New Domestic Receive-Only Station	<input type="checkbox"/> b7. Notification of Minor Modification
	<input type="checkbox"/> b3. Amendment to a Pending Application	<input type="checkbox"/> b8. Application for License of New Receive-Only Station Using Non-U.S. Licensed Satellite
	<input checked="" type="checkbox"/> b4. Modification of License or Registration	<input type="checkbox"/> b9. Letter of Intent to Use Non-U.S. Licensed Satellite to Provide Service in the United States
	<input type="checkbox"/> b5. Assignment of License or Registration	<input type="checkbox"/> b10. Other (Please Specify):

18. If this filing is in reference to an existing station, enter:  
Call sign of station: **S2395**

19. If this filing is an amendment to a pending application enter:  
(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

c. Other (Please specify)

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 relocate space station**

**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.

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

YES     NO

**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 original application filed in January 2000 and updated ownership information in 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?		United States

43. Description. (Summarize the nature of the application and the services to be provided).

Intelsat LLC requests modification of its license to relocate INTELSAT 705 from the 53 degrees W.L. orbital position to 50 degrees W.L. in April / May 2002.

Exhibit No. Identify all exhibits that are attached to this application.

See Exhibit 1

### CERTIFICATION

The Applicant waives any claim to the use of any particular frequency or of the electromagnetic spectrum as against the regulatory power of the United States because of the previous use of the same, whether by license or otherwise, and requests an authorization in accordance with this application. The applicant certifies that grant of this application would not cause the applicant to be in violation of the spectrum aggregation limit in 47 CFR Part 20. All statements made in exhibits are a material part hereof and are incorporated herein as if set out in full in this application. The undersigned, individually and for the applicant, hereby certifies that all statements made in this application and in all attached exhibits are true, complete and correct to the best of his or her knowledge and belief, and are made in good faith.

44. Applicant is a (an): (Place an "X" in the box next to applicable response.)

- a. Individual     b. Unincorporated Association     c. Partnership     d. Corporation     e. Governmental Entity     f. Other (Please specify) LLC

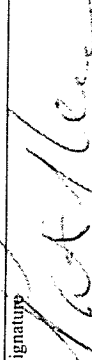
45. Typed Name of Person Signing

Patrick Cerna

46. Title of Person Signing

Vice President

47. Signature



48. Date

April 16, 2002

**WILLFUL FALSE STATEMENTS MADE ON THIS FORM ARE PUNISHABLE BY FINE AND/OR IMPRISONMENT (U.S. Code, Title 18, Section 1001), AND/OR REVOCATION OF ANY STATION AUTHORIZATION (U.S. Code, Title 47, Section 312(a)(1)), AND/OR FORFEITURE (U.S. Code, Title 47, Section 503).**

## **INTELSAT 705 MODIFICATION**

### **EXHIBIT 1 Technical Description and Other Information Required Under Section 25.114(c)**

The Applicant, Intelsat LLC, hereby applies for authority to relocate INTELSAT 705, a geostationary satellite that is already in orbit and operating in the C-band and Ku-band currently at 53° W.L., to the 50° W.L. orbital location in April/May 2002.

Specific technical information for the INTELSAT 705 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:

Milenko Stojkovic  
Director, Telecommunication and Regulatory Policy  
Intelsat Global Service Corporation  
3400 International Drive, N.W.  
Washington, D.C. 20008-3098  
(202) 944-7590

The Applicant's counsel is:

Bert W. Rein  
Carl R. Frank  
Jennifer 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 contact person for the Applicant, with copies to the above counsel.

**TYPE OF AUTHORIZATION REQUESTED**

This application requests FCC authority to relocate and continue to operate a satellite in the Fixed-Satellite Service in the C-band and Ku-band. Intelsat LLC seeks authority for INTELSAT 705 to operate on both a common carrier and non-common carrier basis.

## **TECHNICAL INFORMATION**

### **A. Satellite Coverage**

The coverage of INTELSAT 705 from the 53° W.L. location is provided in Attachment 1 to this Exhibit 1.

## **PUBLIC INTEREST CONSIDERATIONS**

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

## **WAIVERS REQUESTED**

It is requested that the waivers granted to the INTELSAT 705 spacecraft at the 53° W.L. location continue to apply at 50° W.L. These waivers are the same as those granted to INTELSAT 709 at 50° W.L. Also, INTELSAT 705 is technically identical to INTELSAT 709.

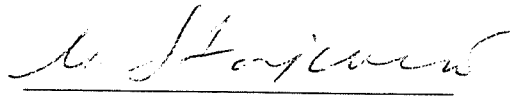
## **ENGINEERING CERTIFICATE**

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.



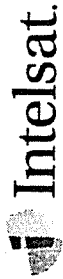
Milenko P. Stojkovic, Ph.D.

Director

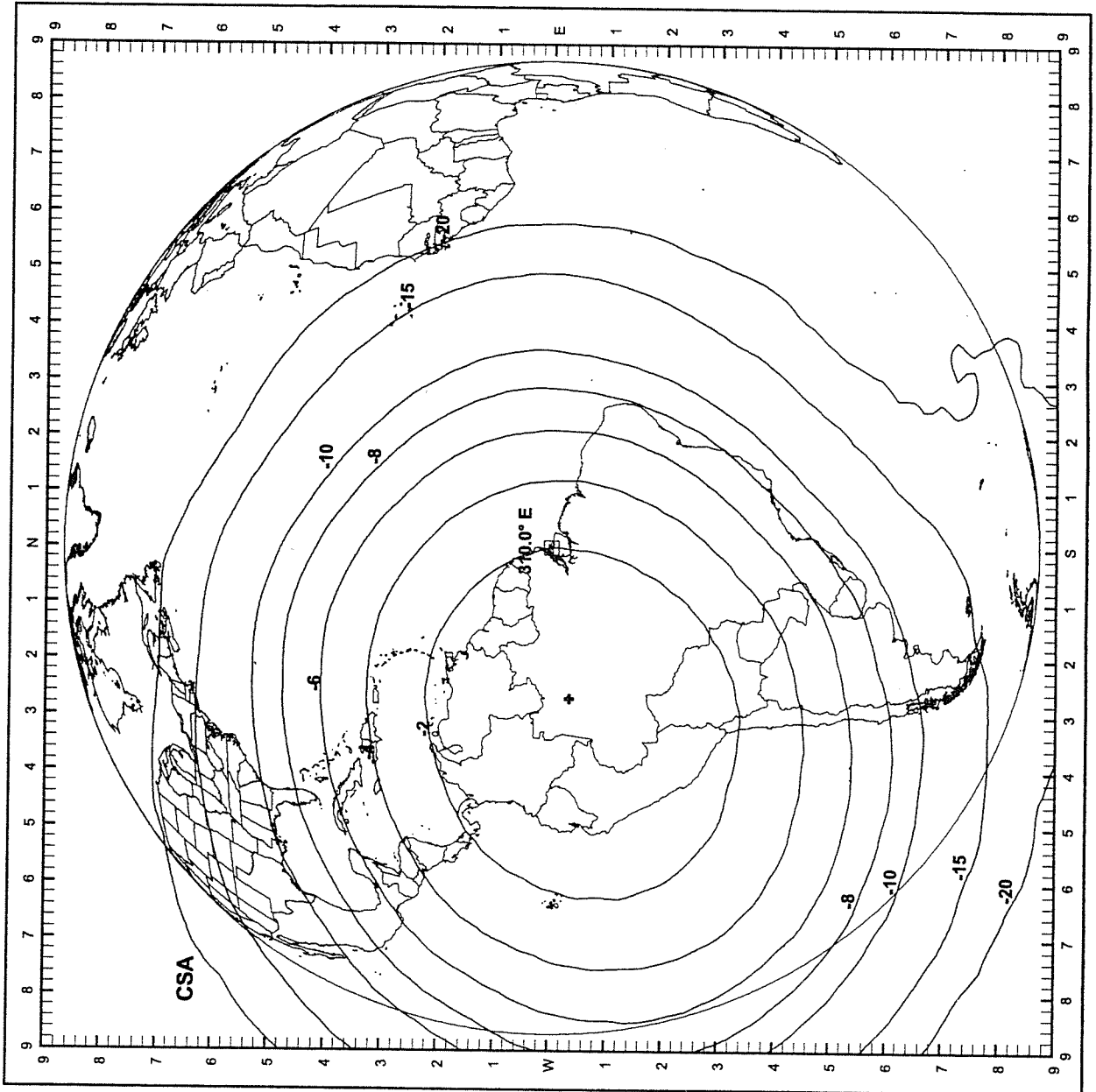
Telecommunication and Regulatory Policy

Intelsat Global Service Corporation

April 18, 2002

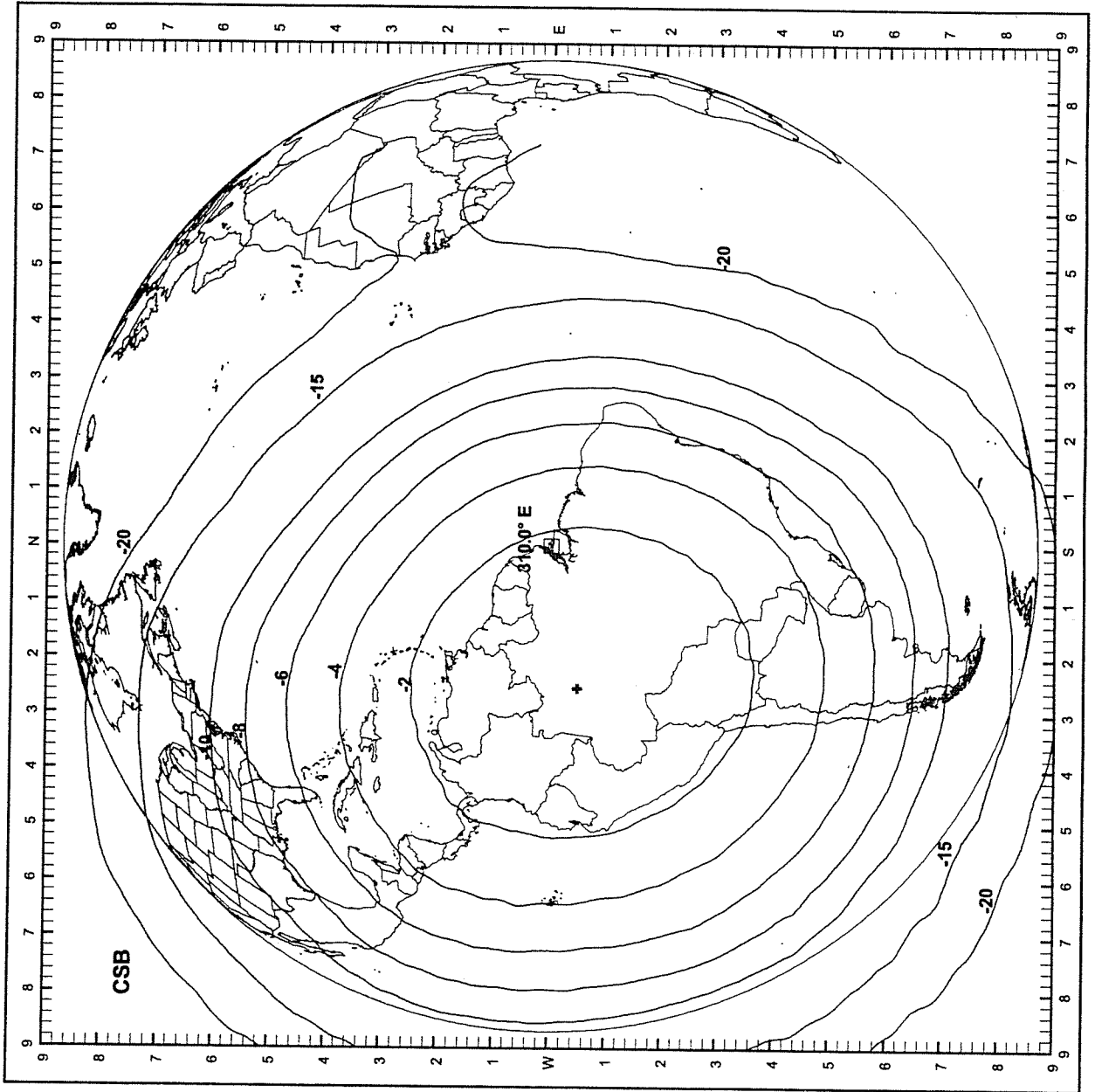


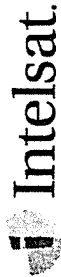
INTELSAT 705 at 310.00°E Antenna Coverage  
S/C Platform Bias : 1.20°E 0.30°N  
YAW : 0.00°  
Antenna Pointing  
CSA : 2.95°W 0.88°S  
Peak Gain (Downlink Co-pol) (See +)  
CSA : 27.5 dBi  
Beam Peak EIRP : 38.2 dBW  
CSA :  
Contour Levels : -2, -4, -6, -8, -10, -15, -20 dB  
CSA :  
Beam Frequencies : 4095  
CSA :  
Polarization : Circular RHCP  
CSA :  
Square : Sub-Satellite Point



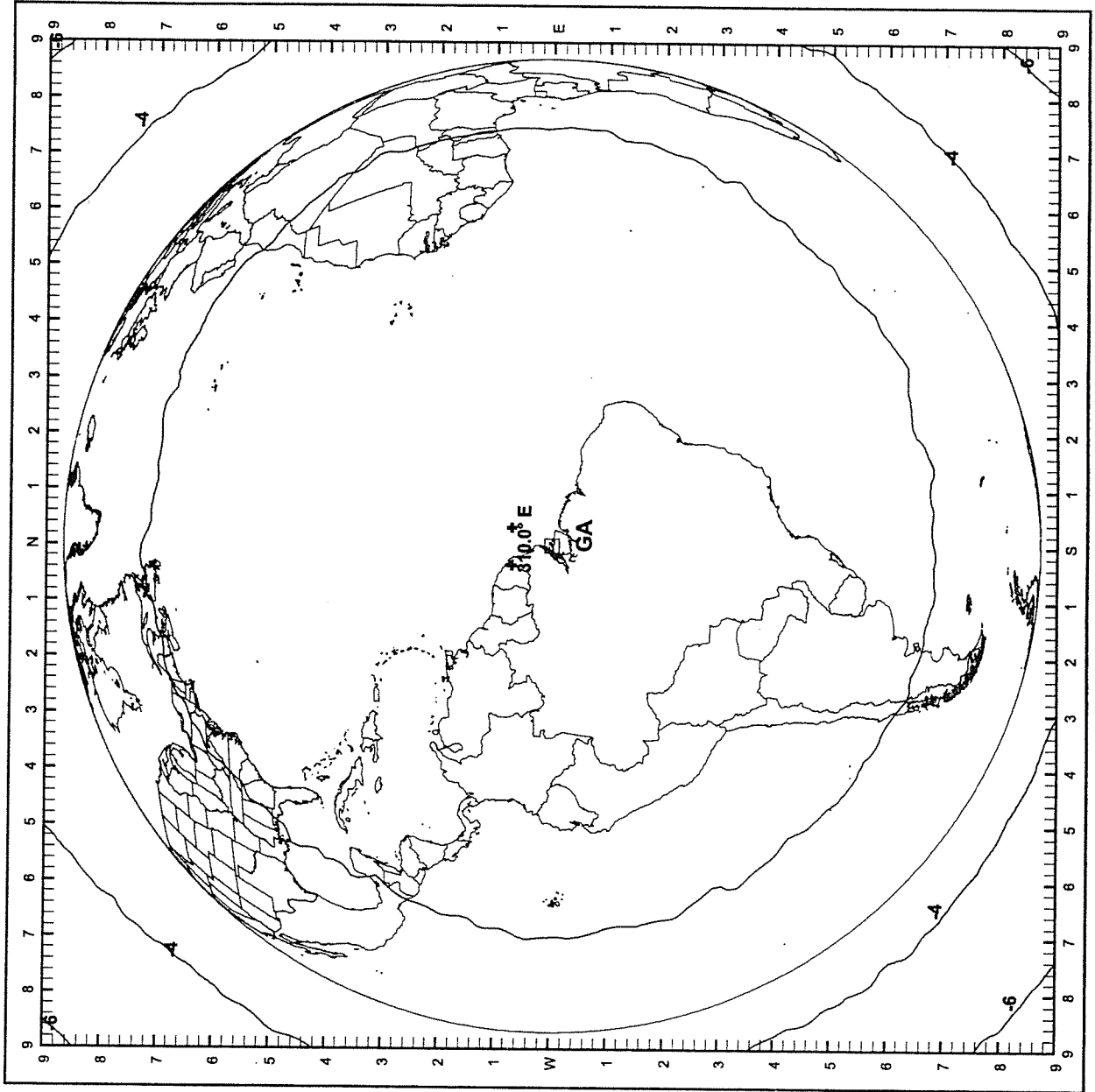


INTELSAT 705 at 310.00°E Antenna Coverage  
S/C Platform Bias : 1.20°E 0.30°N  
YAW : 0.00°  
Antenna Pointing  
CSB : 2.95°W 0.88°S  
Peak Gain (Downlink Co-pol) (See +)  
CSB : 27.4 dBi  
Beam Peak EIRP  
CSB : 37.9 dBW  
Contour Levels  
CSB : -2, -4, -6, -8, -10, -15, -20 dB  
Beam Frequencies  
CSB : 4095  
Polarization  
CSB : Circular LHCP  
Square : Sub-Satellite Point



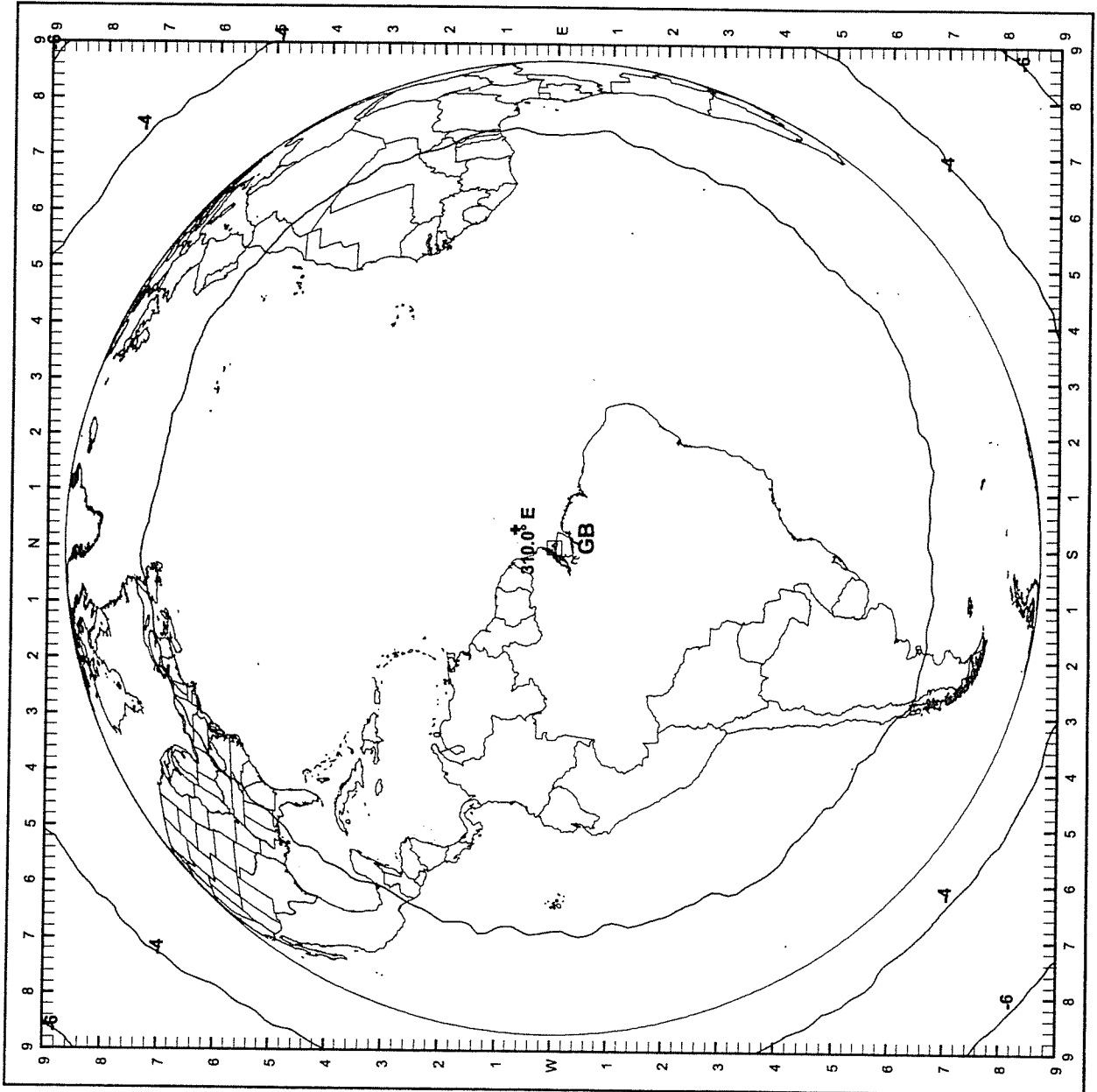


INTELSAT 705 at 310.00°E Antenna Coverage  
S/C Platform Bias : 1.20°E 0.30°N  
YAW : 0.00°  
Antenna Pointing  
GA : 0.00°E 0.30°N  
Peak Gain (Downlink Co-pol) (See +)  
GA : 20.5 dBi  
Beam Peak EIRP : 30.9 dBW  
GA : 30.9 dBW  
Contour Levels : -2, -4, -6, -8, -10, -15, -20 dB  
GA : -20 dB  
Beam Frequencies : 4095  
GA : 4095  
Polarization : Circular RHCP  
GA : Circular RHCP  
Square : Sub-Satellite Point





INTELSAT 705 at 310.00°E Antenna Coverage  
S/C Platform Bias : 1.20°E 0.30°N  
YAW : 0.00°  
Antenna Pointing GB : 0.00°E 0.30°N  
Peak Gain (Downlink Co-pol) (See +)  
GB : 20.5 dBi  
Beam Peak EIRP GB : 30.9 dBW  
Contour levels GB : -2, -4, -6, -8, -10, -15, -20 dB  
Beam Frequencies GB : 4095  
Polarization GB : Circular LHCP  
Square : Sub-Satellite Point



Plot Date: 11 April 2002  
acp2dev\proj61.apr

View : Orthographic 310.0° E  
Status : INTELSAT APPROVED



INTELSAT 705 at 310.00°E Antenna Coverage  
S/C Platform Bias : 1.20°E 0.30°N  
YAW : 0.00°

Peak Gain (Downlink Co-pol) (See +)  
HI : 23.8 dBi

Beam Peak EIRP : 37.5 dBW

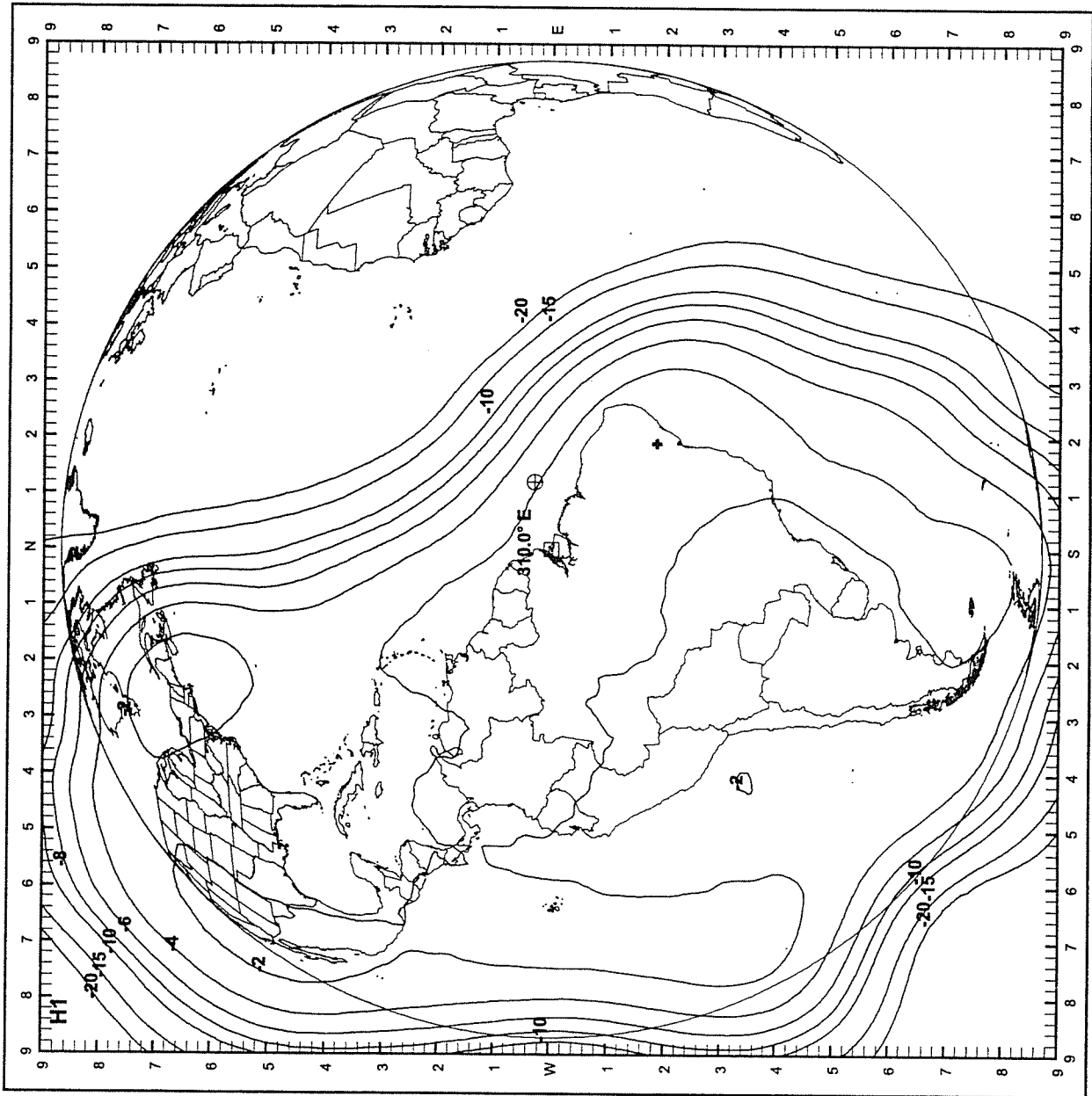
Contour Levels : -2, -4, -6, -8, -10, -15, -20 dB

Beam Frequencies : 3924

Polarization : Circular RHCP

Square : Sub-Satellite Point

Circle : Sat.Ant.Platform Bias



Plot Date: 11 April 2002  
acp2dev\proj61.apr

View : Orthographic 310.0° E  
Status : INTELSAT APPROVED



INTELSAT 705 at 310.00°E Antenna Coverage  
S/C Platform Bias : 1.20°E 0.30°N  
YAW : 0.00°

Peak Gain (Downlink Co-pol) (See +)  
H2 : 27.1 dBi

Beam Peak EIRP : 38.9 dBW

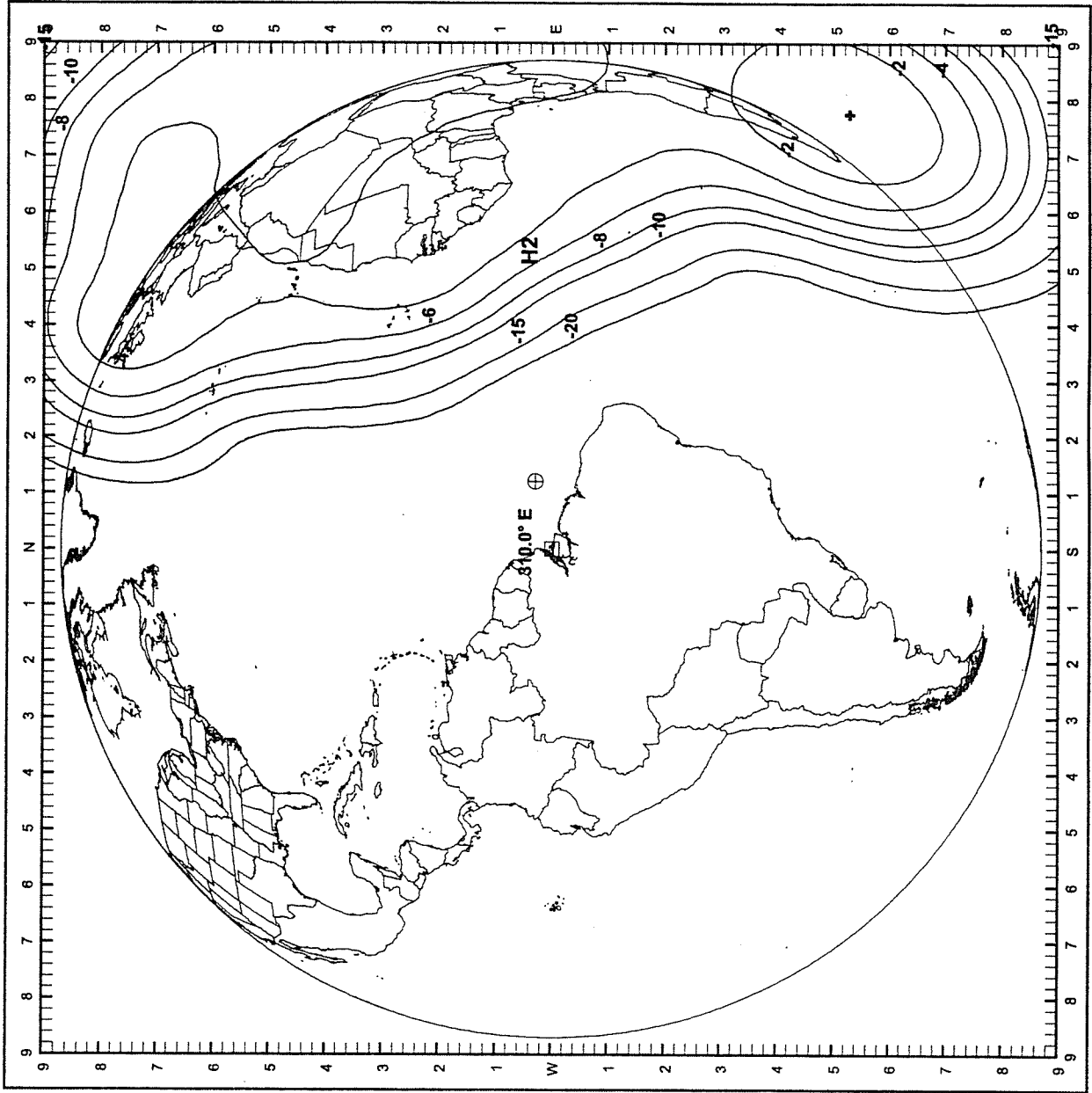
Contour Levels : -2, -4, -6, -8, -10, -15, -20 dB

Beam Frequencies : 3924

Polarization : Circular RHCP  
H2

Square : Sub-Satellite Point

Circle : Sat.Ant.Platform Bias





INTELSAT 705 at 310.00°E Antenna Coverage  
 S/C Platform Bias : 1.20°E 0.30°N  
 YAW : 0.00°

Peak Gain (Downlink Co-pol) (See +)  
 ZD : 28.2 dBi  
 ZA : 28.2 dBi

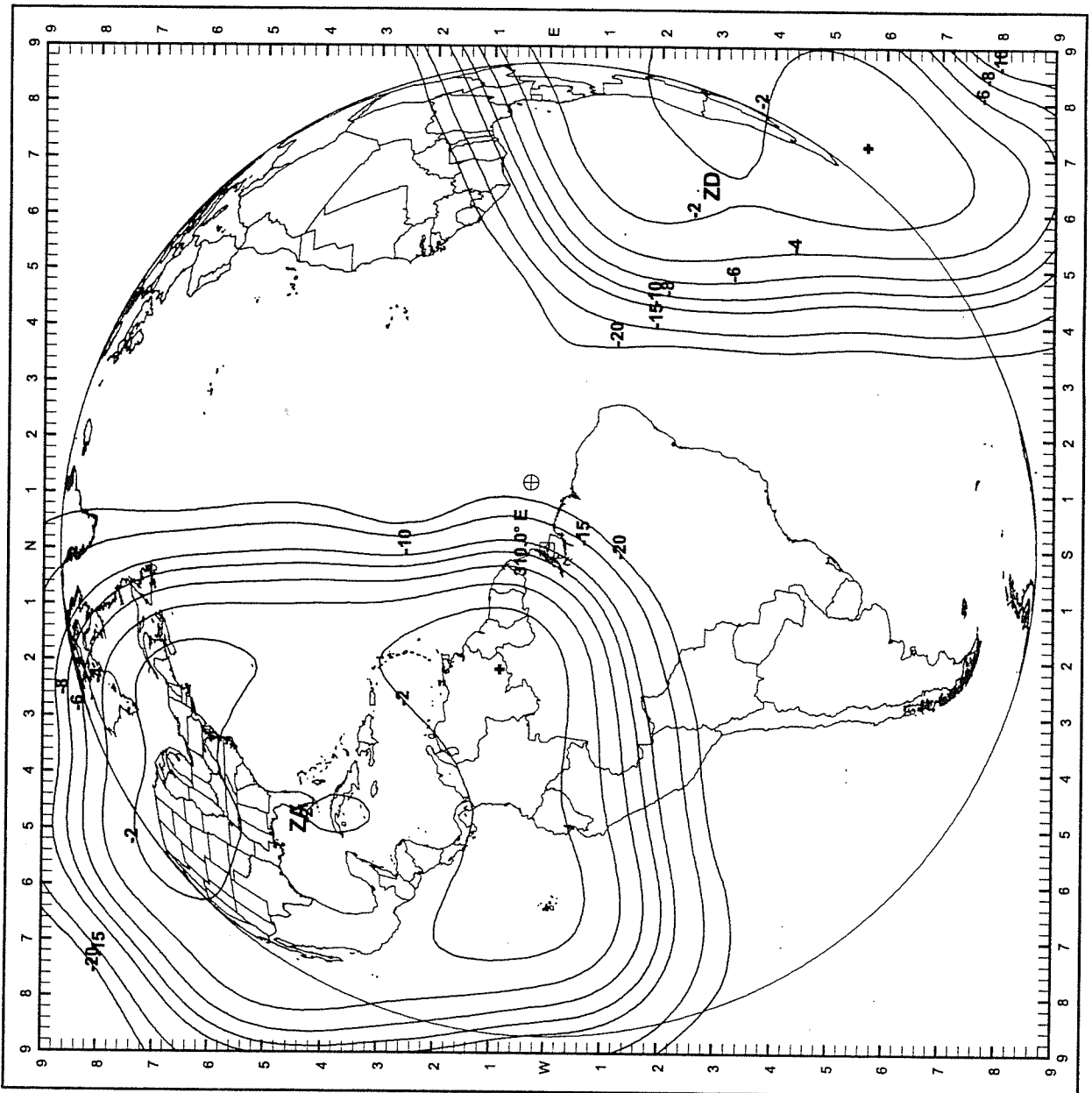
Beam Peak EIRP  
 ZD : 39.3 dBW  
 ZA : 39.2 dBW

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

Beam Frequencies  
 ZD : 3924  
 ZA : 3924

Polarization  
 ZD : Circular LHCP  
 ZA : Circular LHCP

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







INTELSAT 705 at 310.00°E Antenna Coverage  
 S/C Platform Bias : 1.20°E 0.30°N  
 YAW : 0.00°

Peak Gain (Downlink Co-pol) (See +)  
 ZC : 28.6 dBi  
 ZB : 30.7 dBi

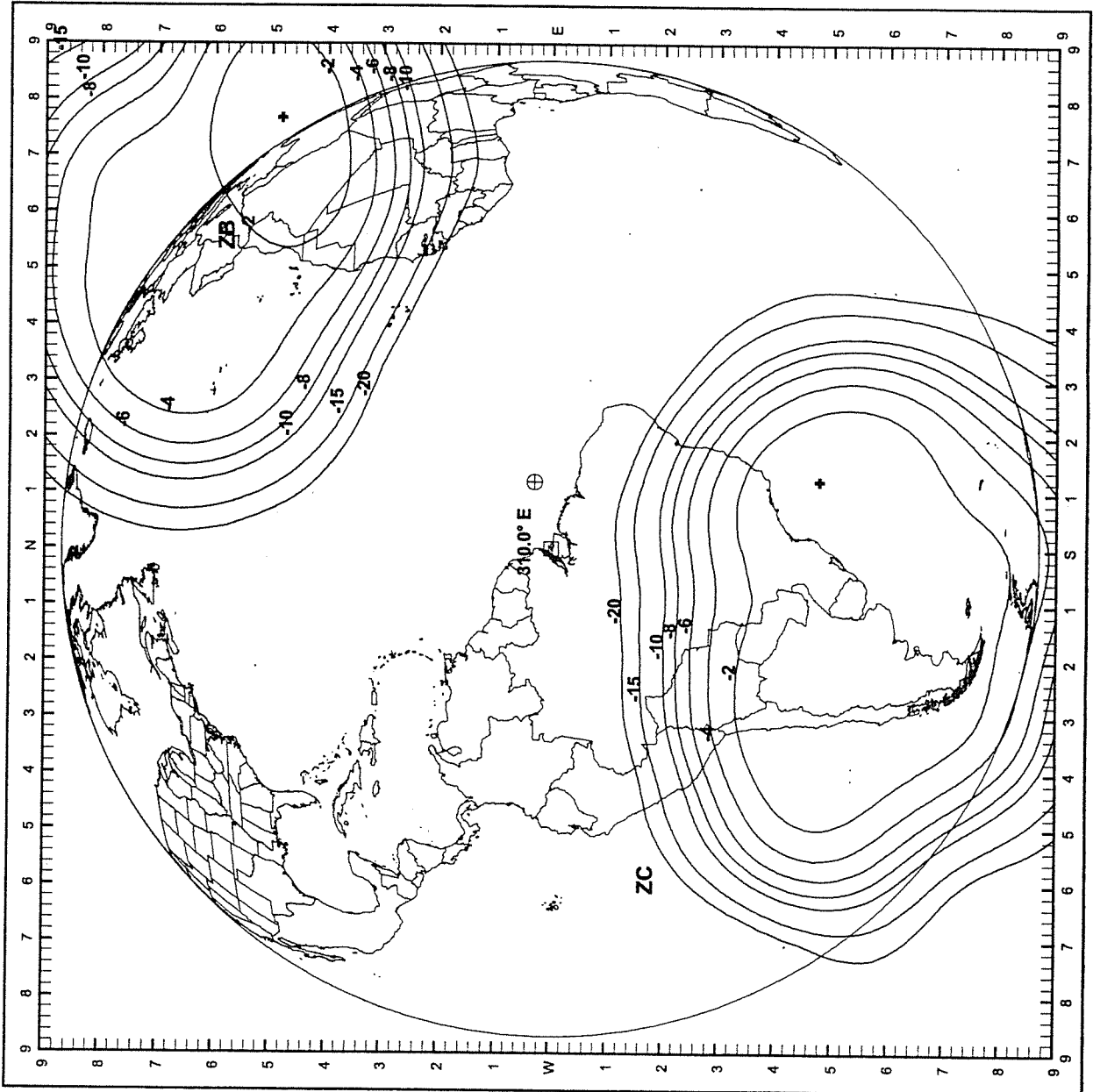
Beam Peak EIRP  
 ZC : 37.6 dBW  
 ZB : 39.5 dBW

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

Beam Frequencies  
 ZC : 3924  
 ZB : 3924

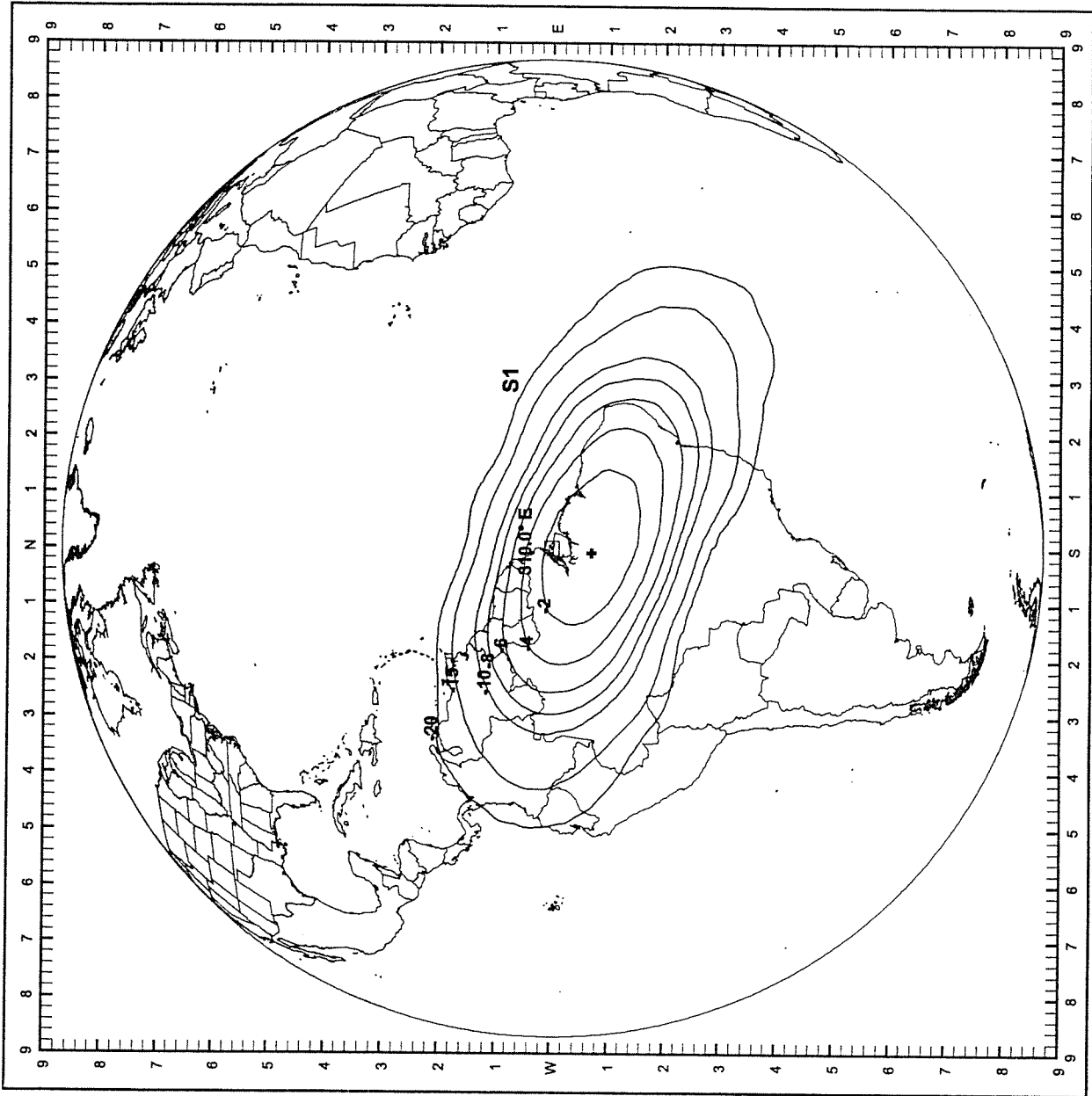
Polarization  
 ZC : Circular LHCP  
 ZB : Circular LHCP

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



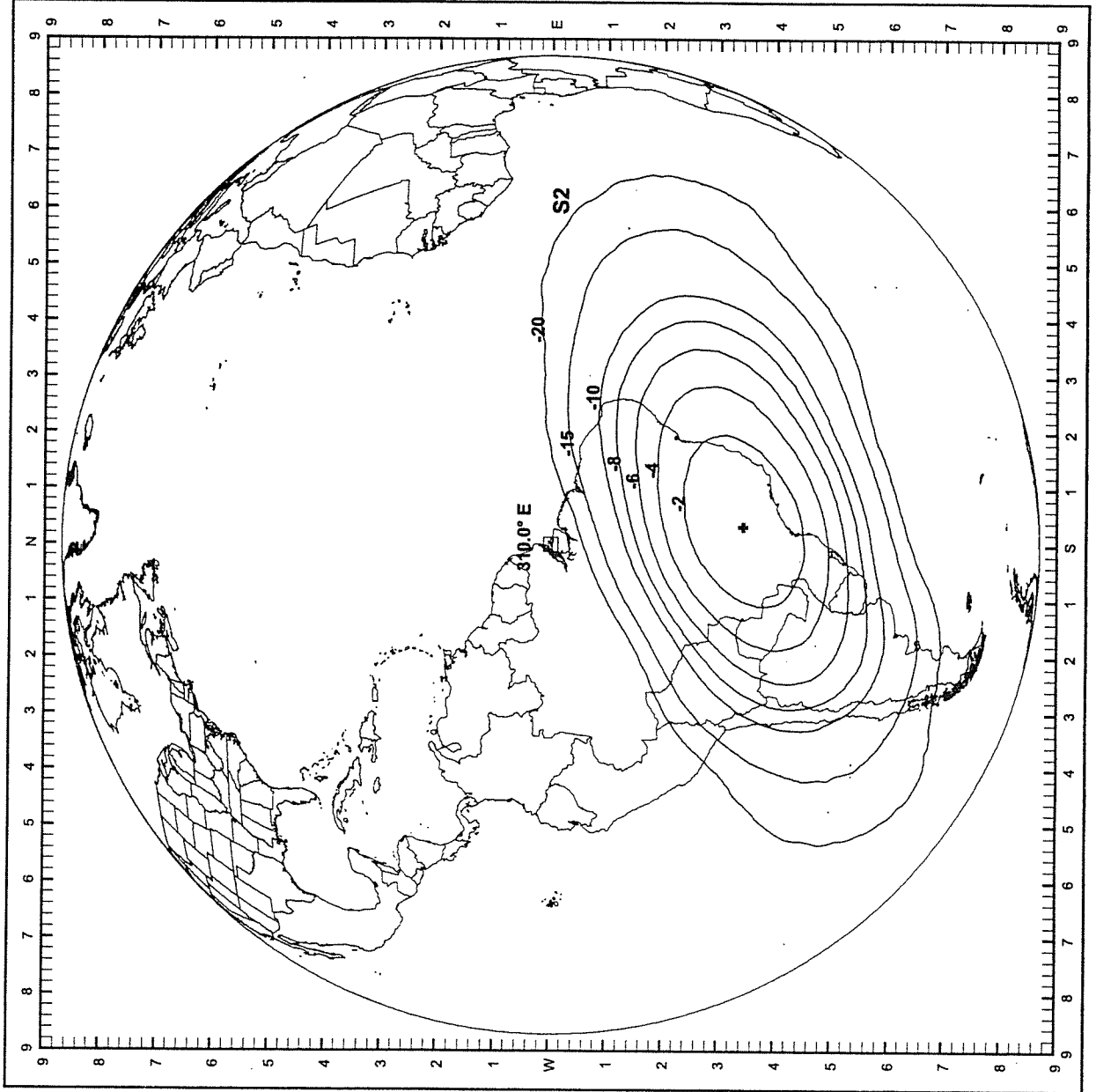


INTELSAT 705 at 310.00°E Antenna Coverage  
S/C Platform Bias : 1.20°E 0.30°N  
YAW : 0.00°  
Antenna Pointing  
SI : 0.05°E 0.69°S  
Peak Gain (Downlink Co-pol) (See +)  
SI : 35.9 dBi  
Beam Peak EIRP : 49.8 dBW  
Contour Levels : -2, -4, -6, -8, -10, -15, -20 dB  
SI : 11174  
Polarization : Linear Vertical  
SI :  
Square : Sub-Satellite Point



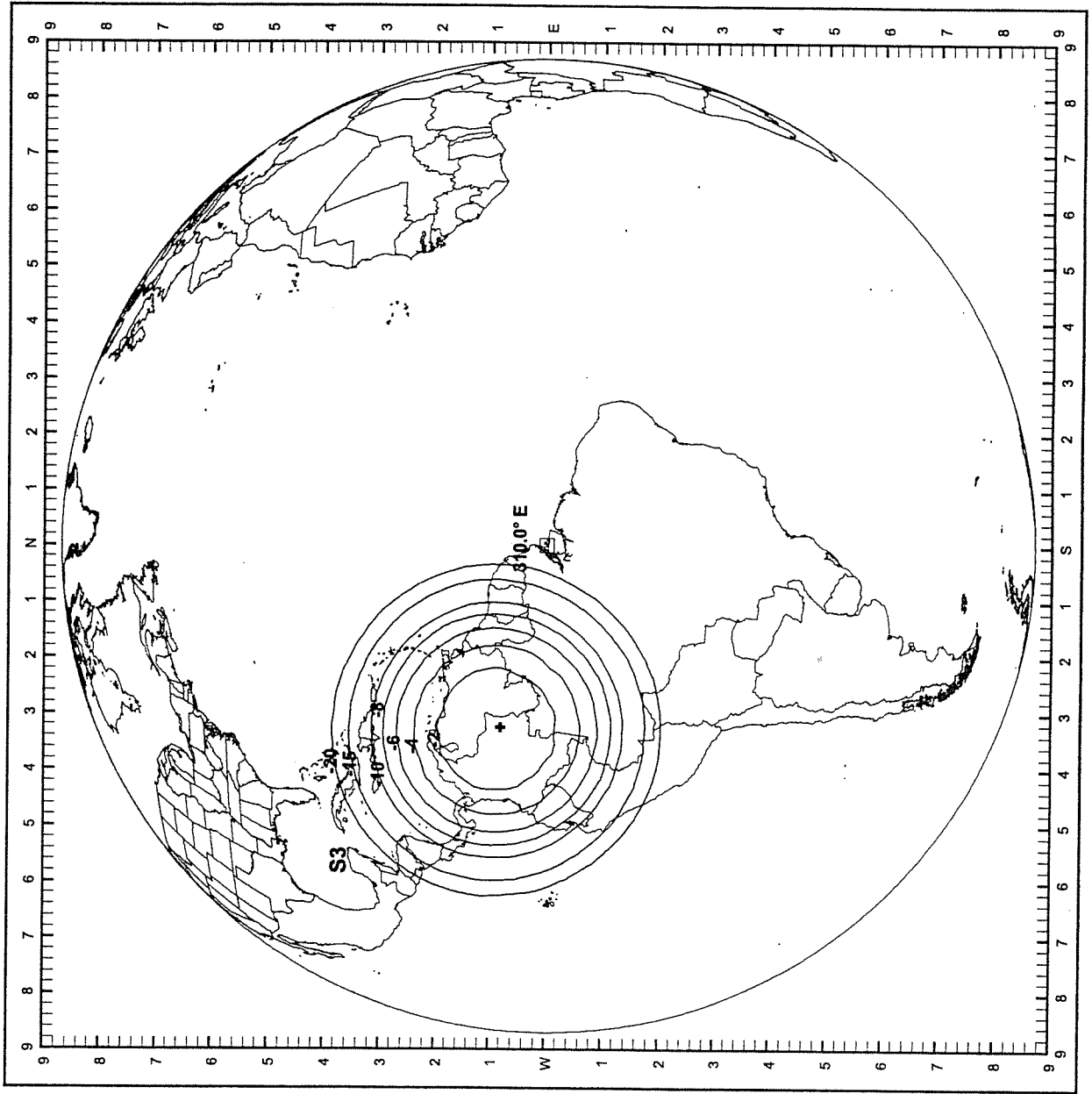


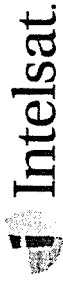
INTELSAT 705 at 310.00°E Antenna Coverage  
S/C Platform Bias : 1.20°E 0.30°N  
YAW : 0.00°  
Antenna Pointing S2 : 0.50°E 3.40°S  
Peak Gain (Downlink Co-pol) (See +)  
S2 : 34.4 dBi  
Beam Peak EIRP : 50.2 dBW  
Contour Levels : -2, -4, -6, -8, -10, -15, -20 dB  
Beam Frequencies : 11075  
Polarization : Linear Horizontal  
Square : Sub-Satellite Point



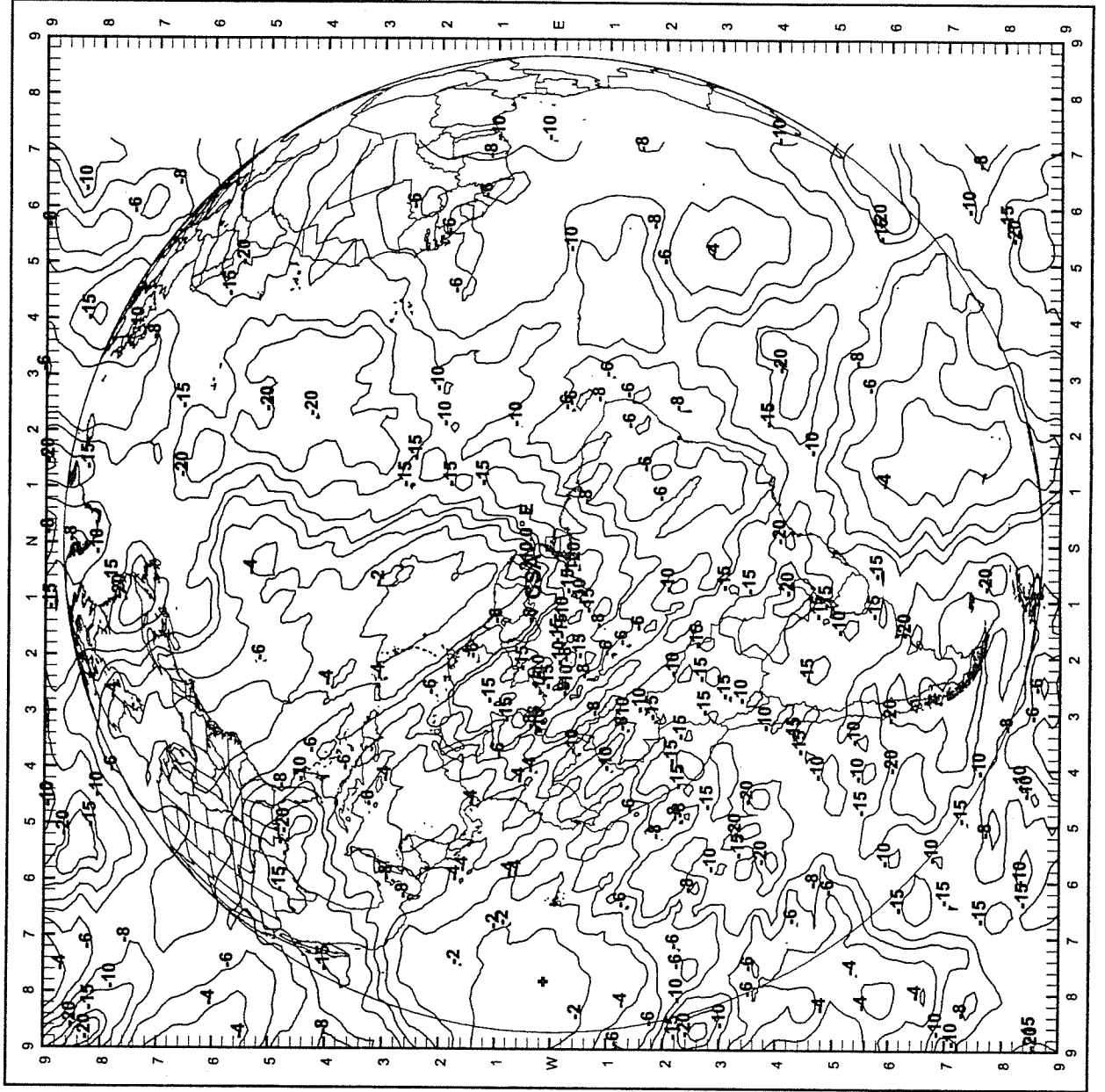


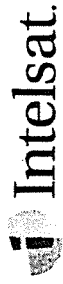
INTELSAT 705 at 310.00°E Antenna Coverage  
S/C Platform Bias : 1.20°E 0.30°N  
YAW : 0.00°  
Antenna Pointing S3 : 3.30°W 0.90°N  
Peak Gain (Downlink Co-pol) (See +)  
S3 : 36.6 dBi  
Beam Peak EIRP S3 : 50.3 dBW  
Contour Levels S3 : -2, -4, -6, -8, -10, -15, -20 dB  
Beam Frequencies S3 : 11174  
Polarization S3 : Linear Vertical  
Square : Sub-Satellite Point



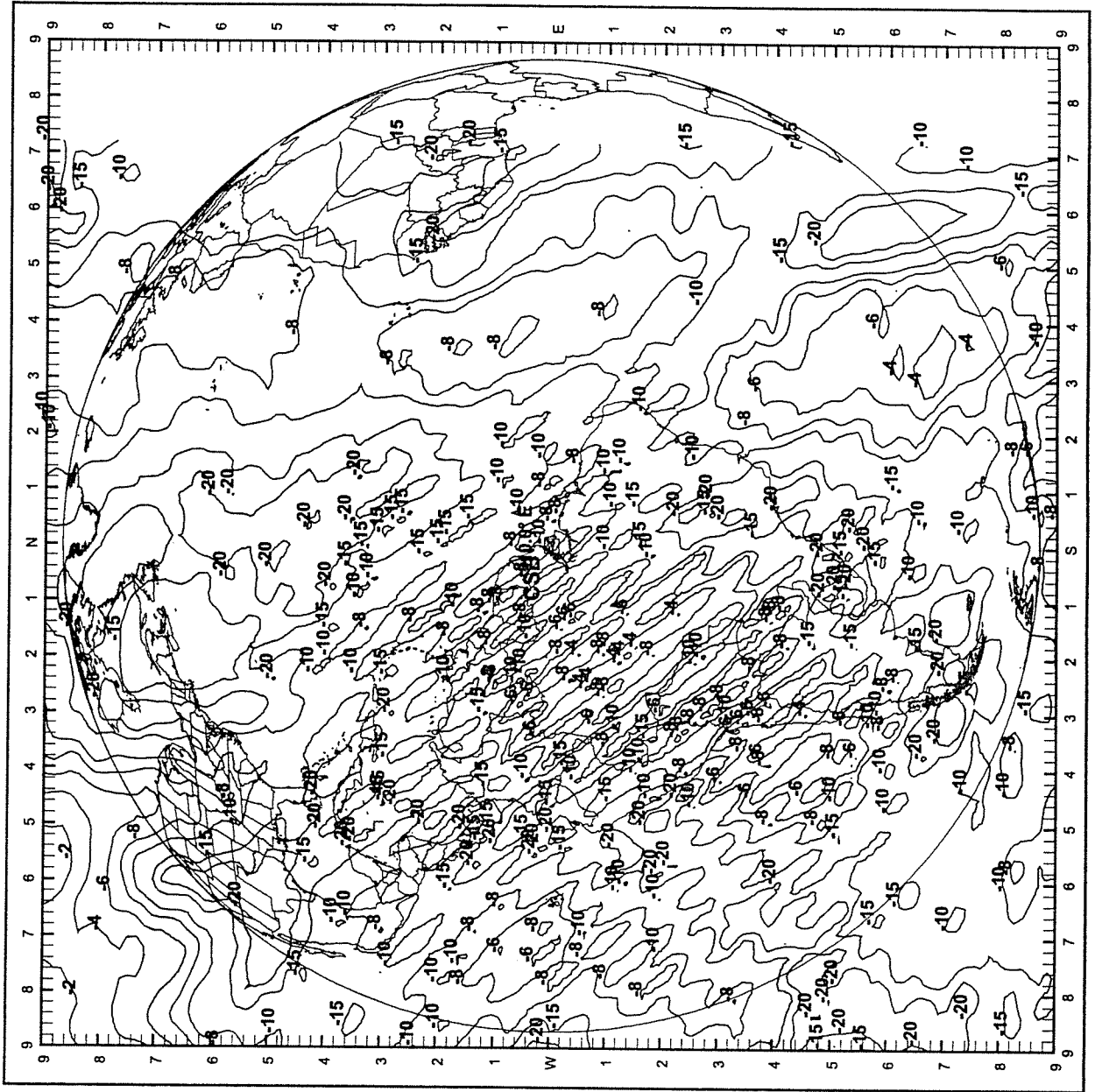


INTELSAT 705 at 310.00°E Antenna Coverage  
S/C Platform Bias : 1.20°E 0.30°N  
YAW : 0.00°  
Antenna Pointing  
CSA : 2.95°W 0.88°S  
Peak Gain (Downlink X-pol) (See +)  
CSA : -2.7 dBi  
Contour Levels  
CSA : -2, -4, -6, -8, -10, -15,  
-20 dB  
Beam Frequencies  
CSA : 4095  
Polarization  
CSA : Circular LHCP  
Square : Sub-Satellite Point



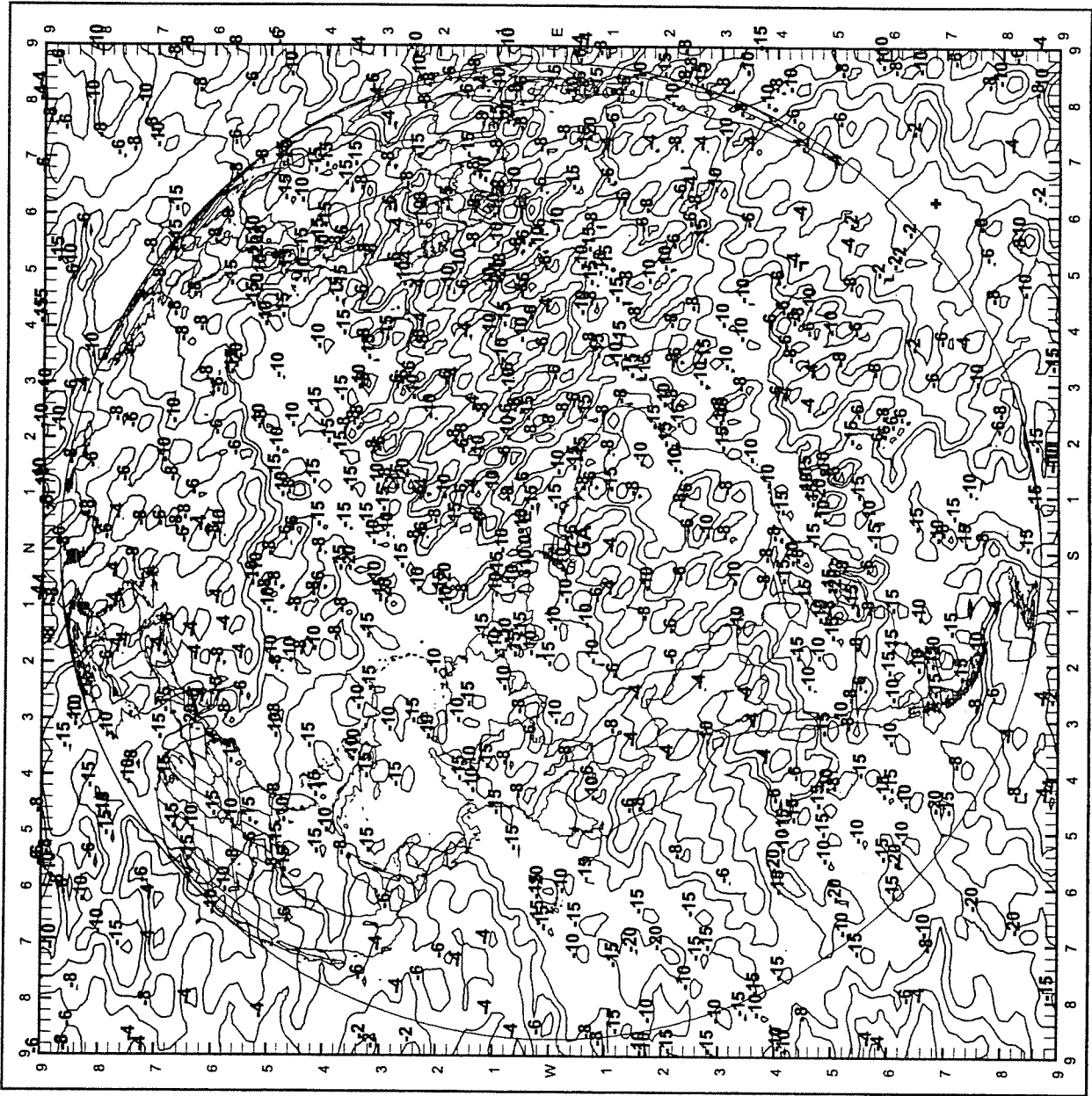


INTELSAT 705 at 310.00°E Antenna Coverage  
S/C Platform Bias : 1.20°E 0.30°N  
YAW : 0.00°  
Antenna Pointing  
CSB : 2.95°W 0.88°S  
Peak Gain (Downlink X-pol) (See +)  
CSB : 0.9 dBi  
Contour Levels  
CSB : -2,-4,-6,-8,-10,-15,  
-20 dB  
Beam Frequencies  
CSB : 4095  
Polarization  
CSB : Circular RHCP  
Square : Sub-Satellite Point



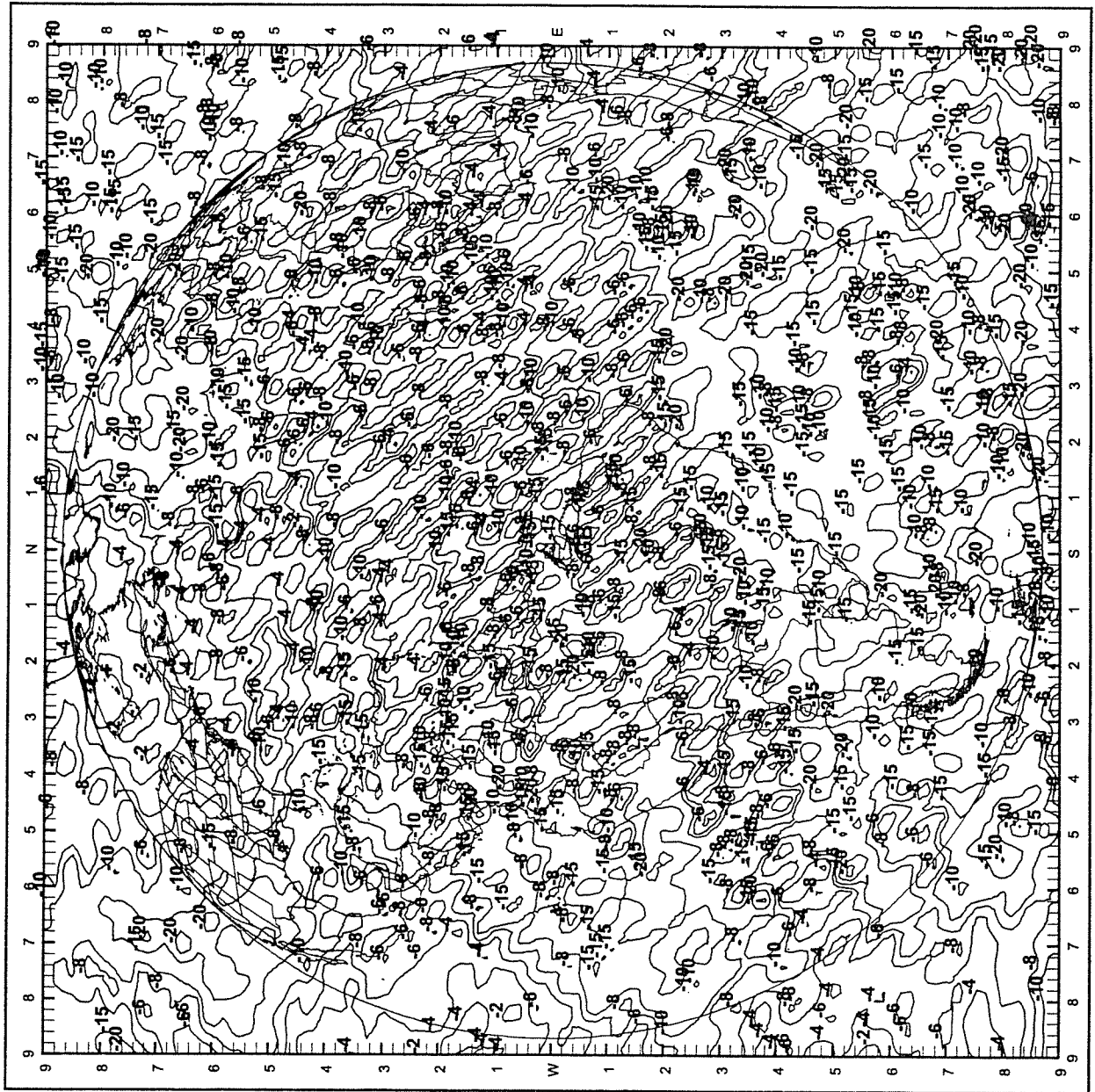


INTELSAT 705 at 310.00°E Antenna Coverage  
S/C Platform Bias : 1.20°E 0.30°N  
YAW : 0.00°  
Antenna Pointing : 0.00°E 0.30°N  
Peak Gain (Downlink X-pol) (See +)  
GA : -11.5 dBi  
Contour Levels : -2, -4, -6, -8, -10, -15, -20 dB  
GA : 4095  
Beam Frequencies : Circular LHCP  
Polarization : Sub-Satellite Point  
Square





INTELSAT 705 at 310.00°E Antenna Coverage  
S/C Platform Bias : 1.20°E 0.30°N  
YAW : 0.00°  
Antenna Pointing : 0.00°E 0.30°N  
GB : 0.00°E 0.30°N  
Peak Gain (Downlink X-pol) (See +)  
GB : -10.8 dBi  
Contour Levels : -2, -4, -6, -8, -10, -15, -20 dB  
Beam Frequencies : 4095  
Polarization : Circular RHCP  
Square : Sub-Satellite Point





# Intelsat.

INTELSAT 705 at 310.00°E Antenna Coverage  
 S/C Platform Bias : 1.20°E 0.30°N  
 YAW : 0.00°

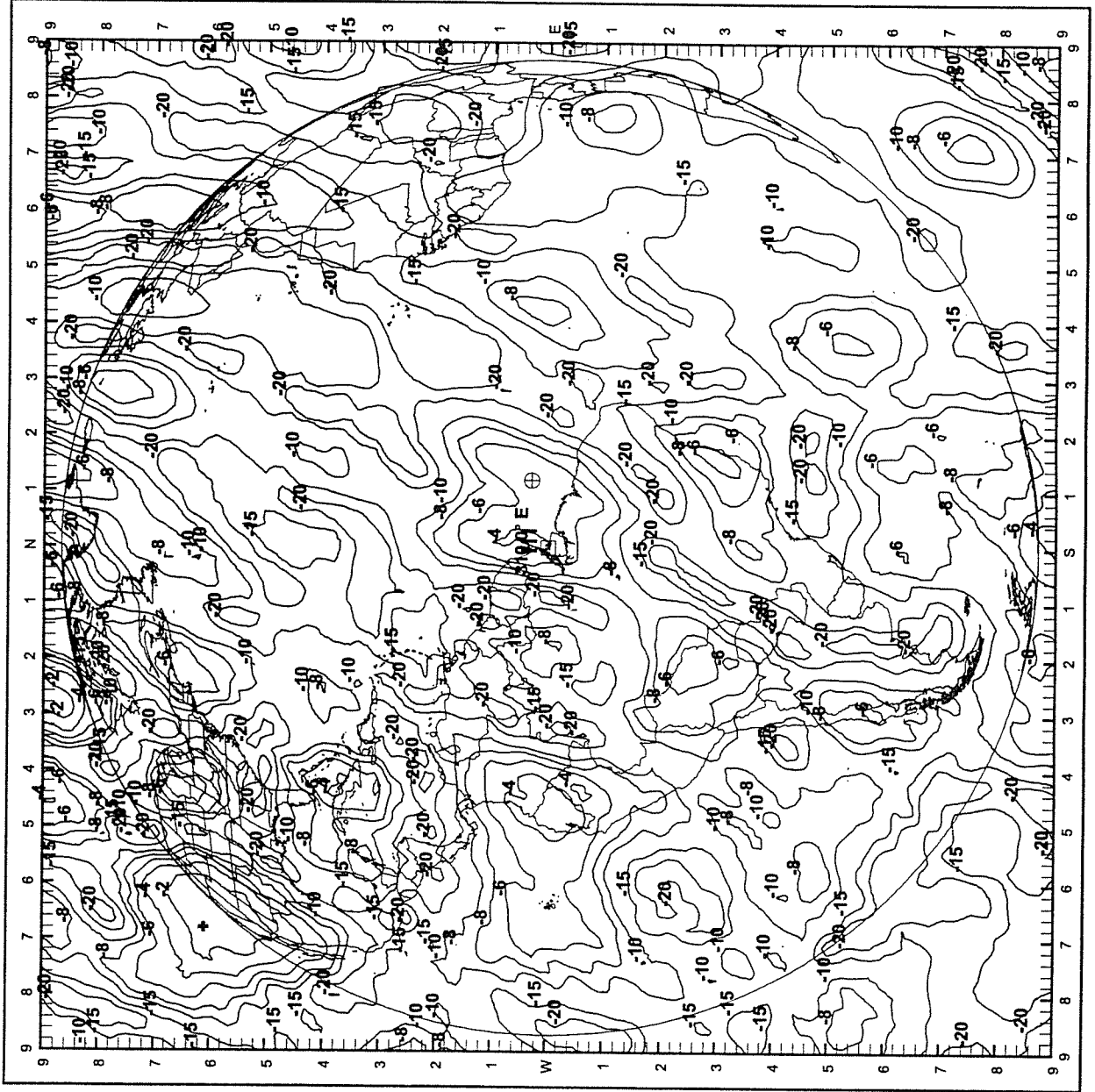
Peak Gain (Downlink X-pol) (See +)  
 HI : -3.3 dBi

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

Beam Frequencies  
 HI : 3924

Polarization  
 HI : Circular LHCP

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



Plot Date: 11 April 2002  
 acp2devproj01.apr

View : Orthographic 310.0° E  
 Status : INTELSAT APPROVED



INTELSAT 705 at 310.00°E Antenna Coverage  
S/C Platform Bias : 1.20°E 0.30°N  
YAW : 0.00°

Peak Gain (Downlink X-pol) (See +)  
H2 : 2.1 dBi

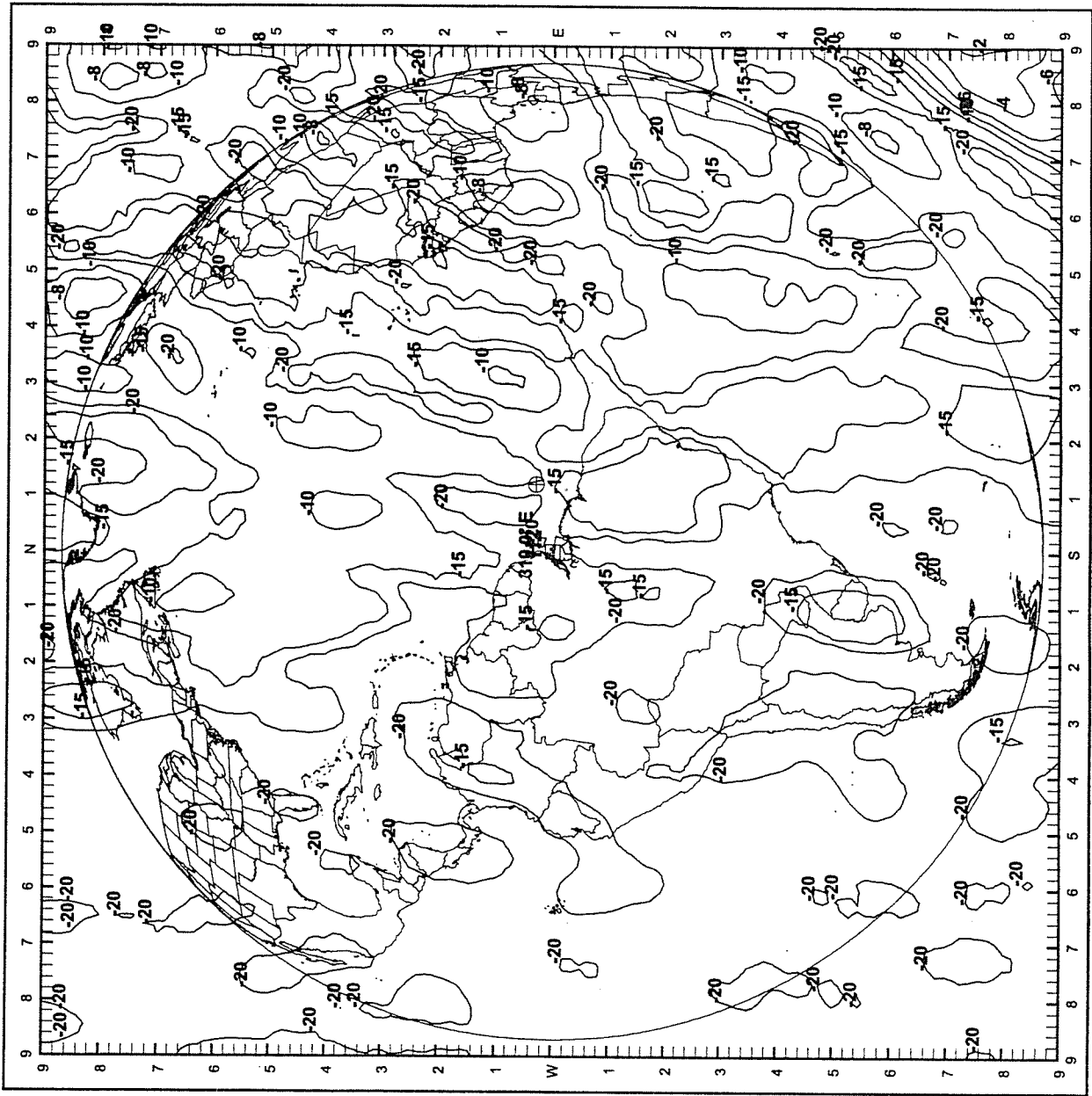
Contour Levels  
H2 : -2, -4, -6, -8, -10, -15, -20 dB

Beam Frequencies  
H2 : 3924

Polarization  
H2 : Circular LHCP

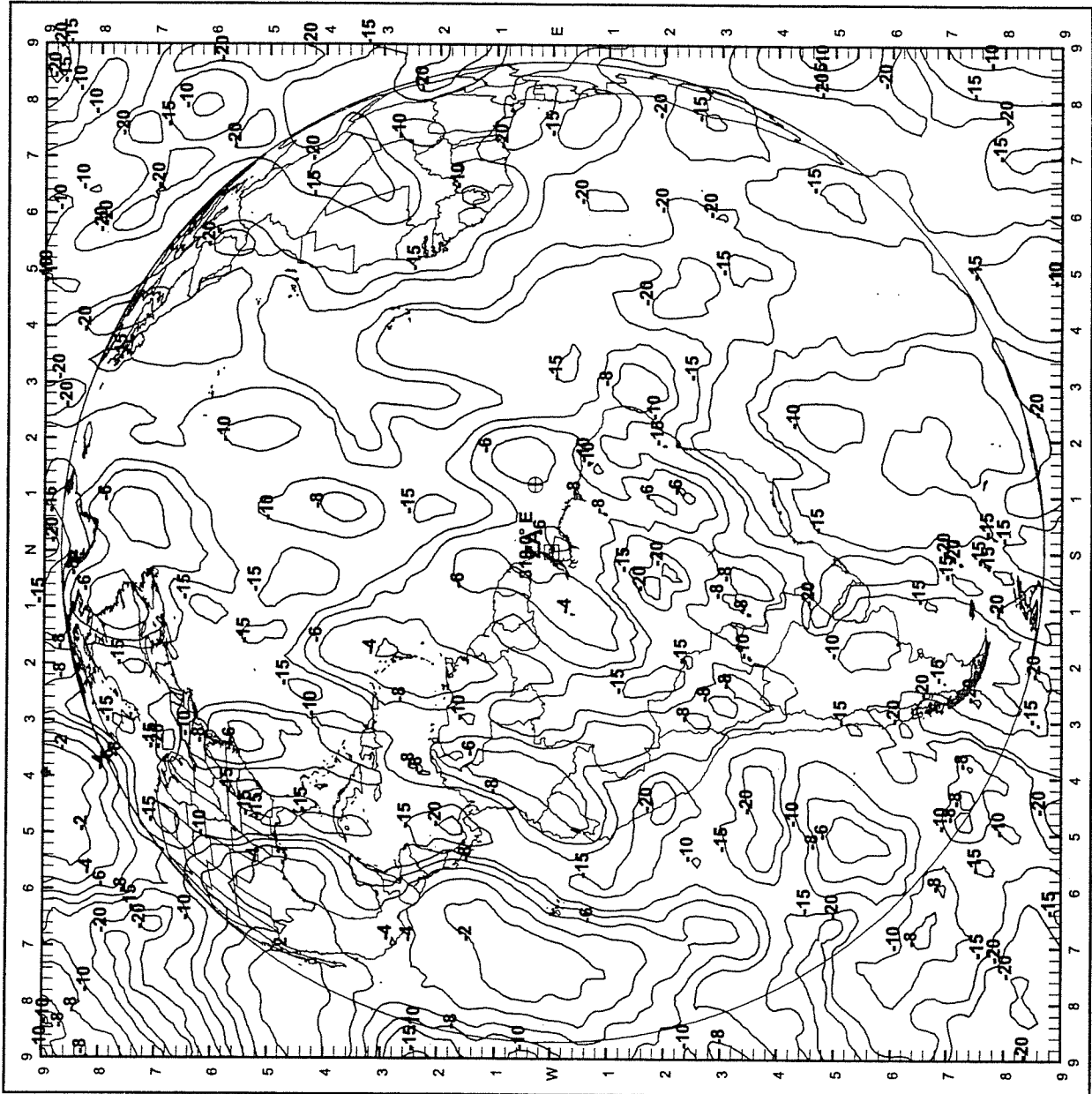
Square : Sub-Satellite Point

Circle : Sat.Ant.Platform Bias



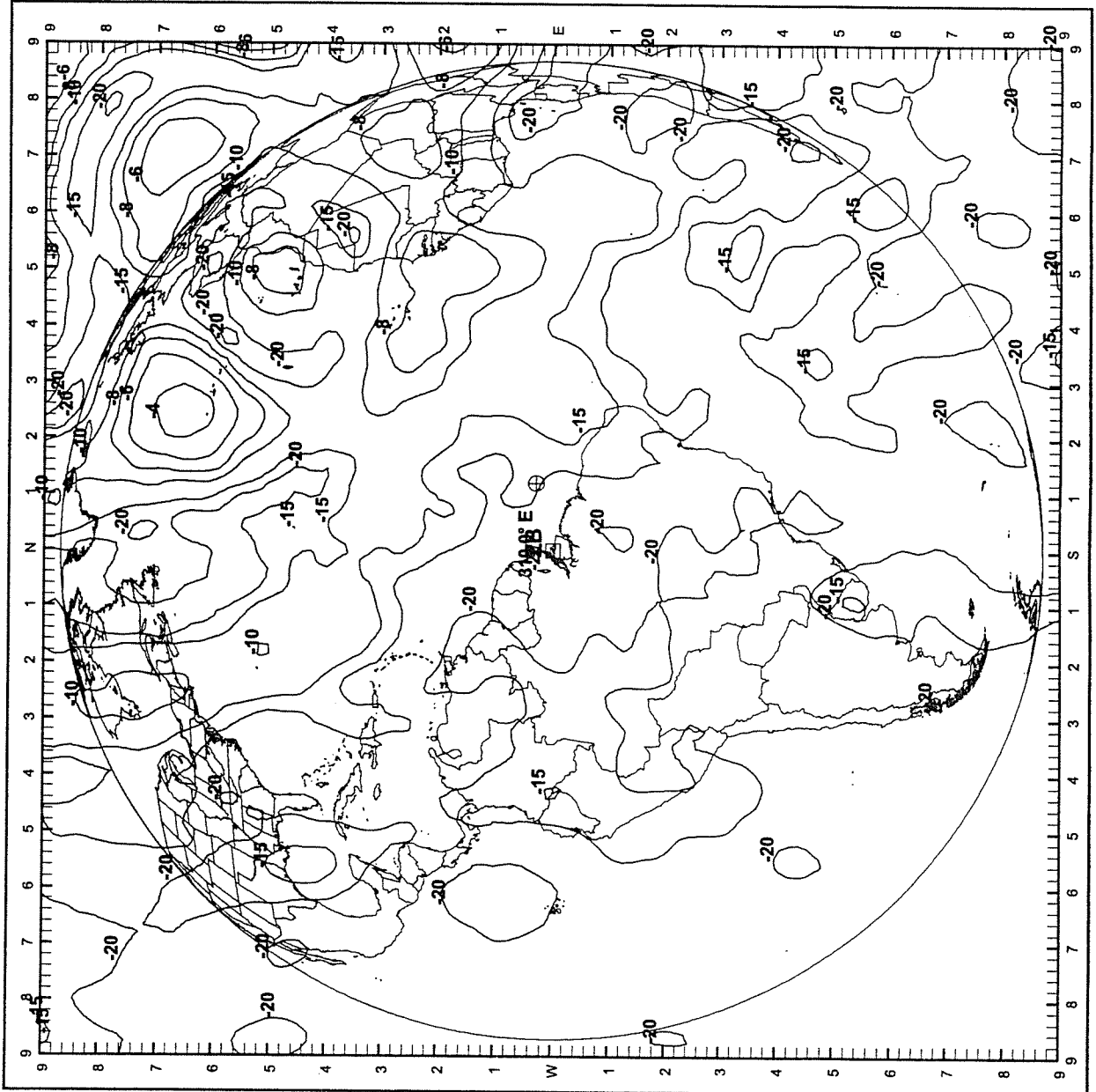


INTELSAT 705 at 310.00°E Antenna Coverage  
S/C Platform Bias : 1.20°E 0.30°N  
YAW : 0.00°  
Peak Gain (Downlink X-pol) (See +)  
ZA : -2.5 dBi  
Contour Levels : -2, -4, -6, -8, -10, -15, -20 dB  
Beam Frequencies : 3924  
Polarization : Circular RHCP  
ZA : -2.5 dBi  
Square : Sub-Satellite Point  
Circle : Sat.Ant.Platform Bias



# Intelsat

INTELSAT 705 at 310.00°E Antenna Coverage  
 S/C Platform Bias : 1.20°E 0.30°N  
 YAW : 0.00°  
 Peak Gain (Downlink X-pol) (See +)  
 ZB : 2.3 dBi  
 Contour Levels : -2, -4, -6, -8, -10, -15, -20 dB  
 Beam Frequencies : 3924  
 Polarization : Circular RHCP  
 ZB : Sub-Satellite Point  
 Square : Sat.Ant.Platform Bias  
 Circle :



# Intelsat.

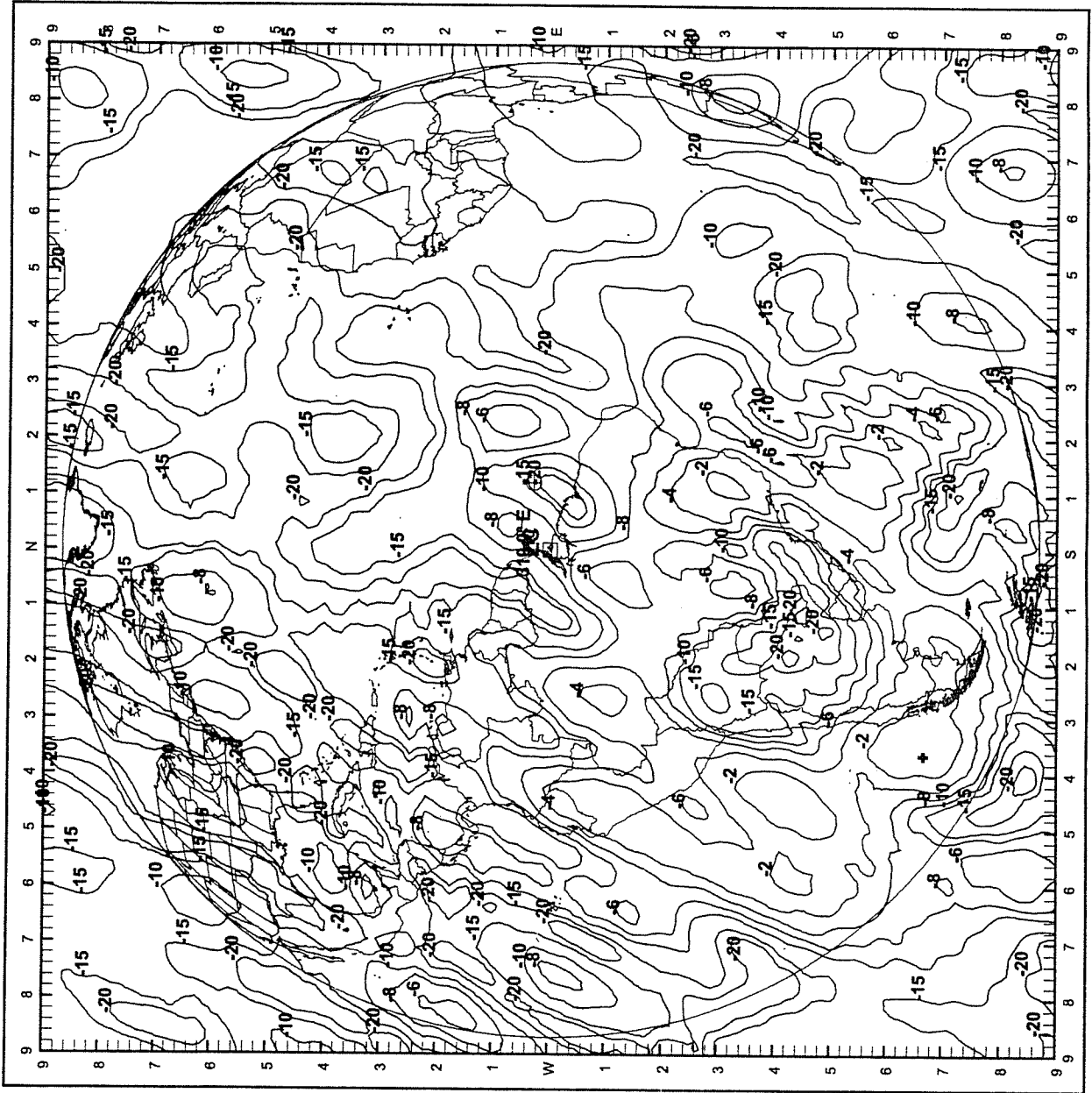
INTELSAT 705 at 310.00°E Antenna Coverage  
 S/C Platform Bias : 1.20°E 0.30°N  
 YAW : 0.00°  
 Peak Gain (Downlink X-pol) (See +)  
 ZC : -1.4 dBi

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

Beam Frequencies  
 ZC : 3924

Polarization  
 ZC : Circular RHCP

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





INTELSAT 705 at 310.00°E Antenna Coverage  
S/C Platform Bias : 1.20°E 0.30 N  
YAW : 0.00°

Peak Gain (Downlink X-pol) (See +)  
ZD : 1.6 dBi

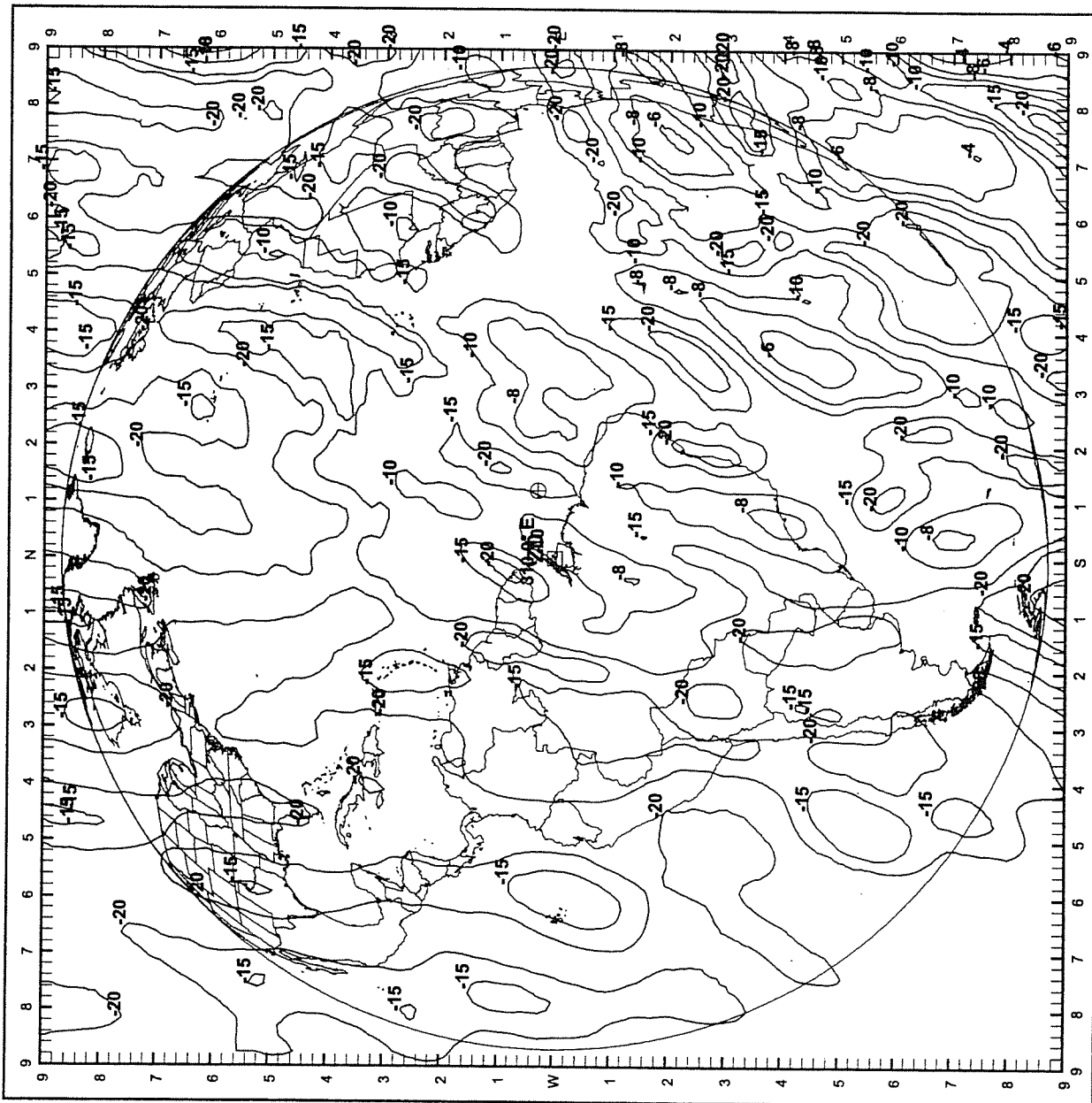
Contour Levels  
ZD : -2, -4, -6, -8, -10, -15,  
-20 dB

Beam Frequencies  
ZD : 3924

Polarization  
ZD : Circular RHCP

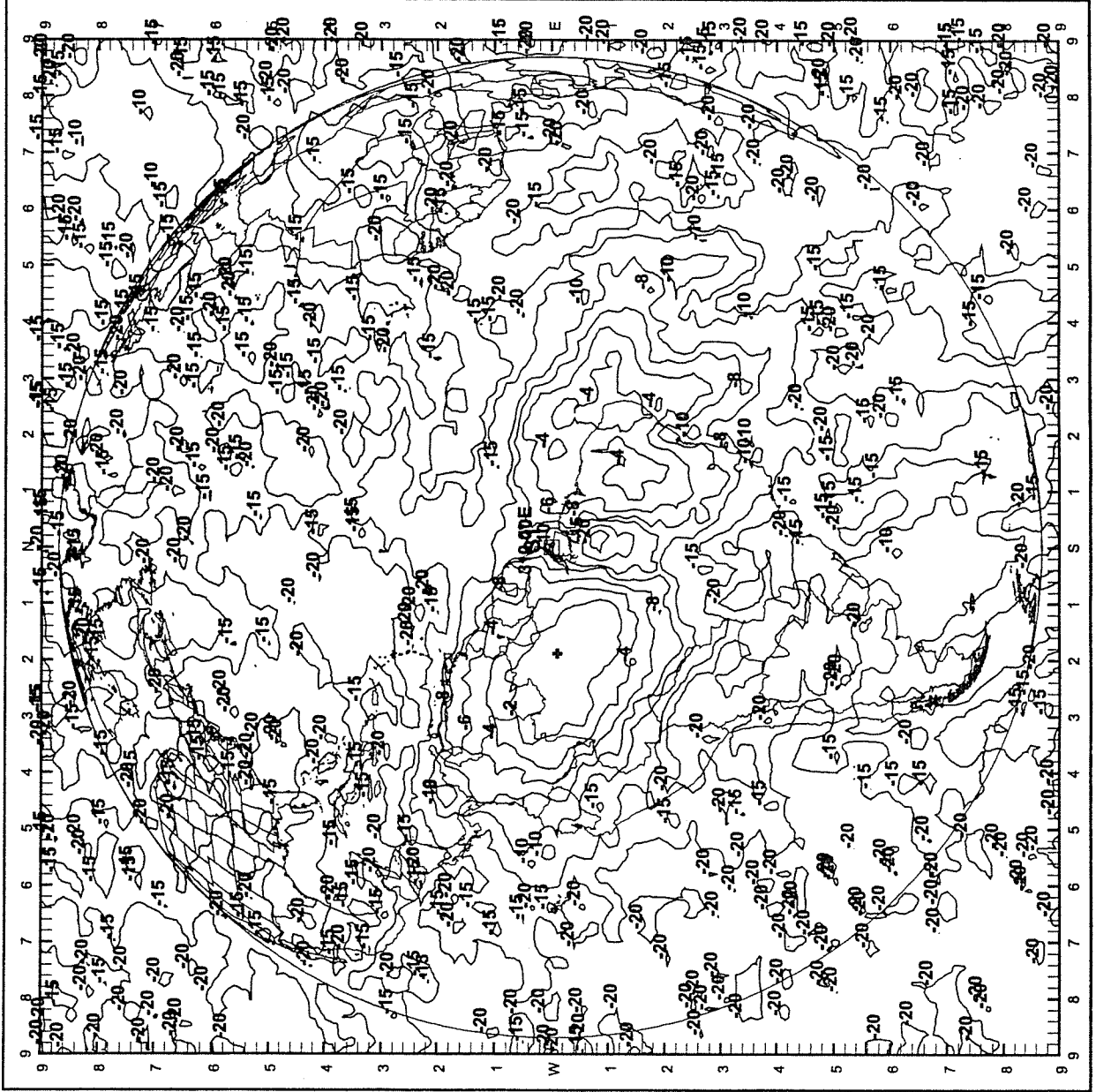
Square : Sub-Satellite Point

Circle : Sat.Ant.Platform Bias



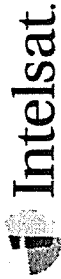


INTELSAT 705 at 310.00°E Antenna Coverage  
S/C Platform Bias : 1.20°E 0.30°N  
YAW : 0.00°  
Antenna Pointing : 0.05°E 0.69°S  
S1 :  
Peak Gain (Downlink X-pol) (See +)  
S1 : 8.9 dBi  
Contour Levels : -2, -4, -6, -8, -10, -15, -20 dB  
S1 :  
Beam Frequencies : 11174  
S1 :  
Polarization : Linear Horizontal  
S1 :  
Square : Sub-Satellite Point

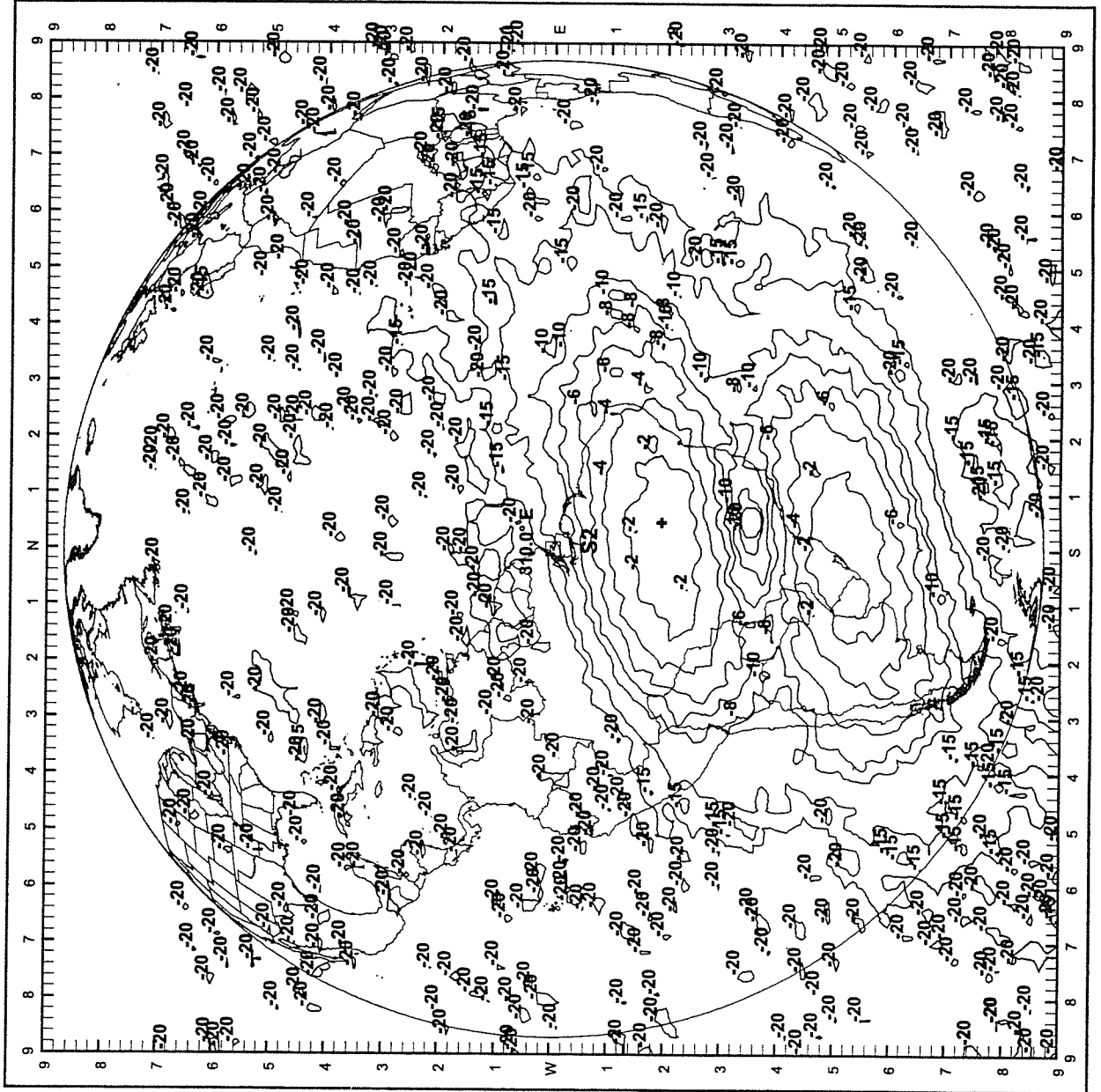


Plot Date: 11 April 2002  
acp2devproj61.apr

View : Orthographic 310.0° E  
Status : INTELSAT APPROVED



INTELSAT 705 at 310.00°E Antenna Coverage  
S/C Platform Bias : 1.20°E 0.30°N  
YAW : 0.00°  
Antenna Pointing : 0.50°E 3.40°S  
Peak Gain (Downlink X-pol) (See +)  
S2 : 8.0 dBi  
Contour Levels : -2, -4, -6, -8, -10, -15, -20 dB  
Beam Frequencies : 11075  
Polarization : Linear Vertical  
Square : Sub-Satellite Point







INTELSAT 705 at 310.00°E Antenna Coverage  
S/C Platform Bias : 1.20°E 0.30°N  
YAW : 0.00°  
Antenna Pointing  
S3 : 3.30°W 0.90°N

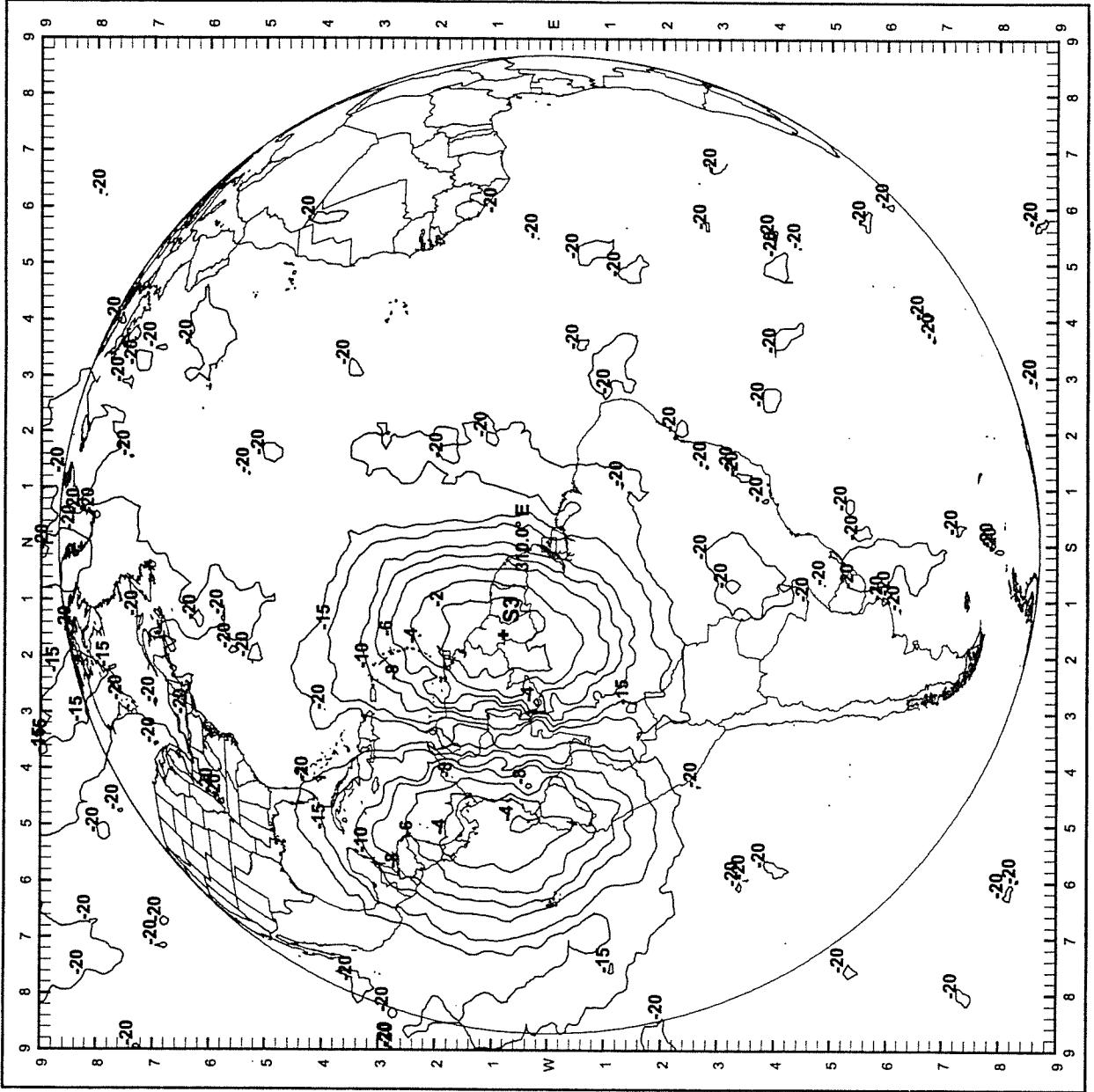
Peak Gain (Downlink X-pol) (See +)  
S3 : 9.6 dBi

Contour Levels  
S3 : -2, -4, -6, -8, -10, -15, -20 dB

Beam Frequencies  
S3 : 11174

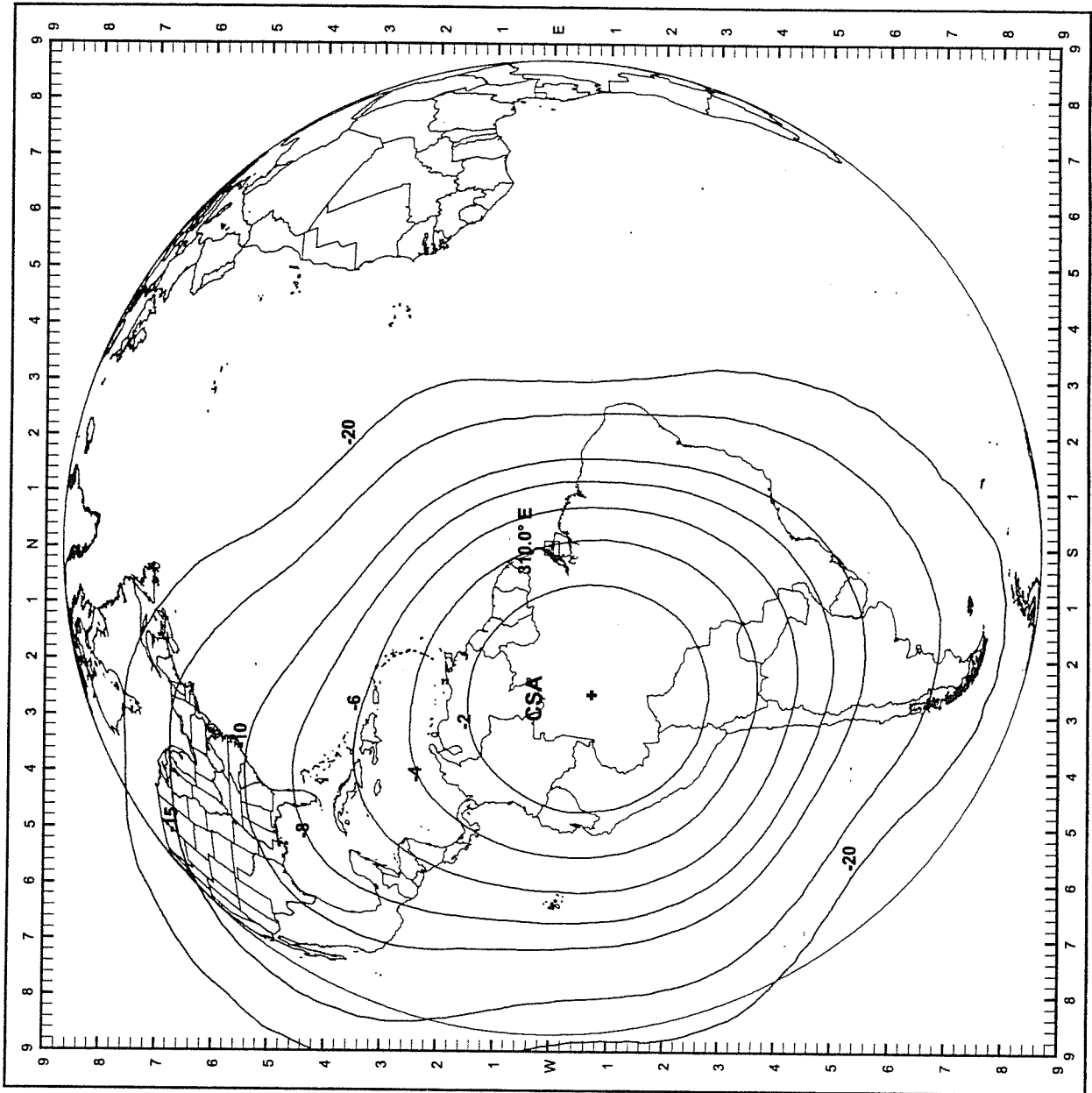
Polarization  
S3 : Linear Horizontal

Square : Sub-Satellite Point



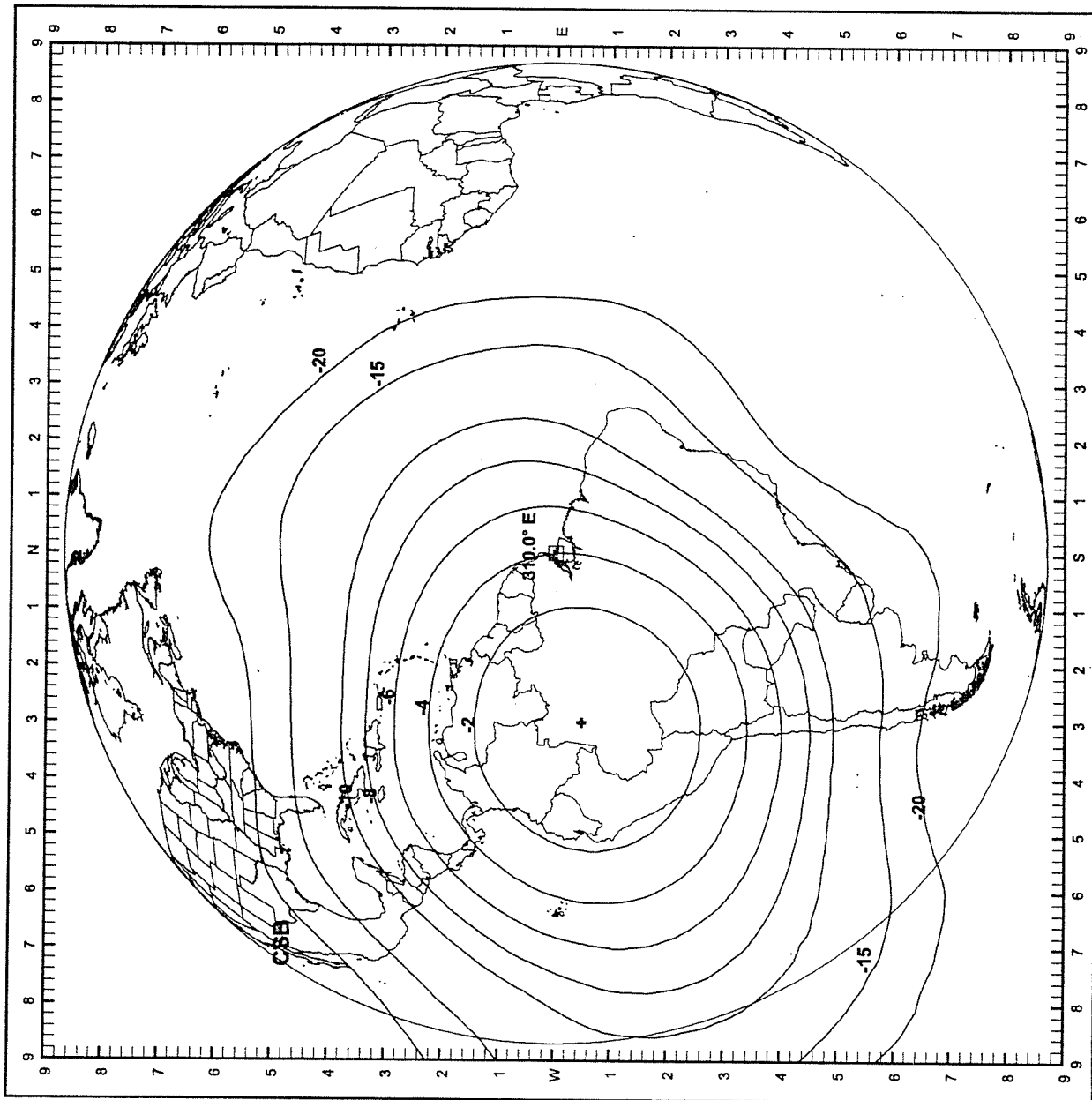


INTELSAT 705 at 310.00°E Antenna Coverage  
S/C Platform Bias : 1.20°E 0.30°N  
YAW : 0.00°  
Antenna Pointing : 2.95°W 0.88°S  
CSA :  
Peak Gain (Uplink Co-pol) (See +)  
CSA : 30.3 dBi  
Beam Peak G/T : 2.7 dB/K  
CSA :  
Contour Levels : -2, -4, -6, -8, -10, -15, -20 dB  
CSA :  
Beam Frequencies : 6320  
CSA :  
Polarization : Circular LHCP  
CSA :  
Square : Sub-Satellite Point



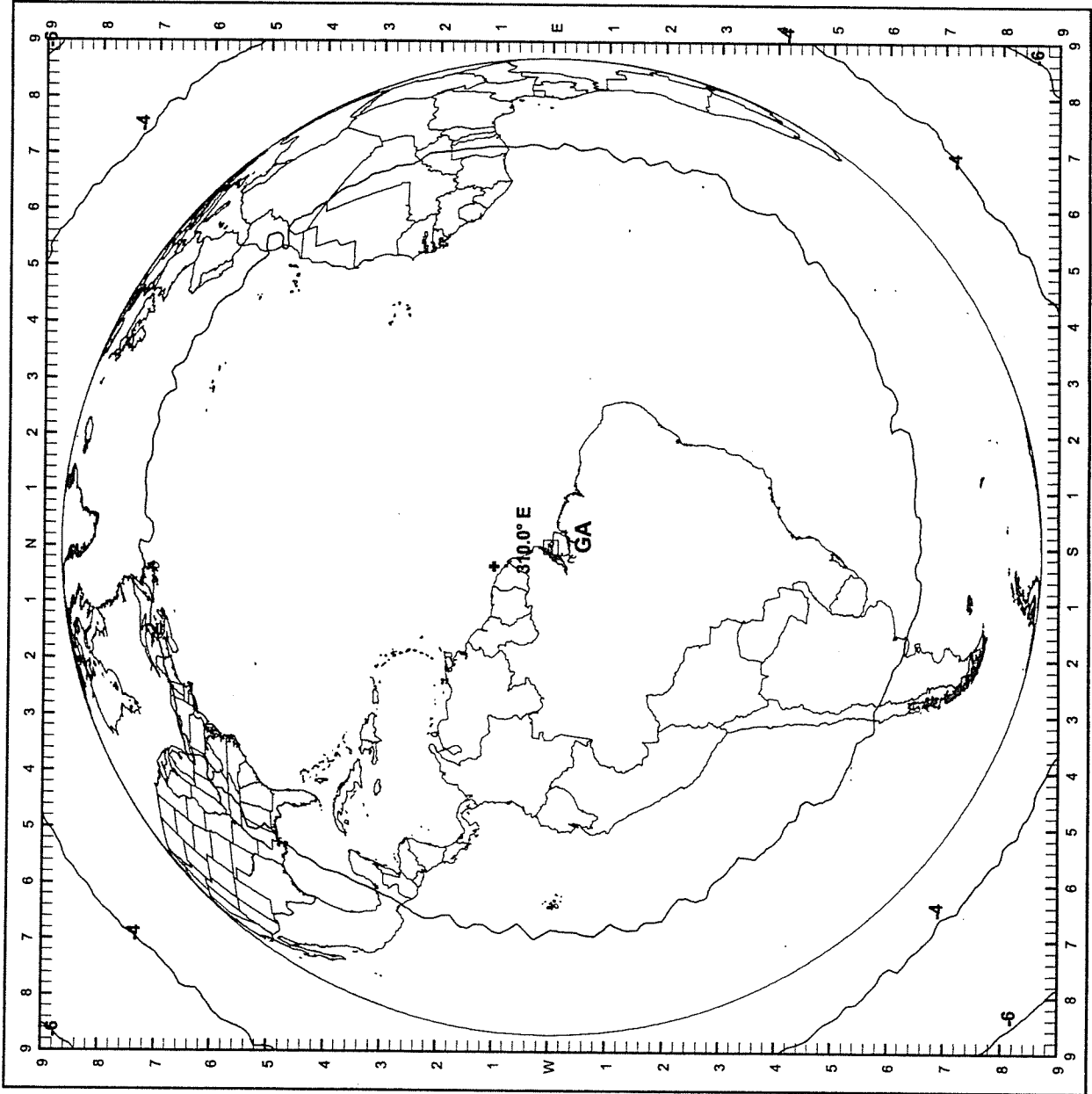


INTELSAT 705 at 310.00°E Antenna Coverage  
S/C Platform Bias : 1.20°E 0.30°N  
YAW : 0.00°  
Antenna Pointing  
CSB : 2.95°W 0.88°S  
Peak Gain (Uplink Co-pol) (See +)  
CSB : 30.3 dBi  
Beam Peak G/T : 2.7 dB/K  
CSB  
Contour Levels : -2, -4, -6, -8, -10, -15, -20 dB  
CSB  
Beam Frequencies : 6320  
CSB  
Polarization : Circular RHCP  
CSB  
Square : Sub-Satellite Point



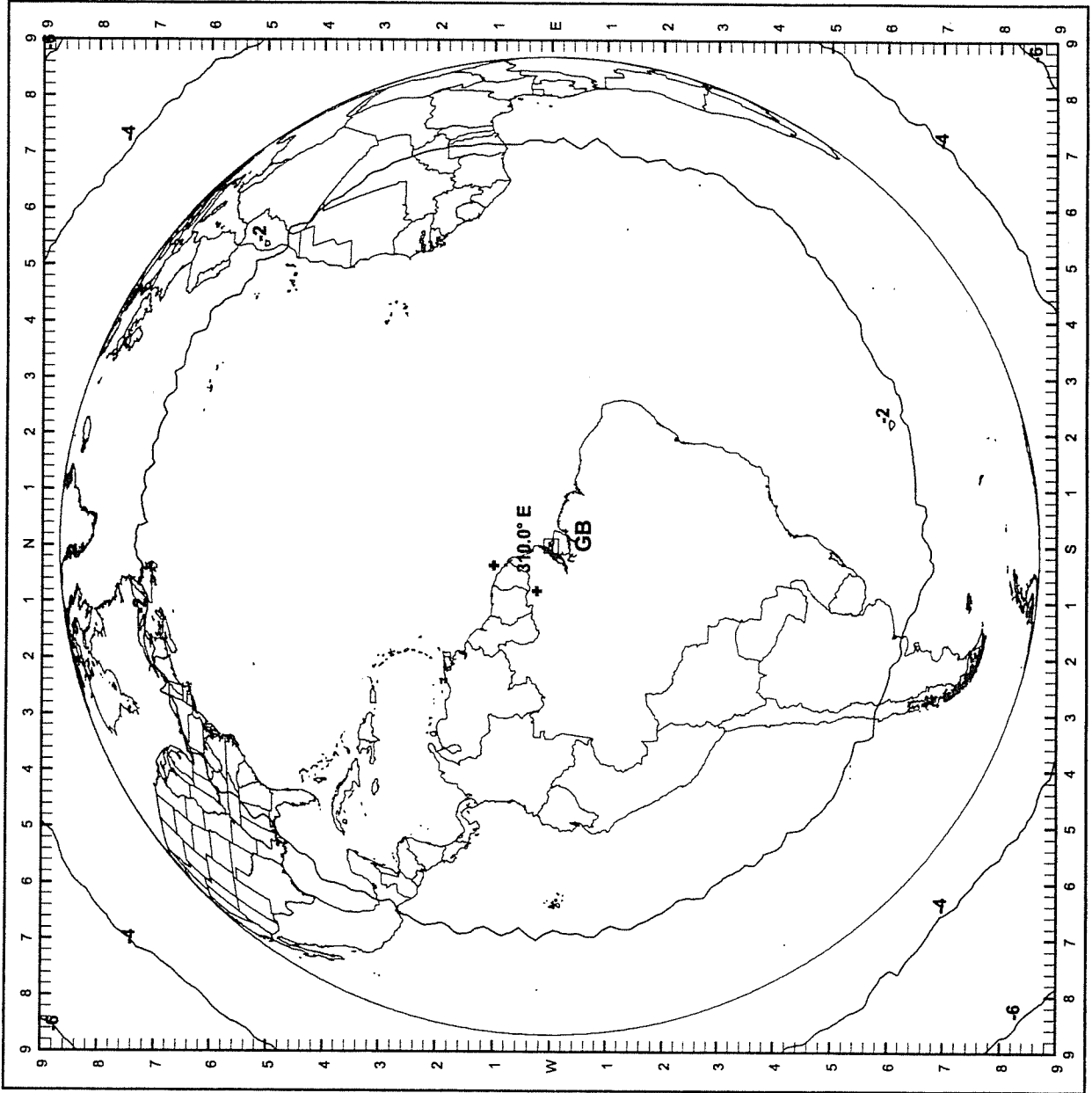


INTELSAT 705 at 310.00°E Antenna Coverage  
S/C Platform Bias : 1.20°E 0.30°N  
YAW : 0.00°  
Antenna Pointing  
GA : 0.00°E 0.30°N  
Peak Gain (Uplink Co-pol) (See +)  
GA : 20.3 dBi  
Beam Peak G/T  
GA : -7.3 dB/K  
Contour Levels  
GA : -2, -4, -6, -8, -10, -15, -20 dB  
Beam Frequencies  
GA : 6320  
Polarization  
GA : Circular LHCP  
Square : Sub-Satellite Point





INTELSAT 705 at 310.00°E Antenna Coverage  
S/C Platform Bias : 1.20°E 0.30°N  
YAW : 0.00°  
Antenna Pointing : 0.00°E 0.30°N  
Peak Gain (Uplink Co-pol) (See +)  
GB : 20.3 dBi  
Beam Peak G/T : -7.3 dB/K  
Contour Levels : -2, -4, -6, -8, -10, -15, -20 dB  
Beam Frequencies : 6320  
Polarization : Circular RHCP  
GB :  
Square : Sub-Satellite Point





INTELSAT 705 at 310.00°E Antenna Coverage  
S/C Platform Bias : 1.20°E 0.30°N  
YAW : 0.00°

Peak Gain (Uplink Co-pol) (See +)  
H1 : 24.3 dBi

Beam Peak G/T  
H1 : -2.9 dB/K

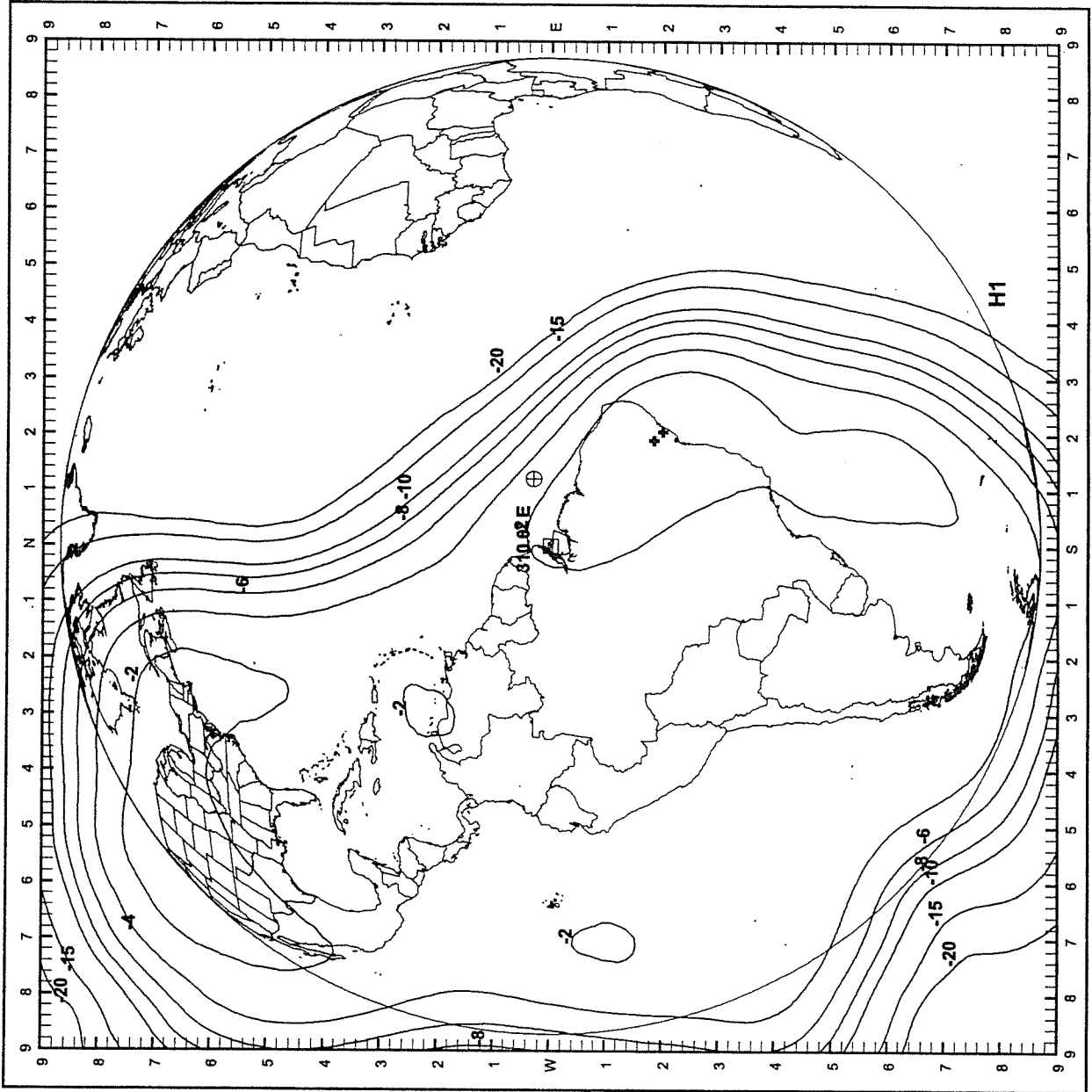
Contour Levels  
H1 : -2, -4, -6, -8, -10, -15, -20 dB

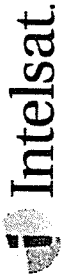
Beam Frequencies  
H1 : 6149

Polarization  
H1 : Circular LHCP

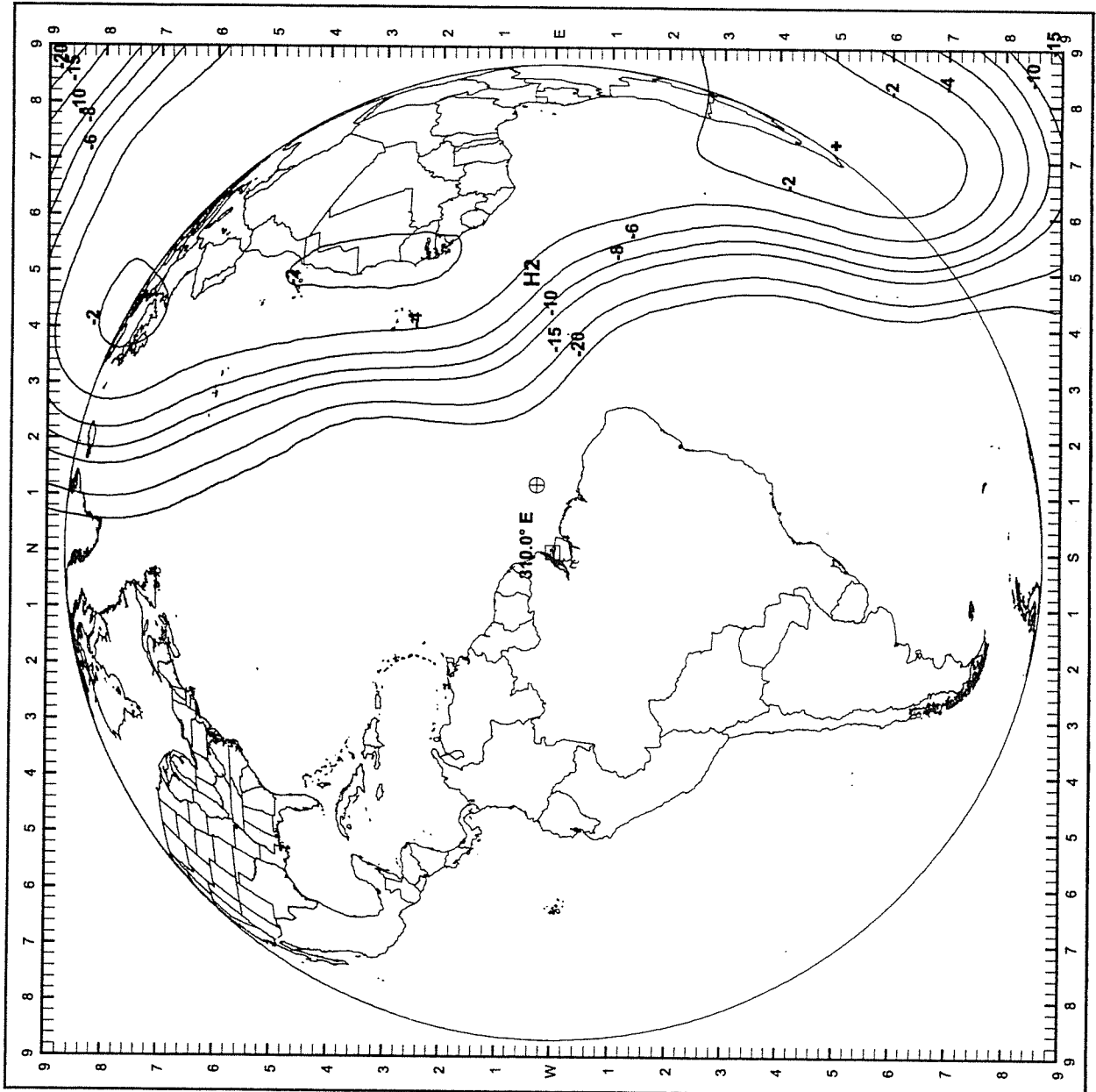
Square : Sub-Satellite Point

Circle : Sat.Ant.Platform Bias





INTELSAT 705 at 310.00°E Antenna Coverage  
S/C Platform Bias : 1.20°E 0.30°N  
YAW : 0.00°  
Peak Gain (Uplink Co-pol) (See +)  
H2 : 26.0 dBi  
Beam Peak G/T  
H2 : -1.3 dB/K  
Contour Levels  
H2 : -2, -4, -6, -8, -10, -15, -20 dB  
Beam Frequencies  
H2 : 6149  
Polarization  
H2 : Circular LMCP  
Square : Sub-Satellite Point  
Circle : Sat.Ant.Platform Bias





INTELSAT 705 at 310.00°E Antenna Coverage  
 S/C Platform Bias : 1.20°E 0.30°N  
 YAW : 0.00°

Peak Gain (Uplink Co-pol) (See +)  
 ZD : 27.1 dBi  
 ZA : 26.7 dBi

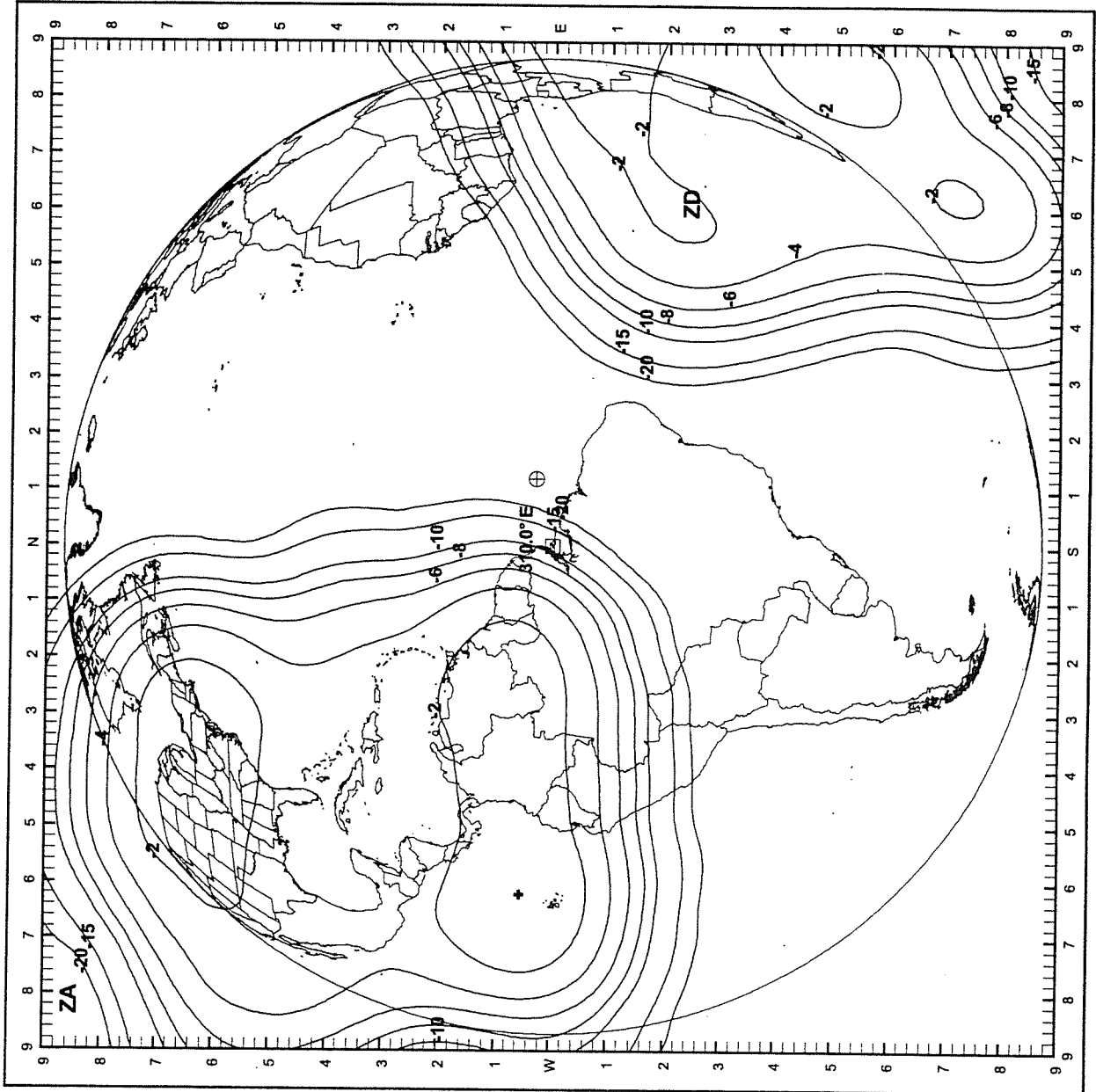
Beam Peak G/T  
 ZD : 0.0 dB/K  
 ZA : -0.4 dB/K

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

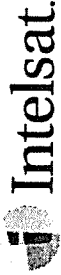
Beam Frequencies  
 ZD : 6149  
 ZA : 6149

Polarization  
 ZD : Circular RHCP  
 ZA : Circular RHCP

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







INTELSAT 705 at 310.00°E Antenna Coverage  
 S/C Platform Bias : 1.20°E 0.30°N  
 YAW : 0.00°

Peak Gain (Uplink Co-pol) (See +)  
 ZC : 28.0 dBi  
 ZB : 27.9 dBi

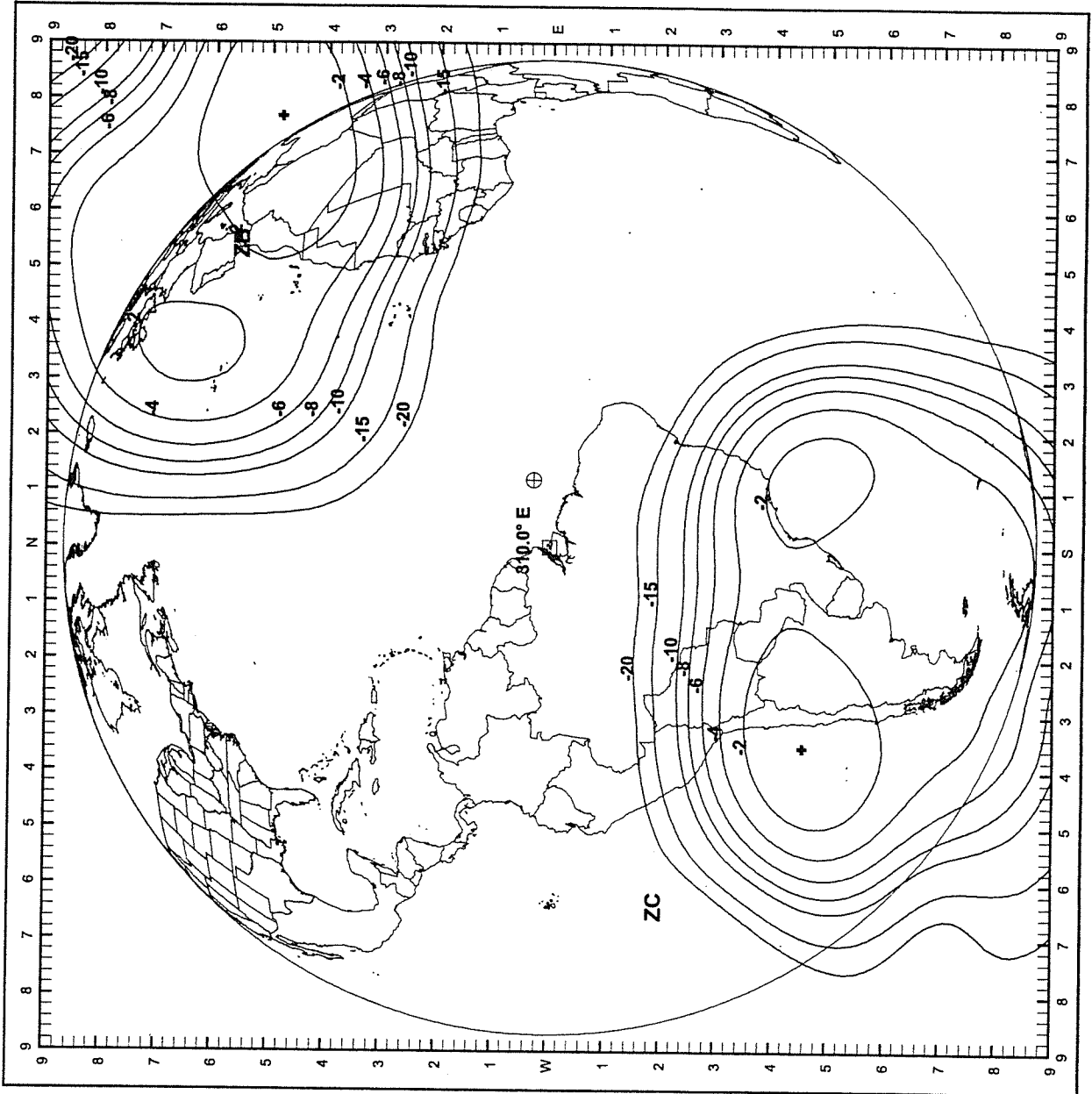
Beam Peak G/T  
 ZC : 0.8 dB/K  
 ZB : 0.8 dB/K

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

Beam Frequencies  
 ZC : 6149  
 ZB : 6149

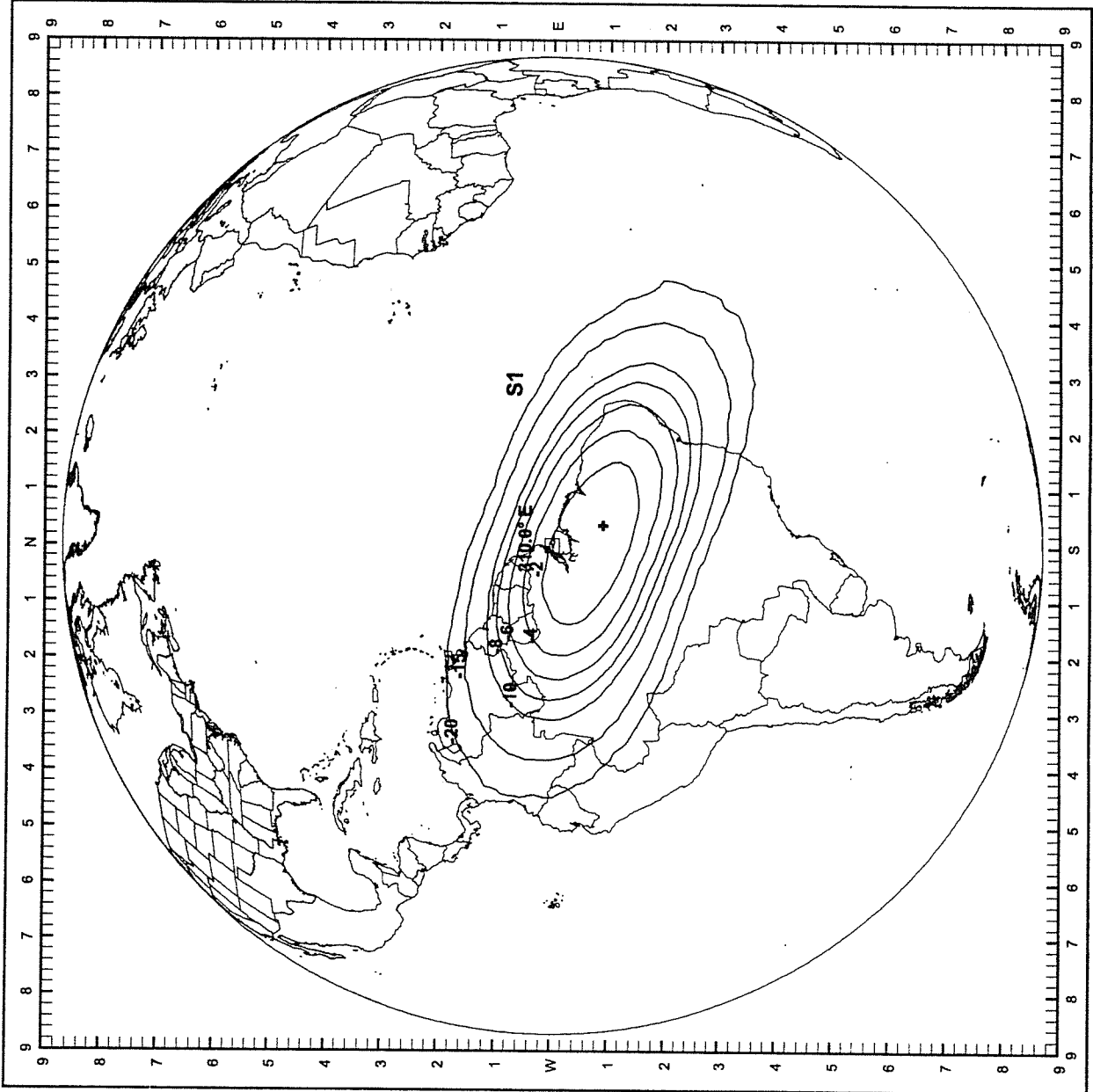
Polarization  
 ZC : Circular RHCP  
 ZB : Circular RHCP

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



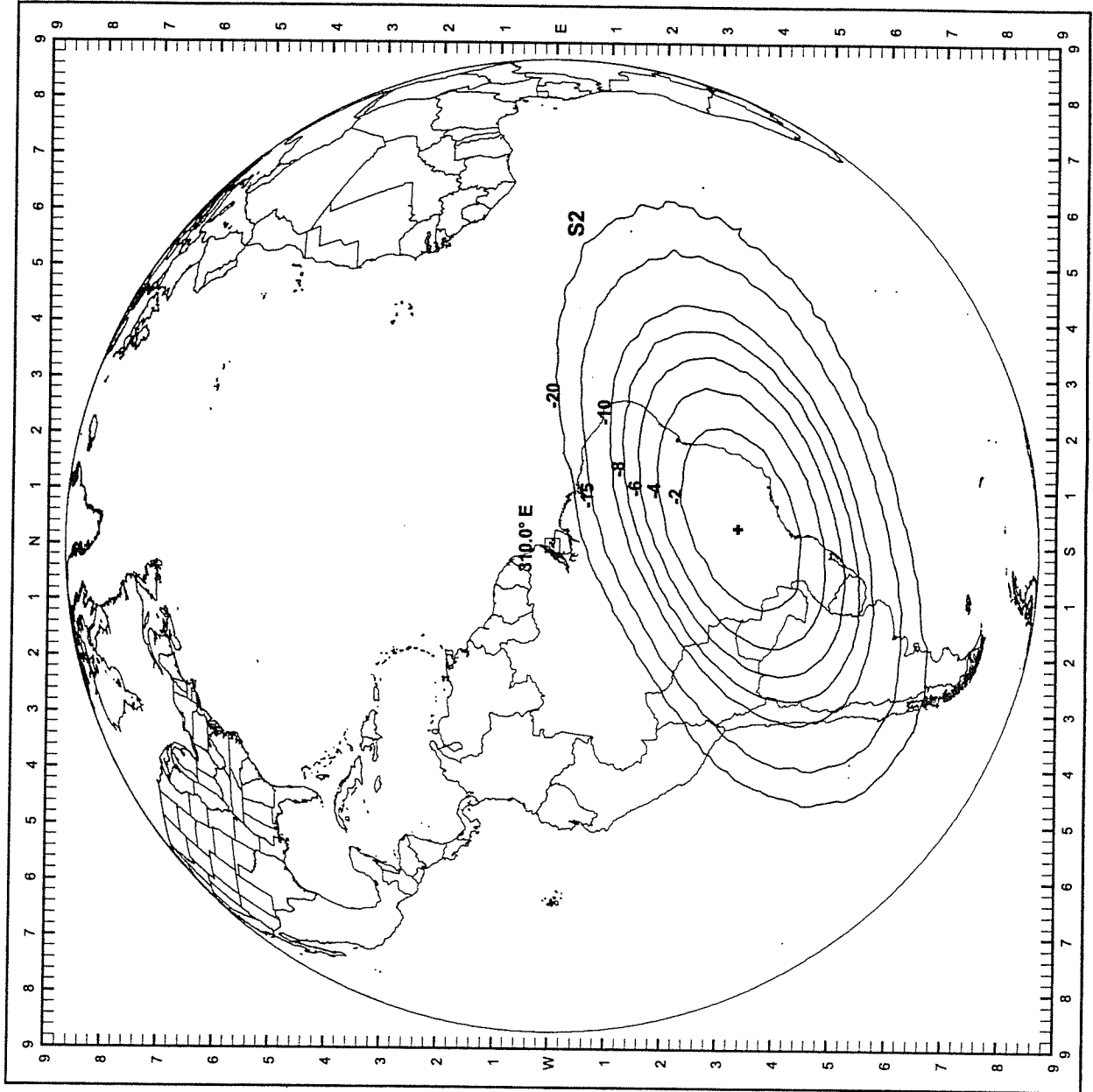


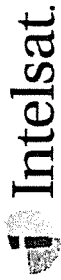
INTELSAT 705 at 310.00°E Antenna Coverage  
S/C Platform Bias : 1.20°E 0.30°N  
YAW : 0.00°  
Antenna Pointing  
S1 : 0.05°E 0.69°S  
Peak Gain (Uplink Co-pol) (See +)  
S1 : 36.9 dBi  
Beam Peak G/T : 9.4 dB/K  
Contour Levels : -2, -4, -6, -8, -10, -15, -20 dB  
Beam Frequencies : 14224  
Polarization : Linear Horizontal  
Square : Sub-Satellite Point



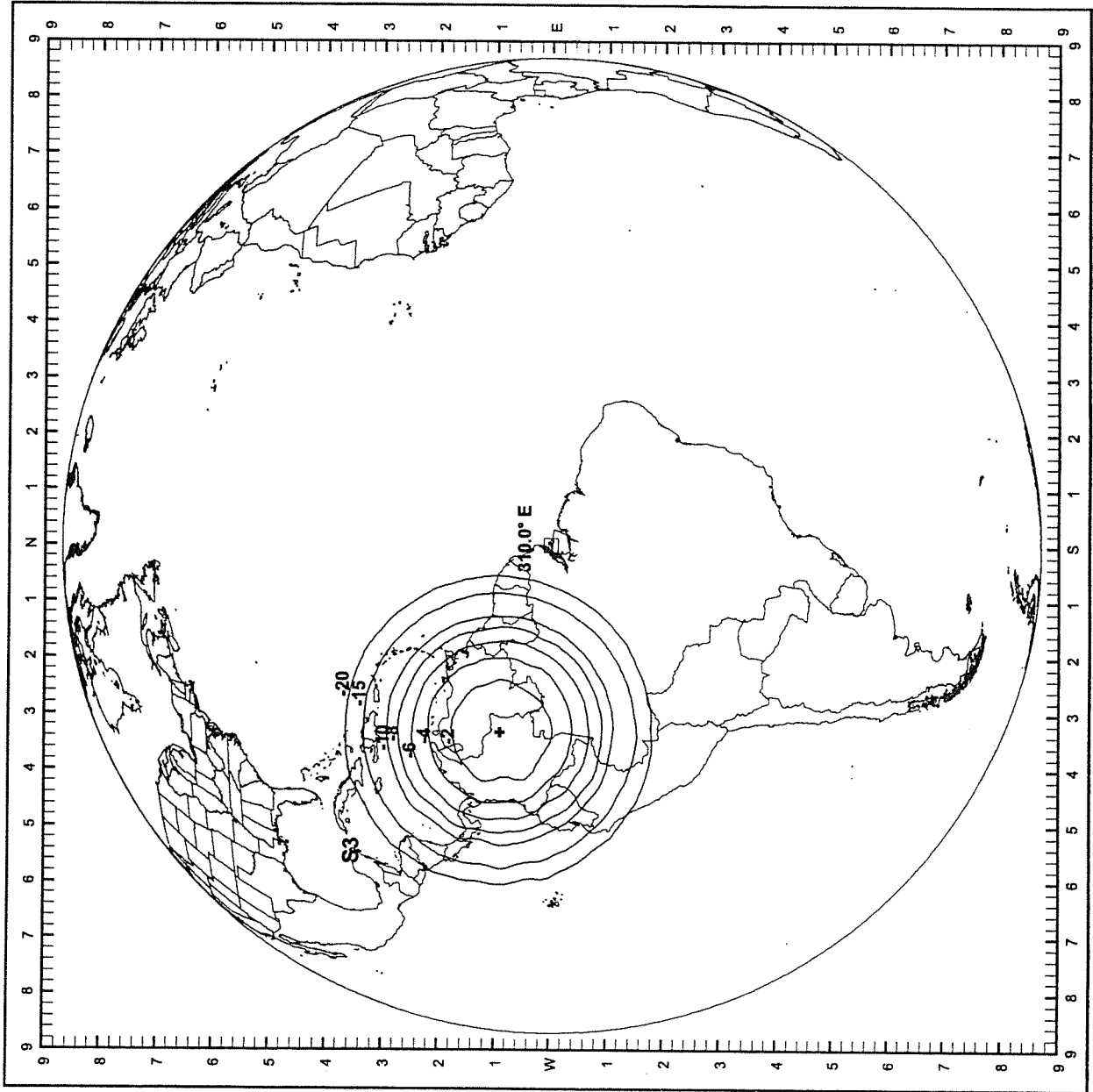


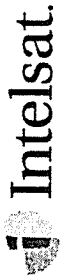
INTELSAT 705 at 310.00°E Antenna Coverage  
S/C Platform Bias : 1.20°E 0.30°N  
YAW : 0:00°  
Antenna Pointing  
S2 : 0.50°E 3.40°S  
Peak Gain (Uplink Co-pol) (See +)  
S2 : 34.9 dBi  
Beam Peak G/T : 7.0 dB/K  
Contour Levels  
S2 : -2, -4, -6, -8, -10, -15, -20 dB  
Beam Frequencies : 14224  
Polarization : Linear Vertical  
Square : Sub-Satellite Point



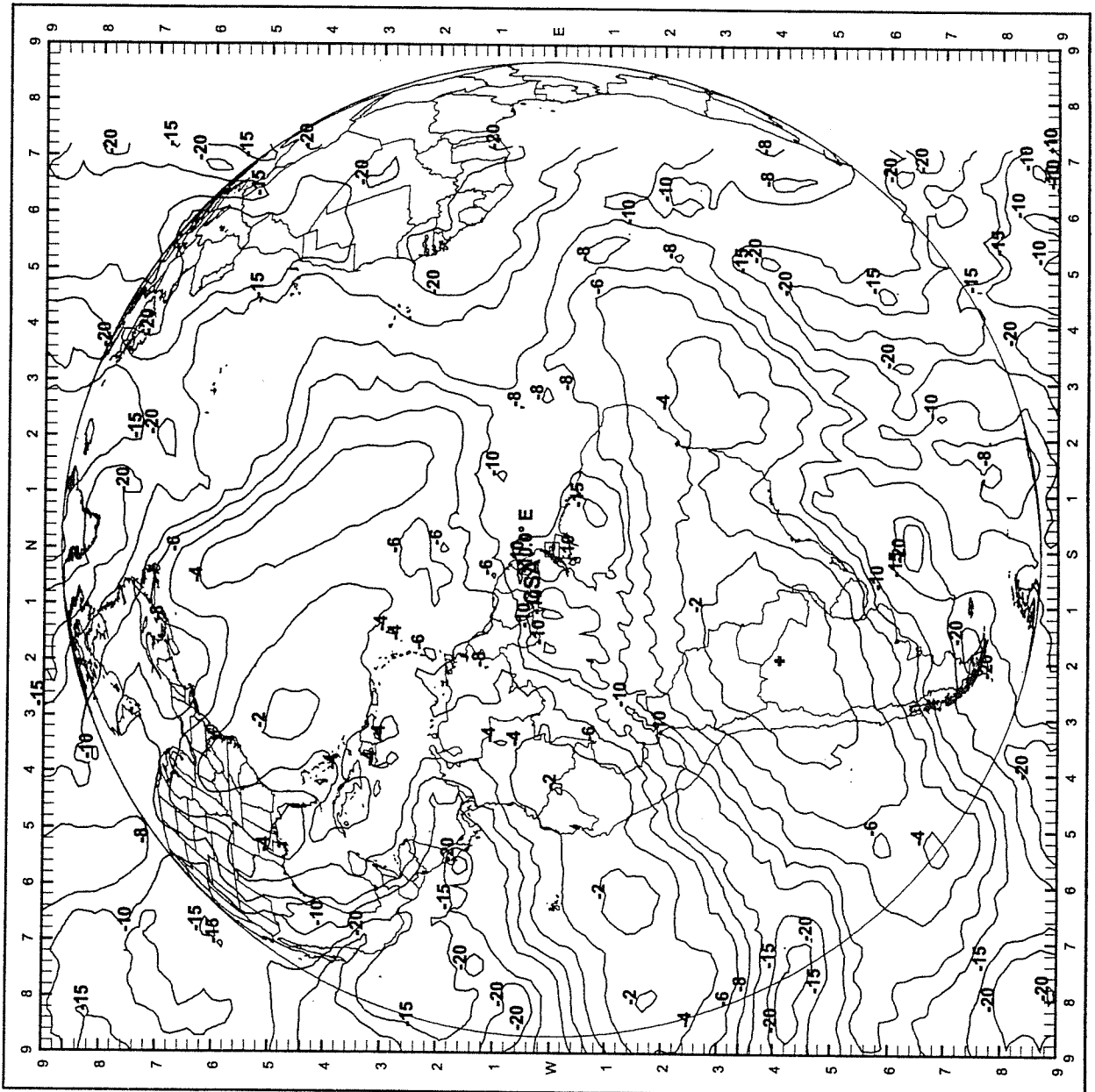


INTELSAT 705 at 310.00°E Antenna Coverage  
S/C Platform Bias : 1.20°E 0.30°N  
YAW : 0.00°  
Antenna Pointing S3 : 3.30°W 0.90°N  
Peak Gain (Uplink Co-pol) (See +)  
S3 : 37.9 dBi  
Beam Peak G/T S3 : 9.9 dB/K  
Contour Levels S3 : -2, -4, -6, -8, -10, -15, -20 dB  
Beam Frequencies S3 : 14224  
Polarization S3 : Linear Horizontal  
Square : Sub-Satellite Point



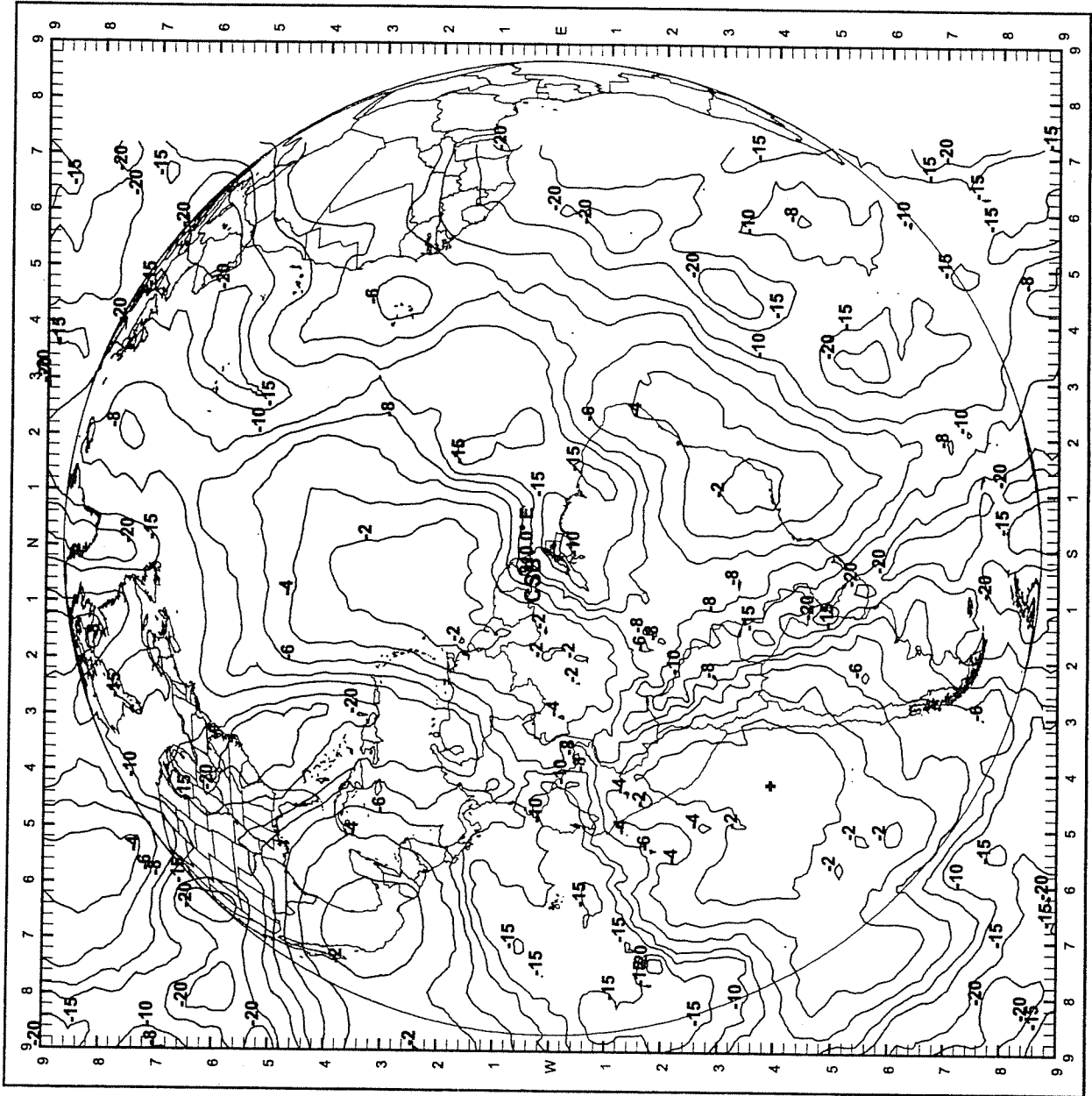


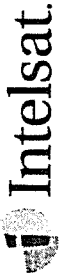
INTELSAT 705 at 310.00°E Antenna Coverage  
S/C Platform Bias : 1.20°E 0.30°N  
YAW : 0.00°  
Antenna Pointing : 2.95°W 0.88°S  
Peak Gain (Uplink X-pol) (See +)  
CSA : 1.9 dBi  
Contour Levels : -2, -4, -6, -8, -10, -15, -20 dB  
Beam Frequencies : 6320  
Polarization : Circular RHCP  
CSA : Sub-Satellite Point  
Square



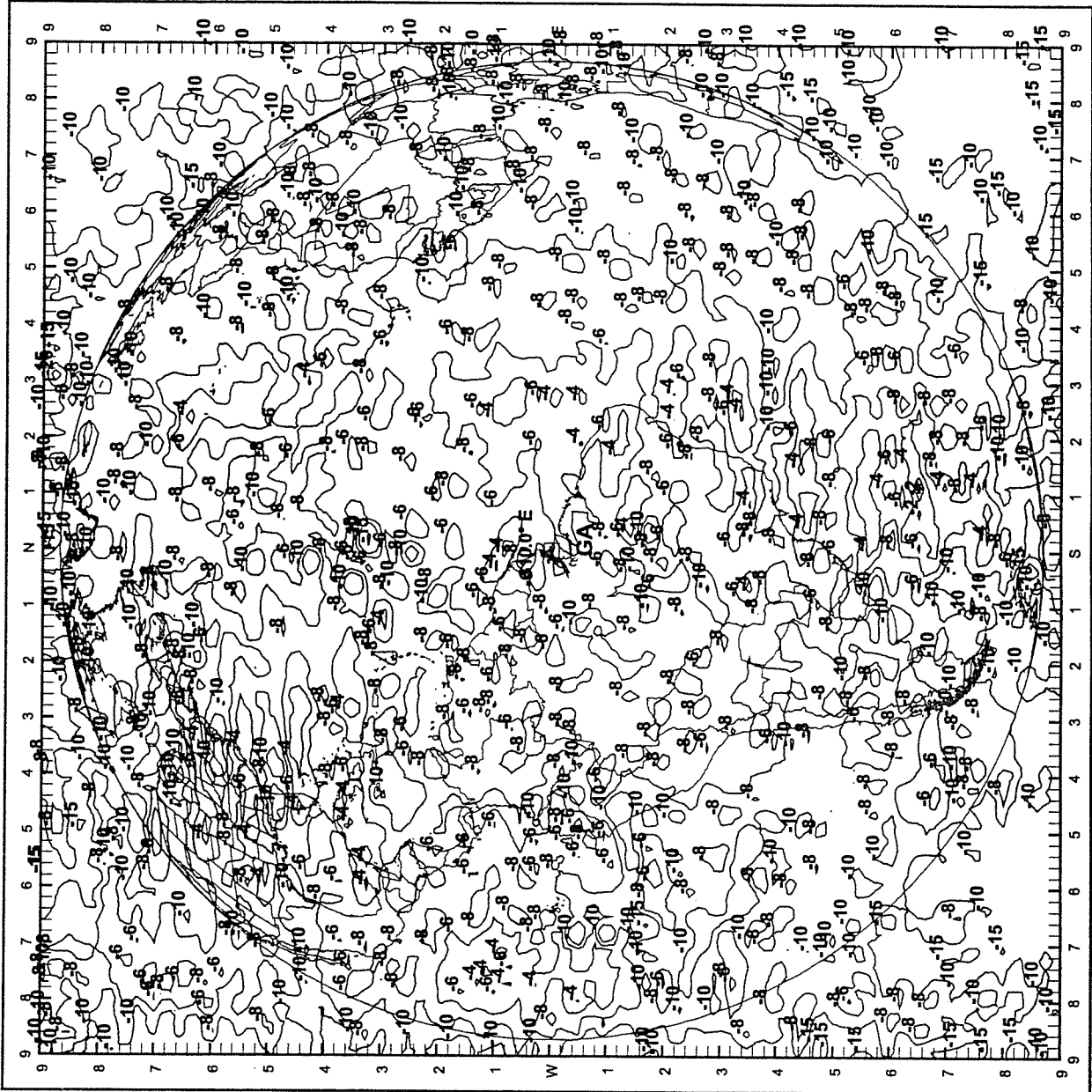


INTELSAT 705 at 310.00°E Antenna Coverage  
S/C Platform Bias : 1.20°E 0.30°N  
YAW : 0.00°  
Antenna Pointing : 2.95°W 0.88°S  
Peak Gain (Uplink X-pol) (See +)  
CSB : 0.6 dB  
Contour Levels : -2, -4, -6, -8, -10, -15, -20 dB  
Beam Frequencies : 6320  
Polarization : Circular LHCP  
CSB : Sub-Satellite Point  
Square : Sub-Satellite Point



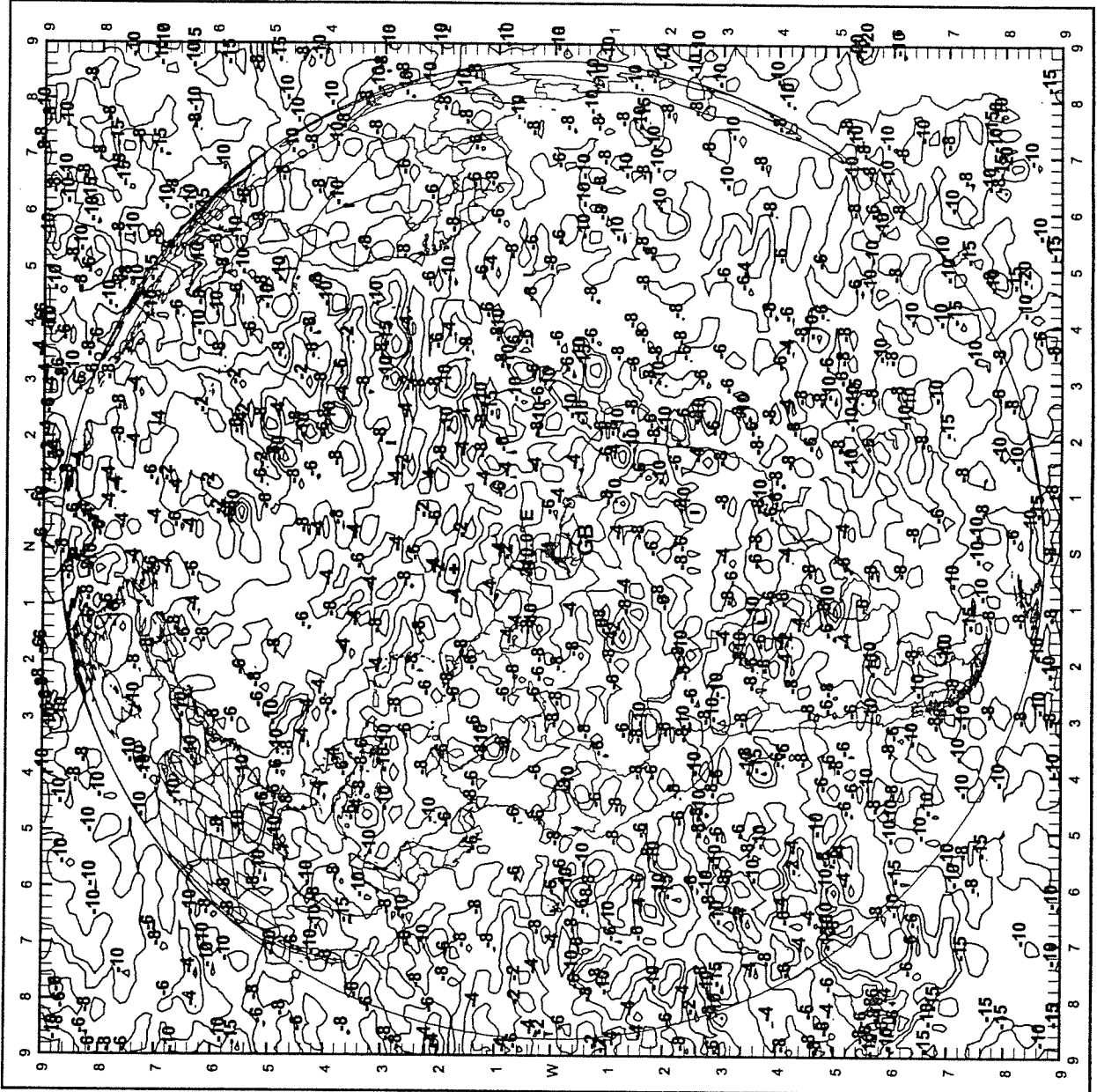


INTELSAT 705 at 310.00°E Antenna Coverage  
S/C Platform Bias : 1.20°E 0.30°N  
YAW : 0.00°  
Antenna Pointing : 0.00°E 0.30°N  
Peak Gain (Uplink X-pol) (See +)  
GA : -9.3 dBi  
Contour Levels : -2, -4, -6, -8, -10, -15, -20 dB  
Beam Frequencies : 6320  
Polarization : Circular RHCP  
Square : Sub-Satellite Point





INTELSAT 705 at 310.00°E Antenna Coverage  
S/C Platform Bias : 1.20°E 0.30°N  
YAW : 0.00°  
Antenna Pointing : 0.00°E 0.30°N  
Peak Gain (Uplink X-pol) (See +)  
GB : -11.8 dBi  
Contour Levels : -2, -4, -6, -8, -10, -15, -20 dB  
Beam Frequencies : 6320  
Polarization : Circular LHCP  
GB : Sub-Satellite Point







INTELSAT 705 at 310.00°E Antenna Coverage  
S/C Platform Bias : 1.20°E 0.30°N  
YAW : 0.00°

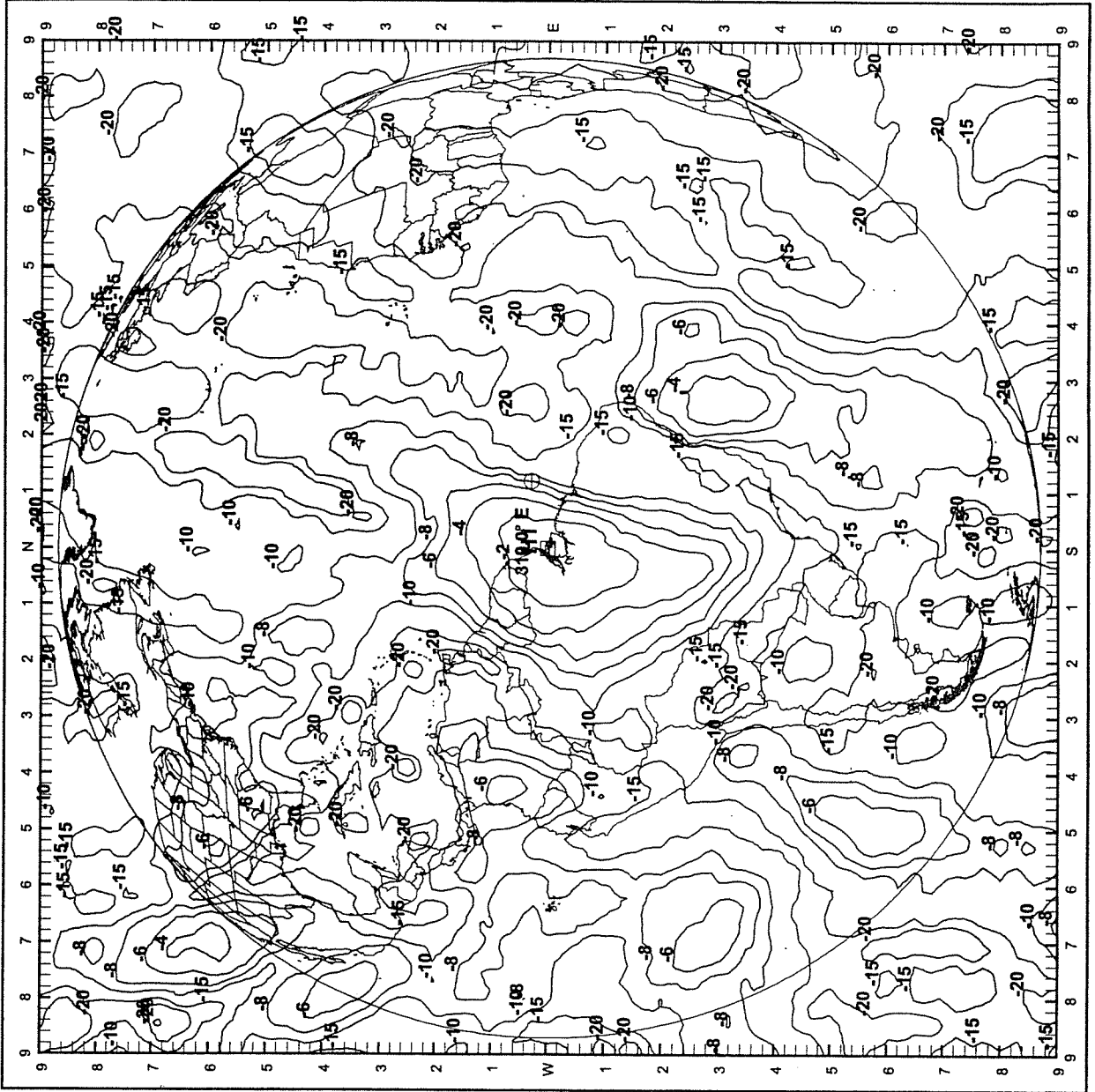
Peak Gain (Uplink X-pol) (See +)  
HI : -1.9 dBi

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

Beam Frequencies : 6149  
HI

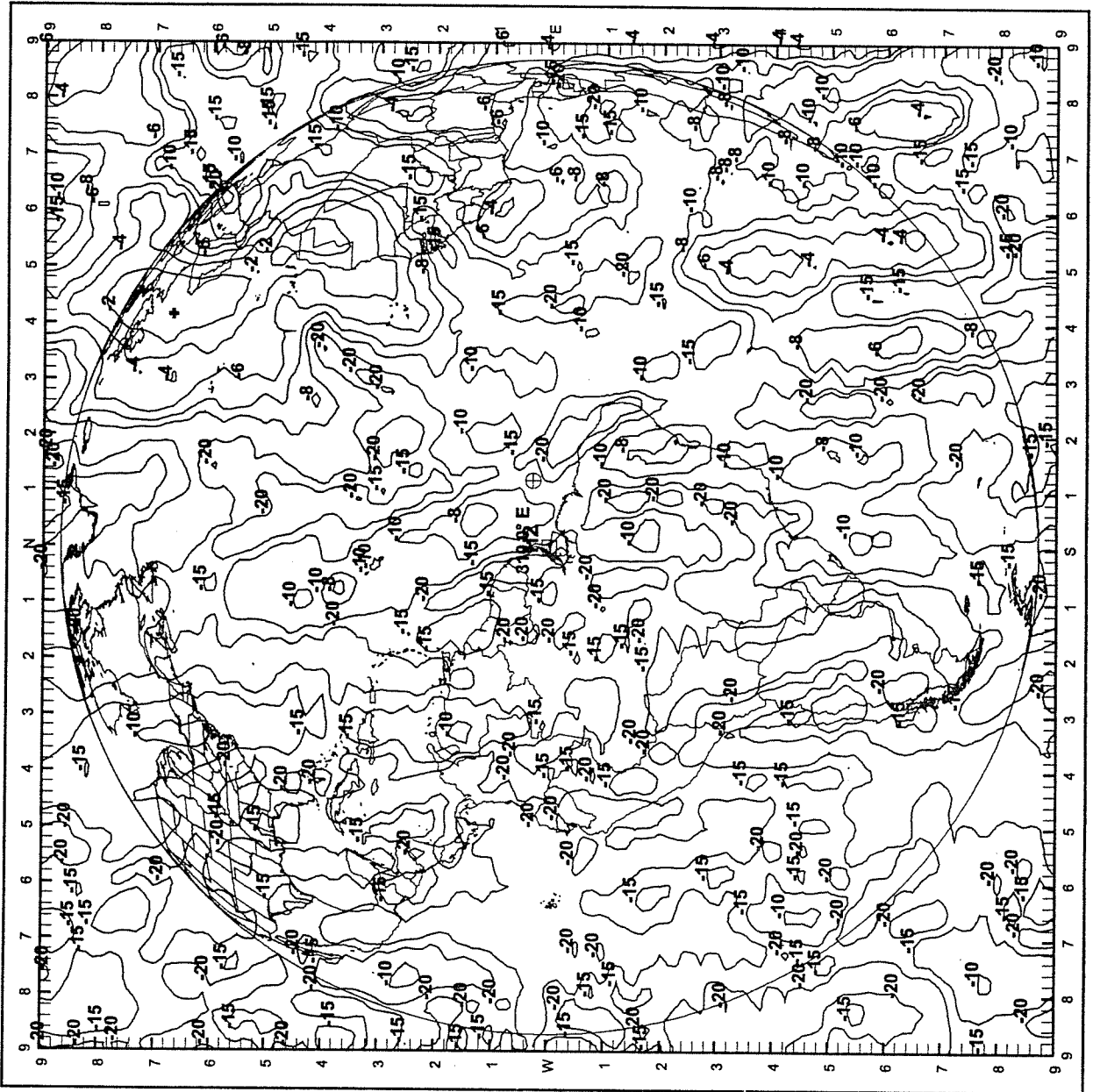
Polarization : Circular RHCP  
HI

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





INTELSAT 705 at 310.00°E Antenna Coverage  
S/C Platform Bias : 1.20°E 0.30°N  
YAW : 0.00°  
Peak Gain (Uplink X-pol) (See +)  
H2 : -2.6 dBi  
Contour Levels  
H2 : -2, -4, -6, -8, -10, -15,  
-20 dB  
Beam Frequencies  
H2 : 6149  
Polarization  
H2 : Circular RHCP  
Square : Sub-Satellite Point  
Circle : Sat.Ant.Platform Bias



# Intelsat.

INTELSAT 705 at 310.00°E Antenna Coverage  
 S/C Platform Bias : 1.20°E 0.30°N  
 YAW : 0.00°

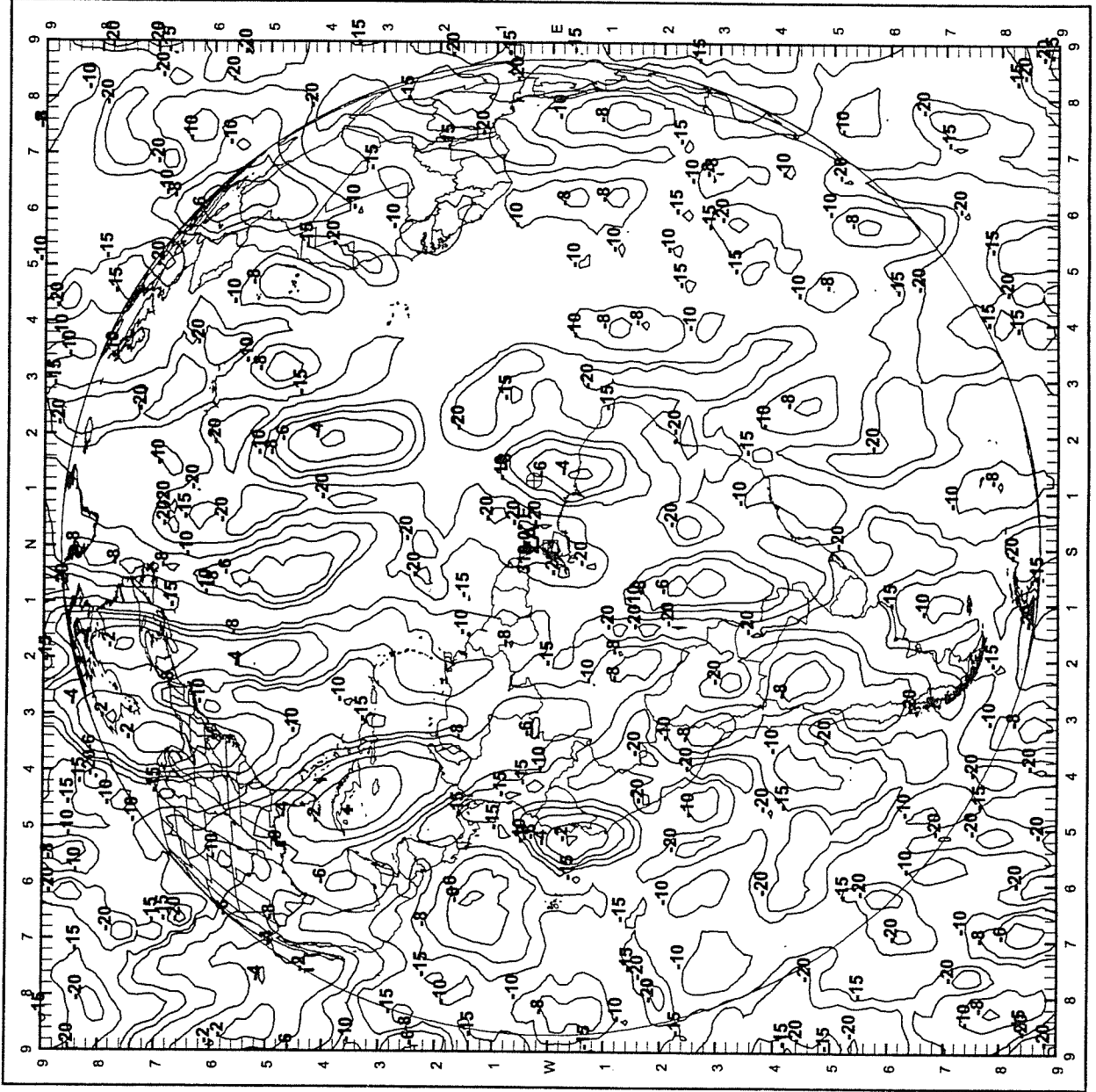
Peak Gain (Uplink X-pol) (See +)  
 ZA : -2.7 dBi

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

Beam Frequencies  
 ZA : 6149

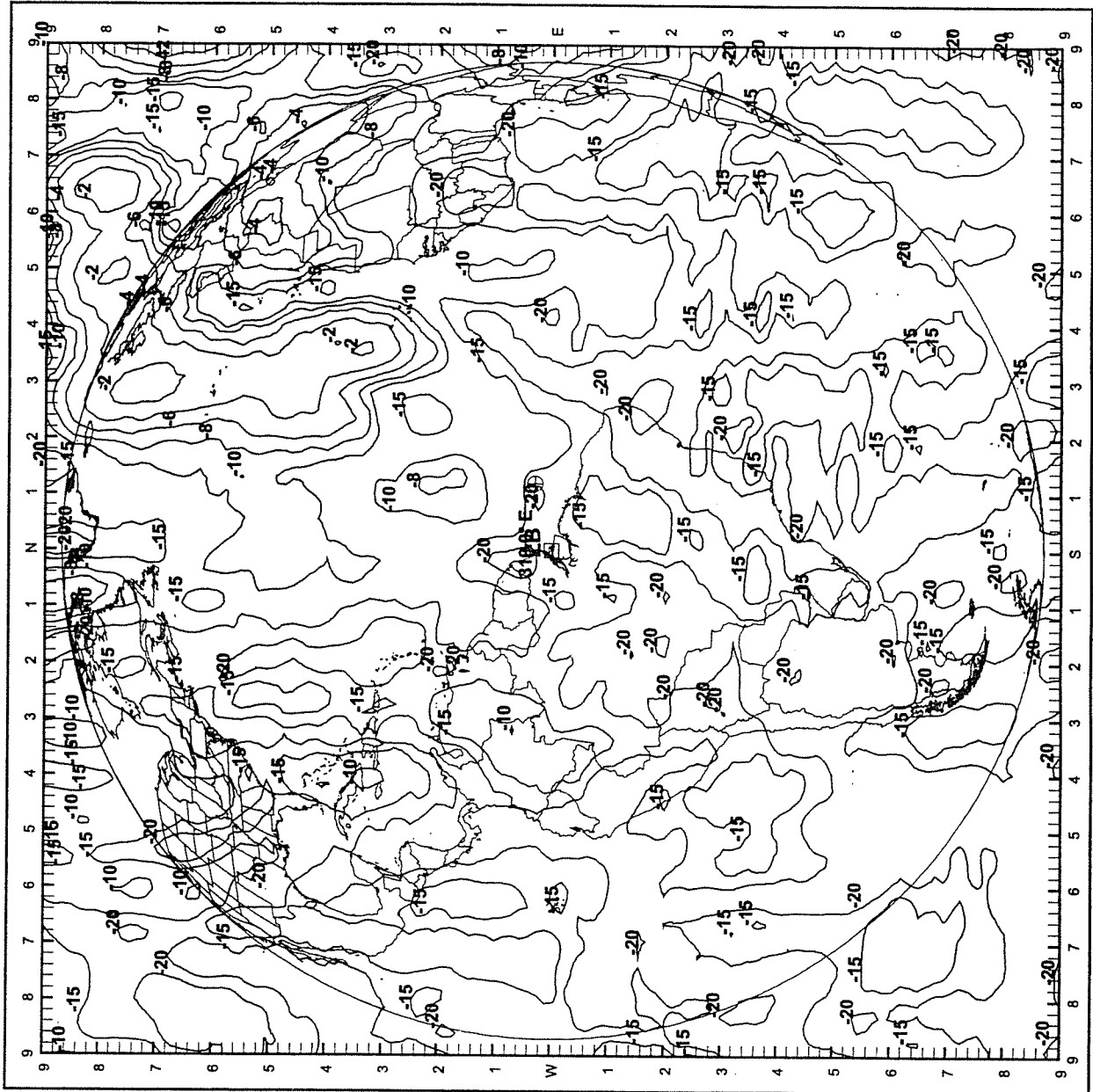
Polarization  
 ZA : Circular LHCP

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



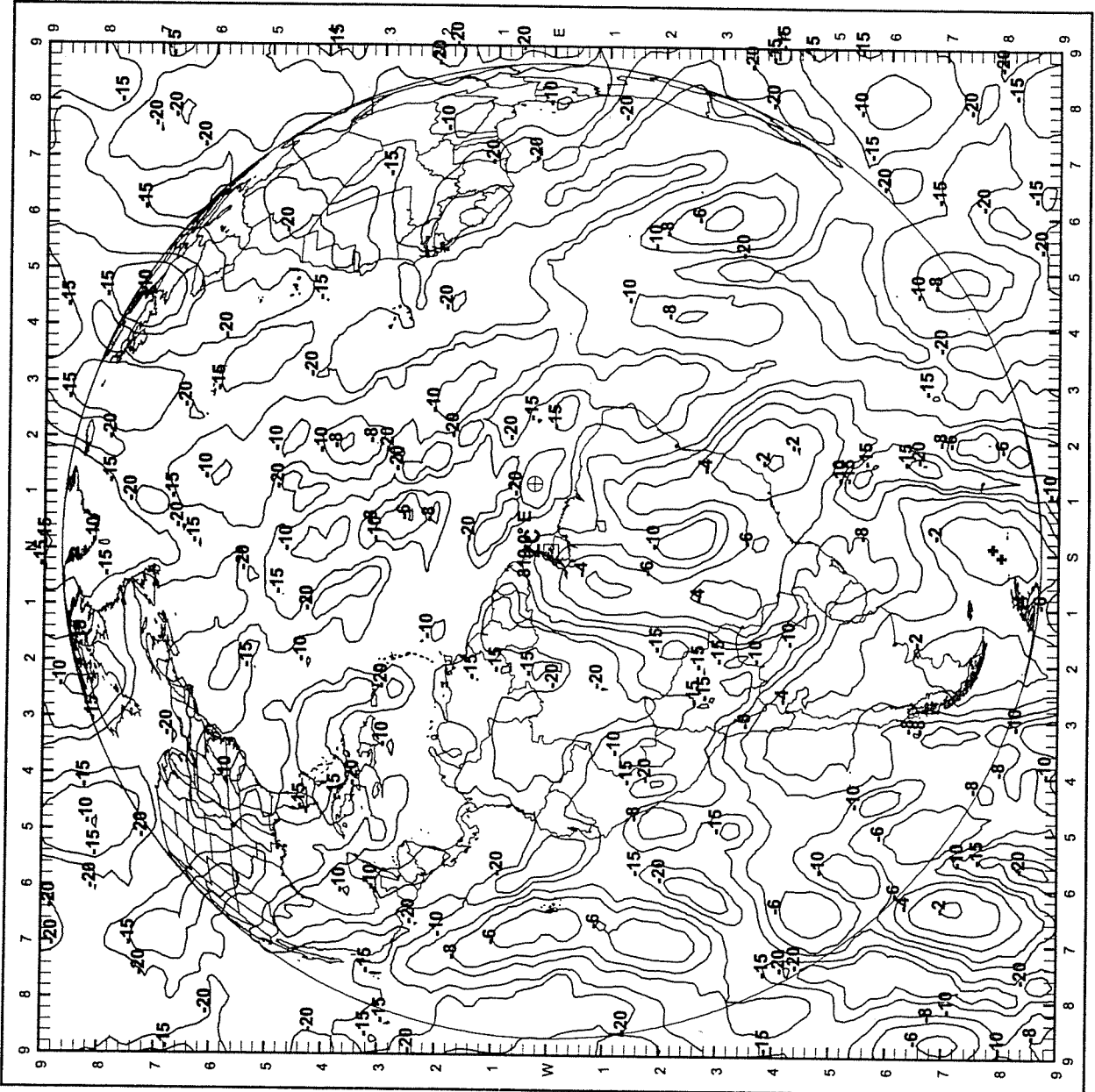


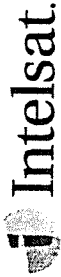
INTELSAT 705 at 310.00°E Antenna Coverage  
S/C Platform Bias : 1.20°E 0.30°N  
YAW : 0.00°  
Peak Gain (Uplink X-pol) (See +)  
ZB : -0.7 dBi  
Contour Levels : -2, -4, -6, -8, -10, -15, -20 dB  
Beam Frequencies : 6149  
ZB :  
Polarization : Circular LHCP  
ZB :  
Square : Sub-Satellite Point  
Circle : Sat.Ant.Platform Bias



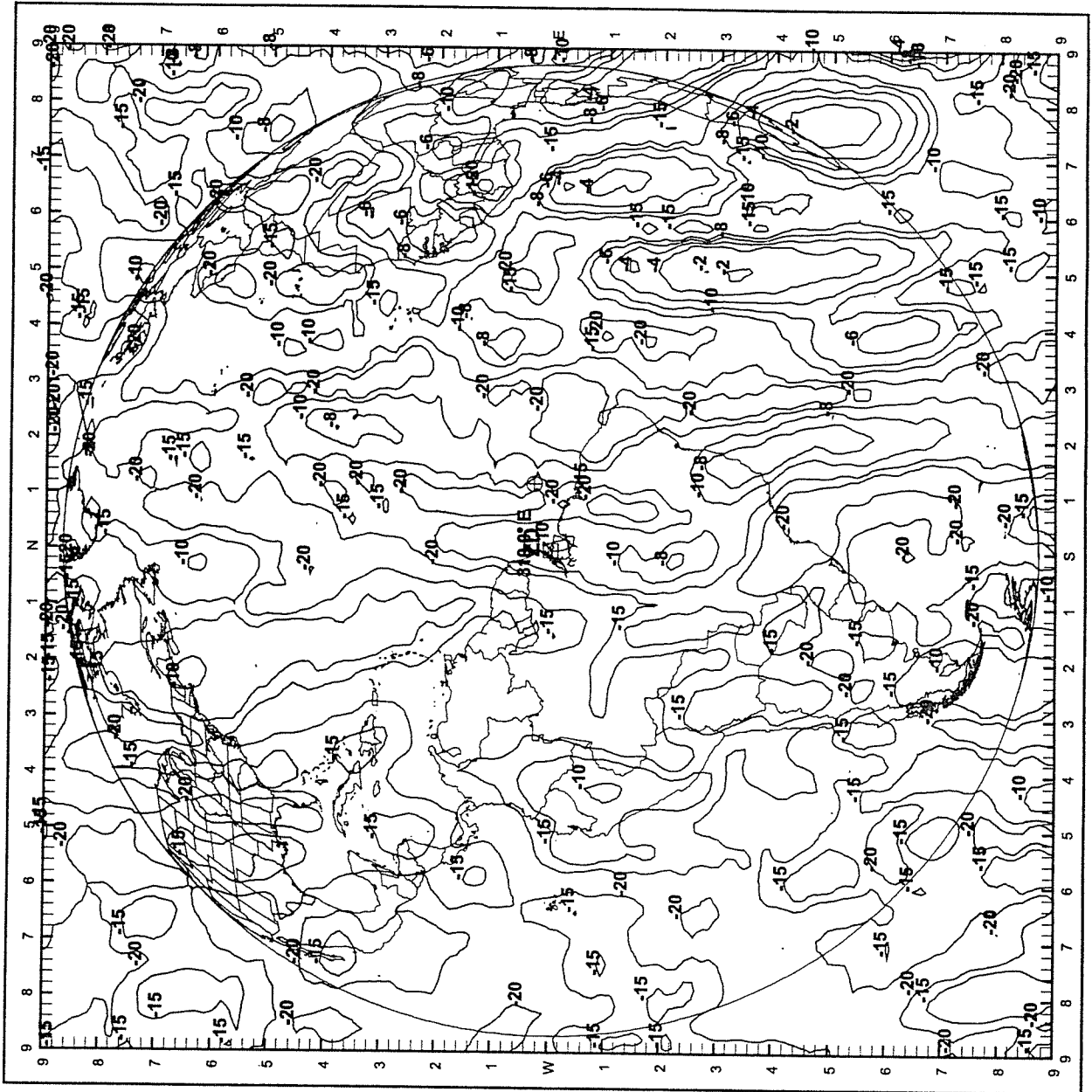


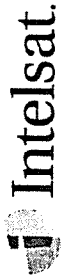
INTELSAT 705 at 310.00°E Antenna Coverage  
S/C Platform Bias : 1.20°E 0.30°N  
YAW : 0.00°  
Peak Gain (Uplink X-pol) (See +)  
ZC : -3.6 dBi  
Contour Levels : -2, -4, -6, -8, -10, -15, -20 dB  
Beam Frequencies : 6149  
Polarization : Circular LHCP  
Square : Sub-Satellite Point  
Circle : Sat.Ant.Platform Bias



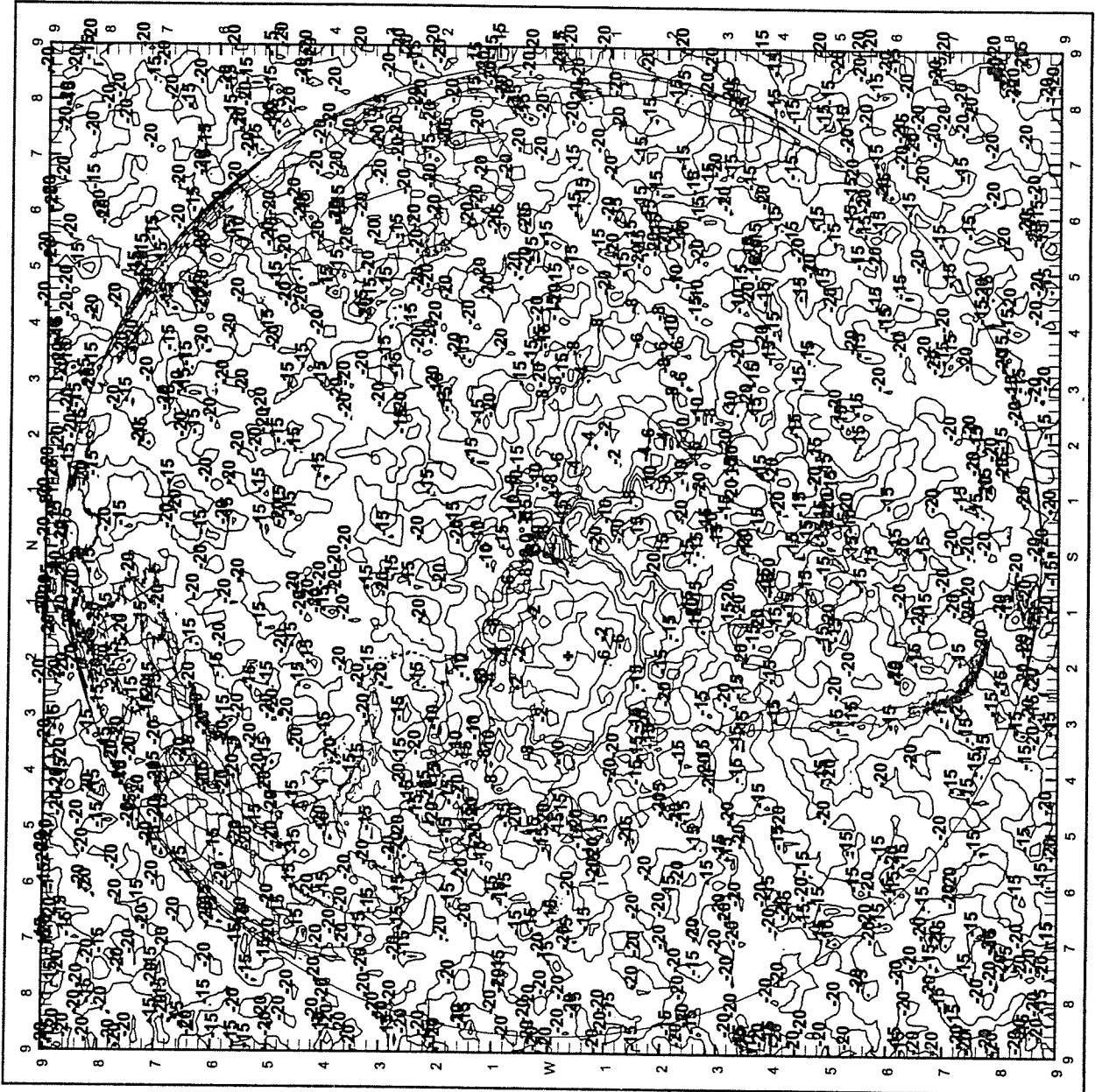


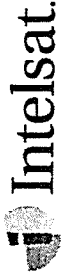
INTELSAT 705 at 310.00°E Antenna Coverage  
S/C Platform Bias : 1.20°E 0.30°N  
YAW : 0.00°  
Peak Gain (Uplink X-pol) (See +)  
ZD : -2.1 dBi  
Contour Levels : -2, -4, -6, -8, -10, -15, -20 dB  
Beam Frequencies : 6149  
Polarization : Circular LHCP  
ZD : Sub-Satellite Point  
Square : Sat.Ant.Platform Bias  
Circle : Sat.Ant.Platform Bias



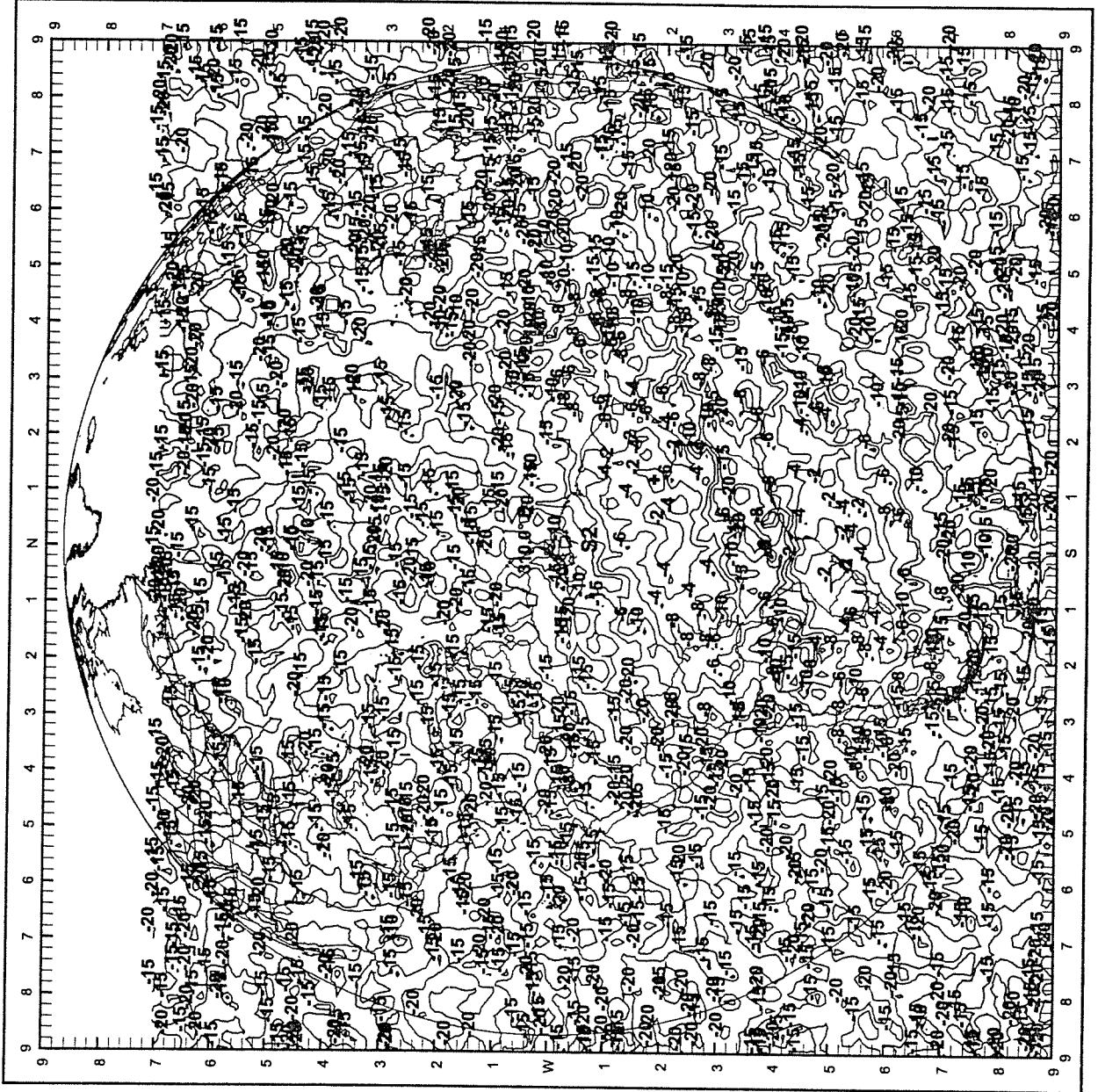


INTELSAT 705 at 310.00°E Antenna Coverage  
S/C Platform Bias : 1.20°E 0.30°N  
YAW : 0.00°  
Antenna Pointing : 0.05°E 0.69°S  
Peak Gain (Uplink X-pol) (See +)  
S1 : 11.2 dBi  
Contour Levels : -2, -4, -6, -8, -10, -15, -20 dB  
Beam Frequencies : 14224  
Polarization : Linear Vertical  
S1 :  
Square : Sub-Satellite Point





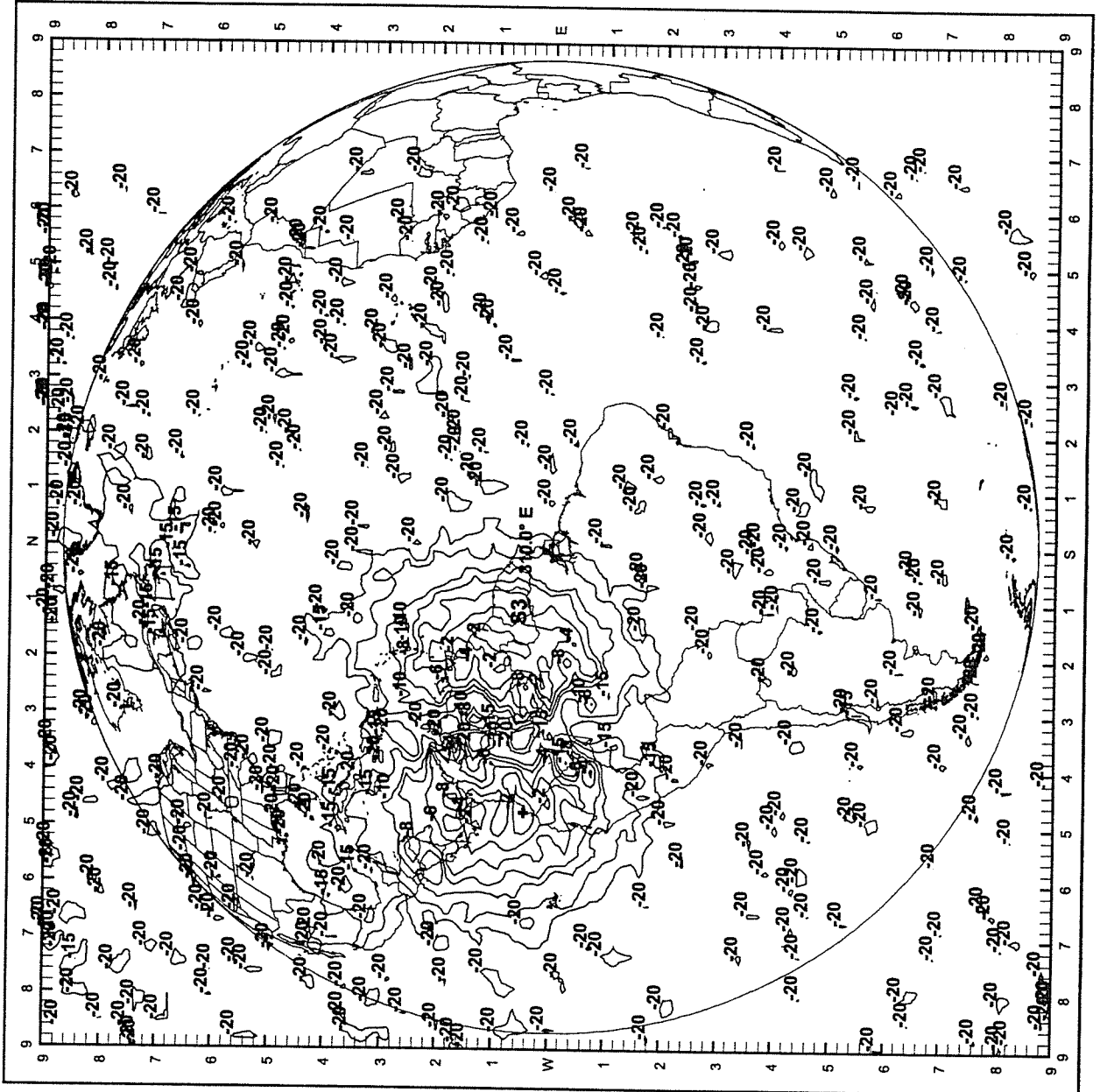
INTELSAT 705 at 310.00°E Antenna Coverage  
S/C Platform Bias : 1.20°E 0.30°N  
YAW : 0.00°  
Antenna Pointing : 0.50°E 3.40°S  
Peak Gain (Uplink X-pol) (See +)  
S2 : 8.2 dBi  
Contour Levels : -2, -4, -6, -8, -10, -15, -20 dB  
Beam Frequencies : 14224  
Polarization : Linear Horizontal  
Square : Sub-Satellite Point







INTELSAT 705 at 310.00°E Antenna Coverage  
S/C Platform Bias : 1.20°E 0.30°N  
YAW : 0.00°  
Antenna Pointing S3 : 3.30°W 0.90°N  
Peak Gain (Uplink X-pol) (See +)  
S3 : 11.0 dBi  
Contour Levels : -2, -4, -6, -8, -10, -15, -20 dB  
Beam Frequencies S3 : 14224  
Polarization S3 : Linear Vertical  
Square : Sub-Satellite Point



View : Orthographic 310.0° E  
Status : INTELSAT APPROVED

Plot Date: 11 April 2002  
acp2devproj01.apr

**FCC 312  
Main Form**

Approved by OMB  
3060-0678  
Est. Avg. Burden Hours  
Per Response: 11 Mins.

**FEDERAL COMMUNICATIONS COMMISSION**

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

FCC Use Only  
File Number:

Call Sign:

Fee Number:

**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> ATTENTION: Milenko Stojkovic		6. City <b>Washington</b>	8. Zip Code <b>20008-3098</b>
9. Name of Contact Representative (If other than applicant) <b>Bert Rein</b>		10. Voice Telephone Number <b>(202) 719-7000</b>	
11. Firm or Company Name <b>Wiley, Rein &amp; Fielding</b>		12. Fax Telephone Number <b>(202) 719-7207</b>	
13. Mailing Street Address or P.O. Box <b>1776 K Street, N.W.</b> ATTENTION: Bert Rein		14. City <b>Washington</b>	16. Zip Code <b>20006</b>
15. State / Country (if not U.S.A.) <b>DC</b>		15. State / Country (if not U.S.A.) <b>DC</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: **S2399**

19. If this filing is an amendment to a pending application enter:  
(a) Date pending application was filed:  
(b) File number of pending application:

**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

c. Connected to the Public Switched Network     d. Not connected to the Public Switched Network

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)     b. Ku-Band (12/14 GHz)     c. Other (Please specify)

**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)

x

**Authorization to relocate space station**

**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 original application filed in January 2000 and updated ownership information in 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?	United States	

43. Description. (Summarize the nature of the application and the services to be provided).

Intelsat LLC requests modification of its license to permit the relocation of INTELSAT 709 from the 50 degrees W.L. orbital location to 55.35 degrees W.L. in May, 2002 instead of to 157 degrees E.L. in April 2003.

Exhibit No. Identify all exhibits that are attached to this application.

See Exhibit 1

### CERTIFICATION

The Applicant waives any claim to the use of any particular frequency or of the electromagnetic spectrum as against the regulatory power of the United States because of the previous use of the same, whether by license or otherwise, and requests an authorization in accordance with this application. The applicant certifies that grant of this application would not cause the applicant to be in violation of the spectrum aggregation limit in 47 CFR Part 20. All statements made in exhibits are a material part hereof and are incorporated herein as if set out in full in this application. The undersigned, individually and for the applicant, hereby certifies that all statements made in this application and in all attached exhibits are true, complete and correct to the best of his or her knowledge and belief, and are made in good faith.

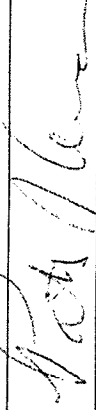
44. Applicant is a (an): (Place an "X" in the box next to applicable response.)

- a. Individual  b. Unincorporated Association  c. Partnership  d. Corporation  e. Governmental Entity  f. Other (Please specify) LLC

45. Typed Name of Person Signing

Patrick Cerra

47. Signature



48. Date

April 16, 2002

**WILLFUL FALSE STATEMENTS MADE ON THIS FORM ARE PUNISHABLE BY FINE AND/OR IMPRISONMENT (U.S. Code, Title 18, Section 1001), AND/OR REVOCATION OF ANY STATION AUTHORIZATION (U.S. Code, Title 47, Section 312(a)(1)), AND/OR FORFEITURE (U.S. Code, Title 47, Section 503).**

**INTELSAT 709 MODIFICATION**

**EXHIBIT 1  
Technical Description and  
Other Information Required Under Section 25.114(c)**

The Applicant, Intelsat LLC, hereby applies for authority to relocate INTELSAT 709, a geostationary satellite that is already in orbit and operating in the C-band and Ku-band currently at 50° W.L., to the 55.35° W.L. orbital location in May 2002.

Specific technical information for the INTELSAT 709 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:

Milenko Stojkovic  
Director, Telecommunication and Regulatory Policy  
Intelsat Global Service Corporation  
3400 International Drive, N.W.  
Washington, D.C. 20008-3098  
(202) 944-7590

The Applicant's counsel is:

Bert W. Rein  
Carl R. Frank  
Jennifer 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 contact person for the Applicant, with copies to the above counsel.

**TYPE OF AUTHORIZATION REQUESTED**

This application requests FCC authority to relocate and continue to operate a satellite in the Fixed-Satellite Service in the C-band and Ku-band. Intelsat LLC seeks authority for INTELSAT 709 to operate on both a common carrier and non-common carrier basis.

## **TECHNICAL INFORMATION**

### **A. Satellite Coverage**

The coverage of INTELSAT 709 from the 55.35° W.L. location is provided in Attachment 1 to this Exhibit 1.

## **PUBLIC INTEREST CONSIDERATIONS**

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

## **WAIVERS REQUESTED**

It is requested that the waivers granted to the INTELSAT 709 spacecraft at the 50° W.L. location continue to apply at 55.35° W.L.

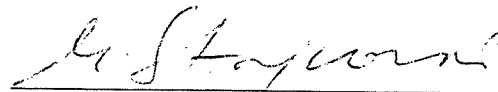
## **ENGINEERING CERTIFICATE**

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.

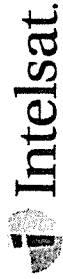
A handwritten signature in black ink, appearing to read "M. Stojkovic", is written over a horizontal line.

Milenko P. Stojkovic, Ph.D.

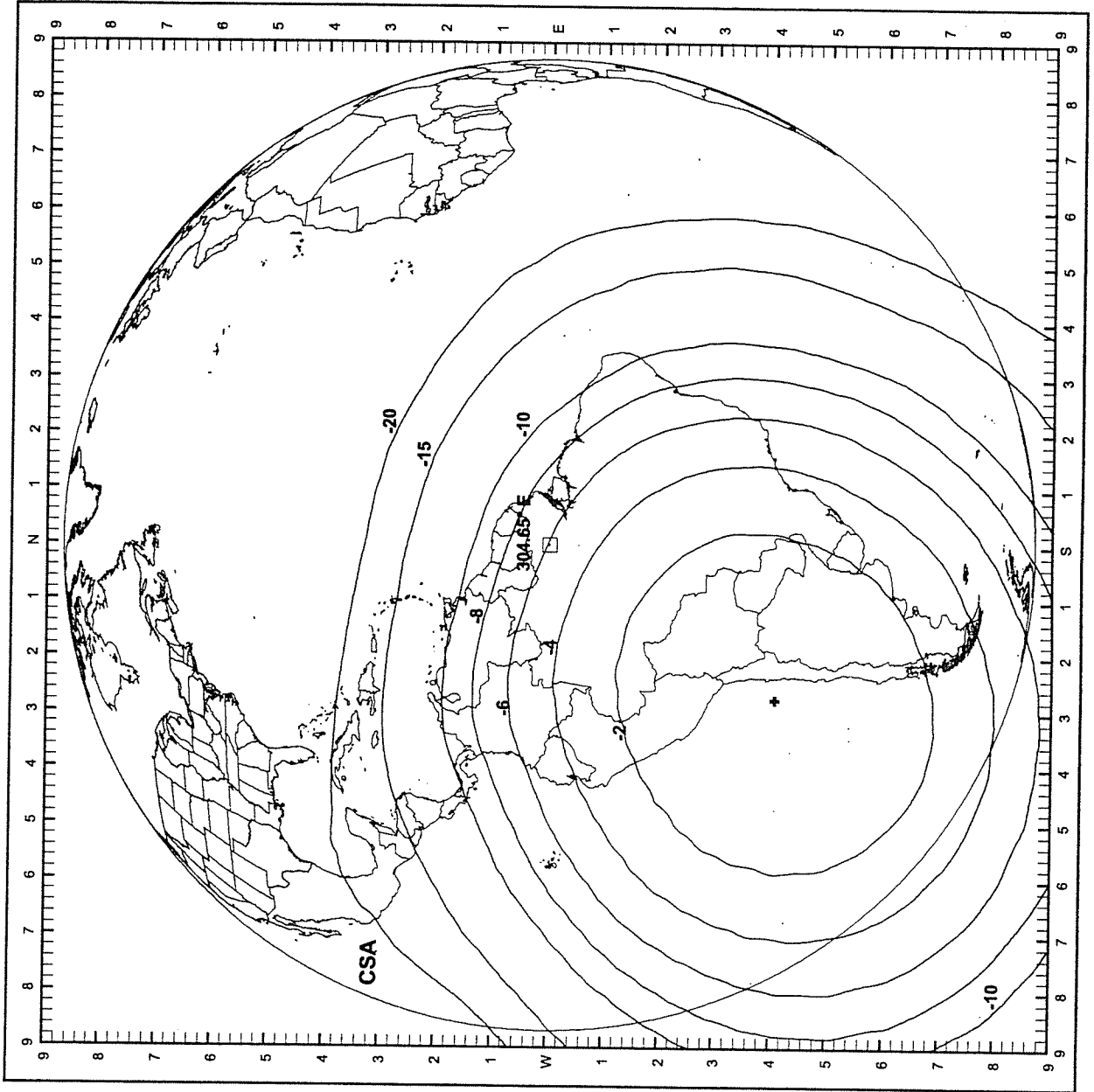
Telecommunication and Regulatory Policy

Intelsat Global Service Corporation

April 18, 2002

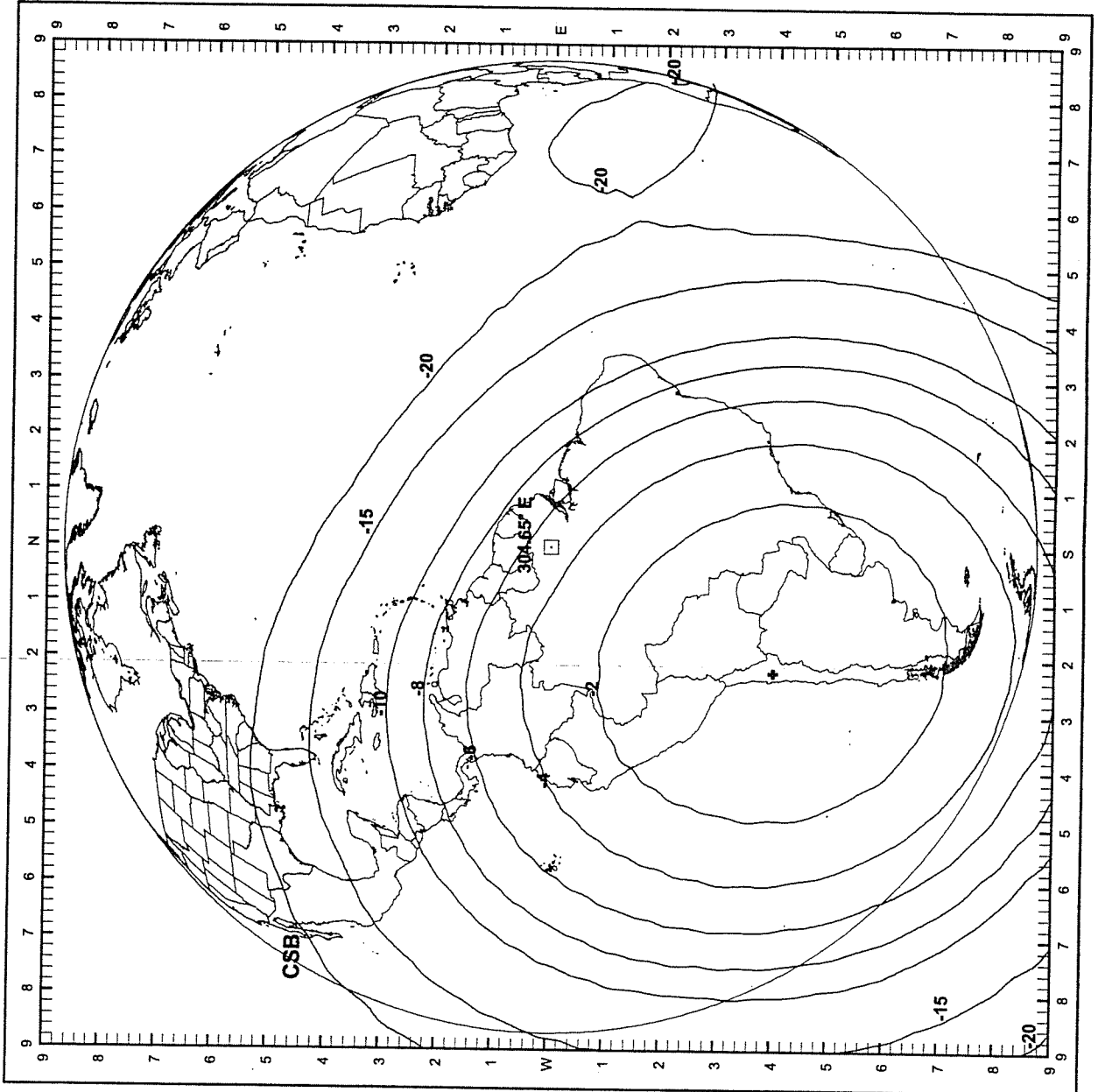


INTELSAT 709 at 304.65°E Antenna Coverage  
S/C Platform Bias : 1.00°E 0.30°N  
YAW : 0.00°  
Antenna Pointing  
CSA : 1.81°W 3.56°S  
Peak Gain (Downlink Corpol) (See +)  
CSA : 27.7 dBi  
Beam Peak EIRP  
CSA : 38.1 dBW  
Contour Levels  
CSA : -2, -4, -6, -8, -10, -15,  
-20 dB  
Beam Frequencies  
CSA : 4095  
Polarization  
CSA : Circular RHCP  
Square : Sub-Satellite Point



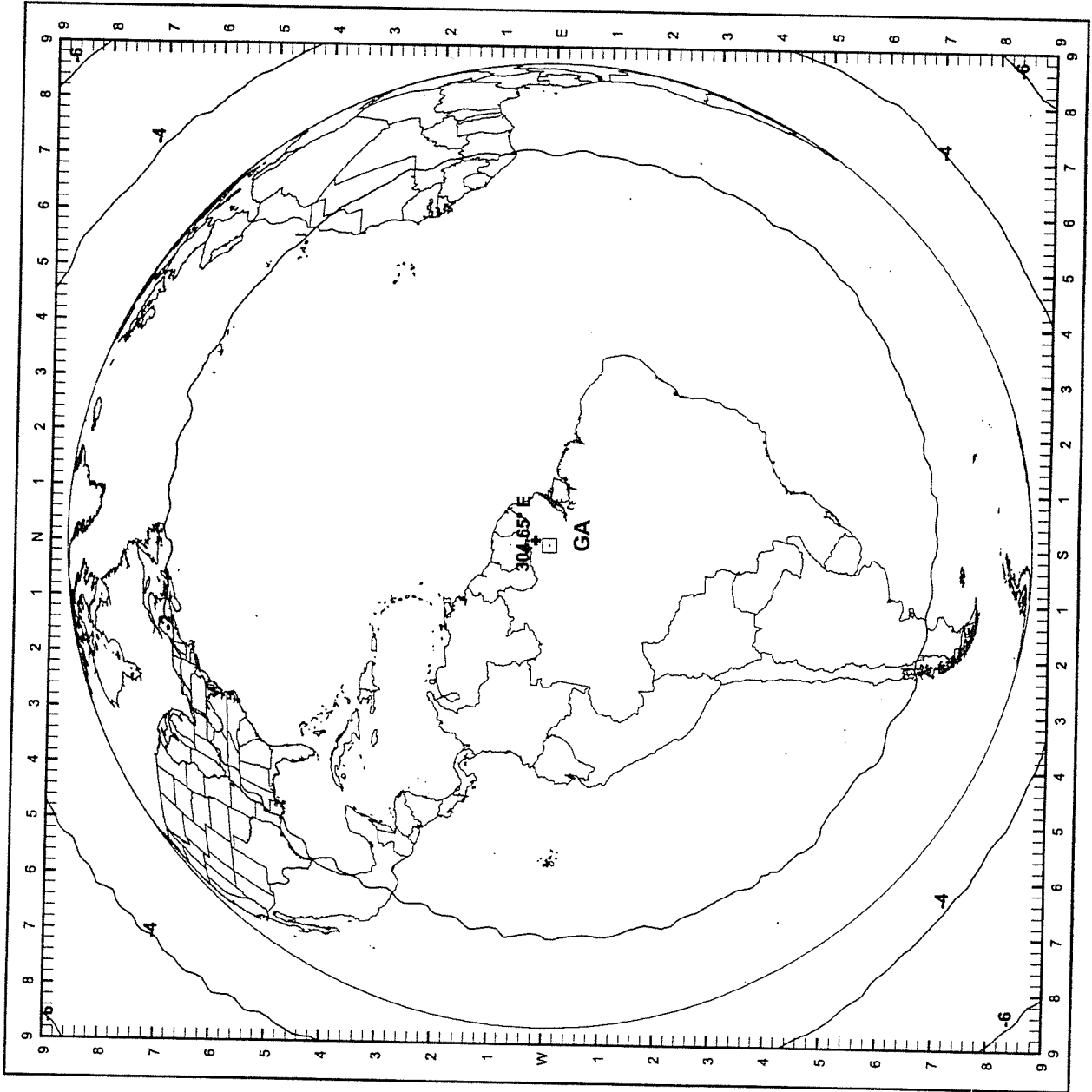


INTELSAT 709 at 304.65°E Antenna Coverage  
S/C Platform Bias : 1.00°E 0.30°N  
YAW : 0.00°  
Antenna Pointing  
CSB : 1.81°W 3.56°S  
Peak Gain (Downlink Co-pol) (See +)  
CSB : 27.5 dBi  
Beam Peak EIRP  
CSB : 38.1 dBW  
Contour Levels  
CSB : -2, -4, -6, -8, -10, -15, -20 dB  
Beam Frequencies  
CSB : 4095  
Polarization  
CSB : Circular LHCP  
Square : Sub-Satellite Point





INTELSAT 709 at 304.65°E Antenna Coverage  
S/C Platform Bias : 1.00°E 0.30°N  
YAW : 0.00°  
Antenna Pointing  
GA : 0.00°E 0.30°N  
Peak Gain (Downlink Co-pol) (See +)  
GA : 20.4 dBi  
Beam Peak EIRP  
GA : 30.9 dBW  
Contour Levels  
GA : -2, -4, -6, -8, -10, -15, -20 dB  
Beam Frequencies  
GA : 4095  
Polarization  
GA : Circular RHCP  
Square : Sub-Satellite Point

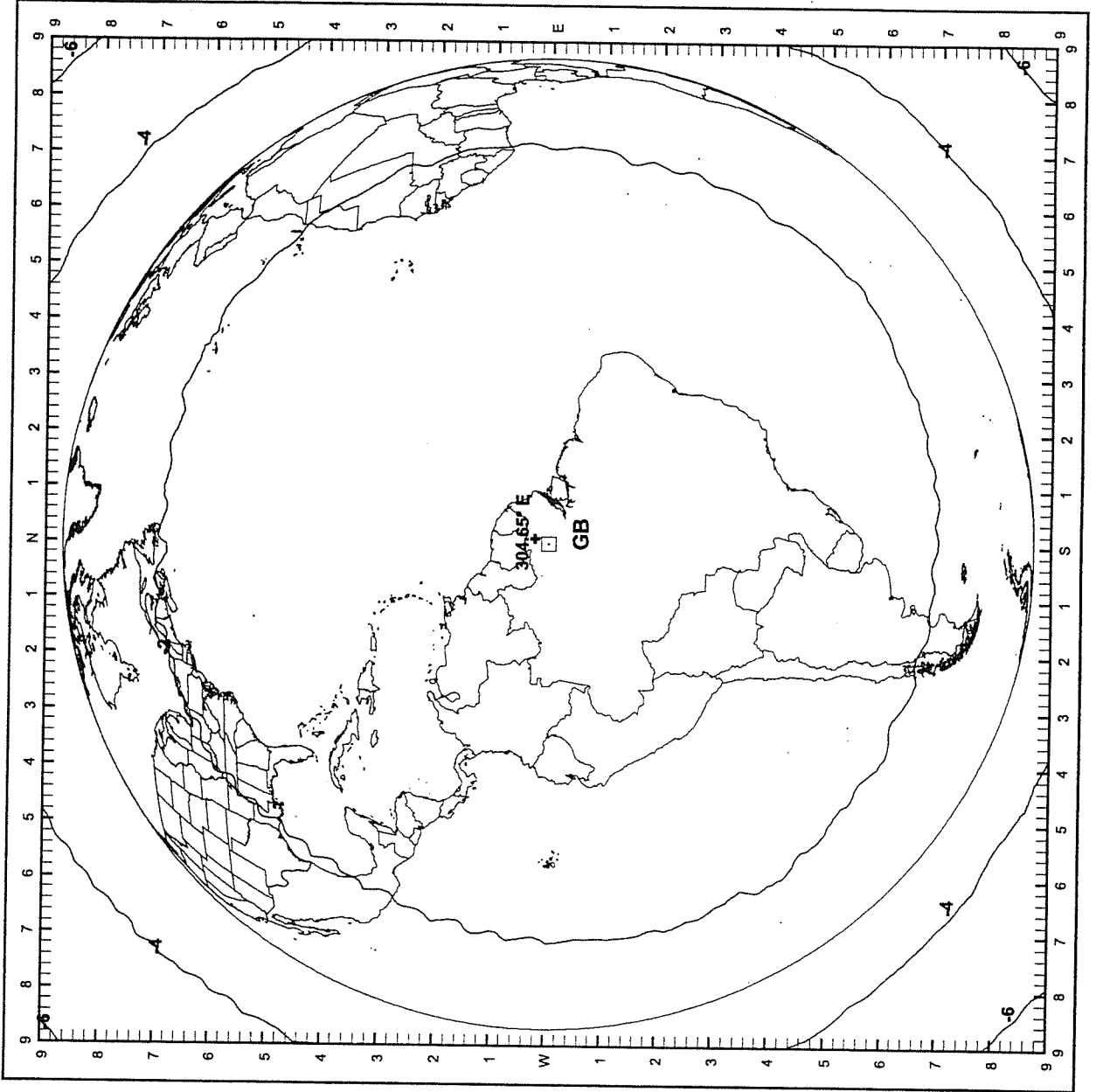


View : Orthographic 304.65° E  
Status : INTELSAT APPROVED

Plot Date: 12 April 2002  
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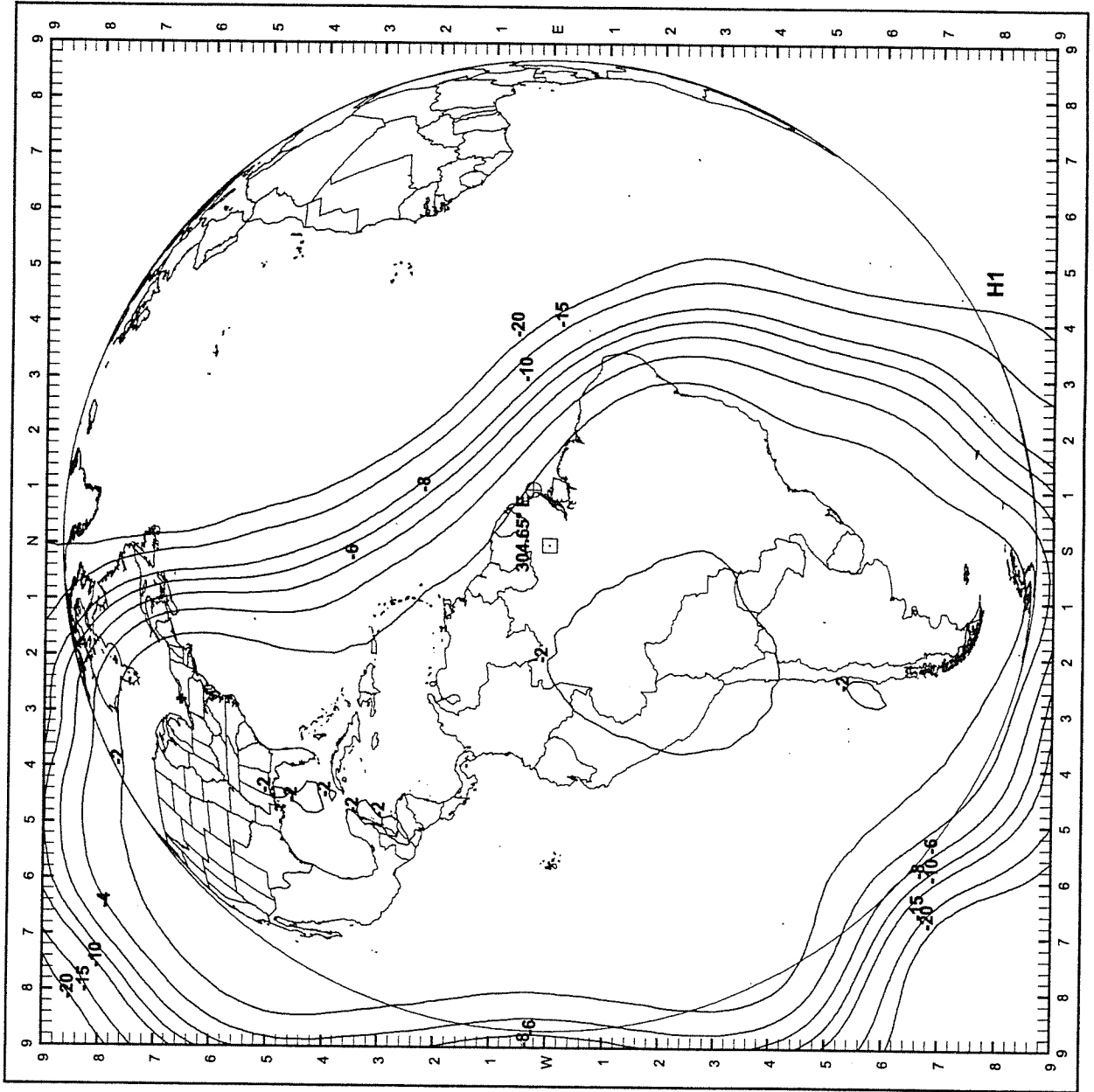


INTELSAT 709 at 304.65°E Antenna Coverage  
S/C Platform Bias : 1.00°E 0.30°N  
YAW : 0.00°  
Antenna Pointing  
GB : 0.00°E 0.30°N  
Peak Gain (Downlink Co-pol) (See +)  
GB : 20.4 dBi  
Beam Peak EIRP  
GB : 30.9 dBW  
Contour Levels  
GB : -2, -4, -6, -8, -10, -15, -20 dB  
Beam Frequencies  
GB : 4095  
Polarization  
GB : Circular LHCP  
Square : Sub-Satellite Point



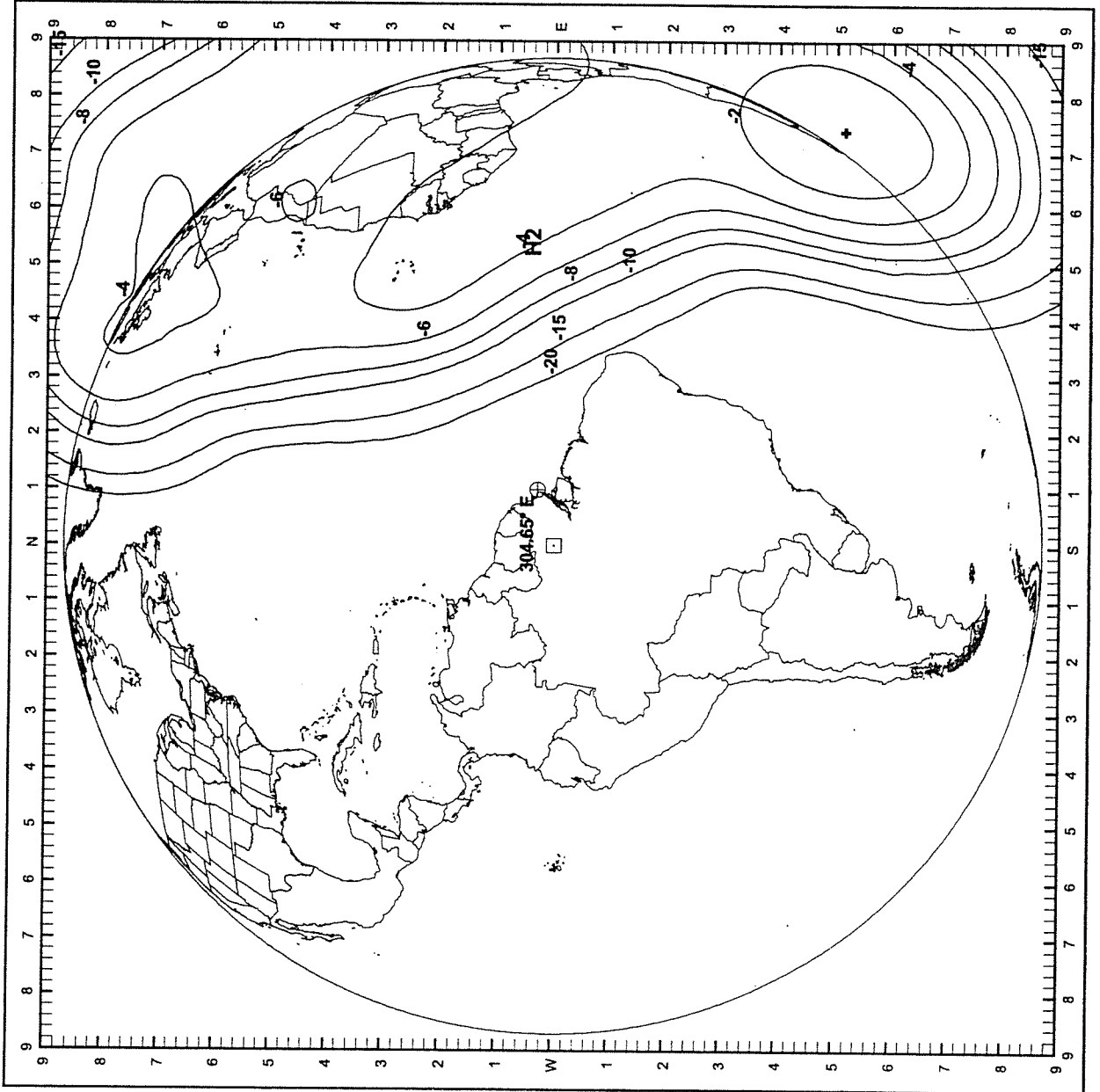


INTELSAT 709 at 304.65°E Antenna Coverage  
S/C Platform Bias : 1.00°E 0.30°N  
YAW : 0.00°  
Peak Gain (Downlink Co-pol) (See +)  
H1 : 23.4 dBi  
Beam Peak EIRP : 37.1 dBW  
Contour Levels : -2, -4, -6, -8, -10, -15, -20 dB  
Beam Frequencies : 3924  
Polarization : Circular RHCP  
Square : Sub-Satellite Point  
Circle : Sat.Ant.Platform Bias





INTELSAT 709 at 304.65°E Antenna Coverage  
S/C Platform Bias : 1.00°E 0.30°N  
YAW : 0.00°  
Peak Gain (Downlink Co-pol) (See +)  
H2 : 27.5 dBi  
Beam Peak EIRP : 39.8 dBW  
Contour Levels : -2, -4, -6, -8, -10, -15, -20 dB  
Beam Frequencies : 3924  
Polarization : Circular RHCP  
Square : Sub-Satellite Point  
Circle : Sat.Ant.Platform Bias



View : Orthographic 304.65° E  
Status : INTELSAT APPROVED

Plot Date: 12 April 2002  
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INTELSAT 709 at 304.65°E Antenna Coverage  
S/C Platform Bias : 1.00°E 0.30°N  
YAW : 0.00°

Peak Gain (Downlink Co-pol) (See +)  
ZD : 28.0 dBi  
ZA : 27.9 dBi

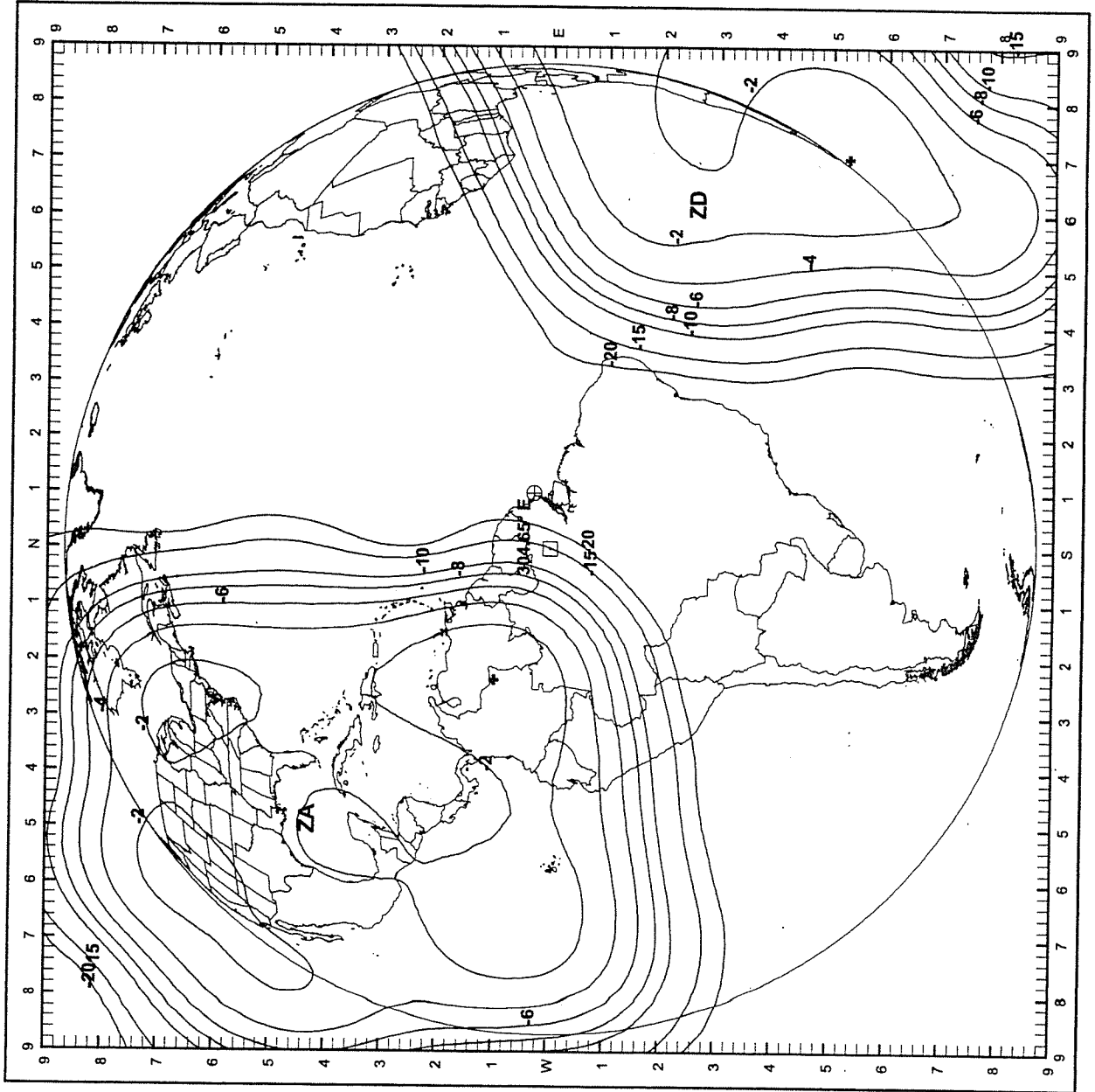
Beam Peak EIRP  
ZD : 39.1 dBW  
ZA : 38.8 dBW

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

Beam Frequencies  
ZD : 3924  
ZA : 3924

Polarization  
ZD : Circular LHCP  
ZA : Circular LHCP

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







INTELSAT 709 at 304.65°E Antenna Coverage  
S/C Platform Bias : 1.00°E 0.30°N  
YAW : 0.00°

Peak Gain (Downlink Co-pol) (See +)  
ZC : 28.5 dBi  
ZB : 30.1 dBi

Beam Peak EIRP : 37.6 dBW  
ZC : 38.8 dBW

Contour Levels

ZC : -2, -4, -6, -8, -10, -15, -20 dB  
ZB : -2, -4, -6, -8, -10, -15, -20 dB

Beam Frequencies

ZC : 3924  
ZB : 3924

Polarization

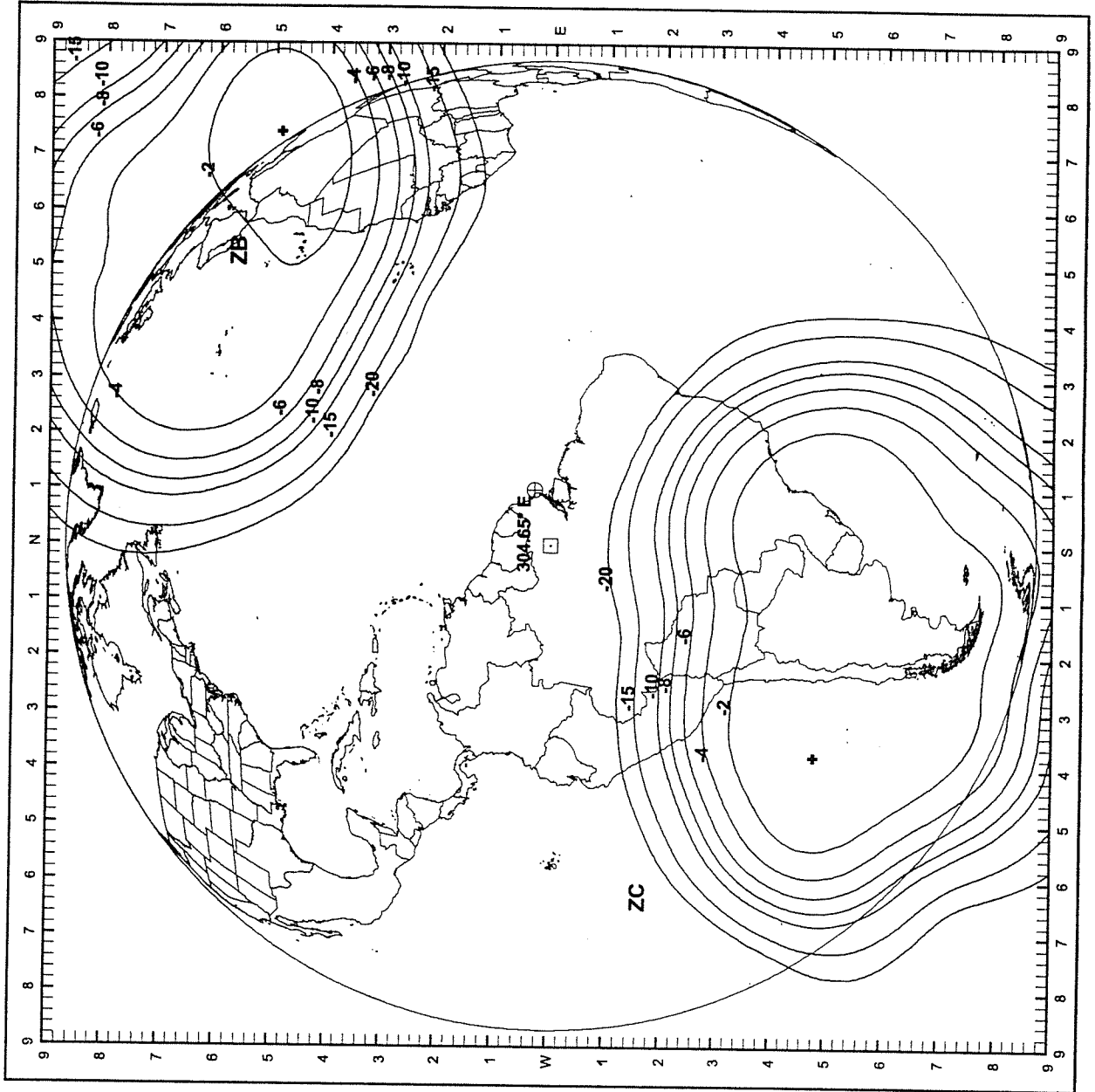
ZC : Circular LHCP  
ZB : Circular LHCP

Square

: Sub-Satellite Point

Circle

: Sat.Ant.Platform Bias





INTELSAT 709 at 304.65°E Antenna Coverage  
S/C Platform Bias : 1.00°E 0.30°N  
YAW : 0.00°  
Antenna Pointing  
S1 : 1.89°W 0.64°N

Peak Gain (Downlink Co-pol) (See +)  
S1 : 36.0 dBi

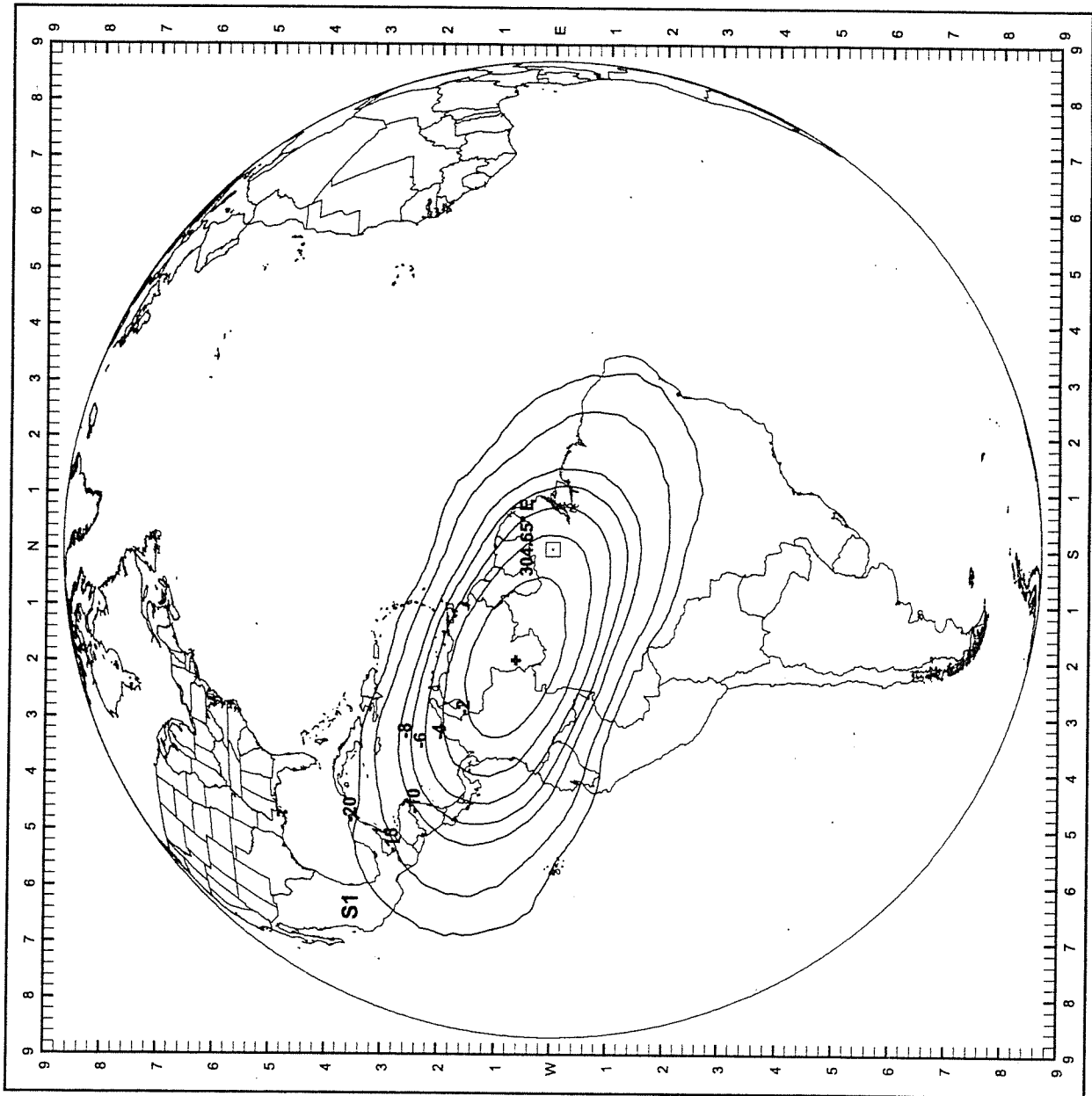
Beam Peak EIRP  
S1 : 50.0 dBW

Contour Levels  
S1 : -2, -4, -6, -8, -10, -15, -20 dB

Beam Frequencies  
S1 : 11174

Polarization  
S1 : Linear Vertical

Square : Sub-Satellite Point





INTELSAT 709 at 304.65°E Antenna Coverage  
S/C Platform Bias : 1.00°E 0.30°N  
YAW : 0.00°  
Antenna Pointing  
S2 : 0.20°W 7.24°N

Peak Gain (Downlink Co-pol) (See +)  
S2 : 34.6 dBi

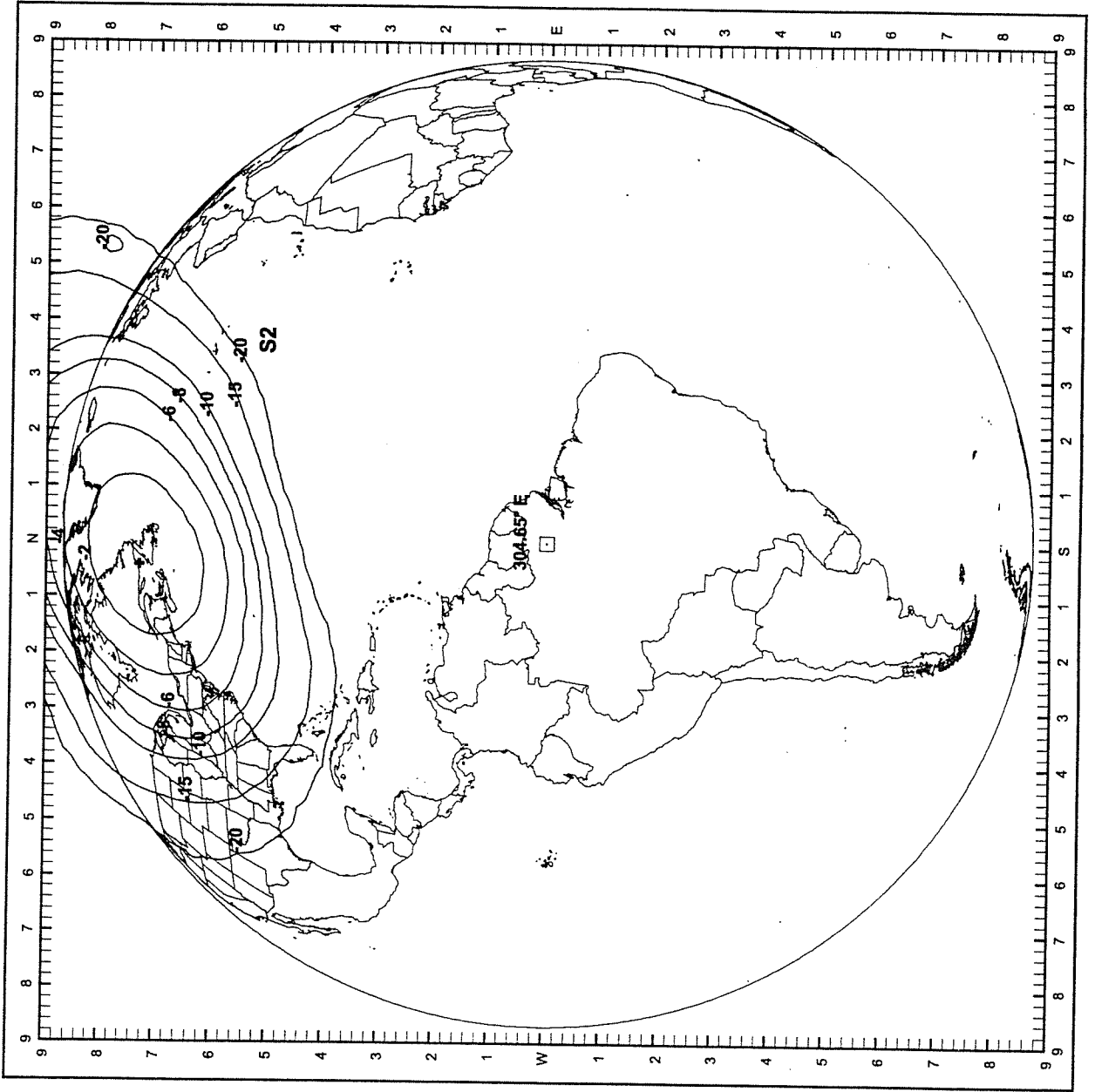
Beam Peak EIRP  
S2 : 50.5 dBW

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

Beam Frequencies  
S2 : 11174

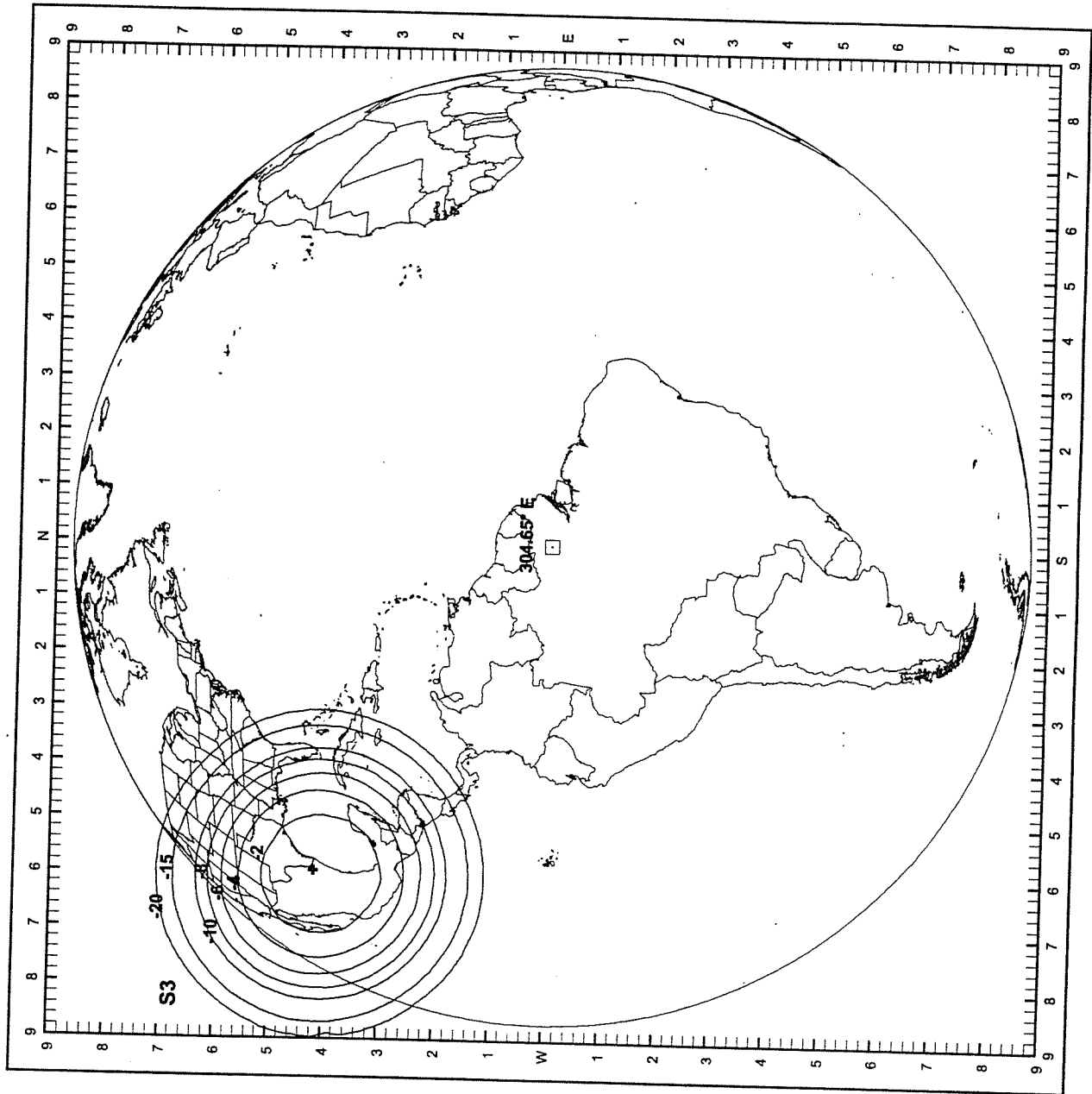
Polarization  
S2 : Linear Horizontal

Square : Sub-Satellite Point



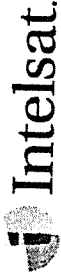


INTELSAT 709 at 304.65°E Antenna Coverage  
S/C Platform Bias : 1.00°E 0.30°N  
YAW : 0.00°  
Antenna Pointing  
S3 : 6.02°W 4.07°N  
Peak Gain (Downlink Co-pol) (See +)  
S3 : 36.5 dBi  
Beam Peak EIRP  
S3 : 50.3 dBW  
Contour Levels  
S3 : -2, -4, -6, -8, -10, -15, -20 dB  
Beam Frequencies  
S3 : 11174  
Polarization  
S3 : Linear Vertical  
Square : Sub-Satellite Point

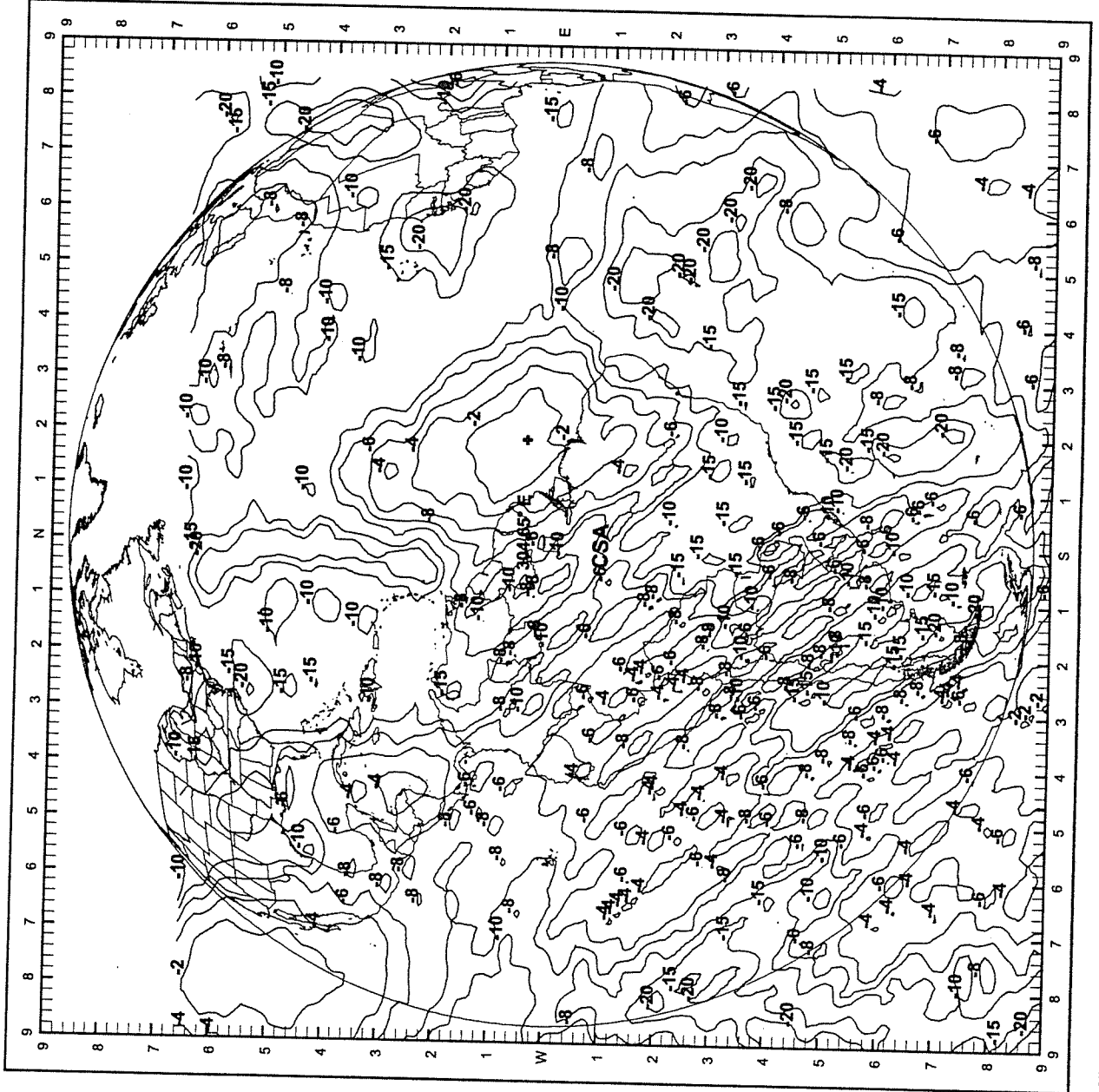


View : Orthographic 304.65°E  
Status : INTELSAT APPROVED

Plot Date: 12 April 2002  
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INTELSAT 709 at 304.65°E Antenna Coverage  
S/C Platform Bias : 1.00°E 0.30°N  
YAW : 0.00°  
Antenna Pointing  
CSA : 1.81°W 3.56°S  
Peak Gain (Downlink X-pol) (See +)  
CSA : -2.3 dBi  
Contour Levels  
CSA : -2, -4, -6, -8, -10, -15, -20 dB  
Beam Frequencies  
CSA : 4095  
Polarization  
CSA : Circular LHCP  
Square : Sub-Satellite Point

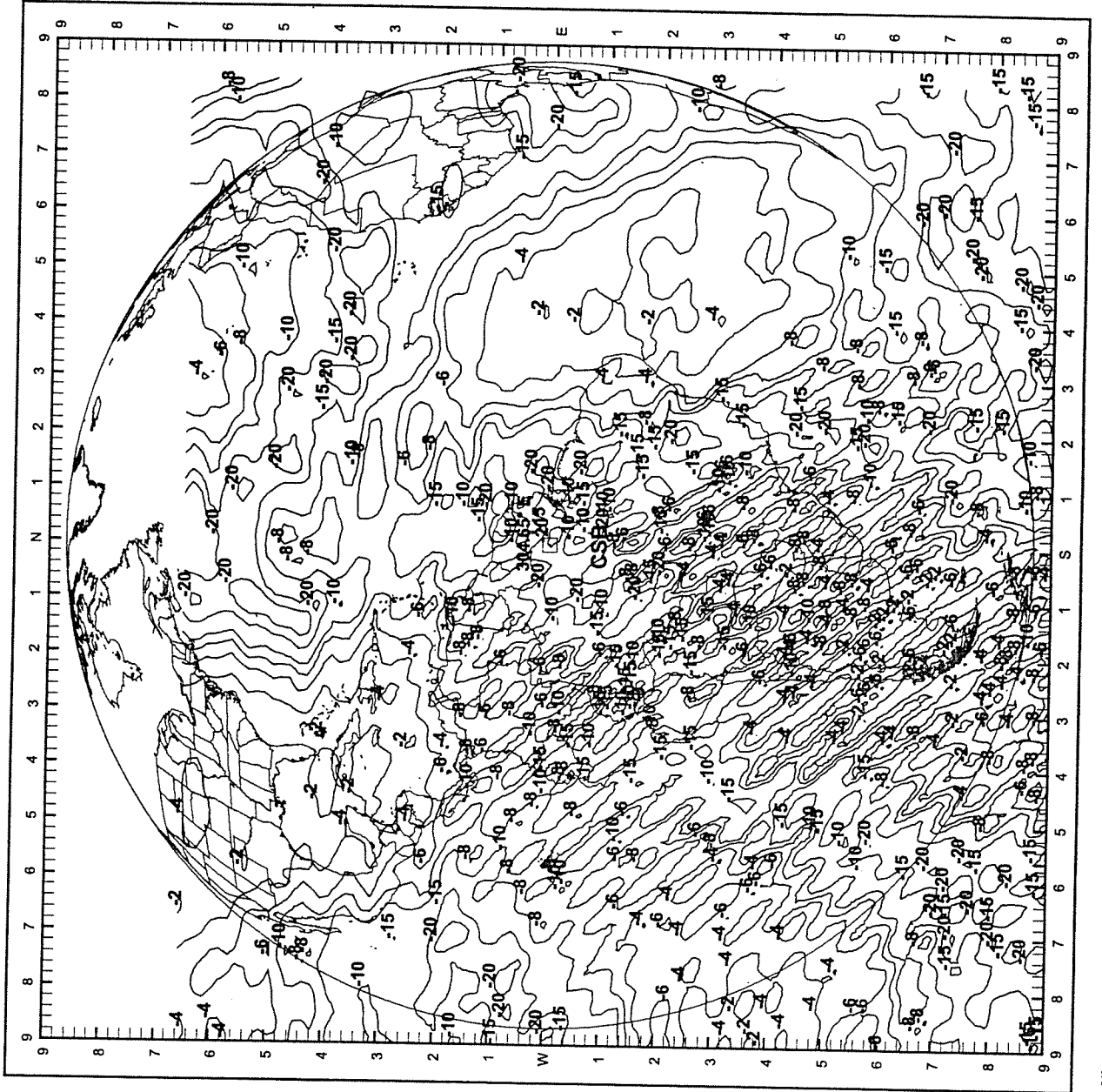


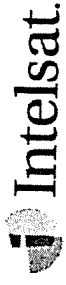
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Status : INTELSAT APPROVED

Plot Date: 12 April 2002  
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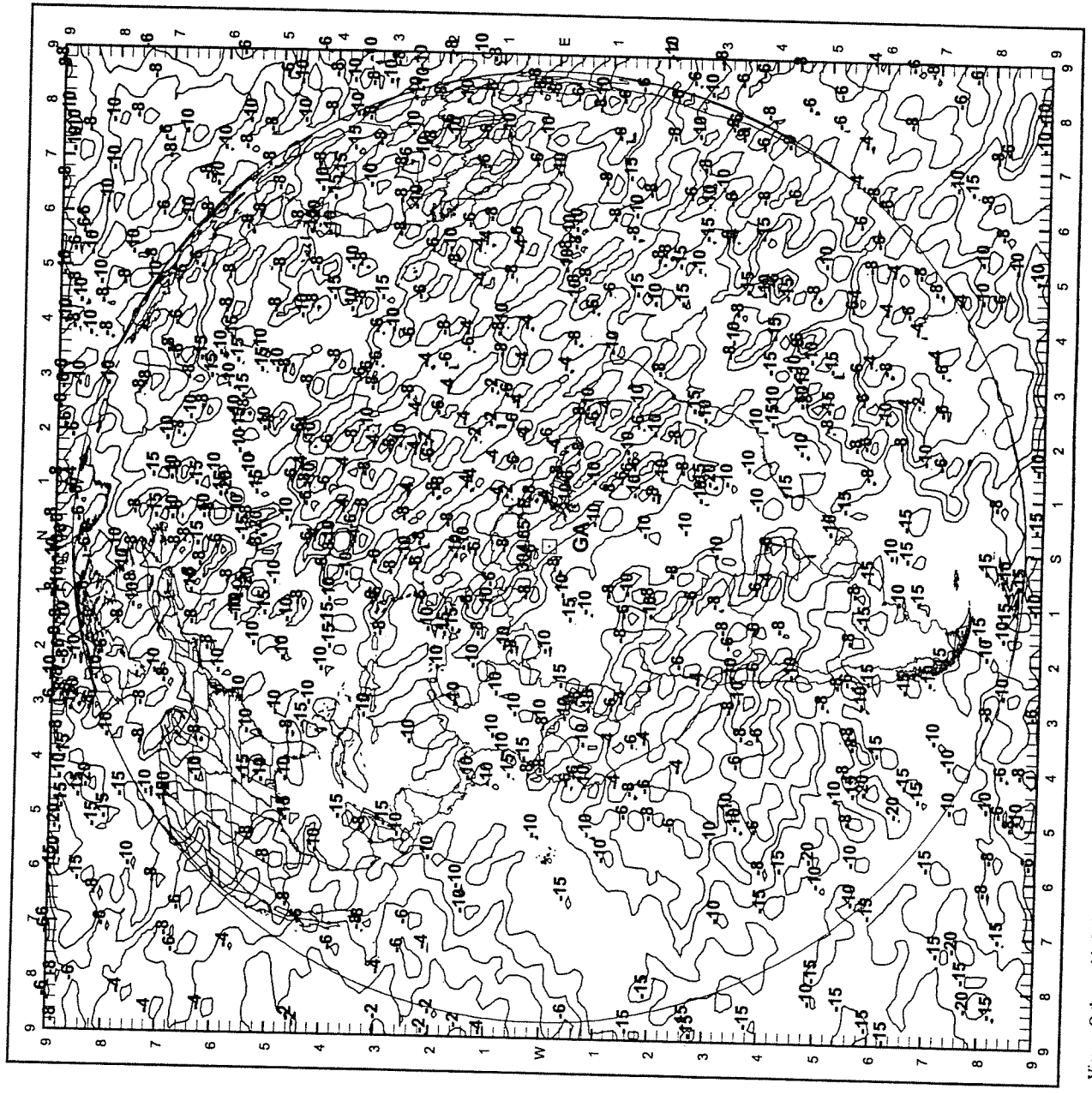


INTELSAT 709 at 304.65°E Antenna Coverage  
S/C Platform Bias : 1.00°E 0.30°N  
YAW : 0.00°  
Antenna Pointing : 1.81°W 3.56°S  
Peak Gain (Downlink X-pol) (See +)  
CSB : -3.4 dBi  
Contour Levels : -2, -4, -6, -8, -10, -15, -20 dB  
Beam Frequencies : 4095  
Polarization : Circular RHCP  
CSB : -3.4 dBi  
Square : Sub-Satellite Point





INTELSAT 709 at 304.65°E Antenna Coverage  
S/C Platform Bias : 1.00°E 0.30°N  
YAW : 0.00°  
Antenna Pointing  
GA : 0.00°E 0.30°N  
Peak Gain (Downlink X-pol) (See +)  
GA : -12.1 dBi  
Contour Levels  
GA : -2, -4, -6, -8, -10, -15, -20 dB  
Beam Frequencies  
GA : 4095  
Polarization  
GA : Circular LHCP  
Square : Sub-Satellite Point

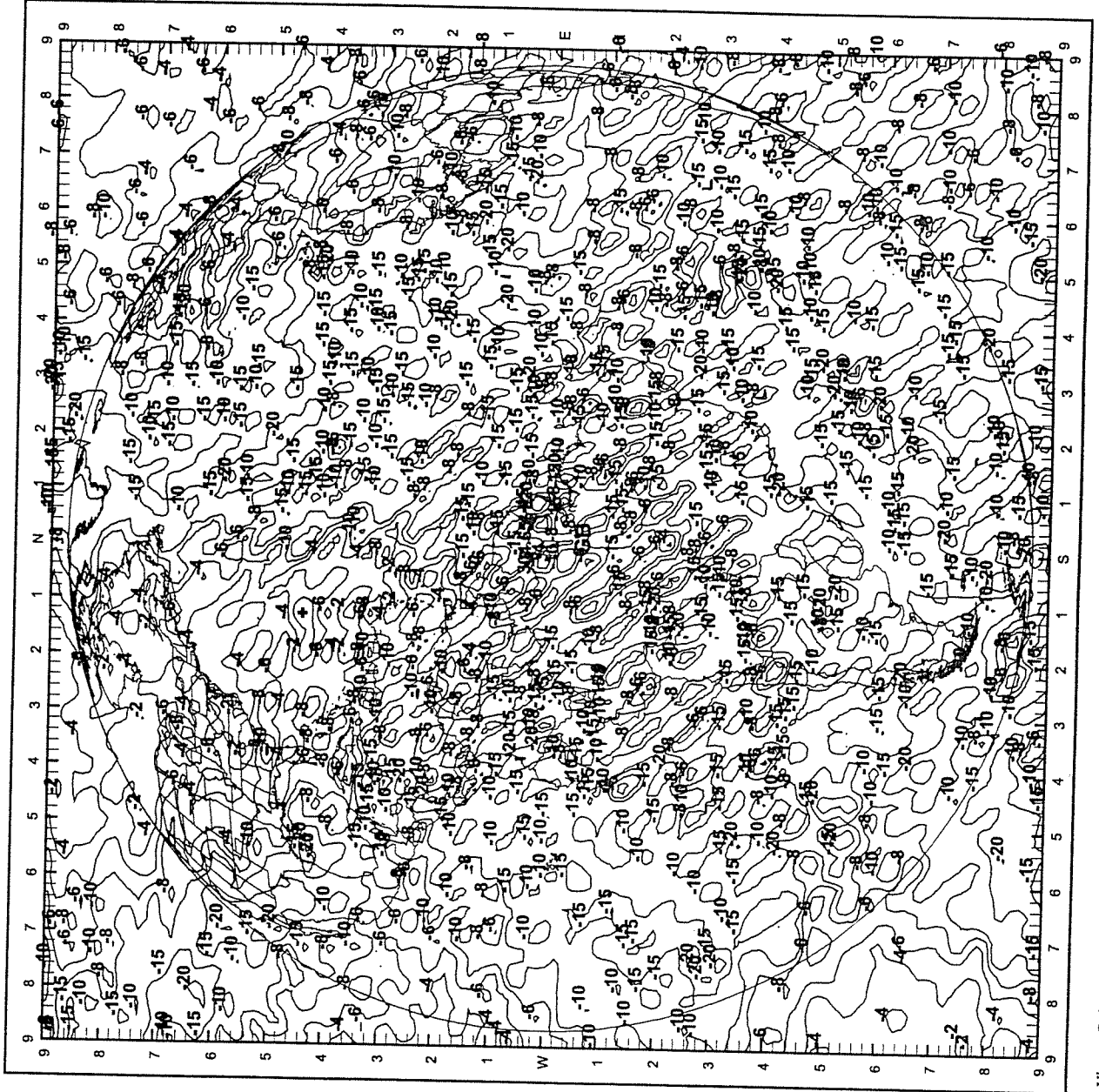


View : Orthographic 304.65°E  
Status : INTELSAT APPROVED

Plot Date: 12 April 2002  
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INTELSAT 709 at 304.65°E Antenna Coverage  
S/C Platform Bias : 1.00°E 0.30°N  
YAW : 0.00°  
Antenna Pointing  
GB : 0.00°E 0.30°N  
Peak Gain (Downlink X-pol) (See +)  
GB : -11.8 dBi  
Contour Levels  
GB : -2, -4, -6, -8, -10, -15, -20 dB  
Beam Frequencies  
GB : 4095  
Polarization  
GB : Circular RHCP  
Square : Sub-Satellite Point



View : Orthographic 304.65° E  
Status : INTELSAT APPROVED

Plot Date: 12 April 2002  
acp2devproj2.apr





INTELSAT 709 at 304.65°E Antenna Coverage  
S/C Platform Bias : 1.00°E 0.30°N  
YAW : 0.00°

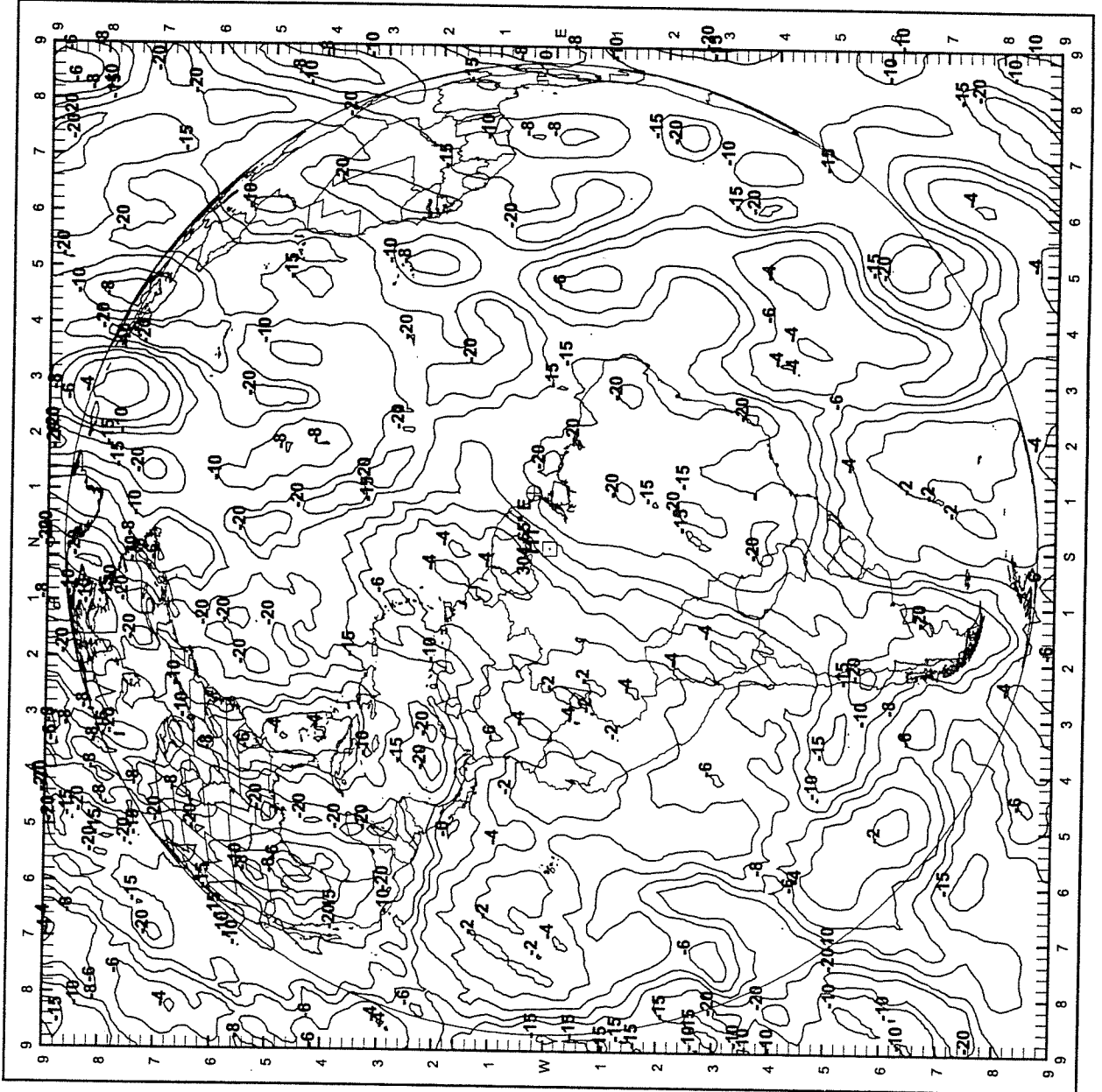
Peak Gain (Downlink X-pol) (See +)  
HI : -5.1 dBi

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

Beam Frequencies  
HI : 3924

Polarization  
HI : Circular LHCP

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





INTELSAT 709 at 304.65°E Antenna Coverage  
S/C Platform Bias : 1.00°E 0.30°N  
YAW : 0.00°

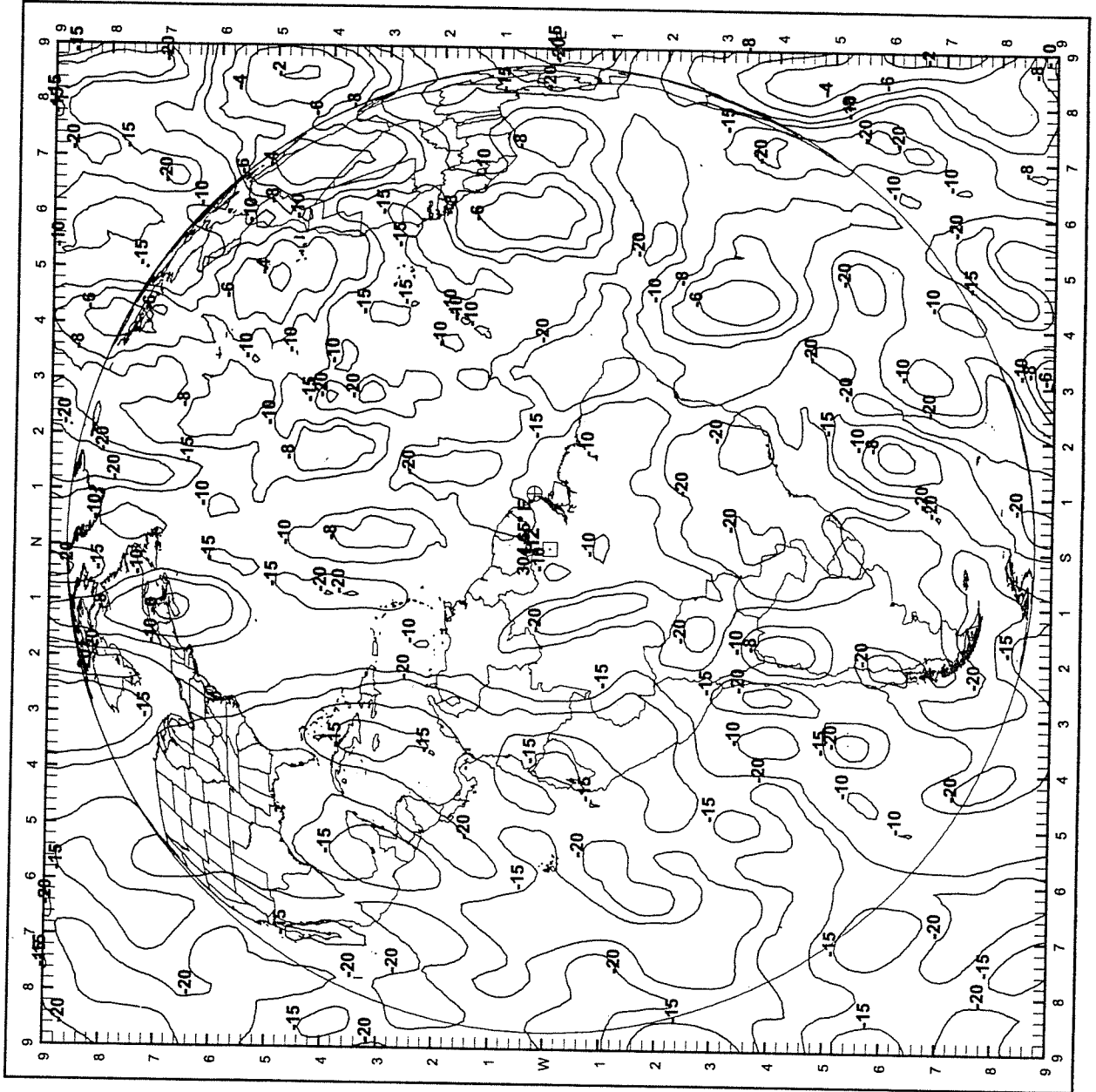
Peak Gain (Downlink X-pol) (See +)  
H2 : -0.0 dBi

Contour Levels  
H2 : -2, -4, -6, -8, -10, -15, -20 dB

Beam Frequencies  
H2 : 3924

Polarization  
H2 : Circular LHCP

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





INTELSAT 709 at 304.65°E Antenna Coverage  
S/C Platform Bias : 1.00°E 0.30°N  
YAW : 0.00°

Peak Gain (Downlink X-pol) (See +)  
ZA : -3.1 dB

Contour Levels

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

Beam Frequencies

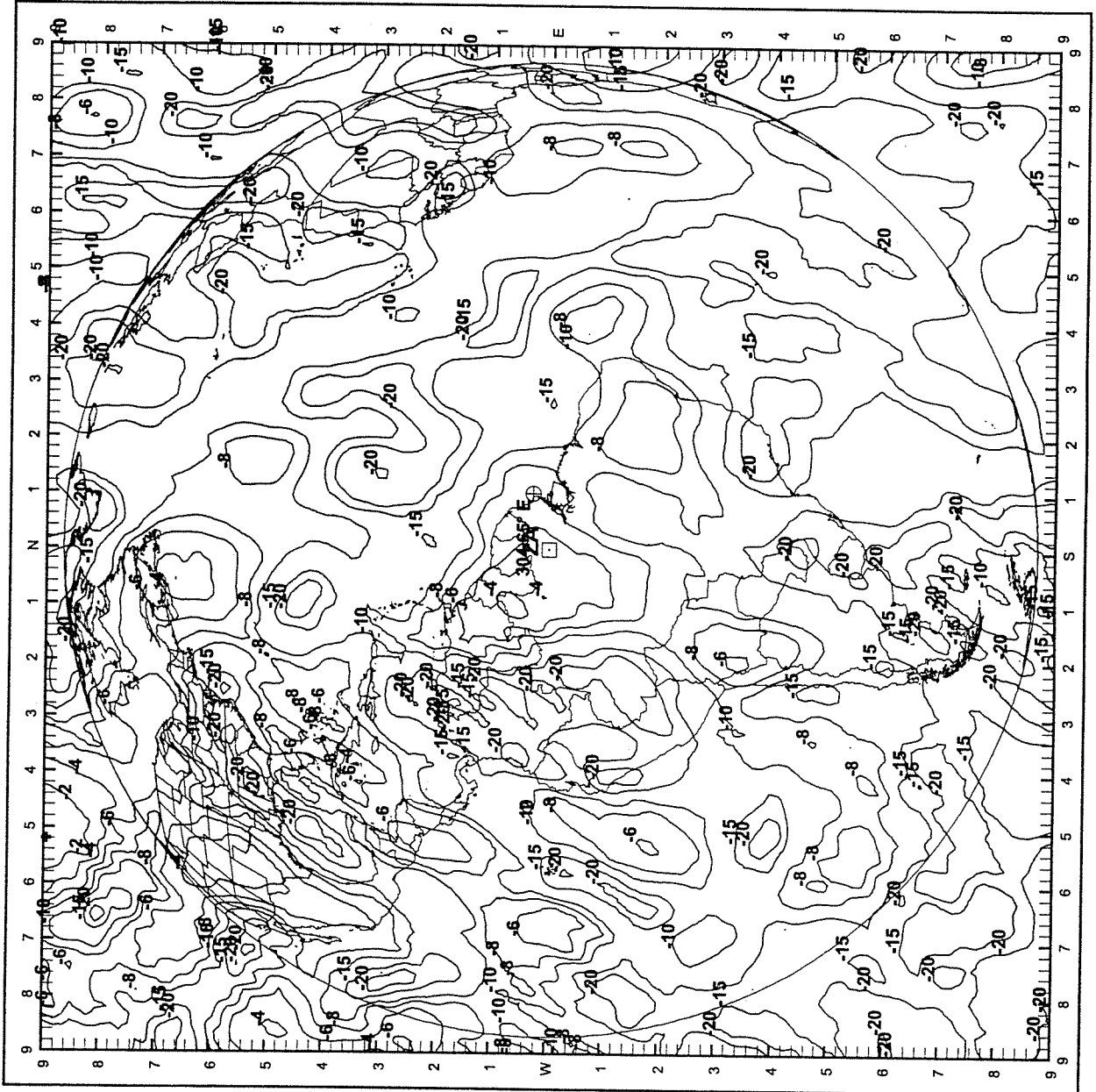
ZA : 3924

Polarization

ZA : Circular RHCP

Square : Sub-Satellite Point

Circle : Sat.Ant.Platform Bias





INTELSAT 709 at 304.65°E Antenna Coverage  
S/C Platform Bias : 1.00°E 0.30°N  
YAW : 0.00°

Peak Gain (Downlink X-pol) (See +)  
ZB : -1.5 dBi

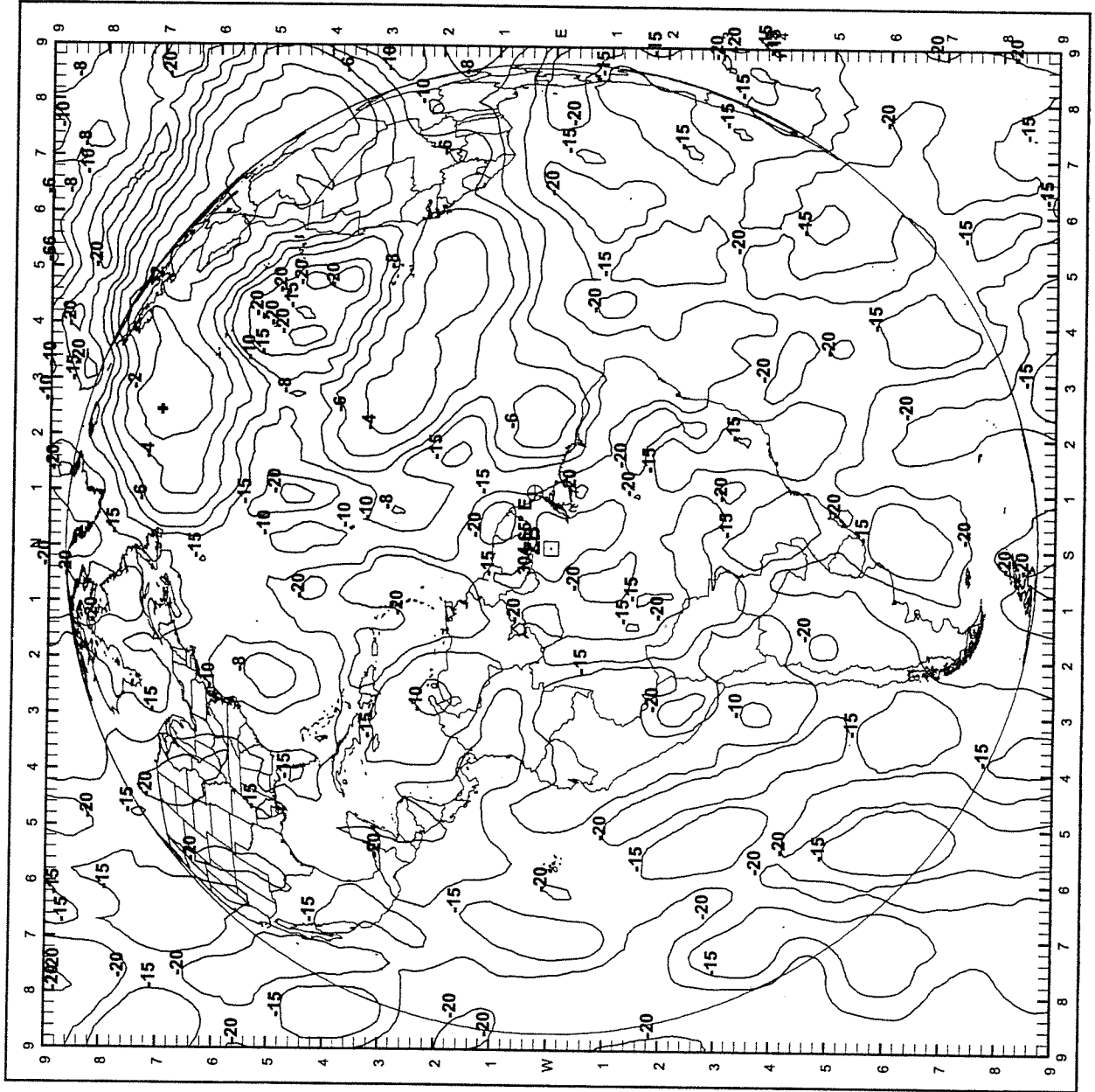
Contour Levels  
ZB : -2, -4, -6, -8, -10, -15,  
-20 dB

Beam Frequencies  
ZB : 3924

Polarization  
ZB : Circular RHCP

Square : Sub-Satellite Point

Circle : Sat.Ant.Platform Bias





INTELSAT 709 at 304.65°E Antenna Coverage  
S/C Platform Bias : 1.00°E 0.30°N  
YAW : 0.00°

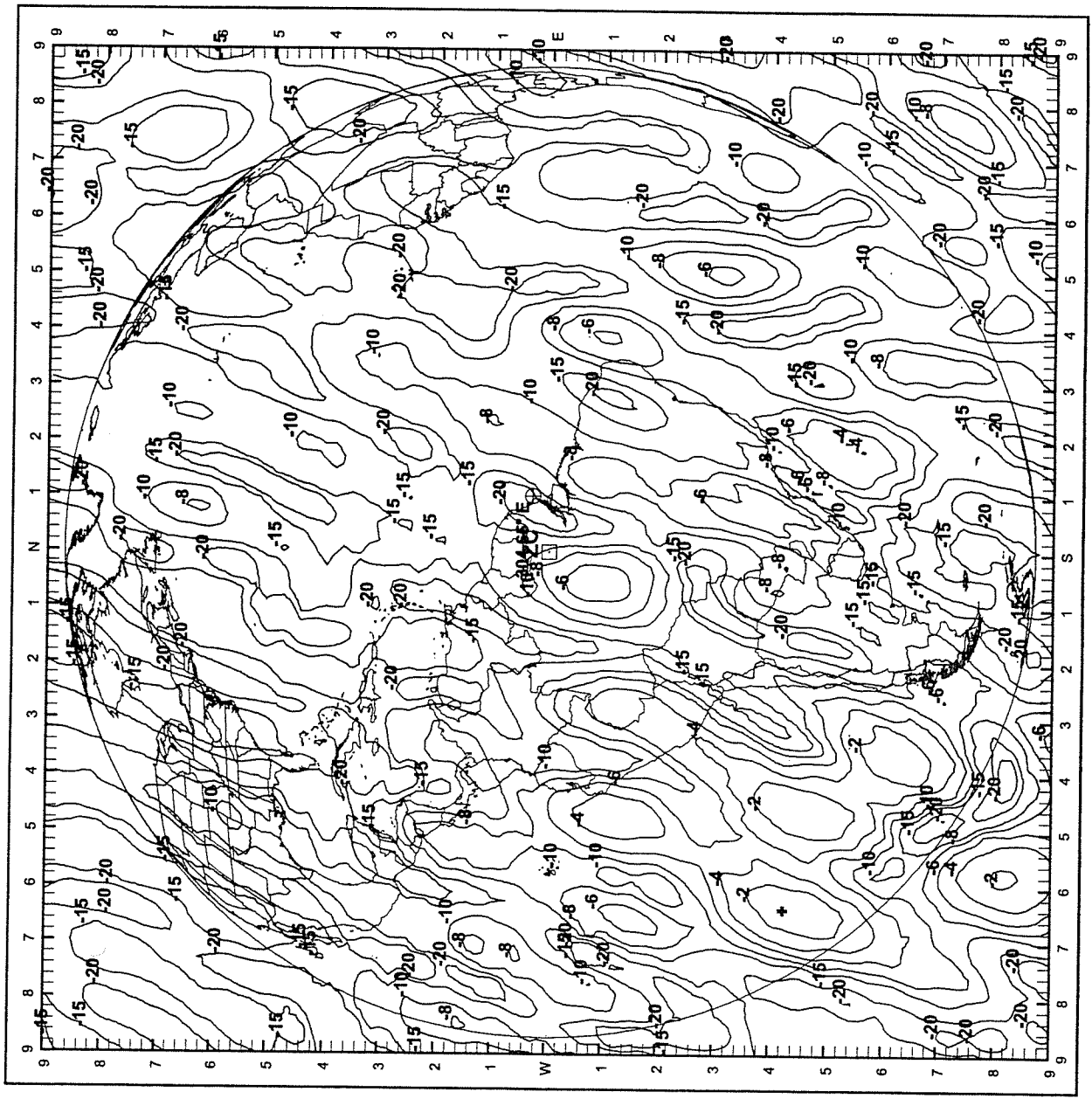
Peak Gain (Downlink X-pol) (See +)  
ZC : -0.0 dBi

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

Beam Frequencies  
ZC : 3924

Polarization  
ZC : Circular RHCP

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





INTELSAT 709 at 304.65°E Antenna Coverage  
S/C Platform Bias : 1.00°E 0.30°N  
YAW : 0.00°

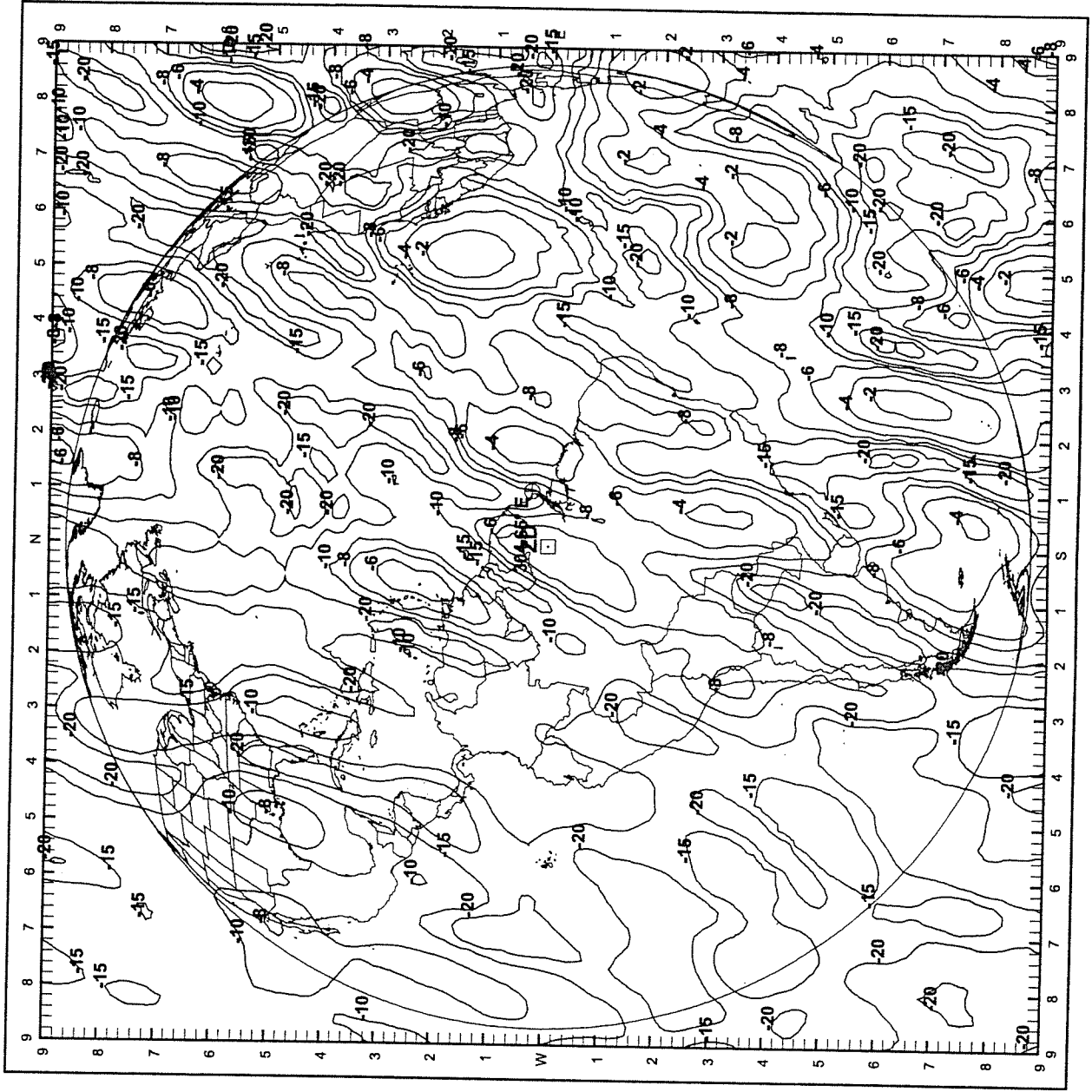
Peak Gain (Downlink X-pol) (See +)  
ZD : -2.0 dBi

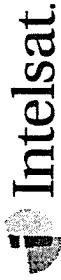
Contour Levels  
ZD : -2, -4, -6, -8, -10, -15, -20 dB

Beam Frequencies  
ZD : 3924

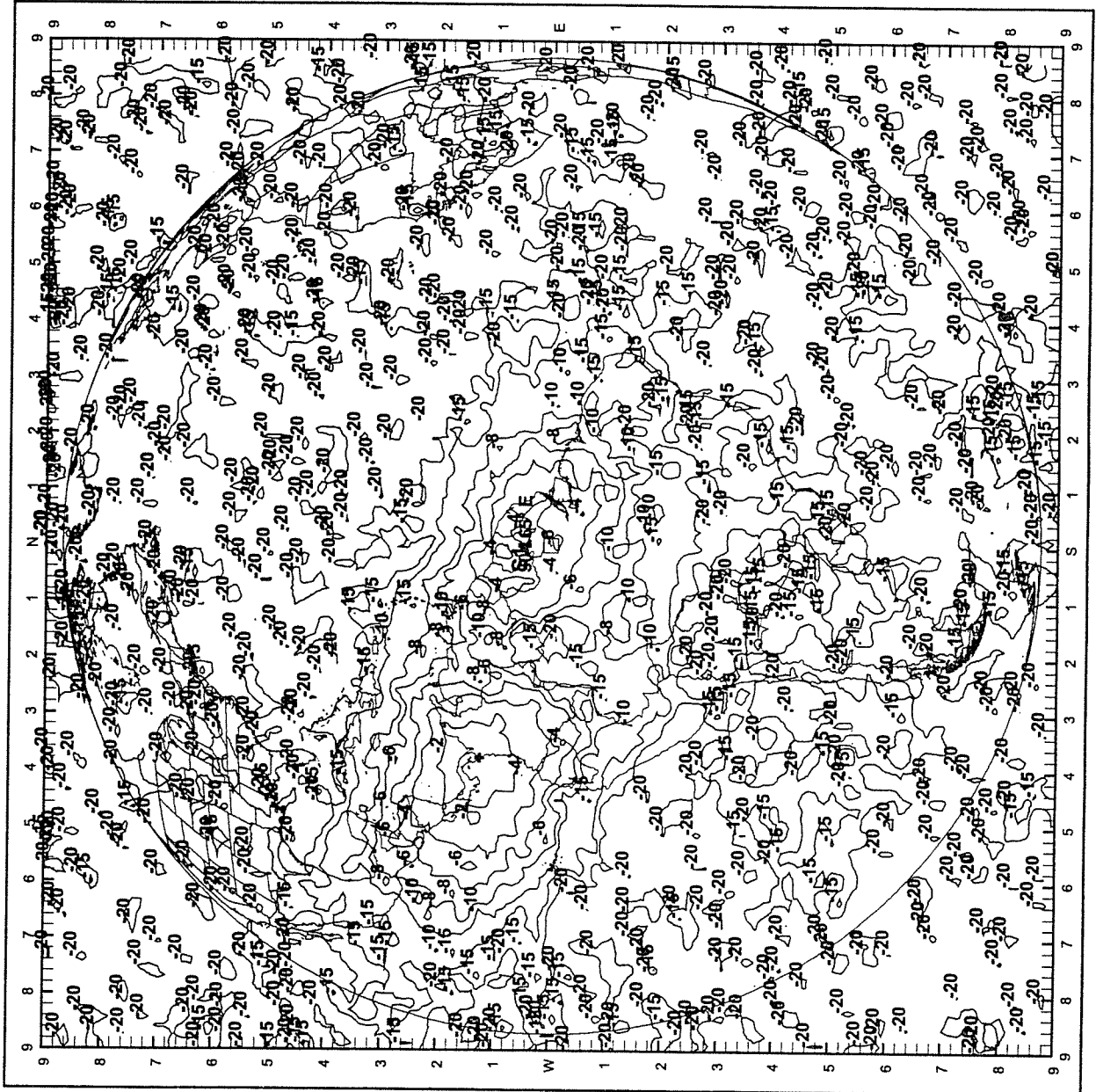
Polarization  
ZD : Circular RHCP

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



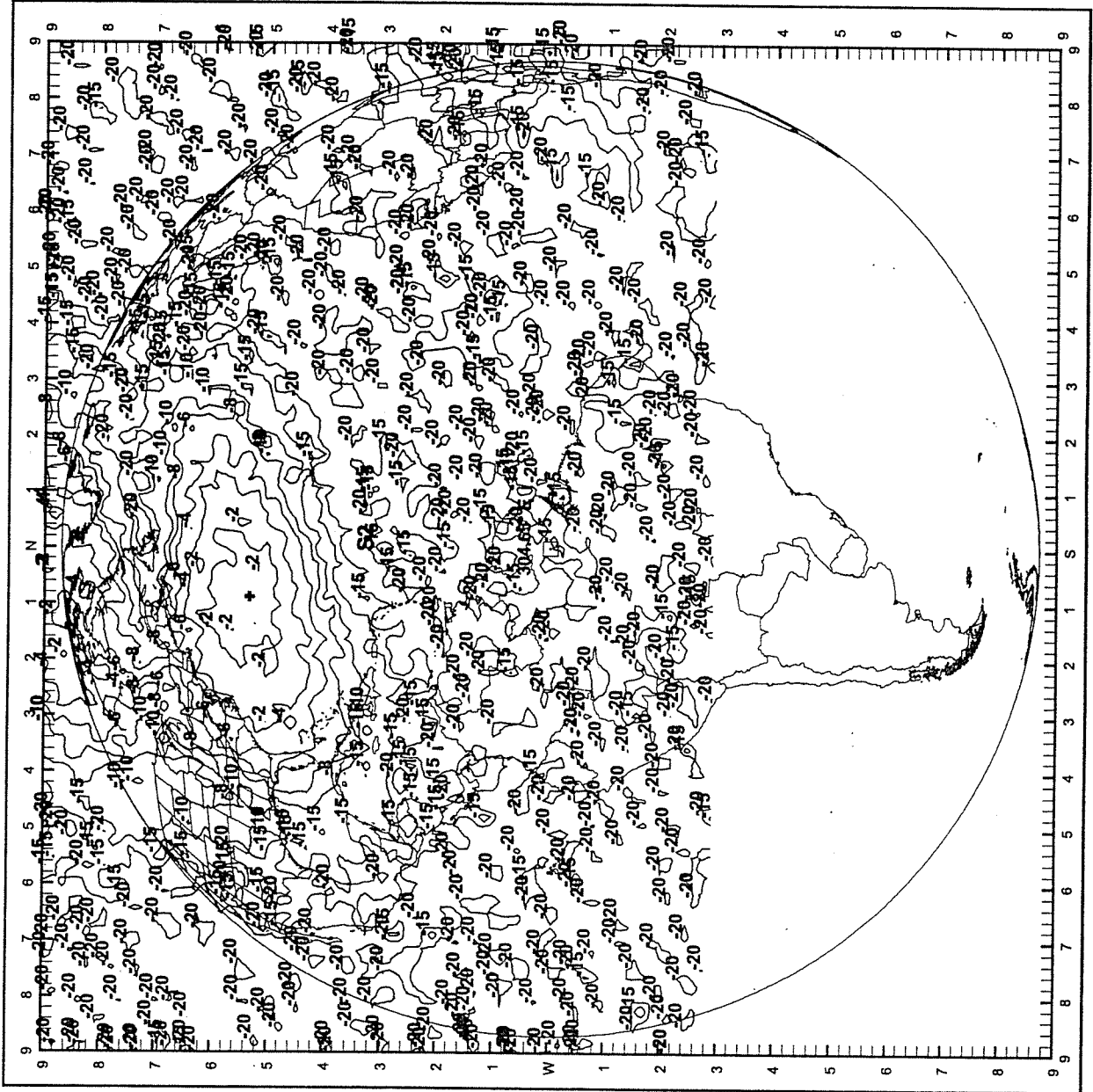


INTELSAT 709 at 304.65°E Antenna Coverage  
S/C Platform Bias : 1.00°E 0.30°N  
YAW : 0.00°  
Antenna Pointing : 1.89°W 0.64°N  
Peak Gain (Downlink X-pol) (See +)  
SI : 10.9 dBi  
Contour Levels : -2, -4, -6, -8, -10, -15, -20 dB  
SI : 11174  
Beam Frequencies : Linear Horizontal  
SI : Sub-Satellite Point  
Square





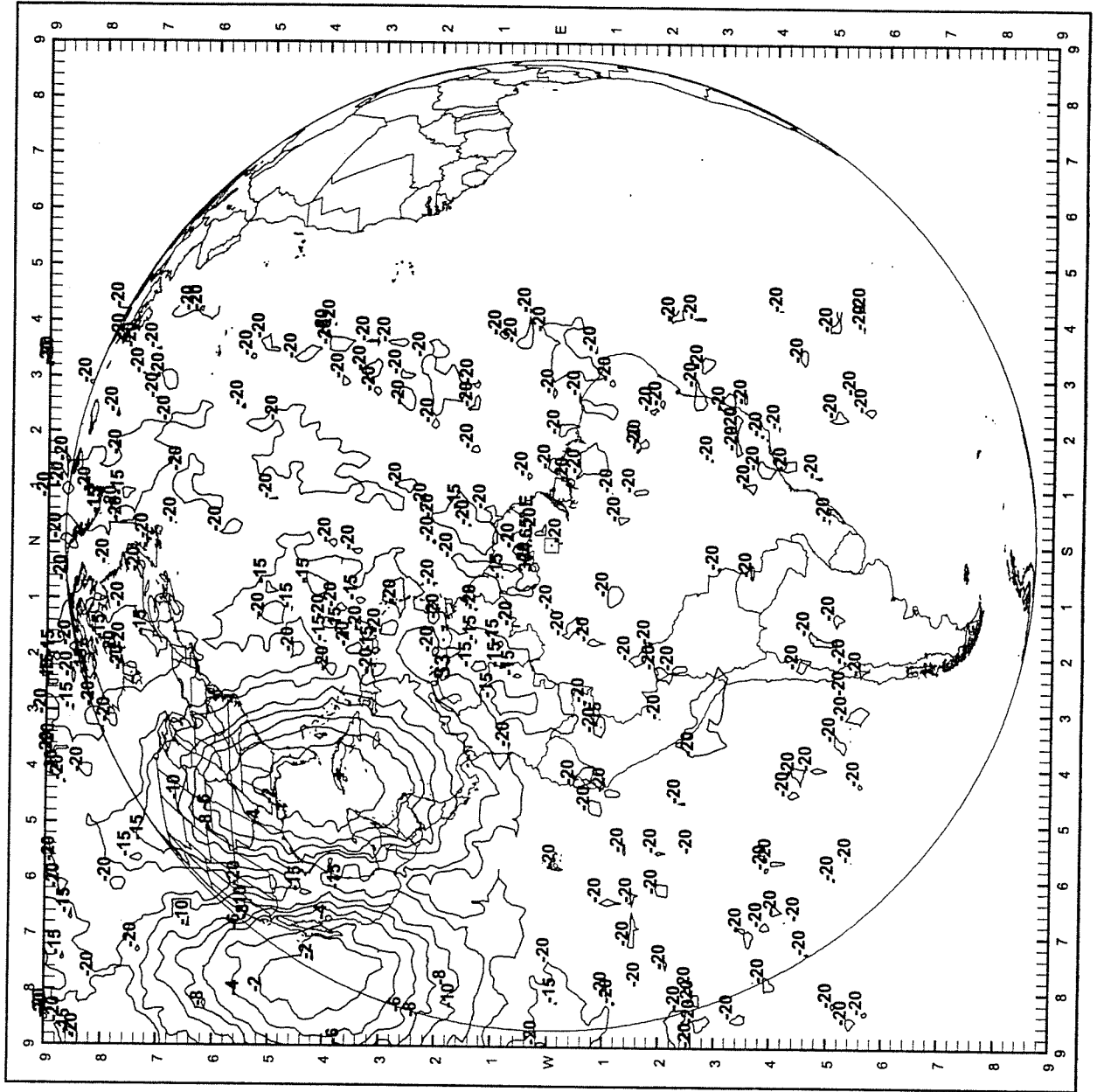
INTELSAT 709 at 304.65°E Antenna Coverage  
S/C Platform Bias : 1.00°E 0.30°N  
YAW : 0.00°  
Antenna Pointing S2 : 0.20°W 7.24°N  
Peak Gain (Downlink X-pol) (See +)  
S2 : 8.9 dBi  
Contour Levels S2 : -2, -4, -6, -8, -10, -15, -20 dB  
Beam Frequencies S2 : 11174  
Polarization S2 : Linear Vertical  
Square : Sub-Satellite Point





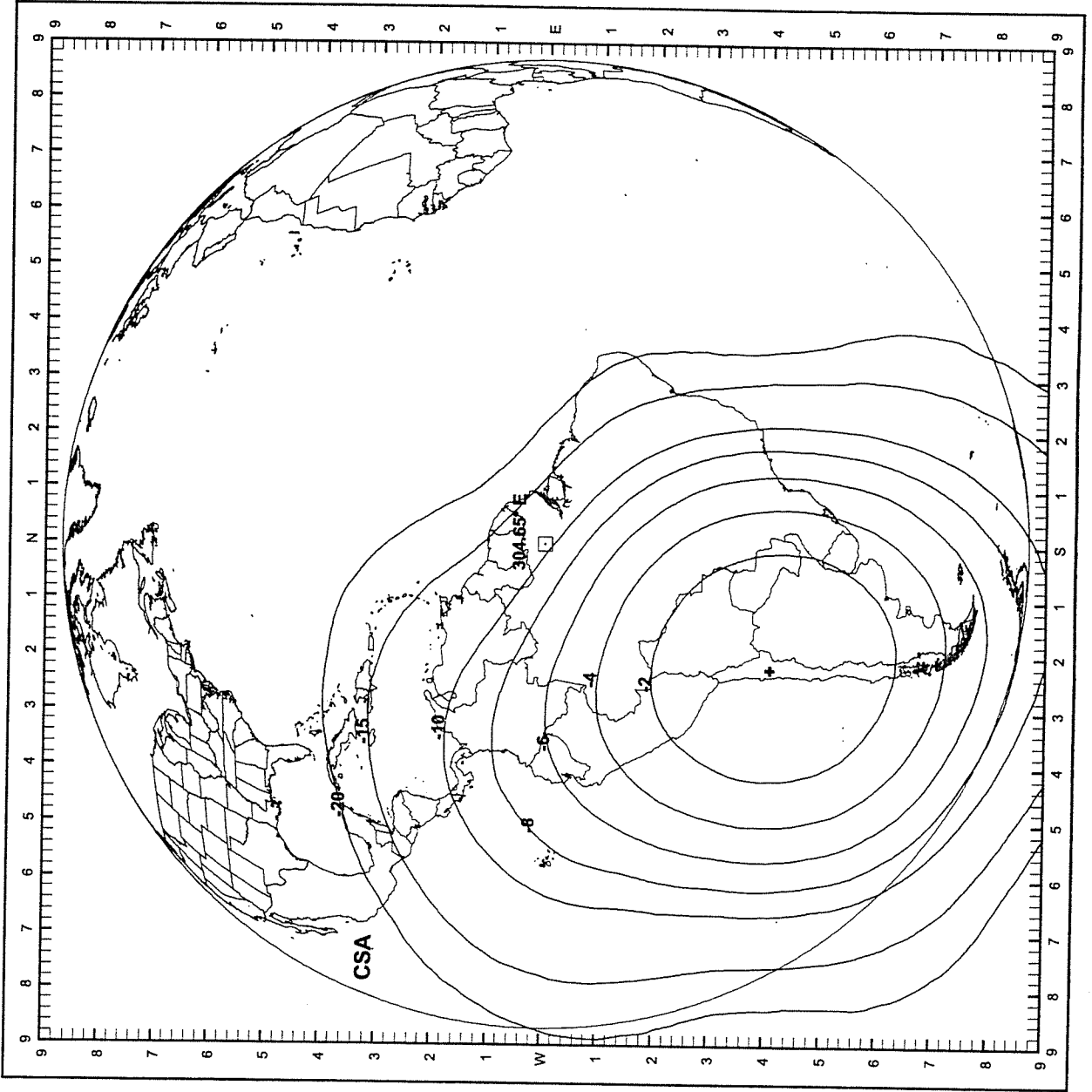


INTELSAT 709 at 304.65°E Antenna Coverage  
S/C Platform Bias : 1.00°E 0.30°N  
YAW : 0.00°  
Antenna Pointing  
S3 : 6.02°W 4.07°N  
Peak Gain (Downlink X-pol) (See +)  
S3 : 9.1 dBi  
Contour Levels  
S3 : -2, -4, -6, -8, -10, -15, -20 dB  
Beam Frequencies  
S3 : 11174  
Polarization  
S3 : Linear Horizontal  
Square : Sub-Satellite Point



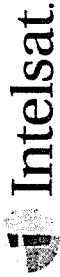


INTELSAT 709 at 304.65°E Antenna Coverage  
S/C Platform Bias : 1.00°E 0.30°N  
YAW : 0.00°  
Antenna Pointing  
CSA : 1.81°W 3.56°S  
Peak Gain (Uplink Co-pol) (See +)  
CSA : 30.3 dBi  
Beam Peak G/T  
CSA : 2.8 dB/K  
Contour Levels  
CSA : -2, -4, -6, -8, -10, -15, -20 dB  
Beam Frequencies  
CSA : 6320  
Polarization  
CSA : Circular LHCP  
Square : Sub-Satellite Point

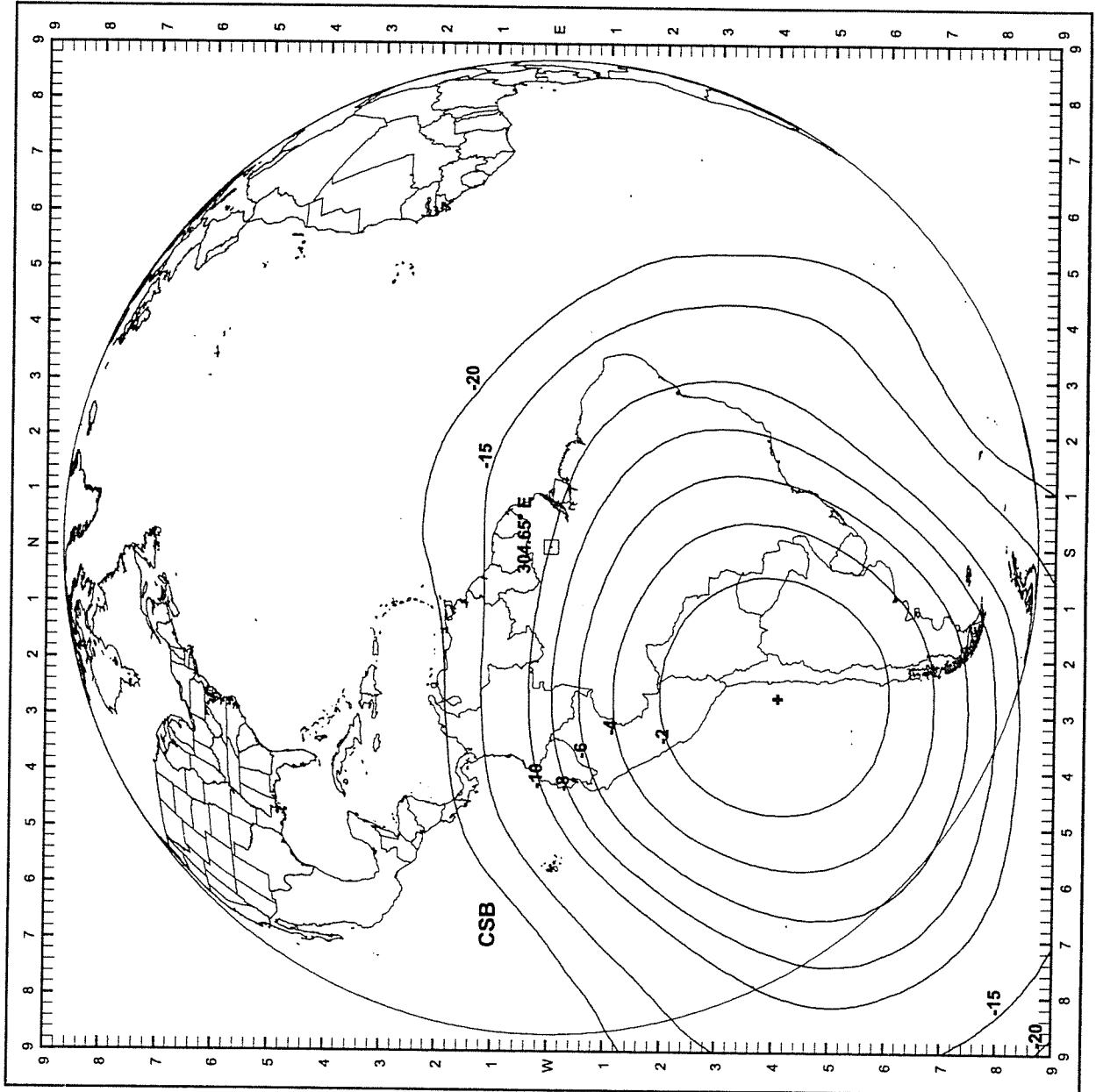


View : Orthographic 304.65° E  
Status : INTELSAT APPROVED

Plot Date: 12 April 2002  
acp2dev\proj2.apr

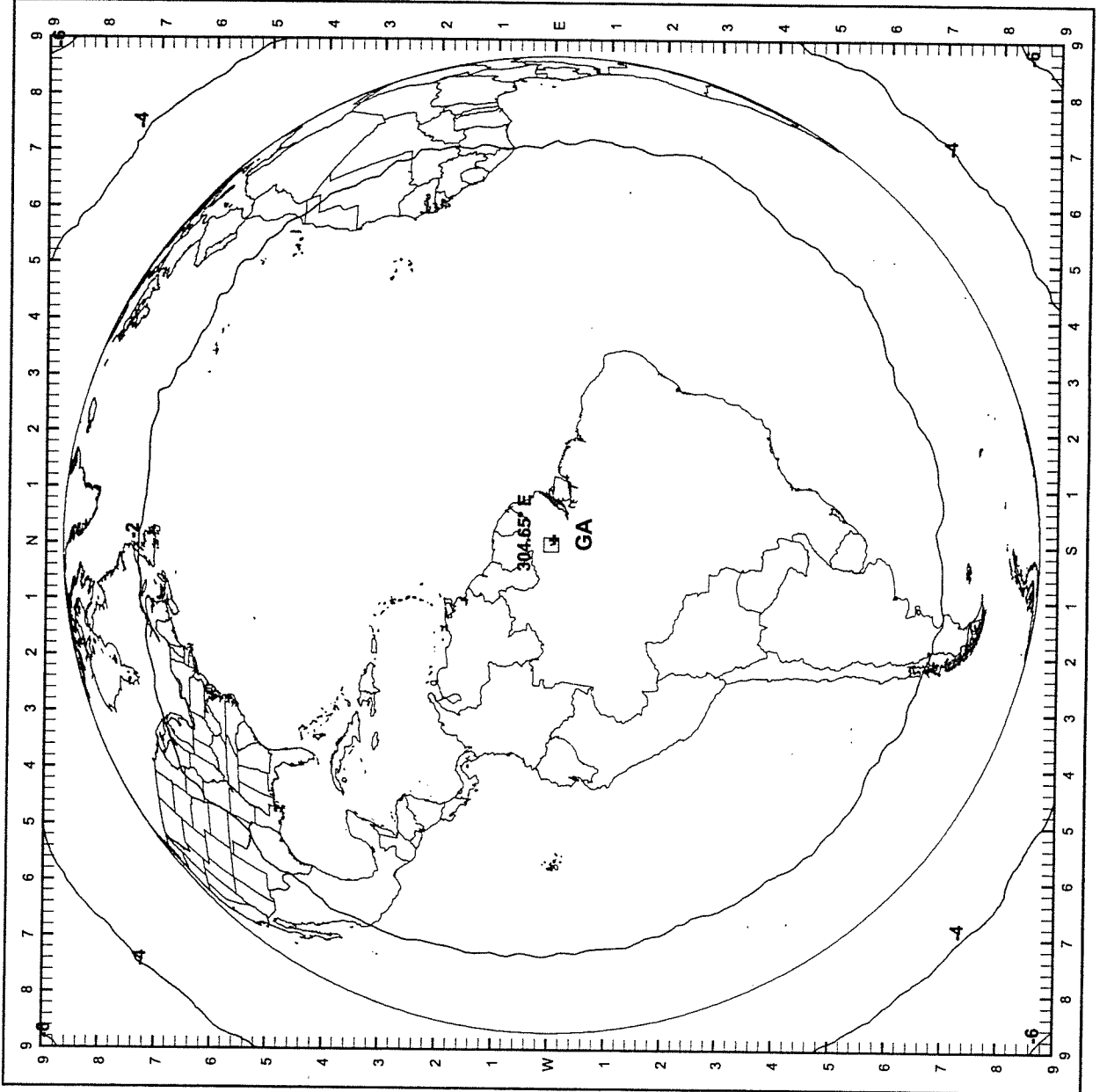


INTELSAT 709 at 304.65°E Antenna Coverage  
S/C Platform Bias : 1.00°E 0.30°N  
YAW : 0.00°  
Antenna Pointing  
CSB : 1.81°W 3.56°S  
Peak Gain (Uplink Co-pol) (See +)  
CSB : 30.3 dBi  
Beam Peak G/T  
CSB : 2.8 dB/K  
Contour Levels  
CSB : -2, -4, -6, -8, -10, -15,  
-20 dB  
Beam Frequencies  
CSB : 6320  
Polarization  
CSB : Circular RHCP  
Square : Sub-Satellite Point



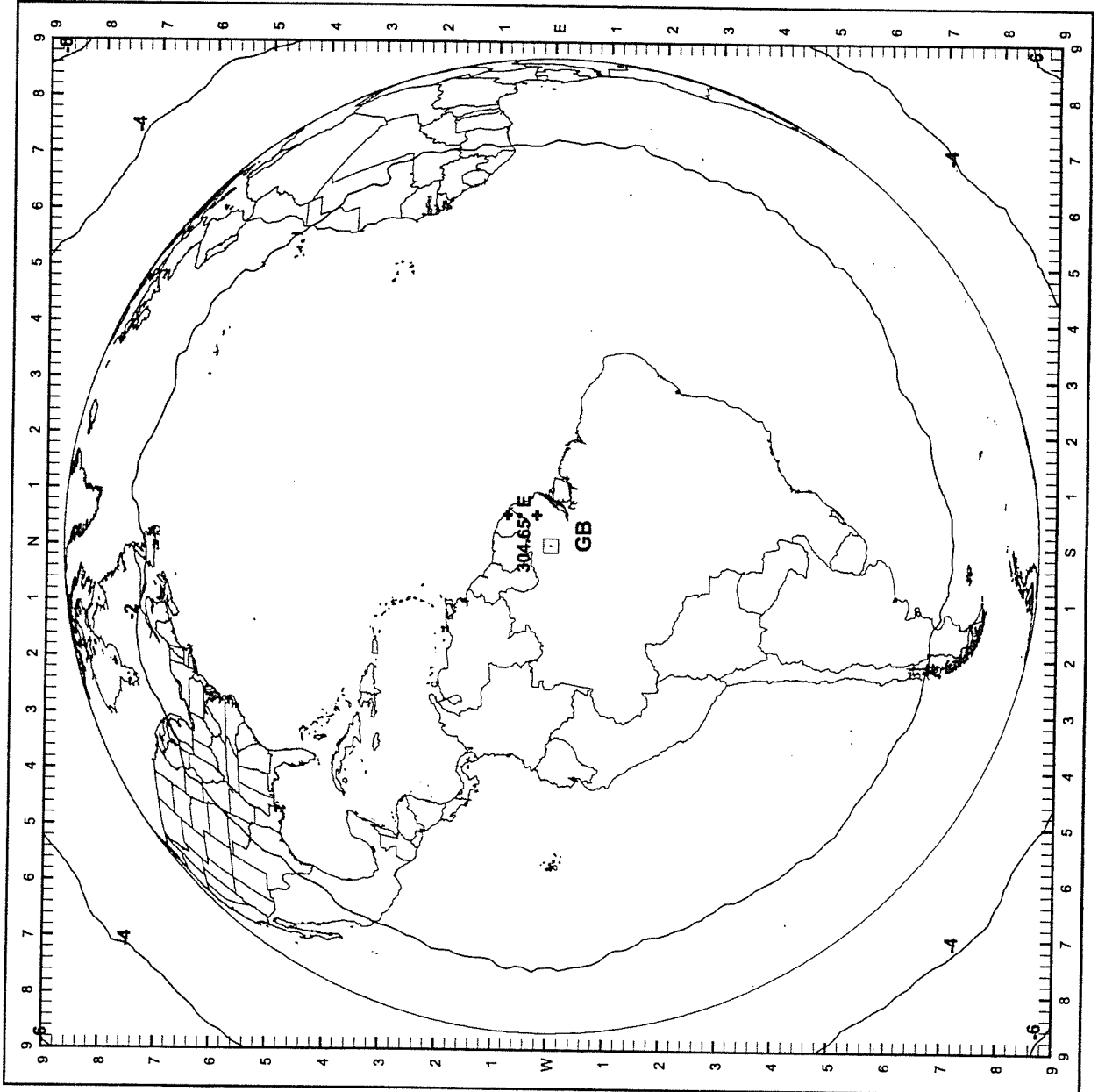


INTELSAT 709 at 304.65°E Antenna Coverage  
S/C Platform Bias : 1.00°E 0.30°N  
YAW : 0.00°  
Antenna Pointing  
GA : 0.00°E 0.30°N  
Peak Gain (Uplink Co-pol) (See +)  
GA : 20.3 dBi  
Beam Peak G/T  
GA : -7.2 dB/K  
Contour Levels  
GA : -2, -4, -6, -8, -10, -15, -20 dB  
Beam Frequencies  
GA : 6320  
Polarization  
GA : Circular LHCP  
Square : Sub-Satellite Point





INTELSAT 709 at 304.65°E Antenna Coverage  
S/C Platform Bias : 1.00°E 0.30°N  
YAW : 0.00°  
Antenna Pointing GB : 0.00°E 0.30°N  
Peak Gain (Uplink Co-pol) (See +)  
GB : 20.3 dBi  
Beam Peak G/T GB : -7.3 dB/K  
Contour Levels GB : -2, -4, -6, -8, -10, -15, -20 dB  
Beam Frequencies GB : 6320  
Polarization GB : Circular RHCP  
Square : Sub-Satellite Point

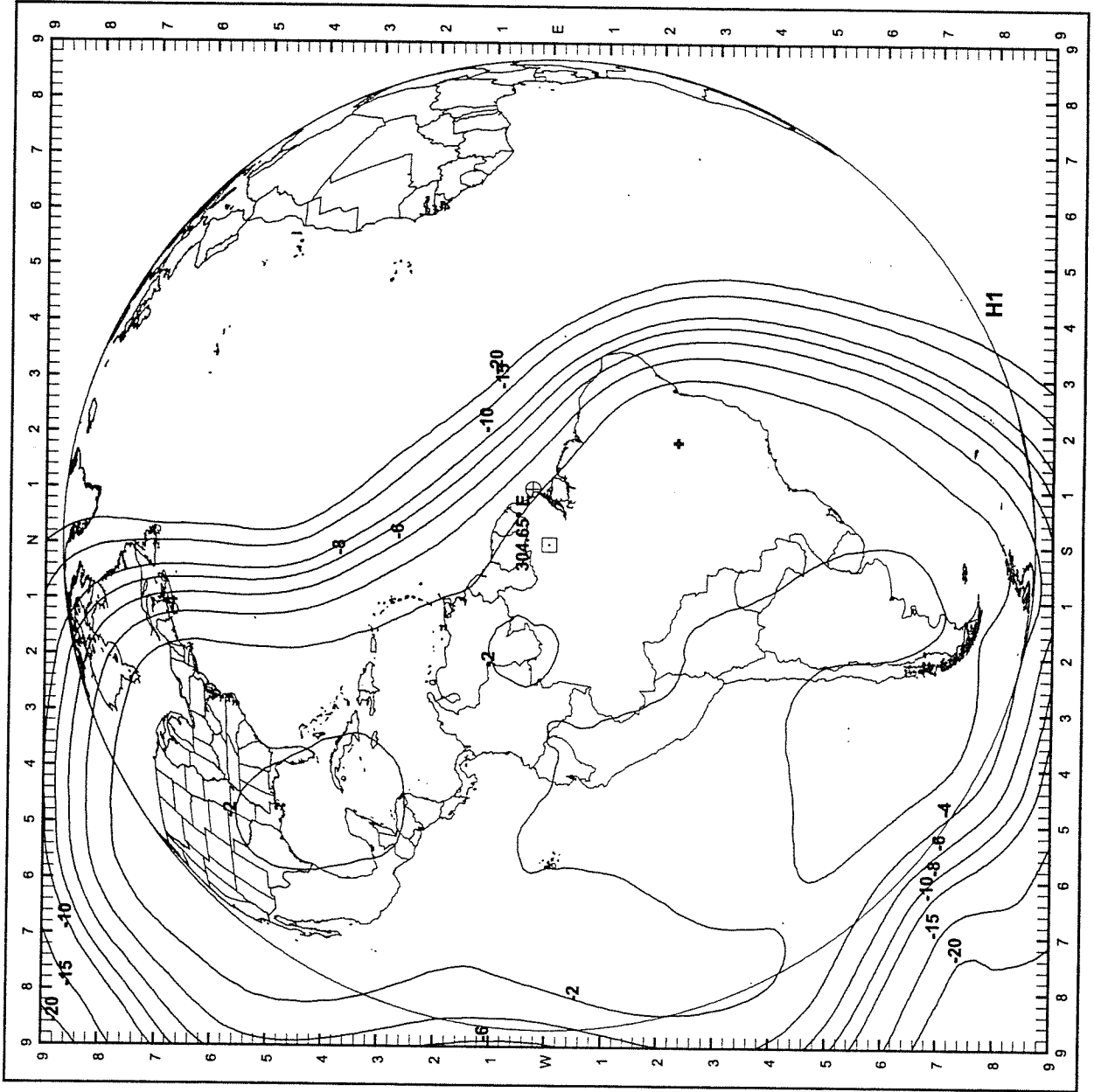


View : Orthographic 304.65° E  
Status : INTELSAT APPROVED

Plot Date: 12 April 2002  
acp2devproj2.apr



INTELSAT 709 at 304.65°E Antenna Coverage  
S/C Platform Bias : 1.00°E 0.30°N  
YAW : 0.00°  
Peak Gain (Uplink Co-pol) (See +)  
H1 : 23.9 dBi  
Beam Peak G/T  
H1 : -3.5 dB/K  
Contour Levels  
H1 : -2, -4, -6, -8, -10, -15,  
-20 dB  
Beam Frequencies  
H1 : 6149  
Polarization  
H1 : Circular LHCP  
Square : Sub-Satellite Point  
Circle : Sat.Ant.Platform Bias

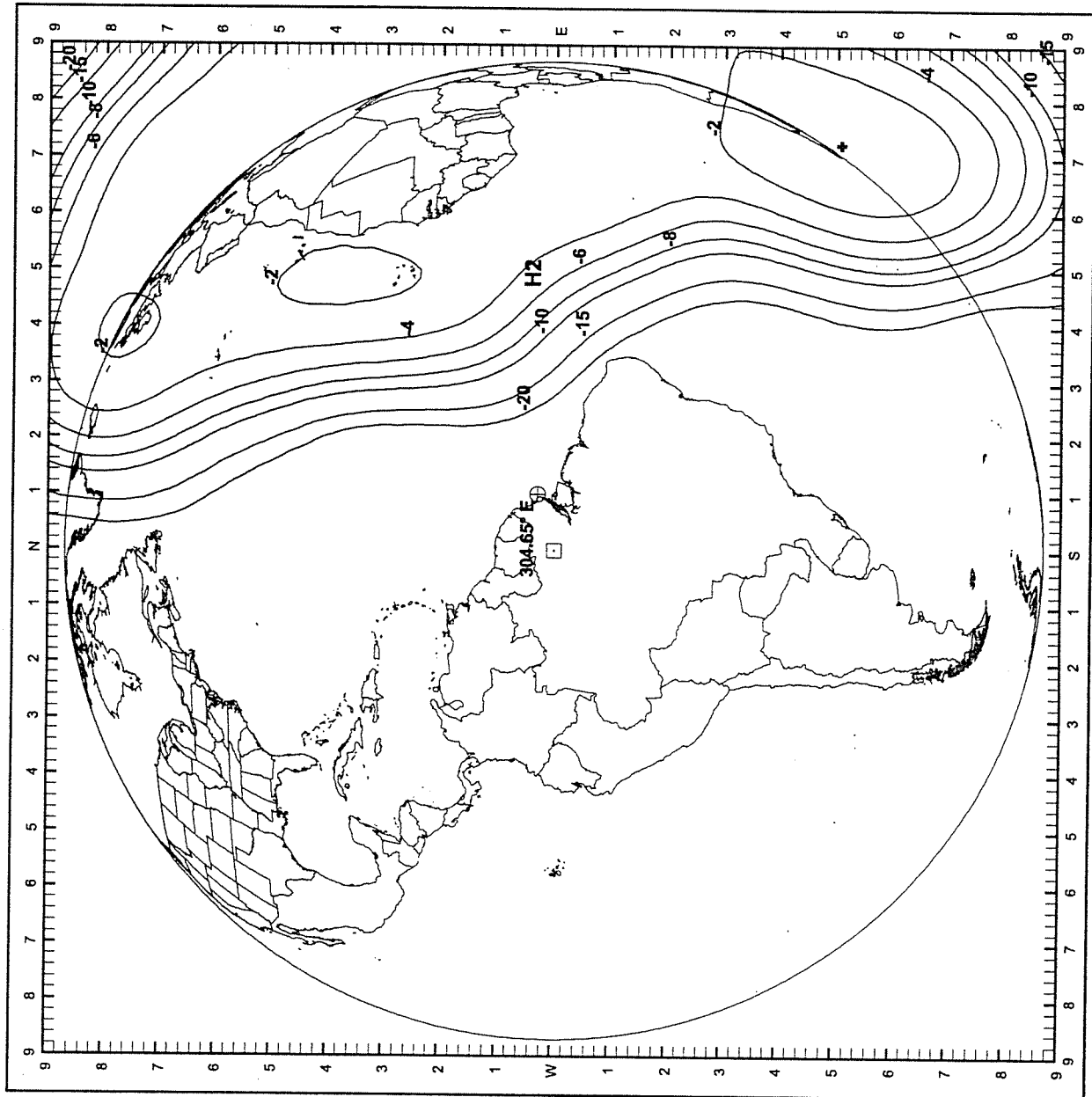


View : Orthographic 304.65° E  
Status : INTELSAT APPROVED

Plot Date: 12 April 2002  
acp2dev/proj2.apr

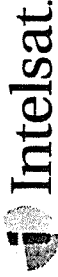


INTELSAT 709 at 304.65°E Antenna Coverage  
S/C Platform Bias : 1.00°E 0.30°N  
YAW : 0.00°  
Peak Gain (Uplink Co-pol) (See +)  
H2 : 25.7 dBi  
Beam Peak G/T  
H2 : -1.6 dB/K  
Contour Levels  
H2 : -2, -4, -6, -8, -10, -15, -20 dB  
Beam Frequencies : 6149  
Polarization : Circular LHCP  
Square : Sub-Satellite Point  
Circle : Sat.Ant.Platform Bias



View : Orthographic 304.65° E  
Status : INTELSAT APPROVED

Plot Date: 12 April 2002  
acp2devproj2.apr



INTELSAT 709 at 304.65°E Antenna Coverage  
S/C Platform Bias : 1.00°E 0.30°N  
YAW : 0.00°

Peak Gain (Uplink Co-pol) (See +)  
ZD : 27.0 dBi  
ZA : 26.9 dBi

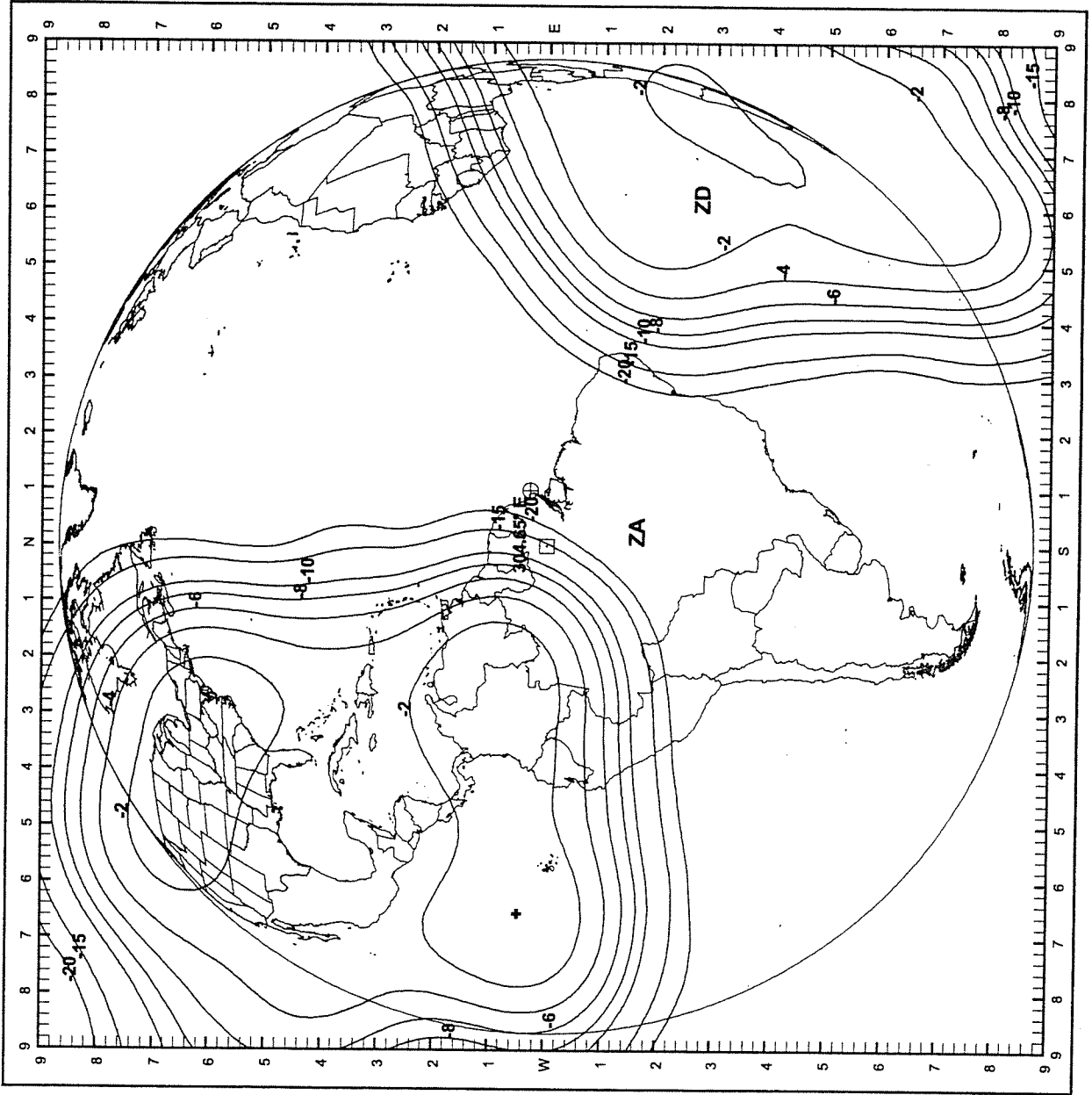
Beam Peak G/T  
ZD : -0.2 dB/K  
ZA : -0.2 dB/K

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

Beam Frequencies  
ZD : 6149  
ZA : 6149

Polarization  
ZD : Circular RHCP  
ZA : Circular RHCP

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



View : Orthographic 304.65° E  
Status : INTELSAT APPROVED

Plot Date: 12 April 2002  
app2dev\proj2.apr





INTELSAT 709 at 304.65°E Antenna Coverage  
 S/C Platform Bias : 1.00°E 0.30°N  
 YAW : 0.00°

Peak Gain (Uplink Co-pol) (See +)  
 ZC : 27.9 dBi  
 ZB : 28.2 dBi

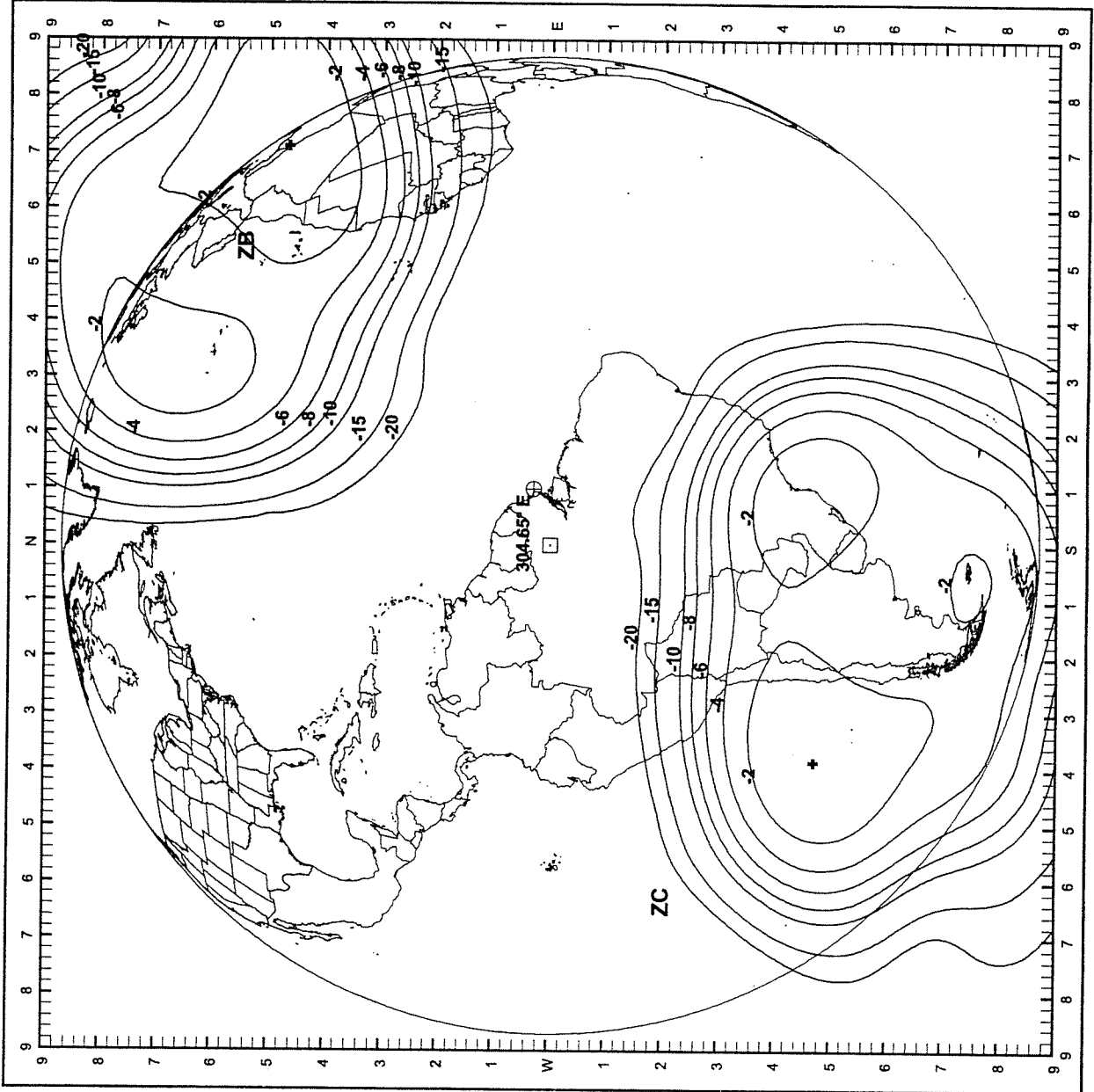
Beam Peak G/T  
 ZC : 0.7 dB/K  
 ZB : 1.0 dB/K

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

Beam Frequencies  
 ZC : 6149  
 ZB : 6149

Polarization  
 ZC : Circular RHCP  
 ZB : Circular RHCP

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



Plot Date: 12 April 2002  
 acp2dev\proj2.apr

View : Orthographic 304.65° E  
 Status : INTELSAT APPROVED



INTELSAT 709 at 304.65°E Antenna Coverage  
S/C Platform Bias : 1.00°E 0.30°N  
YAW : 0.00°  
Antenna Pointing  
SI : 1.89°W 0.64°N

Peak Gain (Uplink Co-pol) (See +)  
SI : 37.0 dBi

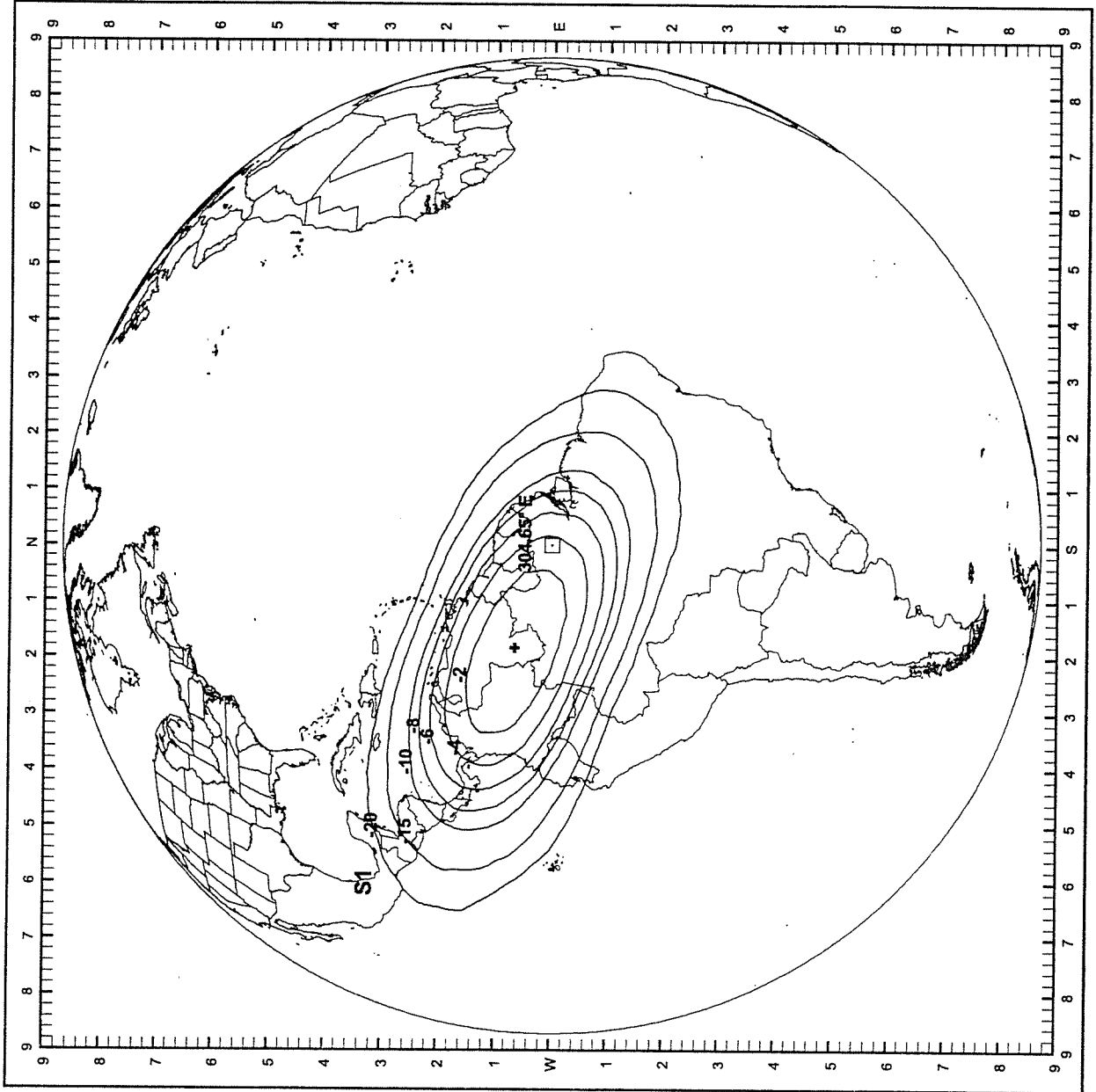
Beam Peak G/T  
SI : 9.1 dB/K

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

Beam Frequencies  
SI : 14224

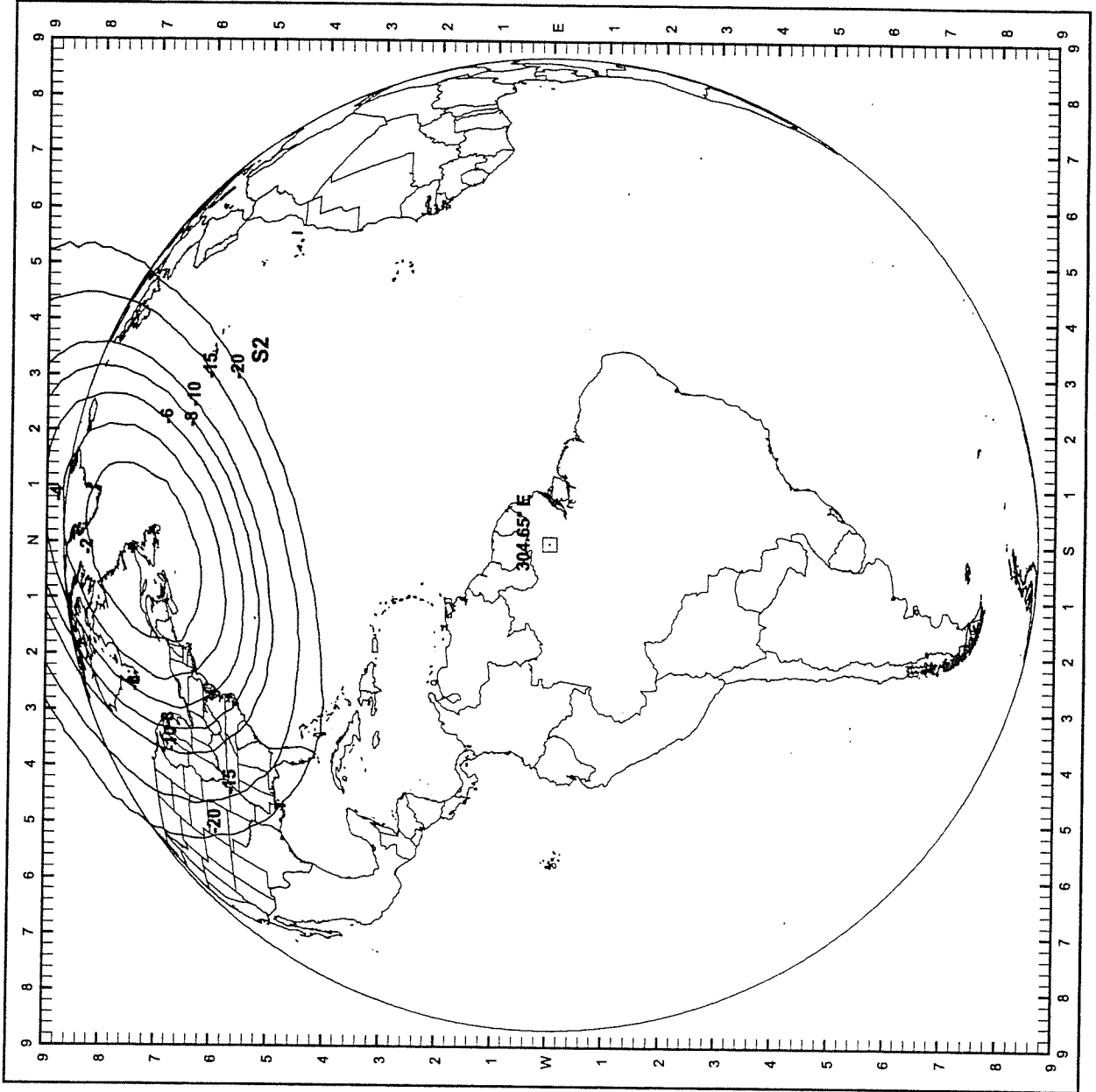
Polarization  
SI : Linear Horizontal

Square : Sub-Satellite Point





INTELSAT 709 at 304.65°E Antenna Coverage  
S/C Platform Bias : 1.00°E 0.30°N  
YAW : 0.00°  
Antenna Pointing  
S2 : 0.20°W 7.24°N  
Peak Gain (Uplink Co-pol) (See +)  
S2 : 34.8 dBi  
Beam Peak G/T : 6.8 dB/K  
Contour Levels : -2, -4, -6, -8, -10, -15, -20 dB  
Beam Frequencies : 14224  
Polarization : Linear Vertical  
S2 :  
Square : Sub-Satellite Point

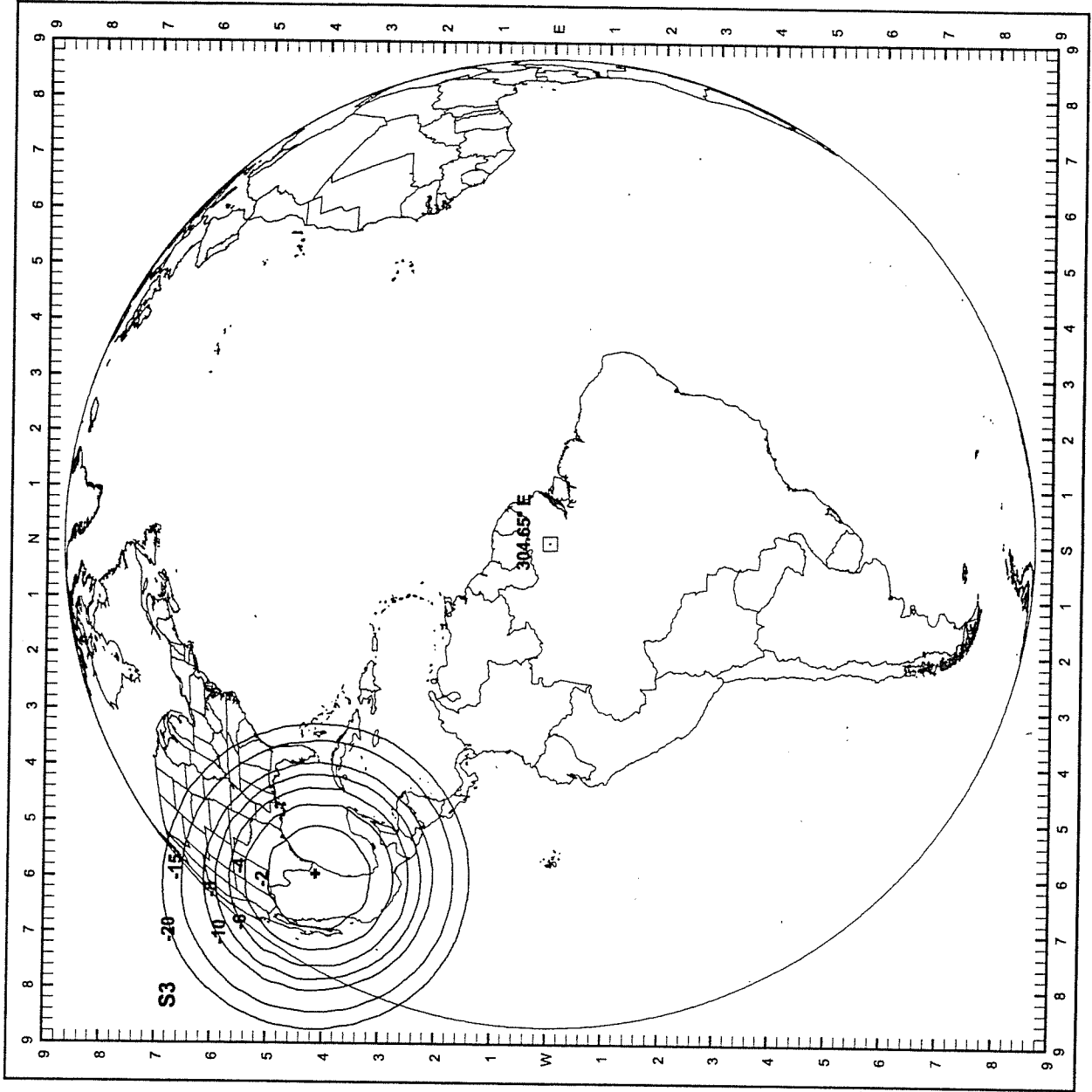


View : Orthographic 304.65° E  
Status : INTELSAT APPROVED

Plot Date: 12 April 2002  
acp2dev/proj2.apr



INTELSAT 709 at 304.65°E Antenna Coverage  
S/C Platform Bias : 1.00°E 0.30°N  
YAW : 0.00°  
Antenna Pointing  
S3 : 6.02°W 4.07°N  
Peak Gain (Uplink Co-pol) (See +)  
S3 : 37.7 dBi  
Beam Peak G/T  
S3 : 9.3 dB/K  
Contour Levels  
S3 : -2, -4, -6, -8, -10, -15,  
-20 dB  
Beam Frequencies  
S3 : 14224  
Polarization  
S3 : Linear Horizontal  
Square : Sub-Satellite Point



View : Orthographic 304.65° E  
Status : INTELSAT APPROVED

Plot Date: 12 April 2002  
acp2dev\proj2.apr



INTELSAT 709 at 304.65°E Antenna Coverage  
S/C Platform Bias : 1.00°E 0.30°N  
YAW : 0.00°  
Antenna Pointing  
CSA : 1.81°W 3.56°S

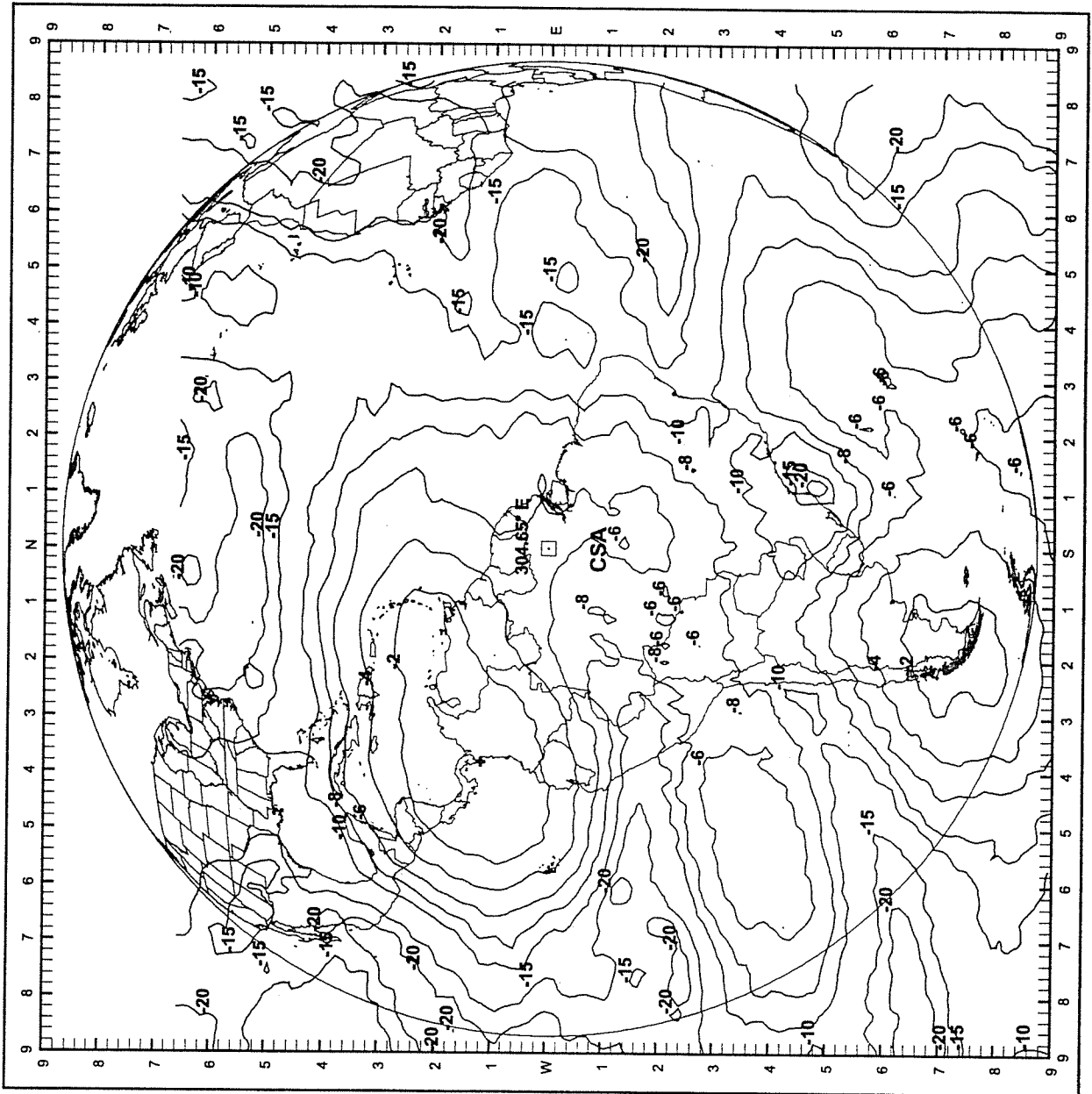
Peak Gain (Uplink X-pol) (See +)  
CSA : 4.6 dBi

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

Beam Frequencies  
CSA : 6320

Polarization  
CSA : Circular RHCP

Square : Sub-Satellite Point

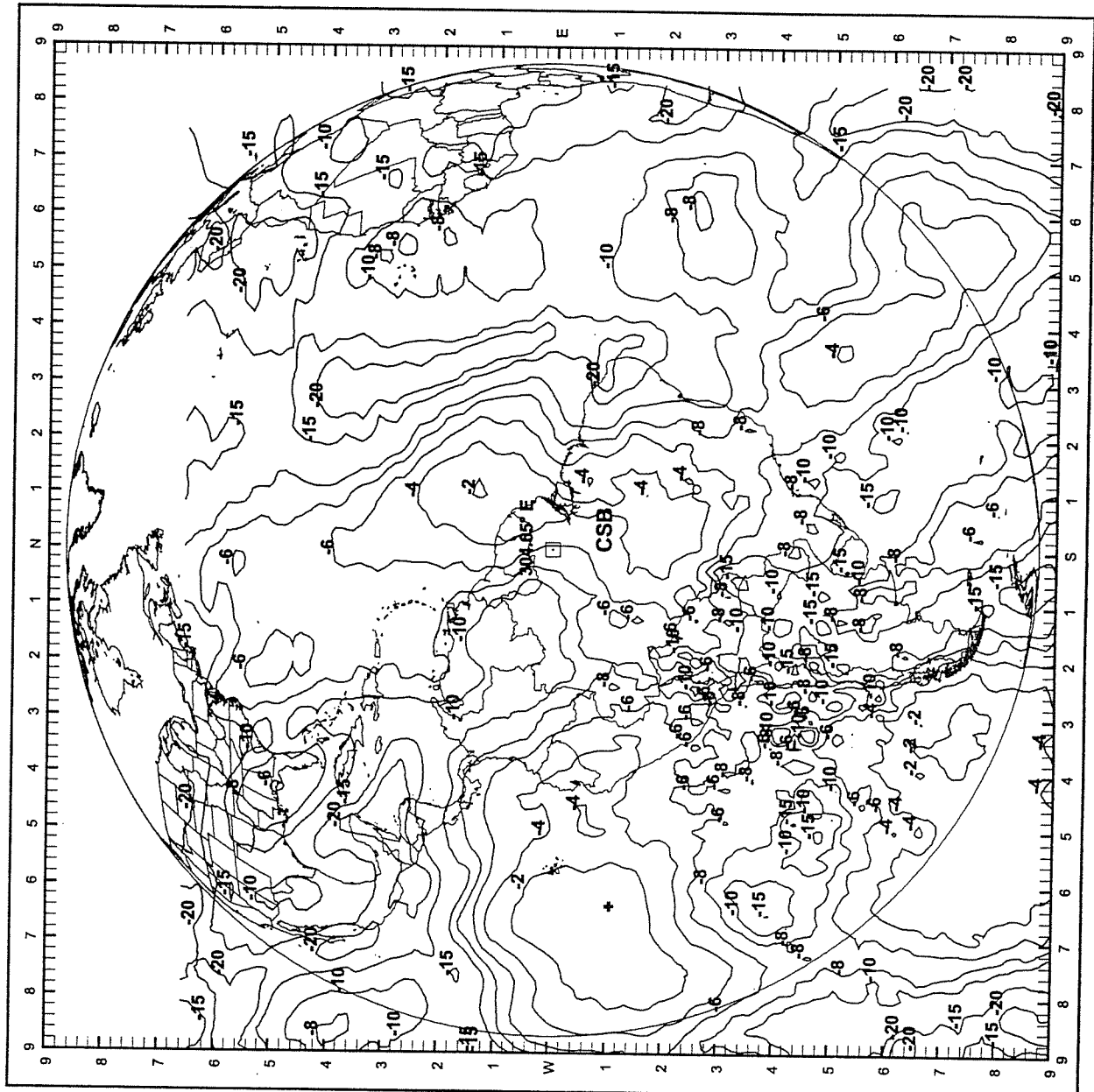


View : Orthographic 304.65° E  
Status : INTELSAT APPROVED

Plot Date: 12 April 2002  
acp2devproj2.apr



INTELSAT 709 at 304.65°E Antenna Coverage  
S/C Platform Bias : 1.00°E 0.30°N  
YAW : 0.00°  
Antenna Pointing  
CSB : 1.81°W 3.56°S  
Peak Gain (Uplink X-pol) (See +)  
CSB : 0.8 dBi  
Contour Levels : -2, -4, -6, -8, -10, -15, -20 dB  
Beam Frequencies : 6320  
Polarization : Circular LHCP  
CSB : Sub-Satellite Point  
Square

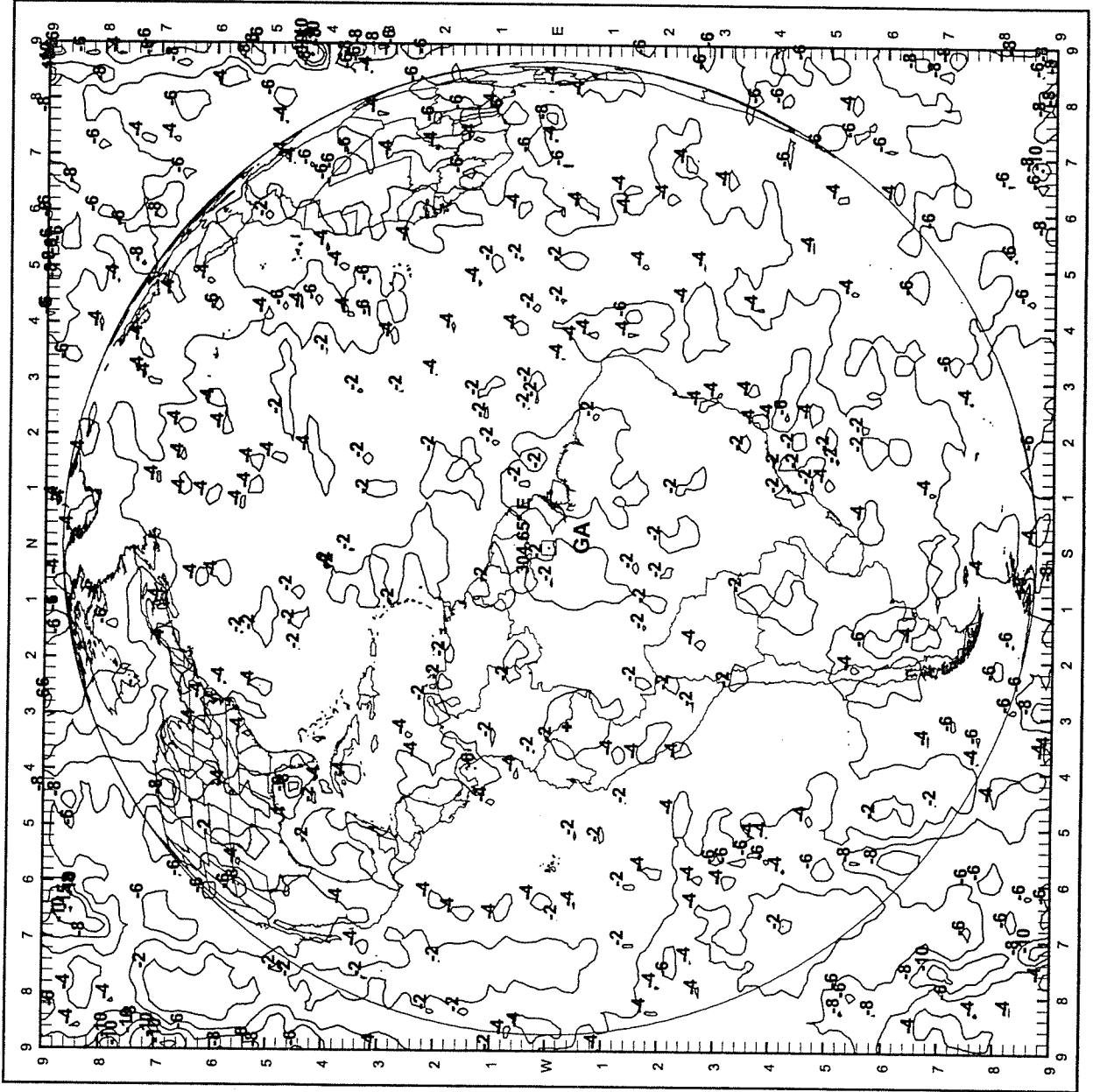


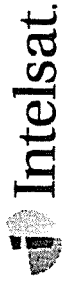
Plot Date: 12 April 2002  
acp2dev\proj2.apr

View : Orthographic 304.65° E  
Status : INTELSAT APPROVED

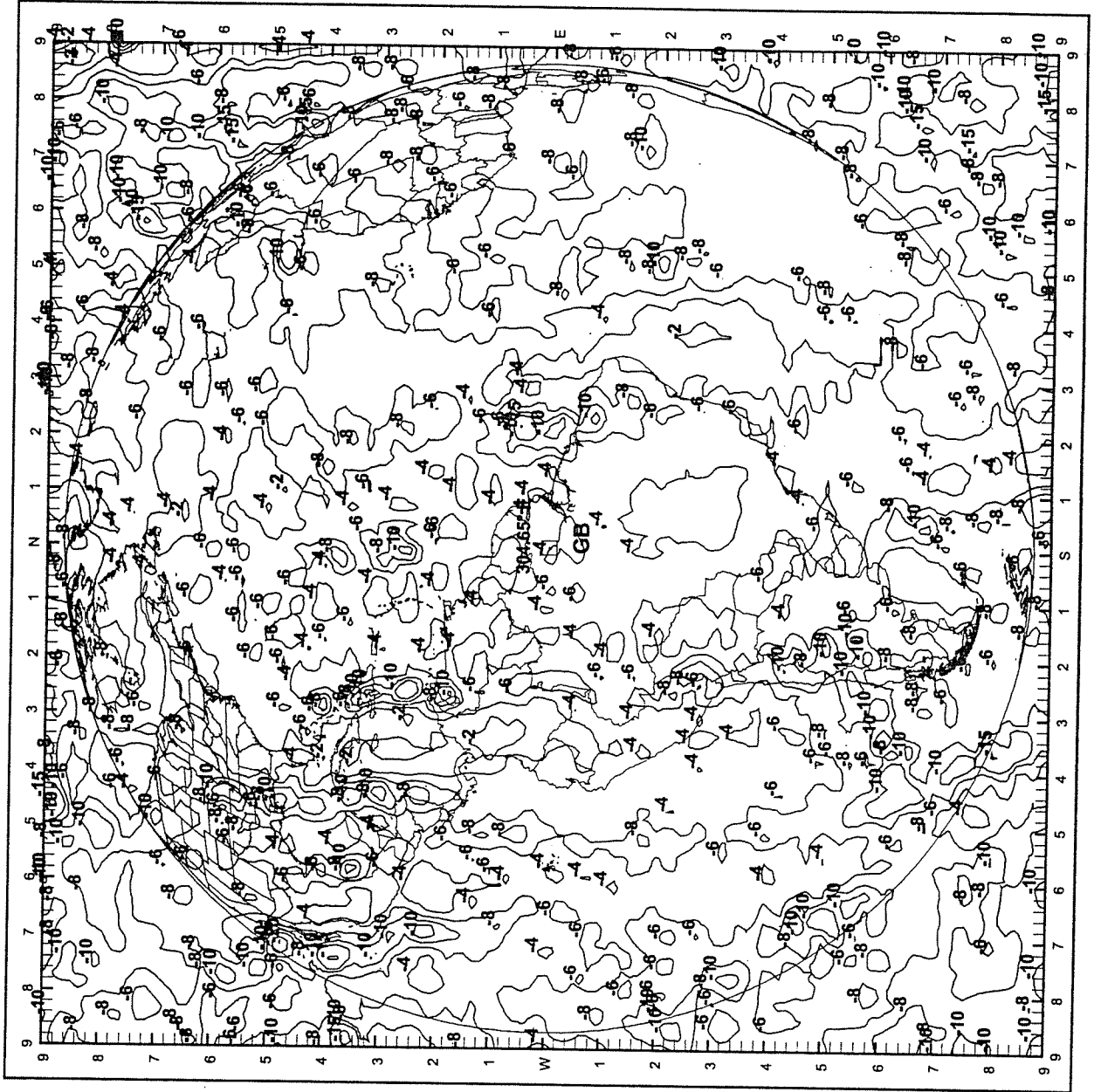


INTELSAT 709 at 304.65°E Antenna Coverage  
S/C Platform Bias : 1.00°E 0.30°N  
YAW : 0.00°  
Antenna Pointing  
GA : 0.00°E 0.30°N  
Peak Gain (Uplink X-pol) (See +)  
GA : -11.3 dBi  
Contour Levels  
GA : -2, -4, -6, -8, -10, -15,  
-20 dB  
Beam Frequencies  
GA : 6320  
Polarization  
GA : Circular RHCP  
Square : Sub-Satellite Point





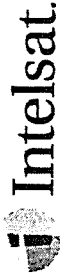
INTELSAT 709 at 304.65°E. Antenna Coverage  
S/C Platform Bias : 1.00°E 0.30°N  
YAW : 0.00°  
Antenna Pointing  
GB : 0.00°E 0.30°N  
Peak Gain (Uplink X-pol) (See +)  
GB : -10.9 dBi  
Contour Levels  
GB : -2, -4, -6, -8, -10, -15,  
-20 dB  
Beam Frequencies  
GB : 6320  
Polarization  
GB : Circular LHCP  
Square : Sub-Satellite Point



View : Orthographic 304.65° E  
Status : INTELSAT APPROVED

Plot Date: 12 April 2002  
acp2devproj2.apr





INTELSAT 709 at 304.65°E Antenna Coverage  
S/C Platform Bias : 1.00°E 0.30°N  
YAW : 0.00°

Peak Gain (Uplink X-pol) (See +)  
HI : -3.7 dBi

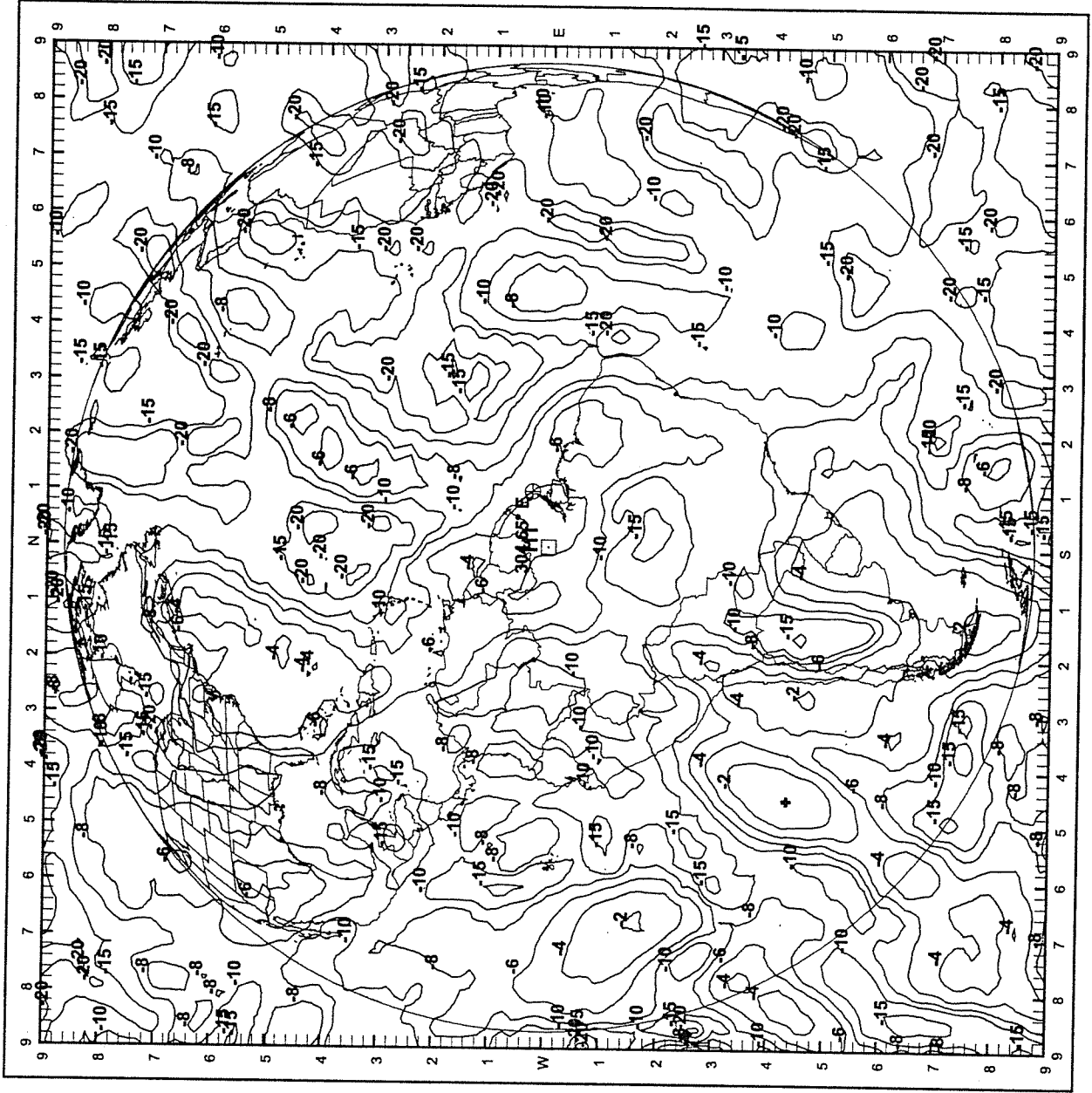
Contour Levels  
HI : -2, -4, -6, -8, -10, -15,  
-20 dB

Beam Frequencies  
HI : 6149

Polarization  
HI : Circular RHCP

Square : Sub-Satellite Point

Circle : Sat.Ant.Platform Bias





INTELSAT 709 at 304.65°E Antenna Coverage  
S/C Platform Bias : 1.00°E 0.30°N  
YAW : 0.00°

Peak Gain (Uplink X-pol) (See +)  
H2 : -3.8 dBi

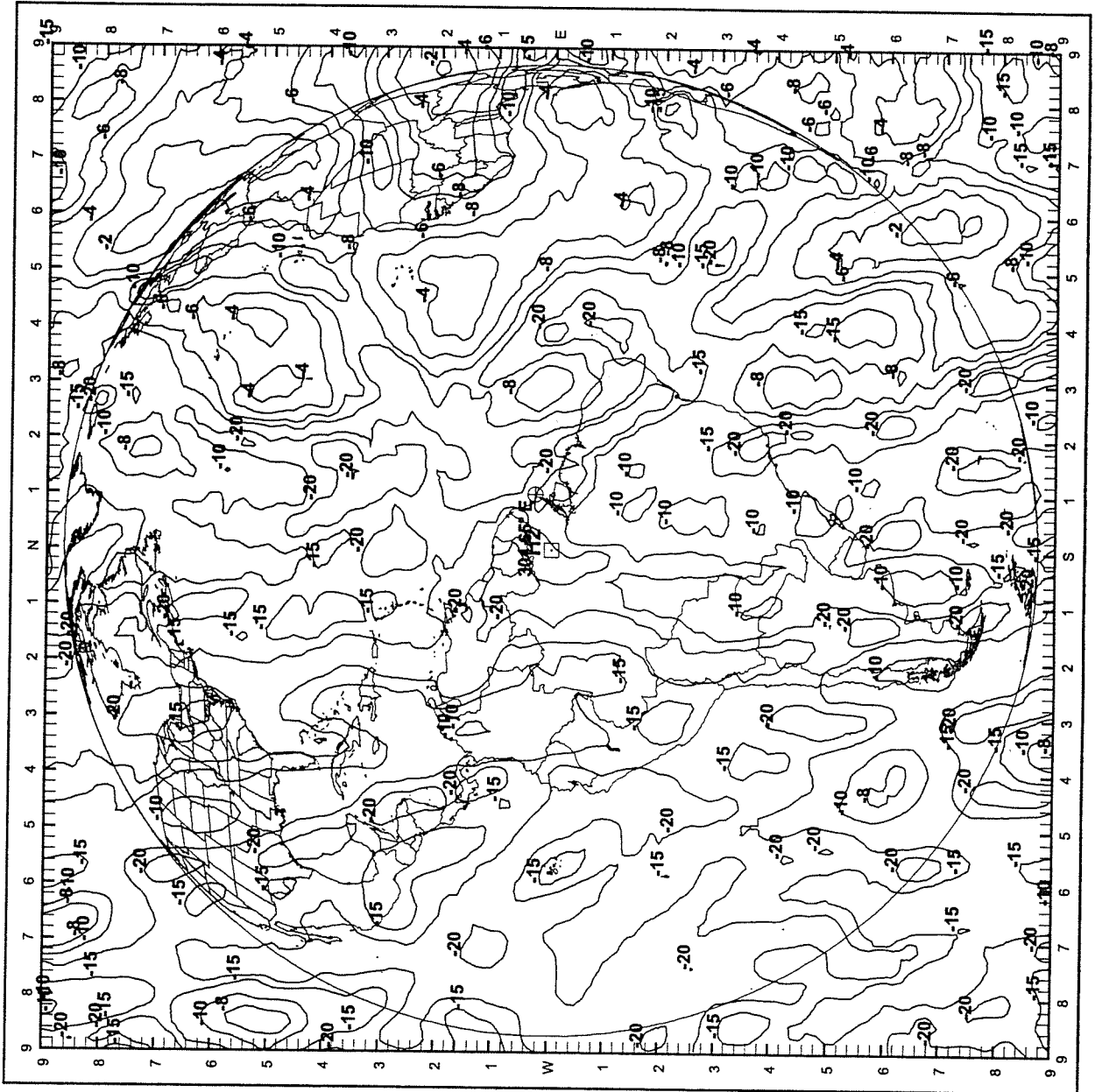
Contour Levels  
H2 : -2, -4, -6, -8, -10, -15,  
-20 dB

Beam Frequencies  
H2 : 6149

Polarization  
H2 : Circular RHCP

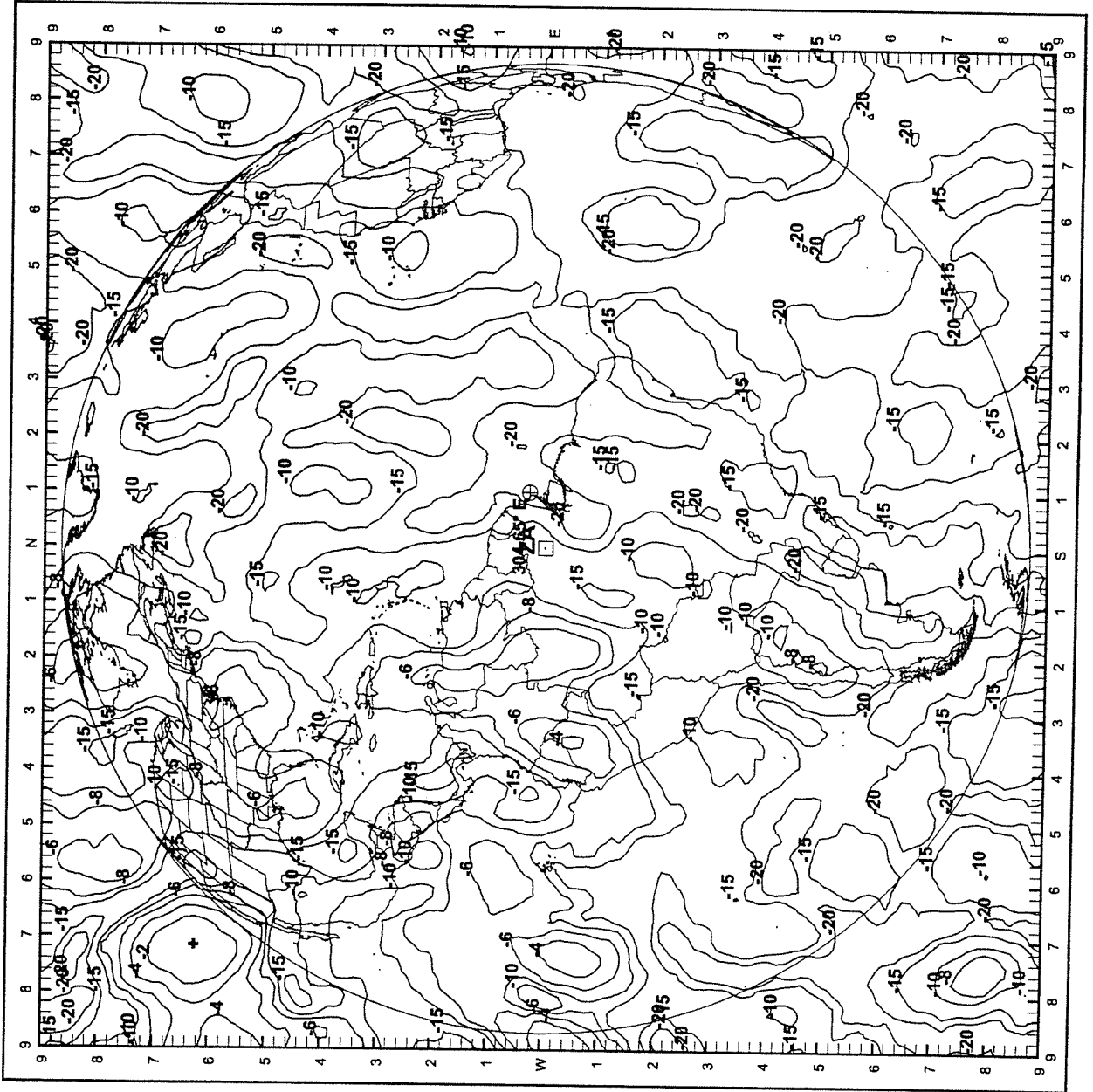
Square : Sub-Satellite Point

Circle : Sat.Ant.Platform Bias





INTELSAT 709 at 304.65°E Antenna Coverage  
S/C Platform Bias : 1.00°E 0.30°N  
YAW : 0.00°  
Peak Gain (Uplink X-pol) (See +)  
ZA : -2.5 dBi  
Contour Levels  
ZA : -2, -4, -6, -8, -10, -15,  
-20 dB  
Beam Frequencies  
ZA : 6149  
Polarization  
ZA : Circular LHCP  
Square : Sub-Satellite Point  
Circle : Sat.Ant.Platform Bias





INTELSAT 709 at 304.65°E Antenna Coverage  
S/C Platform Bias : 1.00°E 0.30°N  
YAW : 0.00°

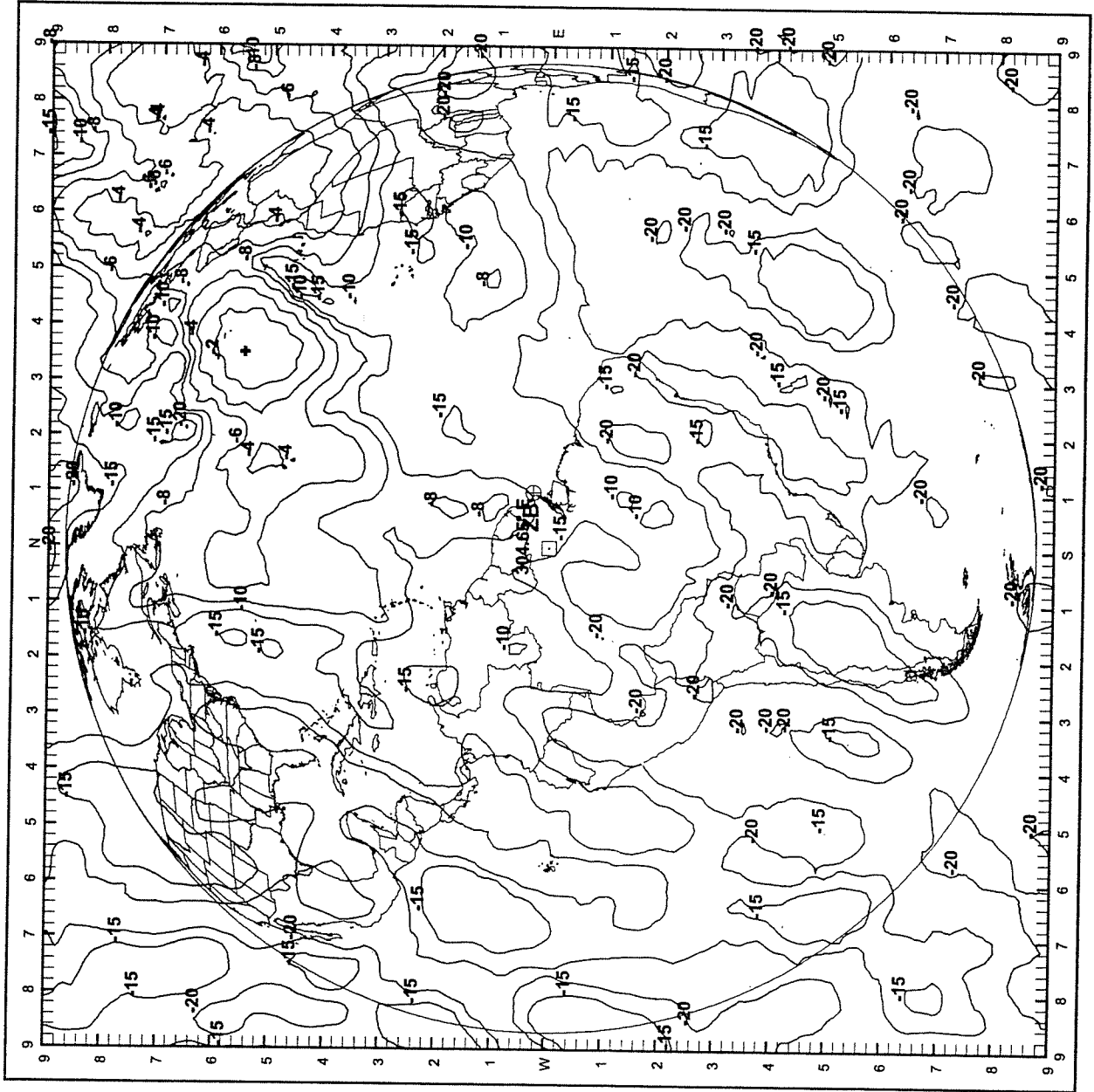
Peak Gain (Uplink X-pol) (See +)  
ZB : -1.8 dBi

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

Beam Frequencies  
ZB : 6149

Polarization  
ZB : Circular LHCP

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

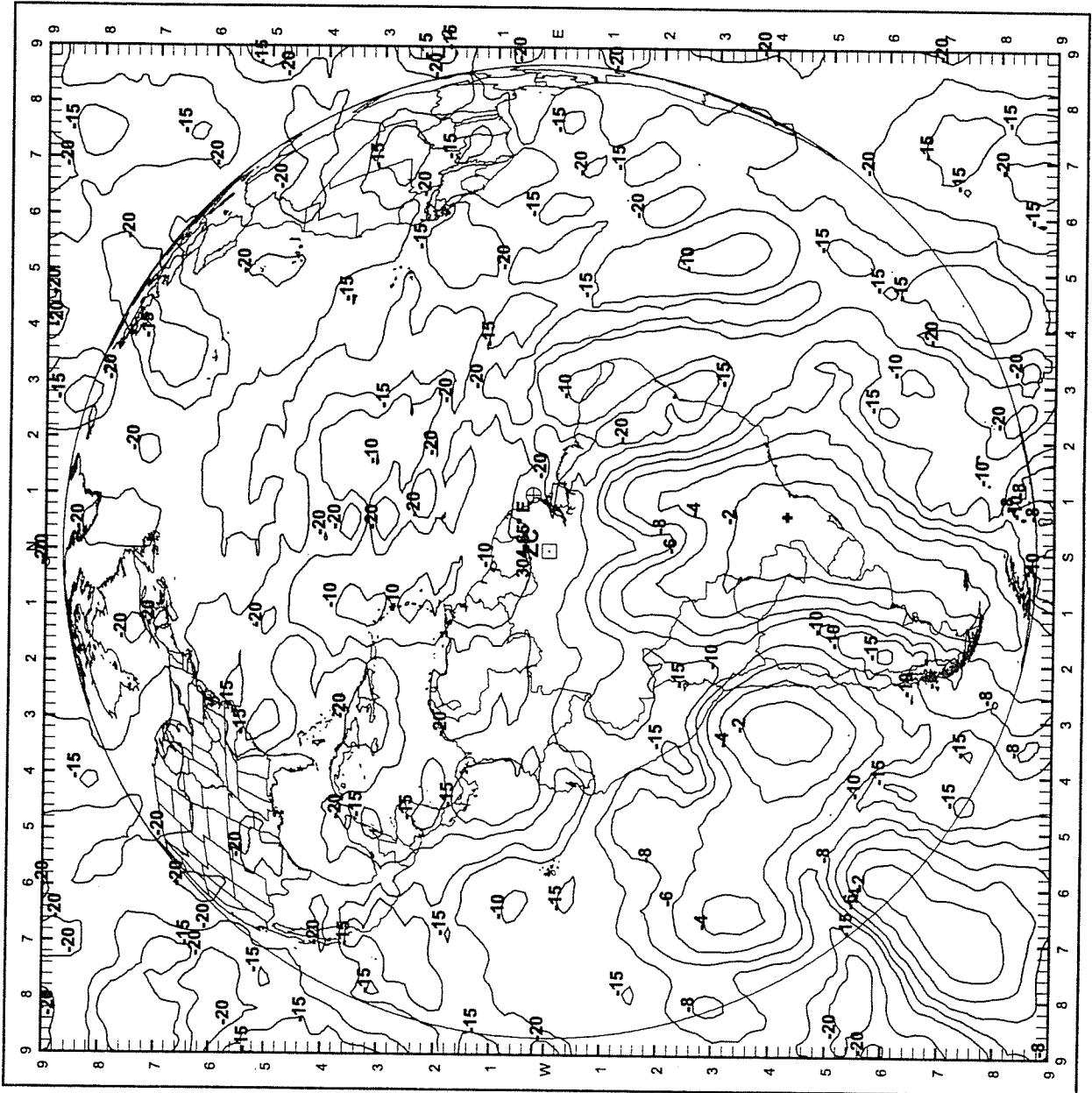


View : Orthographic 304.65° E  
Status : INTELSAT APPROVED

Plot Date: 12 April 2002  
acp2devproj2.apr

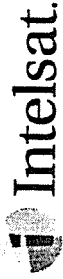


INTELSAT 709 at 304.65°E Antenna Coverage  
S/C Platform Bias : 1.00°E 0.30°N  
YAW : 0.00°  
Peak Gain (Uplink X-pol) (See +)  
ZC : -2.8 dBi  
Contour Levels  
ZC : -2, -4, -6, -8, -10, -15, -20 dB  
Beam Frequencies  
ZC : 6149  
Polarization  
ZC : Circular LHCP  
Square : Sub-Satellite Point  
Circle : Sat.Ant.Platform Bias



View : Orthographic 304.65° E  
Status : INTELSAT APPROVED

Plot Date: 12 April 2002  
acp2devproj2.apr



INTELSAT 709 at 304.65°E Antenna Coverage  
S/C Platform Bias : 1.00° E 0.30° N  
YAW : 0.00°

Peak Gain (Uplink X-pol) (See +)  
ZD : -3.4 dBi

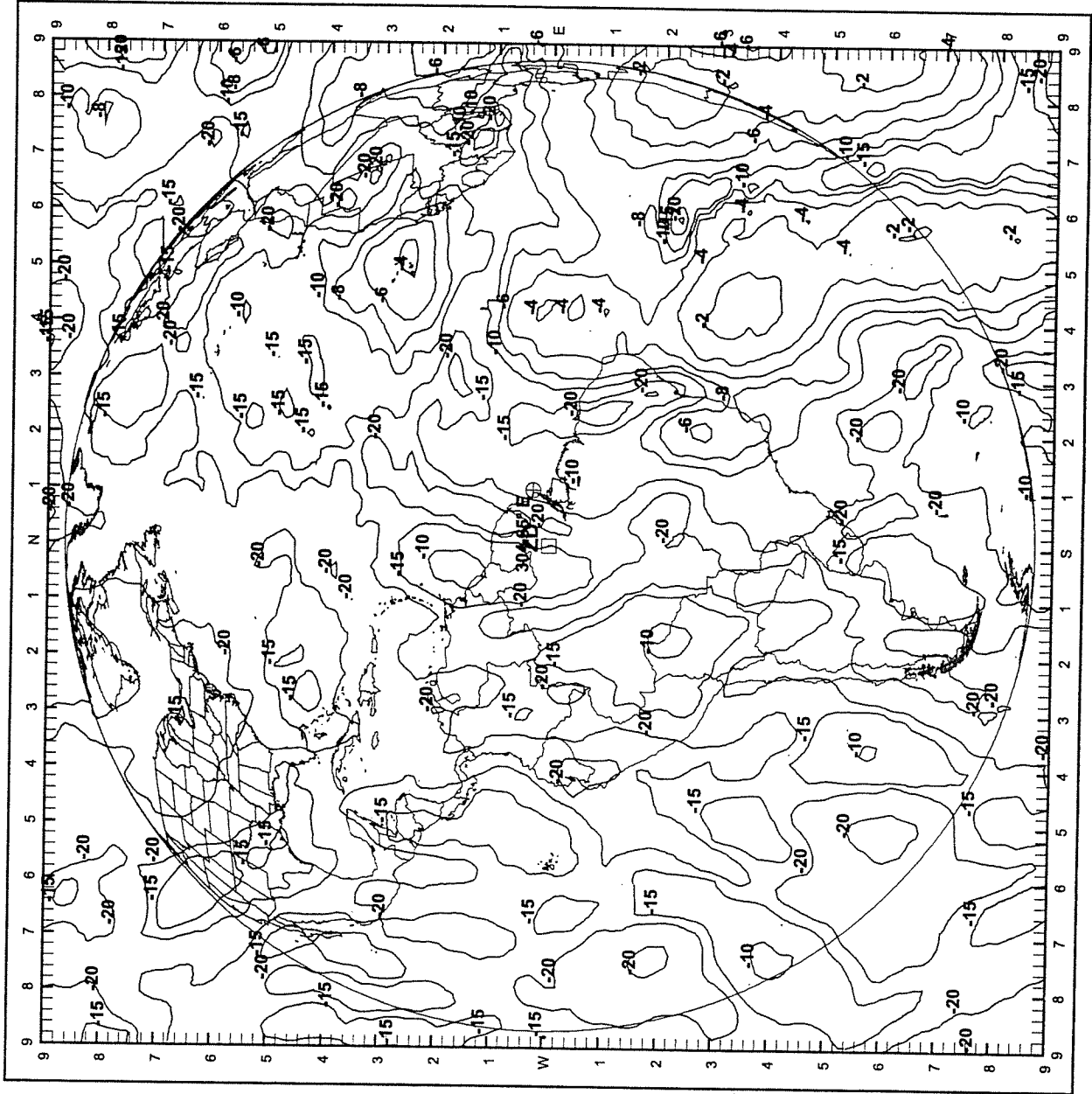
Contour Levels  
ZD : -2, -4, -6, -8, -10, -15, -20 dB

Beam Frequencies  
ZD : 6149

Polarization  
ZD : Circular LHCP

Square : Sub-Satellite Point

Circle : Sat.Ant.Platform Bias





INTELSAT 709 at 304.65°E Antenna Coverage  
 S/C Platform Bias : 1.00°E 0.30°N  
 YAW : 0.00°  
 Antenna Pointing  
 SI : 1.89°W 0.64°N

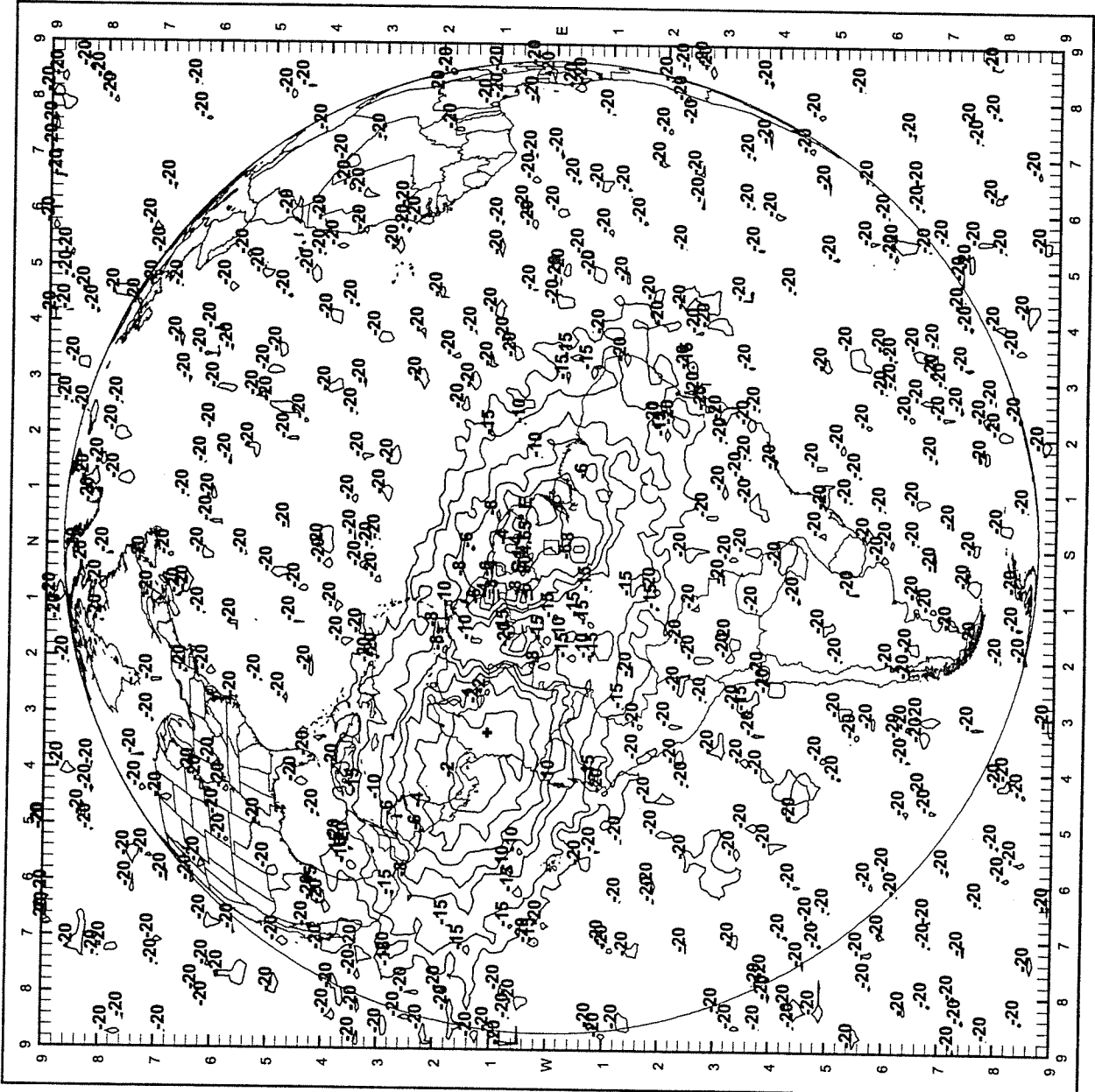
Peak Gain (Uplink X-pol) (See +)  
 SI : 11.0 dBi

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

Beam Frequencies  
 SI : 14224

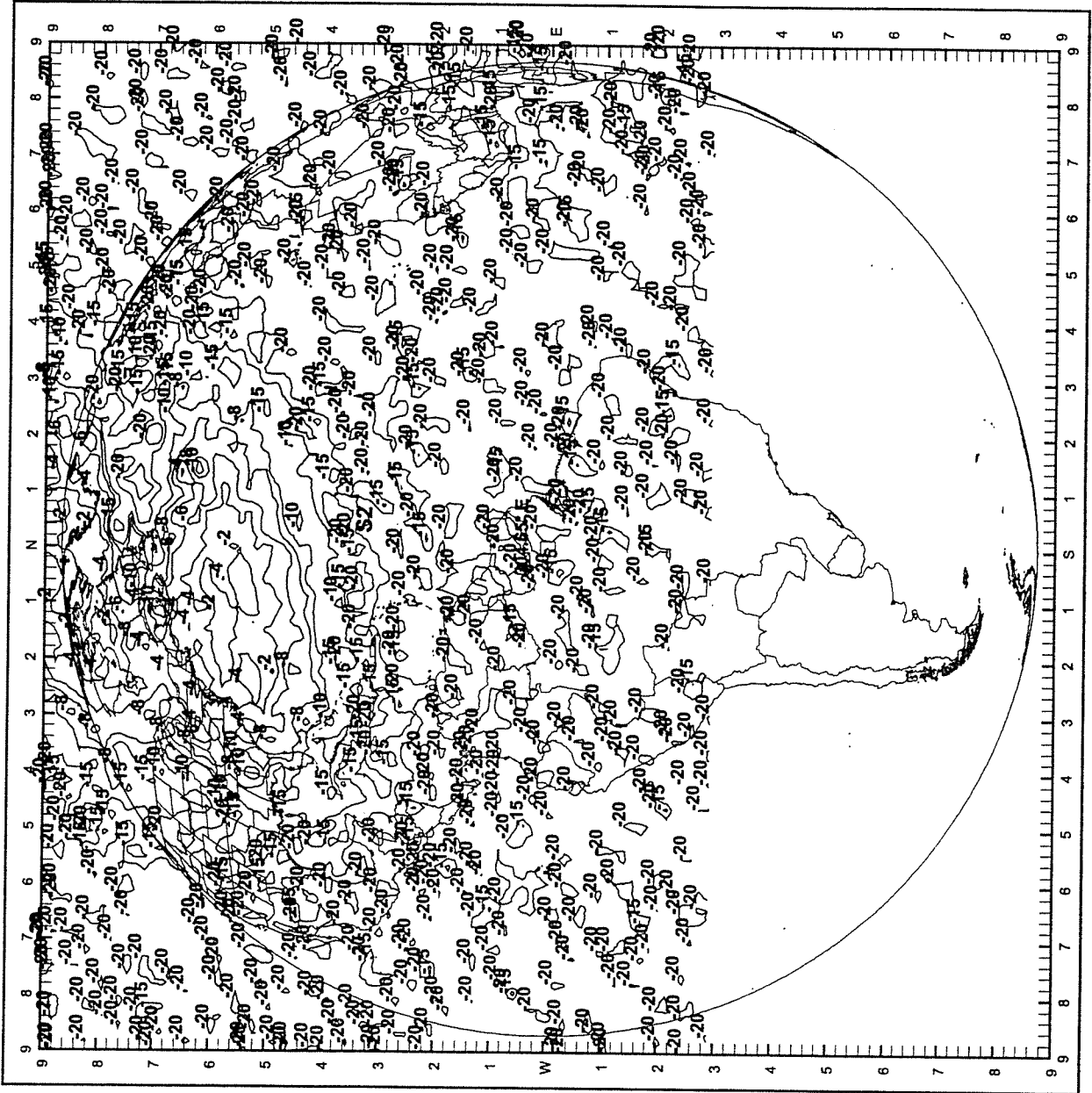
Polarization  
 SI : Linear Vertical

Square : Sub-Satellite Point





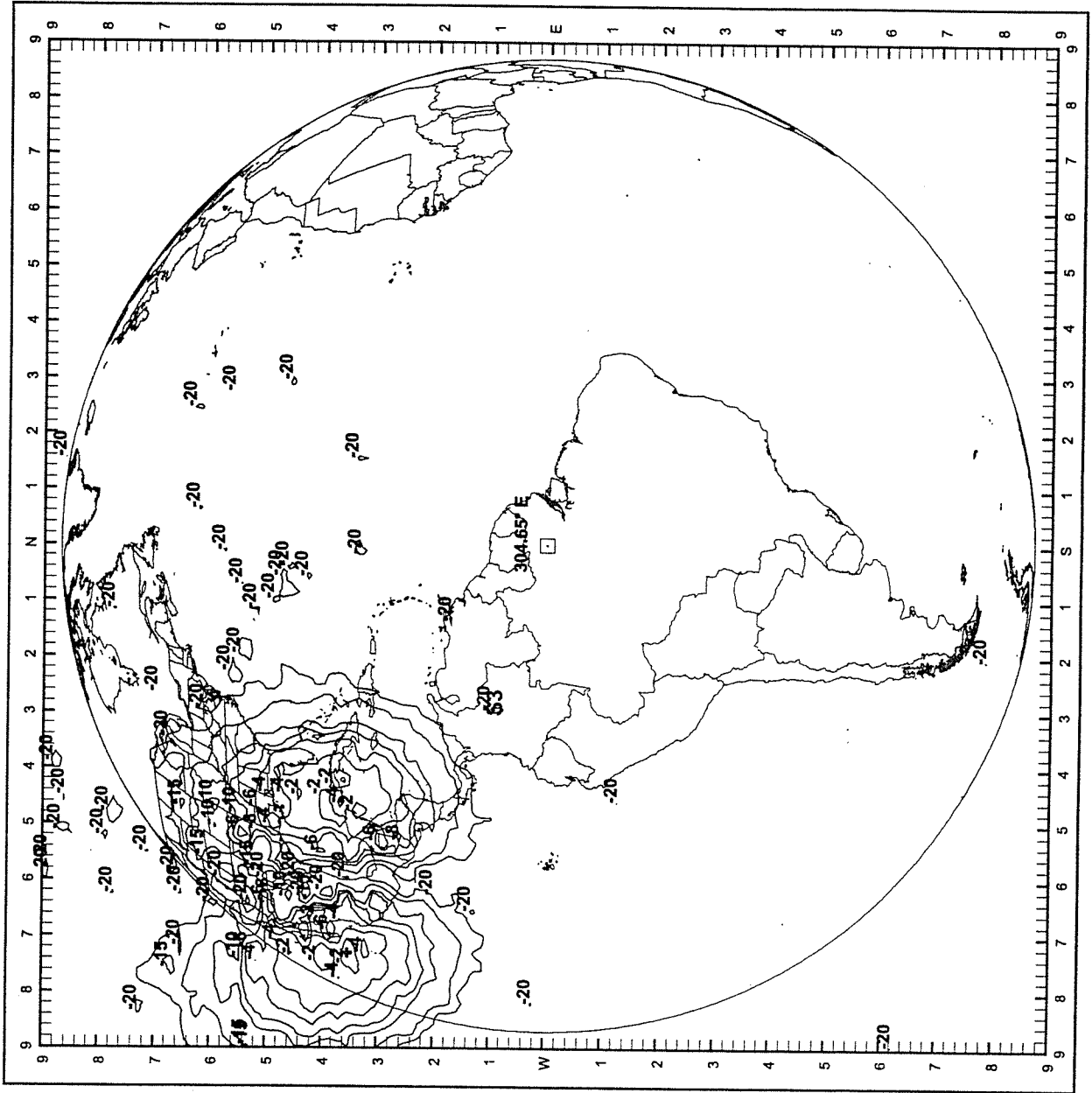
INTELSAT 709 at 304.65°E Antenna Coverage  
S/C Platform Bias : 1.00°E 0.30°N  
YAW : 0.00°  
Antenna Pointing : 0.20°W 7.24°N  
Peak Gain (Uplink X-pol) (See +)  
S2 : 8.5 dBi  
Contour Levels : -2, -4, -6, -8, -10, -15, -20 dB  
S2 : 14224  
Beam Frequencies : Linear Horizontal  
S2 : Sub-Satellite Point  
Square







INTELSAT 709 at 304.65°E Antenna Coverage  
S/C Platform Bias : 1.00°E 0.30°N  
YAW : 0.00°  
Antenna Pointing  
S3 : 6.02°W 4.07°N  
Peak Gain (Uplink X-pol) (See +)  
S3 : 10.4 dBi  
Contour Levels  
S3 : -2, -4, -6, -8, -10, -15,  
-20 dB  
Beam Frequencies : 14224  
Polarization : Linear Vertical  
S3  
Square : Sub-Satellite Point



View : Orbitographic 304.65° E  
Status : INTELSAT APPROVED

Plot Date: 12 April 2002  
acp2devproj2.apr

# Codan Services Limited

CLARENDON HOUSE, 2 CHURCH STREET, P.O. BOX HM 666, HAMILTON HM CX, BERMUDA  
TELEPHONE: (441) 295 1422 FACSIMILE: (441) 292 4720 E-MAIL: INFO@CDP.BM  
INTERNET: WWW.CDP.BM

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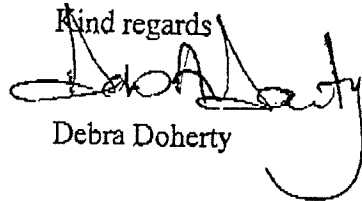
To:	Veronique Waites	Fax No:	1 202 293 6330
From:	Debra Doherty	Date:	25 March 2002
Matter Ref:	342500	Total Pages: (Incl. Cover)	43
Document No:	11986	Writer's Fax No:	441 295 4985
Writer's Telephone No:	441 295 1422	Writer's E-mail Address:	DADoherty@cdp.bm

Dear Veronique

**Intelsat Ltd. (the "Company")**

Please find attached the register of members for the above Company.

Kind regards



Debra Doherty

03/25/2002

Register of MembersPage No: 1  
Matter: 342500

Class: ordinary shares

Currency: U.S. DOLLARS

Par Value: 1.0000

Member	Certificate Number	Number of Shares	Transfer Details	% Paid	Date	
					Entry as Member	Cessation of Membership
International Telecommunications Satellite Organization 3400 International Drive, NW Washington, DC 20008 U.S.A.	1	12,000.0000	reclassified fr Common Shrs	100.00	17 Jul 2001	18 Jul 2001
Government of the Democratic and Popular Republic of Algeria Telecommunications Alger 4 Bd. Krim Belkacem Alger 16027 Algeria	2	1,541,085.0000		100.00	18 Jul 2001	
Empresa de Telecomunicacoes de Angola, ANGOLA TELECOM, E.P. Rua 1 Congresso, 26, 1 Andar P.O. Box 625 Luanda Angola	3	1,141,540.0000		100.00	18 Jul 2001	
Secretaria de Comunicaciones Peru 103 Piso 15 C1067ACC - Capital Federal Buenos Aires Argentina	4	249,500.0000		100.00	18 Jul 2001	
Avance Telecomunicaciones S.A. L.N. Alem 628 piso 9 Capital Federal Buenos Aires C1001AAO Argentina	5	446,815.0000		100.00	18 Jul 2001	
COMSAT Argentina S.A. Carlos Pellegrini 1363 6to Piso 1011 Capital Federal Buenos Aires Argentina	6	5,315,870.0000		100.00	18 Jul 2001	

03/25/2002

Register of Members

Page No: 2

Matter: 342500

Class: ordinary shares

Currency: U.S. DOLLARS

Par Value: 1.0000

Member	Certificate Number	Number of Shares	Transfer Details	% Paid	Date	
					Entry as Member	Cessation of Membership
GTECH Foreign Holdings Corporation 55 Technology Way West Greenwich RI 02817 USA	7	60,675.0000		100.00	18 Jul 2001	
Impsat S.A. Alferez Pareja 256 Capital Federal Buenos Aires, 1107 Argentina			trans to #228			
	8	2,136,730.0000		100.00	18 Jul 2001	30 Oct 2001
Pramer S.C.A. Bonpland 1745 1-piso Capital Federal Buenos Aires, 1414 Argentina						
	9	44,050.0000		100.00	18 Jul 2001	
Servicio Para el Transporte de Informacion S.A. (SPTI) Aristobulo del Valle 1257 Piso 2 Capital Federal 1295 Buenos Aires Argentina						
	10	63,390.0000		100.00	18 Jul 2001	
Servicios Satelitales S.A. Avenida Jujuy 1956 Capital Federal (ABU 1247)-Ciudad Autonoma de Buenos Aires Argentina						
	11	2,370.0000		100.00	18 Jul 2001	
Tecoar S.A. Av Rivadavia 1367 P16"A" 1033 Capital Federal Buenos Aires Argentina						
	12	768,405.0000		100.00	18 Jul 2001	

03/25/2002

Register of MembersPage No: 3  
Matter: 342500

Class: ordinary shares

Currency: U.S. DOLLARS  
Par Value: 1.0000

Member	Certificate Number	Number of Shares	Transfer Details	% Paid	Date	
					Entry as Member	Cessation of Membership
Telecom Argentina STET - France Telecom S.A. Alicia Moreau de Justo 50 Piso 40 Buenos Aires C1107AAB Argentina	13	781,293.0000		100.00	18 Jul 2001	
Telefonica de Argentina Calle Peron 1286 Piso 5 Capital Federal (1038) Buenos Aires Argentina	14	609,175.0000		100.00	18 Jul 2001	
Telepuerto Internacional Buenos Aires, S.A. Olga Cosential 731 Piso 4 Puerto Madero Este C1107BVA, Puerto Madero Buenos Aires Argentina	15	5,540,630.0000	trans to #244 trans to #245	100.00	22 Jul 2001	22 Feb 2002
WOLD Internacional, S.A. 3440 Motor Ave., Suite 200 Los Angeles CA 90034 USA	16	12,345.0000		100.00	18 Jul 2001	
Ministry of Telecommunications of the Republic of Armenia 28 Nalbandyan Str. Yerevan 375010 Armenia	17	250,000.0000		100.00	18 Jul 2001	
****Not Used****						
	18	0.0000		100.00	18 Jul 2001	

03/25/2002

Register of Members

Page No: 4

Matter: 342500

Class: ordinary shares

Currency: U.S. DOLLARS

Par Value: 1.0000

Member	Certificate Number	Number of Shares	Transfer Details	% Paid	Date	
					Entry as Member	Cessation of Membership
Opus Networks Pty. Limited Level 5 242 Exhibition Street Melbourne Victoria 3000 Australia	19	4,654,115.0000		100.00	18 Jul 2001	
Telstra Corporation Limited 242 Exhibition Street Level 5 Melbourne Victoria 3000 Australia	20	8,528,330.0000		100.00	18 Jul 2001	
Telekom Austria Aktiengesellschaft Schwarzenbergplatz 3 A-1030 Vienna Austria	21	964,384.0000		100.00	18 Jul 2001	
Ministry of Communication of Azerbaijan Republic Azerbaijan Avenue 33 P.O. Box 370139 Baku Azerbaijan	22	250,000.0000		100.00	18 Jul 2001	
The Bahamas Telecommunication Corporation (BATELCO) P.O. Box N-3048 John F. Kennedy Drive Nassau N.P. Bahamas	23	576,605.0000		100.00	18 Jul 2001	
Bahrain Telecommunications Company (BATELCO) P.O. Box 14 Manama Arabian Gulf Bahrain	24	1,674,245.0000		100.00	18 Jul 2001	



03/25/2002

Register of MembersPage No: 6  
Matter: 342500

Class: ordinary shares

Currency: U.S. DOLLARS  
Par Value: 1.0000

Member	Certificate Number	Number of Shares	Transfer Details	% Paid	Entry as Member	Date	Cessation of Membership
Empresa Nacional de Telecomunicaciones (ENTEL) Calle Federico Zuazo No. 1771 8vo. Piso La Paz Bolivia	31	940,040.0000		100.00	18 Jul 2001		
Public Enterprise PTT Bosnia and Herzegovina Branilaca Sarajevo 20/8 71000 Sarajevo Bosnia-Herzegovina	32	293,040.0000		100.00	18 Jul 2001		
****Not Used****							
Empresa Brasileira de Telecomunicacoes S.A. (EMBRATEL) Av. Presidente Vargas 1012 8 andar Rio De Janeiro RJ-CEP 20179-900 Brazil	33	0.0000		100.00	18 Jul 2001		
Comsat Brazil Ltda. Av. Benedicto Campos, 853 Jardim do Trevo Campinas S.P. Brazil-CEP 13030-040 Brazil	34	11,730,505.0000		100.00	18 Jul 2001		
Tgo Do Brasil Limitada Rua Matias Aires 402 CJ121-12 Sao Paulo S.P. 01309-020 Brazil	35	30,730.0000		100.00	18 Jul 2001		
	36	15,670.0000		100.00	18 Jul 2001		



03/25/2002

Register of Members

Page No: 7  
Matter: 342500

Class: ordinary shares

Currency: U.S. DOLLARS  
Par Value: 1.0000

Member	Certificate Number	Number of Shares	Transfer Details	% Paid	Entry as Member	Date Cessation of Membership
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\*\*\*\*Not Used\*\*\*\*

	37	0.0000		100.00	18 Jul 2001	
Bulgarian Telecommunications Company Ltd. 8 Toteben Blvd 1606 Sofia Bulgaria						

	38	250,000.0000		100.00	18 Jul 2001	
Office National des Telecommunications (ONATEL) du Burkina Faso Avenue Nelson Mandela 01 B.P. 10000 Ouagadougou 01 Burkina Faso						

	39	290,570.0000		100.00	18 Jul 2001	
Cameroon Telecommunications (CAMTEL) P.O. Box 1571 Yaounde CAMEROON						

	40	930,510.0000		100.00	18 Jul 2001	
Teleglobe, Inc. 1000 Rue de la Guauchetiere Ouest Montreal (Quebec) H3B 4X5 Canada						

	41	18,853,905.0000		100.00	18 Jul 2001	
CABO VERDE TELECOM, SARL B.P. 220 Praia Capc Verde						

	42	250,000.0000		100.00	18 Jul 2001	
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03/25/2002

Register of Members

Page No: 8  
Matter: 342500

Class: ordinary shares

Currency: U.S. DOLLARS  
Par Value: 1.0000

Member	Certificate Number	Number of Shares	Transfer Details	% Paid	Entry as Member	Cessation of Membership
Societe Centrafricaine des Telecommunications (SOCATEL) P.O. Box 939 Bangui Central African Republic						
	43	69,663.0000		100.00	18 Jul 2001	
****Not Used****						
	44	0.0000		100.00	18 Jul 2001	
****Not Used****						
	45	0.0000		100.00	18 Jul 2001	
****Not Used****						
	46	0.0000		100.00	18 Jul 2001	
AT&T Chile Long Distance S.A. Vitacura 2939 Piso 8 Santiago Chile						
	47	38,800.0000		100.00	18 Jul 2001	
Compania de telefonos de Chile Transmisiones Regionales S.A. c/o Telefonica Mundo 188 Nueva de Lyon No. 72, piso 11 P.O. Box 16370 Providencia Chile						
	48	288,065.0000		100.00	18 Jul 2001	

03/25/2002

Register of Members

Page No: 9  
Matter: 342500

Class: ordinary shares

Currency: U.S. DOLLARS  
Par Value: 1.0000

Member	Certificate Number	Number of Shares	Transfer Details	% Paid	Date	
					Entry as Member	Cessation of Membership
CHINA TELECOM 33 Erlong Road Xicheng District Beijing 100032 People's Republic of China	49	8,307,875.0000		100.00	18 Jul 2001	
PCCW-HKT Limited 35th Floor Cheung Kong Center 2 Queen's Road Central Hong Kong People's Republic of China	50	3,167,195.0000		100.00	18 Jul 2001	
****Not Used****						
	51	0.0000		100.00	18 Jul 2001	
****Not Used****						
	52	0.0000		100.00	18 Jul 2001	
Office Congolais des Postes et Telecommunications (OCPT) Immeuble INSS, 1er niveau, 95 Boulevard du 30 juin Kinshasa/Gombe P.O.Box 7070, Kinshasa 1 Democratic Republic of Congo	53	454,207.0000	Subject to Writ of Fieri Facias 23/11/01	100.00	18 Jul 2001	
****Not Used****						
	54	0.0000		100.00	18 Jul 2001	

03/25/2002

Register of MembersPage No: 10  
Matter: 342500

Class: ordinary shares

Currency: U.S. DOLLARS  
Par Value: 1.0000

Member	Certificate Number	Number of Shares	Transfer Details	% Paid	Date	
					Entry as Member	Cessation of Membership
Instituto Costarricense de Electricidad Edificio Central Sabana Norte Boulevard Las Americas y Calle Luisa, Piso 2 Puerta 75, San Jose 1000 Costa Rica	55	948,080.0000		100.00	18 Jul 2001	
L'Agence des Telecommunications de Cote d'Ivoire (A'ICI) 18 B.P. 2203 Abidjan 18 Cote D'ivoire	56	989,075.0000		100.00	18 Jul 2001	
Cote-d'Ivoire (CI-Telecom) 17 BP 275 Abidjan 17 Cote D'ivoire	57	552,005.0000		100.00	18 Jul 2001	
Ministry of Maritime Affairs, Transport and Communications Prisavlje 14 HR 10 000 Zagreb Croatia (Hrvatska)	58	287,865.0000		100.00	18 Jul 2001	
Empresa de Telecomunicaciones de Cuba, S.A. (ETECSA) Calle 18 #3303 e/33 y 41 Miramar Plaza Ciudad De La Habana, CP1 Cuba	59	250,000.0000		100.00	18 Jul 2001	
****Not Used****						
	60	0.0000		100.00	18 Jul 2001	

03/25/2002

Register of Members

Page No: 11  
Matter: 342500

Class: ordinary shares

Currency: U.S. DOLLARS  
Par Value: 1.0000

Member	Certificate Number	Number of Shares	Transfer Details	% Paid	Date	
					Entry as Member	Cessation of Membership
Ceske Radiokomunikace a.s. U nakladoveho nadrazi 3114 130 00 Praha 3 Czech Republic	61	308,860.0000		100.00	18 Jul 2001	
TDC Tele Danmark A/S Norregade 21 DK-0900 Copenhagen C Denmark	62	939,575.0000		100.00	18 Jul 2001	
TELE Greenland A/S P.O. Box 1002 Skolevej 8 DK-3900 Nuuk Greenland	63	1,489,900.0000		100.00	18 Jul 2001	
Compania Dominicana de Telefonos, C. por A. Av. Abraham Lincoln, No. 1101 Apartado 1377 Santo Domingo Dominican Republic	64	1,066,925.0000		100.00	18 Jul 2001	
****Not Used****						
Andinatel S.A. Calle Veintimilla 1149 Y Av. Amazonas Edificio De Andinatel Piso 2 Quito Ecuador	65	0.0000	Replacement Certificate Trans to # 231	100.00	18 Jul 2001	
	66	759,220.0000		100.00	18 Jul 2001	27 Nov 2001

03/25/2002

Register of MembersPage No: 12  
Matter: 342500

Class: ordinary shares

Currency: U.S. DOLLARS  
Par Value: 1.0000

Member	Certificate Number	Number of Shares	Transfer Details	% Paid	Date	
					Entry as Member	Cessation of Membership
Pacifictel S.A. Rocafuerte 732 y Roca Edificio Pacifictel Guayaquil Ecuador	67	389,045.0000		100.00	18 Jul 2001	
Telecom Egypt International Communications 26 Ramsis Street P.O. Box 2271 Cairo, 11511 Egypt	68	2,308,345.0000		100.00	18 Jul 2001	
Compania de Telecomunicaciones de El Salvador, S.A. de C.V. 63 Avenida Sur y Alameda Roosevelta, Centro Financiero Gigante, Torre A, Nivel 11 San Salvador El Salvador	69	294,915.0000		100.00	18 Jul 2001	
Ministry of Transportation and Communications of the Republic of Equatorial Guinea Calle Presidente Nasar S/N A.P. 490 Malabo Equatorial Guinea	70	250,000.0000		100.00	18 Jul 2001	
****Not Used****						
	71	0.0000		100.00	18 Jul 2001	
Fiji International Telecommunications Limited (FINTEL) 158 Victoria Parade P.O. Box 59 Suva Fiji	72	344,755.0000		100.00	18 Jul 2001	

03/25/2002

Register of Members

Page No: 13  
Matter: 342500

Class: ordinary shares

Currency: U.S. DOLLARS  
Par Value: 1.0000

Member	Certificate Number	Number of Shares	Transfer Details	% Paid	Date	
					Entry as Member	Cessation of Membership
Sonera Carrier Networks Ltd, P.O. Box 800 FIN-00051 Sonera Finland	73	250,000.0000		100.00	18 Jul 2001	
FRANCE TELECOM FTLD/DFI 246 rue de Bergey Paris 75012 France	74	21,147,700.0000		100.00	18 Jul 2001	
GENSAT Z.I. Athelja II 215 Avenue du Serpolet 13704 La Ciotat Cedex France	75	667,585.0000	trans to #246 trans to #247	100.00	18 Jul 2001	22 Feb 2002
MULTICOMS 6 allée Latcoere BP 280 78147 Velizy Cedex France	76	5.0000		100.00	18 Jul 2001	
Office des Postes et Telecommunications de Polynésie Française 8, Rue De La Reine Pomare IV 98713 Paopae Tahiti French Polynesia	77	779,960.0000		100.00	18 Jul 2001	
****Not Used****	78	0.0000		100.00	18 Jul 2001	

03/25/2002

Register of Members

Page No: 14  
Matter: 342500

Class: ordinary shares

Currency: U.S. DOLLARS  
Par Value: 1.0000

Member	Certificate Number	Number of Shares	Transfer Details	% Paid	Entry as Member	Date	Cessation of Membership
Office des Postes et Telecommunications (OPT) Boite Postale 20000 Libreville Gabon	79	427,400.0000		100.00	18 Jul 2001		
SakSat Georgia, Ltd. 40 Old Orchard Drive Weston CT 06883 United States	80	250,000.0000		100.00	18 Jul 2001		
Deutsche Telekom AG ZB NI/N135 Schofferstr. 10 64307 Darmstadt Germany	81	17,156,860.0000		100.00	18 Jul 2001		
Ghana Telecommunications Company Limited Accra North Post Office Nsawan Road Accra-North Ghana	82	1,042,630.0000		100.00	18 Jul 2001		
Western Telesystems (Ghana) Ltd. Kyem Place No 1 Dr, Isert Rd 7th Avenue Ext. North Ridge Accra Ghana	83	66,055.0000	Replacement Certificate Trans to # 232	100.00	18 Jul 2001	27 Nov 2001	
****Not Used****							
	84	0.0000		100.00	18 Jul 2001		



03/25/2002

Register of Members

Page No: 15  
Matter: 342500

Class: ordinary shares

Currency: U.S. DOLLARS  
Par Value: 1.0000

Member	Certificate Number	Number of Shares	Transfer Details	% Paid	Date	
					Entry as Member	Cessation of Membership
Empresa Guatemalteca de Telecomunicaciones Calzado Aguilar Batres 35-37 Zona 12 Ciudad De Guatemala Guatemala						
	85	1,282,380.0000		100.00	18 Jul 2001	
****Not Used****						
	86	0.0000		100.00	18 Jul 2001	
SOTELGUI B.P. 2066 Conakry Guinea			Replacement Certificate trans to # 233			
	87	50,840.0000		100.00	18 Jul 2001	27 Nov 2001
****Not Used****						
	88	0.0000		100.00	18 Jul 2001	
****Not Used****						
	89	0.0000		100.00	18 Jul 2001	
Empresa Hondurena de Telecomunicaciones (HONDUTEL) Blv. Centroamerica P.O. Box 1794 Tegucigalpa, M.D.C. Honduras						
	90	250,000.0000		100.00	18 Jul 2001	

03/25/2002

Register of MembersPage No: 16  
Matter: 342500

Class: ordinary shares

Currency: U.S. DOLLARS

Par Value: 1.0000

Member	Certificate Number	Number of Shares	Transfer Details	% Paid	Entry as Member	Cessation of Membership
Hungarian Satellite Communications Authority (HUNSAT) Varosmajor utca 12-14 Budapcst XII H-1122 Hungary	91	514,525.0000		100.00	18 Jul 2001	
Iceland Telecom Limited v/Austurvoll IS-150 Reykjavik Iceland	92	643,815.0000		100.00	18 Jul 2001	
Videsh Sanchar Nigam Limited Videsh Sanchar Bhavan 6th Floor Mahatmi Gandhi Road Fort Mumbai-400 001 India	93	27,045,940.0000		100.00	18 Jul 2001	
PT INDOSAT Jalan Medan Merdeka Barat 21 P.O. Box 2905 Jakarta 10110 Indonesia	94	1,686,270.0000		100.00	18 Jul 2001	
Telecommunication Company of Iran TCI Building #2 Dr. Shariati Avenue P.O. Box 16315-159 Tehran Iran	95	7,303,420.0000		100.00	18 Jul 2001	
****Not Used****						
	96	0.0000		100.00	18 Jul 2001	

03/25/2002

Register of MembersPage No: 17  
Matter: 342500

Class: ordinary shares

Currency: U.S. DOLLARS  
Par Value: 1.0000

Member	Certificate Number	Number of Shares	Transfer Details	% Paid	Entry as Member	Date	Cessation of Membership
****Not Used****							
	97	0.0000		100.00	18 Jul 2001		
RTE Commercial Enterprises Ltd. Mount Errol Donnybrook Dublin 4 Ireland							
	98	427,735.0000		100.00	18 Jul 2001		
"BEZEQ" The Israel Telecommunication Corporation Limited P.O. Box 1088 Jerusalem 91010 Israel							
	99	3,702,300.0000		100.00	18 Jul 2001		
Telecom Italia S.p.A. Via Flaminia, 189 00196 Rome Italy							
	100	13,815,730.0000		100.00	18 Jul 2001	19 Dec 2001	
Cable & Wireless Jamaica Limited 47 Half Way Tree Road Post Office Box 21 Kingston 5 Jamaica							
	101	1,105,330.0000		100.00	18 Jul 2001		
KDDI Corporation KDDI Bldg 3-2, Nishishinjuku 2-Chome Shinjuku Tokyo 163-8003 Japan							
	102	5,678,650.0000		100.00	18 Jul 2001		

trans to # 234

03/25/2002

Register of Members

Page No: 18  
Matter: 342500

Class: ordinary shares

Currency: U.S. DOLLARS  
Par Value: 1.0000

Member	Certificate Number	Number of Shares	Transfer Details	% Paid	Entry as Member	Date Cessation of Membership
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\*\*\*\*Not Used\*\*\*\*

	103	0.0000		100.00	18 Jul 2001	
Jordan Telecommunications Company Prince Mohammad Street Third Circle Tower Building P.O. Box 1689 Amman 11118 Jordan						

	104	997,335.0000		100.00	18 Jul 2001	
****Not Used****						

	105	0.0000		100.00	18 Jul 2001	
****Not Used****						

	106	0.0000		100.00	18 Jul 2001	
Telkom Kenya Limited Kenyatta Ave. P.O. Box 30301 Nairobi Kenya						

	107	1,619,005.0000		100.00	18 Jul 2001	
Ministry of Posts and Telecommunications of the Democratic People's Republic of Korea, c/o DPR of Korea Permanent Mission to the United Nations 820 2nd Av. New York NY 10017 USA						

	108	250,000.0000		100.00	18 Jul 2001	
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03/25/2002

Register of MembersPage No: 19  
Matter: 342500

Class: ordinary shares

Currency: U.S. DOLLARS  
Par Value: 1.0000

Member	Certificate Number	Number of Shares	Transfer Details	% Paid	Date	
					Entry as Member	Cessation of Membership
Korca Telecom Corp. 206 Jungja-dong Pundang-gu Songnam-city Kyonggi-do Zip 463-711 Republic of Korea	109	3,653,085.0000		100.00	18 Jul 2001	
Ministry of Communications, The State of Kuwait International Services Sector P.O. Box 318 11111 Safat Kuwait	110	3,207,535.0000		100.00	18 Jul 2001	
Ministry of Transport and Communications of the Kyrgyz Republic Isanov Street 42 720017 Bishkek Kyrgyz Republic	111	250,000.0000		100.00	18 Jul 2001	
Government of Lebanon P.O. Box 11-86 Beirut Lebanon	112	843,305.0000		100.00	18 Jul 2001	
Government of the Great Socialist People's Libyan Arab Jamahiriya P.O. Box 886 Zawia Street Tripoli Libya	113	1,454,260.0000		100.00	18 Jul 2001	
Government of the Principality of Liechtenstein Ministry of PTT Liechtenstein Office for Foreign Affairs Hilgkreuz 14 9490 Vaduz Liechtenstein	114	250,000.0000		100.00	18 Jul 2001	

03/25/2002

Register of Members

Page No: 20  
Matter: 342500

Class: ordinary shares

Currency: U.S. DOLLARS  
Par Value: 1.0000

Member	Certificate Number	Number of Shares	Transfer Details	% Paid	Date	
					Entry as Member	Cessation of Membership
Entreprise des Postes et Telecommunications 2 Rue Emile L-2999 Luxembourg	115	250,000.0000	trans to #230	100.00	18 Jul 2001	22 Nov 2001
TELECOM MALAGASY S.A. D.R.T. B.P. 763 Alarobia Antananarivo 101 Madagascar	116	545,100.0000		100.00	18 Jul 2001	
Mulawi Telecommunications Limited Glyn Jones Road P.O. Box 537 Blantyre Malawi	117	287,865.0000		100.00	18 Jul 2001	
TELEKOM MALAYSIA BERHAD (128740-P) 5th Floor Wisma Telecom, Block A Jalan Gelenggang Damansara 50410 Kuala Lumpur Malaysia	118	2,501,110.0000		100.00	18 Jul 2001	
Societe des Telecommunications du Mali (SOTELMA) B.P. 740 Bamako Mali	119	498,695.0000		100.00	18 Jul 2001	
MALTACOM p.l.c. Spencer Hill Marsa Malta	120	313,060.0000		100.00	18 Jul 2001	

03/25/2002

Register of MembersPage No: 21  
Matter: 342500

Class: ordinary shares

Currency: U.S. DOLLARS  
Par Value: 1.0000

Member	Certificate Number	Number of Shares	Transfer Details	% Paid	Entry as Member	Date	Cessation of Membership
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\*\*\*\*Not Used\*\*\*\*

121

0.0000

100.00

18 Jul 2001

Mauritius Telecom Limited  
Cassis Satellite Earth Station  
Menagerie Road  
Cassis  
Mauritius

122

948,080.0000

100.00

18 Jul 2001

TELECOMUNICACIONES DE MEXICO  
(TELECOMM)  
Eje Central Lazaro Cardenas  
No. 567, Torre Central de  
Telecomunicaciones, Piso 11  
Aja Norte Col. Narvarte, C.P.  
03020, Mexico

123

1,690,070.0000

100.00

18 Jul 2001

Federated States of Micronesia Telecommunications  
Corporation  
P.O. Box 1210  
Kolonis  
Pohnpei 96941  
Federated State of Micronesia

124

250,000.0000

100.00

18 Jul 2001

MONACO TELECOM S.A.M.  
7 Rue du Gabian  
98000  
Monaco

125

522,005.0000

100.00

18 Jul 2001

Mongolia Telecom  
Sq. Sukhbaatar-9  
P.O.B. 1166  
Ulaanbaatar 210611  
Mongolia

126

250,000.0000

100.00

18 Jul 2001

03/25/2002

Register of MembersPage No: 22  
Matter: 342500

Class: ordinary shares

Currency: U.S. DOLLARS  
Par Value: 1.0000

Member	Certificate Number	Number of Shares	Transfer Details	% Paid	Date	
					Entry as Member	Cessation of Membership
Itissalat Al Maghrib S.A. Avenue Ennakhil-Hay Riad Rabat Morocco	127	813,600.0000		100.00	18 Jul 2001	
Empresa Nacional de Telecomunicacoes de Mocambique, E.P.-TDM Rue Da Se, No.2 P.O. Box 25 Maputo Mozambique	128	765,070.0000		100.00	18 Jul 2001	
Telecom Namibia Limited P.O. Box 297 Windhoek Namibia	129	250,000.0000		100.00	18 Jul 2001	
Nepal Telecommunications Corporation Central Office Sanchar Bhavan Bhadrakali Plaza Kathmandu P.O.Box 5406 Nepal	130	399,415.0000		100.00	18 Jul 2001	
KPN Satcom B.V. Maaplein 5 TPS, 9th Floor 2516 CK The Hague The Netherlands	131	6,072,085.0000		100.00	18 Jul 2001	
Telecom Corporation of New Zealand Limited Telecom Networks House 68-86 Jervels Quay P.O. Box 1092 Wellington 6015 New Zealand	132	2,461,790.0000		100.00	18 Jul 2001	



03/25/2002

Register of Members

Page No: 23  
Matter: 342500

Class: ordinary shares

Currency: U.S. DOLLARS  
Par Value: 1.0000

Member	Certificate Number	Number of Shares	Transfer Details	% Paid	Entry as Member	Date Cessation of Membership
Television New Zealand Ltd. Television Centre 100 Victoria St West P.O. Box 3819 Auckland New Zealand	133	10,225.0000		100.00	18 Jul 2001	
Instituto Nicaraguense de Telecomunicaciones y Correos (TELCOR) Edificio Del Seguro Social VI piso Apartado Postal No. 2664 Managua Nicaragua	134	268,350.0000		100.00	18 Jul 2001	
Societe Nigerienne des Telecommunications (SONITEL) B.P. 208 Niamey Niger	135	336,778.0000		100.00	18 Jul 2001	
Nigerian Telecommunications Limited (NITEL) Block 4, Mambolo Street Wuse, Zone 2 P.O. Box 2890 Garki Abuja Nigeria	136	2,992,400.0000		100.00	18 Jul 2001	
Telenor Broadband Services AS P.O.Box 6914 St. Olavs Plass Oslo N-0130 Norway	137	20,566,590.0000		100.00	18 Jul 2001	
Oman Telecommunications Company (S.A.O.C.)- Omantel P.O. Box 789 Omantel, Ruwi Postal code 112 Muscat Oman	138	840,560.0000		100.00	18 Jul 2001	

03/25/2002

Register of MembersPage No: 24  
Matter: 342500

Class: ordinary shares

Currency: U.S. DOLLARS  
Par Value: 1.0000

Member	Certificate Number	Number of Shares	Transfer Details	% Paid	Date	
					Entry as Member	Cessation of Membership

\*\*\*\*Not Used\*\*\*\*

139

0.0000

100.00

18 Jul 2001

Cable & Wireless Panama S.A.  
Edificio Plaza Internacional  
Torre C  
Via Espana Ciudad De Panama  
9A  
Panama

140

1,462,675.0000

100.00

18 Jul 2001

Telikom PNG Limited  
P.O. Box 84  
Kumul Avenue  
Waigani NUD  
Papua New Guinea

141

334,008.0000

100.00

18 Jul 2001

Comision Nacional de Telecomunicaciones  
(CONATEL)  
Dpto. De Relaciones  
Internacionales Yegros 437 Y  
25 De Mayo Edificio San Rafael  
Piso 2 Asuncion  
Paraguay

142

754,220.0000

100.00

18 Jul 2001

Telefonica del Peru, S.A.  
Av. Benavides 661, Piso 12  
Lima-18  
Peru

trans to #240  
trans to #241  
Pledge

143

4,644,225.0000

100.00

18 Jul 2001 07 Feb 2002

Philippine Communications Satellite Corporation  
(PHILCOMSAT)  
11/F Telecoms Plaza Bldg.  
316 Sen. Gil Puyat Ave.  
Makati City 1200  
Philippines

144

1,184,415.0000

100.00

18 Jul 2001

03/25/2002

Register of MembersPage No: 25  
Matter: 342500

Class: ordinary shares

Currency: U.S. DOLLARS  
Par Value: 1.0000

Member	Certificate Number	Number of Shares	Transfer Details	% Paid	Date	
					Entry as Member	Cessation of Membership
The Polish Telecommunication Company "Tp Sat" Centrum Uslug Satelitarnych W Psarach K. Kielc Skr. Pocz. 745 25-324 Kielce 25 Poland	145	1,212,625.0000		100.00	18 Jul 2001	
Companhia Portuguesa Radio Marconi Av. D. Joao II, Lote 1.16 Parque Das Nacoes 1990-083 Lisbon Portugal	146	3,143,600.0000		100.00	18 Jul 2001	
Qatar Public Telecommunications Corporation (Q-Tel) New Headquarters Tower P.O.Box 217, West Bay Doha Qatar	147	845,015.0000		100.00	18 Jul 2001	
SOCIATEA NATIONALA DE RADIOCOMUNICATII S.A. Bd. Libertatii nr. 14 70060 Bucharest Sector 5 Romania	148	765,230.0000		100.00	18 Jul 2001	
****Not Used****						
Central Bank of Russian Federation (Bank of Russia) 12, Neglinnaya Strcet 103016 Moscow Russia	149	0.0000		100.00	18 Jul 2001	
	150	2,544,345.0000		100.00	18 Jul 2001	

03/25/2002

Register of Members

Page No: 26  
Matter: 342500

Class: ordinary shares

Currency: U.S. DOLLARS  
Par Value: 1.0000

Member	Certificate Number	Number of Shares	Transfer Details	% Paid	Entry as Member	Date Cessation of Membership
Rwandatel S.A. B.P.1332 Kigali Rwanda	151	250,000.0000		100.00	18 Jul 2001	
Saudi Telecom Company (STC) International Affairs P.O.Box 87912 Riyadh 11652 Saudi Arabia	152	4,520,675.0000		100.00	18 Jul 2001	
Societe Nationale des Telecommunications (SONATEL) 6 Rue Wagane Diouf Dakar B.P. 69 Dakar Senegal	153	1,141,045.0000		100.00	18 Jul 2001	
Singapore Telecommunications Limited 31 Exeter Road #08-00 COMCENTRE 239732 Singapore	154	4,744,115.0000		100.00	18 Jul 2001	
ST Teleport PTE Ltd. 2B/2C Ayer Rajah Crescent 139937 Singapore	155	3,130.0000		100.00	18 Jul 2001	
****Not Used****						
	156	0.0000		100.00	18 Jul 2001	

03/25/2002

Register of MembersPage No: 27  
Matter: 342500

Class: ordinary shares

Currency: U.S. DOLLARS  
Par Value: 1.0000

Member	Certificate Number	Number of Shares	Transfer Details	% Paid	Date	
					Entry as Member	Cessation of Membership
TELKOM SA Limited Satellite Division Private Bag X74 152 Procs Street 0001 Pretoria South Africa	157	5,790,345.0000		100.00	18 Jul 2001	
Telefonica de Espana, S.A. Jefe de Gestion Del Segmento Espacial Plaza De Espana 5, 4a Planta Madrid 28008 Spain	158	3,674,630.0000		100.00	18 Jul 2001	
Electroteks Limited 429, D Galje Road Ratmalana Sri Lanka	159	1,165.0000		100.00	18 Jul 2001	
Sri Lanka Telecom P.O. Box 235 OTS Building Lotus Road Colombo 01 Sri Lanka	160	1,184,830.0000		100.00	18 Jul 2001	
Government of the Republic of the Sudan P&T Main Building Gama A (University) Street P.O. Box 1130 Khartoum 11111 Sudan	161	416,545.0000		100.00	18 Jul 2001	
Posts and Telecommunications Corporation (Public) P.O. Box 125 Mbabane H100 Swaziland	162	250,000.0000		100.00	18 Jul 2001	

03/25/2002

Register of MembersPage No: 28  
Matter: 342500

Class: ordinary shares

Currency: U.S. DOLLARS  
Par Value: 1.0000

Member	Certificate Number	Number of Shares	Transfer Details	% Paid	Entry as Member	Cessation of Membership
Telia AB SE-123 86 FARSTA Vitsandsgatan 9 Sweden	163	1,566,190.0000		100.00	18 Jul 2001	
Telc2 Sverige AB Carrier Services Borgarfjordsgatan P.O. Box 62 S-164 94 Kista Sweden	164	5.0000		100.00	18 Jul 2001	
Swisscom AG C/O Swisscom Ltd. Headquarters Alte Tcifenausstr. 6 3050 Bern Switzerland	165	3,789,160.0000		100.00	18 Jul 2001	
Government of the Syrian Arab Republic C/O Syrian Telecommunications Establishment Al-Naser Street Damascus Syria	166	486,435.0000		100.00	18 Jul 2001	
****Not Used****						
Tanzania Telecommunications Company Limited Samora Avenue 11th Floor P.O. Box 9070 Dar Es Salaam Tanzania	167	0.0000		100.00	18 Jul 2001	
	168	698,580.0000		100.00	18 Jul 2001	

03/25/2002

Register of MembersPage No: 29  
Matter: 342500

Class: ordinary shares

Currency: U.S. DOLLARS  
Par Value: 1.0000

Member	Certificate Number	Number of Shares	Transfer Details	% Paid	Entry as Member	Date Cessation of Membership
The Communications Authority of Thailand (CAT) 99 Chaeng Watthana Rd. Thung Song Hong Lak Si Bangkok 10002 Thailand	169	2,379,045.0000		100.00	18 Jul 2001	
Societe des Telecommunications du Togo (TOGO TELECOM) Avenue Nicolas Grunitzky B.P.333 Lome Togo	170	140,414.0000		100.00	18 Jul 2001	
Telecommunications Services of Trinidad and Tobago Limited TSTT House 1 Edward Street Port of Spain Trinidad West Indies	171	337,105.0000		100.00	18 Jul 2001	
****Not Used****						
Turk Telekomunikasyon A.S. Uydu Haberlesme Dairesi Bsk. 06103 Ankara Turkey	172	0.0000		100.00	18 Jul 2001	
Uganda Telecom Limited P.O.Box 7171 Kampala Uganda	173	7,506,400.0000		100.00	18 Jul 2001	
	174	250,000.0000		100.00	18 Jul 2001	

03/25/2002

Register of MembersPage No: 30  
Matter: 342500

Class: ordinary shares

Currency: U.S. DOLLARS  
Par Value: 1.0000

Member	Certificate Number	Number of Shares	Transfer Details	% Paid	Date	
					Entry as Member	Cessation of Membership
Ministry of Communications of the Government of the United Arab Emirates P.O. Box 900 Abu-Dhabi United Arab Emirates	175	4,090,375.0000		100.00	18 Jul 2001	
British Telecommunications plc PP211 Holborn Centre 120 Holborn London EC1N 2TE United Kingdom	176	19,166,105.0000		100.00	18 Jul 2001	
Bcednet Group 4005 25th Street North Arlington, VA 22207-3901 United States	177	4,155.0000		100.00	18 Jul 2001	
Cable and Wireless plc 26 Red Lion Square London WC1R 4HQ United Kingdom	178	10,230,335.0000		100.00	18 Jul 2001	
Cable and Wireless (West Indies) Ltd. 26 Red Lion Square London WC1R 4HQ United Kingdom	179	648,660.0000		100.00	18 Jul 2001	
Caprock UK Ltd. Caprock Building Denmore Rd Denmore Rd Industrial Est Aberdeen AB21 8JW United Kingdom	180	5.0000		100.00	18 Jul 2001	



03/25/2002

Register of MembersPage No: 31  
Matter: 342500

Class: ordinary shares

Currency: U.S. DOLLARS

Par Value: 1.0000

Member	Certificate Number	Number of Shares	Transfer Details	% Paid	Date	
					Entry as Member	Cessation of Membership
Comsat General Corporation 6560 Rock Spring Drive Bethesda Maryland 20817 United States						
	181	5,949,445.0000		100.00	18 Jul 2001	
Comsat International Ventures 6560 Rock Spring Drive Bethesda Maryland 20817 United States						
	182	5.0000		100.00	18 Jul 2001	
Data Marine Systems Ltd. 7265 Old Galveston Highway Highway 3 Houston Texas 77034 United States						
	183	24,465.0000		100.00	18 Jul 2001	
Datasat Communications Limited Ashbourne, Black Lane Chalfont St. Giles Bucks. HP8 4NY United Kingdom						
	184	382,555.0000		100.00	18 Jul 2001	
DeTeSat Deutsche Telekom Purchase Department Hochstadenring 50 D-53119 Bonn Germany						
	185	27,220.0000		100.00	18 Jul 2001	
Flow-Line Communications Ltd. Ariel House, Mill Lane Alton, Hampshire, GU342QJ United Kingdom						
	186	5.0000		100.00	18 Jul 2001	

03/25/2002

Register of Members

Class: ordinary shares

Currency: U.S. DOLLARS

Par Value: 1.0000

-----Date-----

Member	Certificate Number	Number of Shares	Transfer Details	% Paid	Entry as Member	Cessation of Membership
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\*\*\*\*Not Used\*\*\*\*

	187	0.0000		100.00	18 Jul 2001	
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Globecast Northern Europe Ltd.  
200 Gray's Inn Road  
London WC1X 8XZ  
United Kingdom

	188	92,775.0000		100.00	18 Jul 2001	
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\*\*\*\*Not Used\*\*\*\*

	189	0.0000		100.00	18 Jul 2001	
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Kingston TLI Ltd.  
Chalfont Grove  
Gerrards Cross  
Buckinghamshire SL9 8TN  
United Kingdom

	190	288,920.0000		100.00	18 Jul 2001	
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\*\*\*\*Not Used\*\*\*\*

	191	0.0000		100.00	18 Jul 2001	
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Multipoint Communications Ltd.  
Satellite House  
Eastways Industrial Park  
Witham, Essex, CM8 3YQ  
United Kingdom

	192	5.0000		100.00	18 Jul 2001	
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03/25/2002

Register of Members

Class: ordinary shares

Currency: U.S. DOLLARS

Par Value: 1.0000

-----Date-----

Member	Certificate Number	Number of Shares	Transfer Details	% Paid	Entry as Member	Cessation of Membership
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\*\*\*\*Not Used\*\*\*\*

	193	0.0000		100.00	18 Jul 2001	
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Newsforce (UK) Ltd.  
C/O Globecast Northern  
Europe Ltd.  
200 Gray's Inn Road  
London WC1X 8XZ  
United Kingdom

	194	86,790.0000		100.00	18 Jul 2001	
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National Transcommunications Ltd. (NTL)  
Crawley Court  
Winchester  
Hampshire  
United Kingdom

	195	5.0000		100.00	18 Jul 2001	
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\*\*\*\*Not Used\*\*\*\*

	196	0.0000		100.00	18 Jul 2001	
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\*\*\*\*Not Used\*\*\*\*

	197	0.0000		100.00	18 Jul 2001	
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RTE Commercial Enterprises Ltd.  
Mount Errol  
Donnybrook  
Dublin 4  
Ireland

	198	5.0000		100.00	18 Jul 2001	
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03/25/2002

Register of Members

Class: ordinary shares

Currency: U.S. DOLLARS

Par Value: 1.0000

Member	Certificate Number	Number of Shares	Transfer Details	% Paid	Date	
					Entry as Member	Cessation of Membership
Redwing Satellite Solutions Ltd. Transmission Station Great North Road Brookmans Park Hertfordshire A19 6 NE United Kingdom	199	285,185.0000		100.00	18 Jul 2001	
Teleport UK Limited (trading as Satellite Media Services) Lawford Heath Earth Station Lawford Heath, Rugby Warwickshire CV23 9EU United Kingdom	200	71,540.0000		100.00	18 Jul 2001	
****Not Uscd****						
	201	0.0000		100.00	18 Jul 2001	
Spacelink International LLC 45975 Nokes Boulevard Suite 145 Dulles Virginia 20166 UNITED STATES	202	1,072,235.0000		100.00	18 Jul 2001	
Spacotel International UK 15 Bowling Green Lane London EC1R 0BD United Kingdom	203	136,665.0000		100.00	18 Jul 2001	
Teleglobe International (UK) Ltd. 1000 Rue de la Gauchetiere Quest Montreal Quebec H3B 4X5 Canada	204	5.0000		100.00	18 Jul 2001	

03/25/2002

**Register of Members**

Class: ordinary shares

Currency: U.S. DOLLARS  
 Par Value: 1.0000

Member	Certificate Number	Number of Shares	Transfer Details	% Paid	Entry as Member	Cessation of Membership
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\*\*\*\*Not Used\*\*\*\*

	205	0.0000		100.00	18 Jul 2001	
COMSAT Corporation Rock Spring One, Fourth Floor 6560 Rock Spring Drive Bethesda Maryland 20817 United States						

	206	108,958,020.0000		100.00	18 Jul 2001	
Administracion Nacional de Telecomunicaciones Casilla De Correo 1477 Av. Fernandez Crespo 1534 Piso 4 Montevideo 11200 Uruguay						

	207	262,790.0000		100.00	18 Jul 2001	
Post and Telecommunications Agency of the Republic of Uzbekistan Amir Temur Street, 24 700000 Tashkent Uzbekistan						

	208	250,000.0000		100.00	18 Jul 2001	
Government of the Vatican City State Vatican City State 00120 Rome Italy Vatican City						

	209	250,000.0000		100.00	18 Jul 2001	
Venezuelan Telephone Company (Compania Anonima Nacional Telefonos de Venezuela) Avenida Libertador Centro Nacional De Telecomunicaciones Piso 20 Apartado Postal Caracas 1010. Venezuela						

	210	5,596,630.0000		100.00	18 Jul 2001	
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03/25/2002

Register of MembersPage No: 36  
Matter: 342500

Class: ordinary shares

Currency: U.S. DOLLARS

Par Value: 1.0000

Member	Certificate Number	Number of Shares	Transfer Details	% Paid	Date	
					Entry as Member	Cessation of Membership
Vietnam Posts and Telecommunications Corporation 18 Nguyen Du Street Hanoi Socialist Republic of Vietnam	211	1,242,645.0000		100.00	18 Jul 2001	
Government of the Republic of Yemen Airport Road Al-Jirap P.O. Box 25237 Sana'a Republic of Yemen	212	429,430.0000		100.00	18 Jul 2001	
Community of the Yugoslav Posts, Telegraphs and Telephones Palmoticeva 2 11000 Belgrade Yugoslavia	213	287,865.0000		100.00	18 Jul 2001	
Zambia Telecommunications Company Limited Provident House Corner of Moffat Road and Broadway P.O. Box 71660 Ndola Zambia	214	416,870.0000		100.00	18 Jul 2001	
Government of Zimbabwe 107 Union Avenue P.O. Box CY 331 Causeway Harare Zimbabwe	215	90,710.0000		100.00	18 Jul 2001	
Harc & Co. as nominee for the Bank of New York, Trustee for the Beneficiaries of Trust Agm. II dated July 18, 2001 Global Finance Unit. 101 Barclay St, Fl 21, West New York, NY 10286	216	21,604,275.0000		100.00	18 Jul 2001	30 Jan 2002

trans to #235,  
#236, #237,  
#238, #239

03/25/2002

Register of Members

Class: ordinary shares

Currency: U.S. DOLLARS

Par Value: 1.0000

Member	Certificate Number	Number of Shares	Transfer Details	% Paid	Entry as Member	Cessation of Membership
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\*\*\*\*Not Used\*\*\*\*

	217	0.0000		100.00	18 Jul 2001	
<p>Harc &amp; Co. as nominee for the Bank of New York Trustee under Trust Agmt. I among Intelsat, Ltd., the Trustee and Pakistan Telecommunication Company Limited, Global Fin. Unit, 101 Barclay St Fl 21W, NY, NY 10286</p>						
	218	3,320,121.0000		100.00	18 Jul 2001	
<p>Tryco International Inc. 6736 Old McLean Villiage Drive McLean VA 22101 USA</p>						
	219	250,000.0000		100.00	18 Jul 2001	
<p>Codan Trust Co Ltd as Trustee under Collateral Trust Agmt among it, Intelsat, Ltd. and Telekom Austria Aktiengesellschaft Richmond House, Par-la-Ville Road, Hamilton Bermuda</p>						
	220	3,776.0000		100.00	18 Jul 2001	
<p>Codan Trust Co Ltd as Trustee under Collateral Trust Agmt among it, Intelsat, Ltd. and Pakistan Telecommunication Company Limited Richmond Hsc, Par-la-Ville Rd Hamilton, Bermuda</p>						
	221	49,534.0000		100.00	18 Jul 2001	
<p>Codan Trust Co Ltd as Trustee under Collateral Trust Agmt among it, Intelsat, Ltd. and Telikom PNG Limited Richmond House, Par-la-Ville Road, Hamilton Bermuda</p>						
	222	3,102.0000		100.00	18 Jul 2001	

03/25/2002

Register of MembersPage No: 38  
Matter: 342500

Class: ordinary shares

Currency: U.S. DOLLARS  
Par Value: 1.0000

Member	Certificate Number	Number of Shares	Transfer Details	% Paid	Date	
					Entry as Member	Cessation of Membership
Codan Trust Co Ltd as Trustee under Collateral Trust Agmt among it, Intelsat, Ltd., and Societe des Telecommunications du Togo (TOGO TELECOM) Richmond Hse, Par-la-Ville Rd Hamilton, Bermuda	223	352,096.0000		100.00	18 Jul 2001	
Codan Trust Co Ltd as Trustee under Collateral Trust Agmt among it, Intelsat Ltd., and Societe Centrafricaine des Telecommunications (SOCATEL) Richmond Hse, Par-la-Ville Rd Hamilton, Bermuda	224	218,202.0000		100.00	18 Jul 2001	
Codan Trust Co Ltd as Trustee under Collateral Trust Agmt among it, Intelsat Ltd., and Societe Nigerienne des Telecommunications (SONITEL), Richmond House, Par-la-Ville Road, Hamilton Bermuda	225	32,092.0000	trans to # 229	100.00	18 Jul 2001	30 Oct 2001
Codan Trust Co Ltd as Trustee under Collateral Trust Agmt among it, Intelsat, Ltd., and Government of Zimbabwe Richmond House, Par-la-Ville Road, Hamilton Bermuda	226	159,290.0000		100.00	18 Jul 2001	
Codan Trust Co Ltd as Trustee under Collateral Trust Agmt among it, Intelsat, Ltd., and Office Congolais des Postes et Telecommunications (OCPT) Richmond Hse, Par-la-Ville Rd Hamilton, Bermuda	227	302,553.0000	Subject to Writ of Fieri Facias 23/11/01	100.00	18 Jul 2001	
Orbital Holdings, Ltd. Codan Trust Company (Cayman) Limited P.O.Box 2681 GT Zephyr House, Mary Street George Town, Grand Cayman British West Indies	228	2,136,730.0000	trans from #8	100.00	30 Oct 2001	



03/25/2002

Register of MembersPage No: 39  
Matter: 342500

Class: ordinary shares

Currency: U.S. DOLLARS

Par Value: 1.0000

Member	Certificate Number	Number of Shares	Transfer Details	% Paid	Date	
					Entry as Member	Cessation of Membership
Societe Nigerienne des Telecommunications (SONITEL) B.P. 208 Niamey Niger	229	32,092.0000	trans from 225	100.00	30 Oct 2001	
Entreprise des Postes et Telecommunications 8a. avenue Montreux L-2020 Luxembourg	230	250,000.0000	trans from #115	100.00	22 Nov 2001	
Andinatel S.A. Calle Veintimilla 1149 Y Av. Amazonas Edificio De Andinatel Piso 2 Quito Ecuador	231	759,220.0000	Replacement Certificate Trans from # 66	100.00	27 Nov 2001	
Western Telesystems (Ghana) Ltd. Kycm Place No 1 Dr. Isert Rd 7th Avenue Ext. North Ridge Accra Ghana	232	66,055.0000	Replacement Certificate Trans from # 83	100.00	27 Nov 2001	
SOTELGUI B.P. 2066 Conakry Guinea	233	50,840.0000	Replacement Certificate Trans from # 87	100.00	27 Nov 2001	
Genesis Sechste Verwaltungsgesellschaft mbH Rathenau Platz 2-8 60313 Frankfurt Am Main Germany	234	13,815,730.0000	trans from #100	100.00	19 Dec 2001	

03/25/2002

Register of MembersPage No: 40  
Matter: 342500

Class: ordinary shares

Currency: U.S. DOLLARS

Par Value: 1.0000

Member	Certificate Number	Number of Shares	Transfer Details	% Paid	Date	
					Entry as Member	Cessation of Membership
OJSC Kazakhtelecom 100 G Furmanov Street 480091 Almaty Kazakhstan	235	1,259,130.0000	trans from #216	100.00	30 Jan 2002	
Ethiopian Telecommunications Corporation P.O. Box 1047 Addis Ababa Ethiopia	236	661,270.0000	trans from #216	100.00	30 Jan 2002	
Empresa Nacional de Telecomunicaciones TELECOM Carrera 12 No 23-83, Piso 3 Santa Fe de Bogota, D.C. Colombia	237	7,501,170.0000	trans from #216	100.00	30 Jan 2002	
Spacetej-Benin s.a.r.l. Carre 147, Av. Augustin Nicouc Gregriore 01 BP 5293- Cotonou Benin	238	8,080.0000	trans from #216	100.00	30 Jan 2002	
Harc & Co. as nominee for the Bank of New York, Trustee for the Beneficiaries of Trust Agmt. II dated July 18, 2001 Global Finance Unit, 101 Barclay St, Fl 21, West New York, NY 10286	239	12,174,625.0000	trans from #216 trans to #242 trans to #243	100.00	30 Jan 2002	19 Feb 2002
Telefonica del Peru, S.A. Av. Benavides 661. Piso 12 Lima-18 Peru	240	2,786,535.0000	trans from #143	100.00	07 Feb 2002	

03/25/2002

Register of Members

Class: ordinary shares

Currency: U.S. DOLLARS

Par Value: 1.0000

Member	Certificate Number	Number of Shares	Transfer Details	% Paid	Entry as Member	Cessation of Membership
Telefonica del Peru, S.A. Av. Benavides 661. Piso 12 Lima-18 Peru	241	1,857,690.0000	trans from #143	100.00	07 Feb 2002	
Gibraltar Telecommunications International Limited Mount Pleasant 25 South Barrack Road Gibraltar	242	141,610.0000	trans from #239	100.00	19 Feb 2002	
Hare & Co. as nominee for the Bank of New York. Trustee for the Beneficiaries of Trust Agmt. II dated July 18, 2001 Global Finance Unit, 101 Barclay St, Fl 21, West New York, NY 10286	243	12,033,015.0000	trans from #239 trans to #248 trans to #249	100.00	19 Feb 2002	11 Mar 2002
Orbital Holdings Ltd. Codan Trust Company (Cayman) Limited P.O.Box 2681 GT Zephyr House, Mary Street George Town, Grand Cayman British West Indies	244	4,742,779.0000	trans from #15	100.00	22 Feb 2002	
Telepuerto Internacional Buenos Aires, S.A. Olga Cosential 731 Piso 4 Puerto Madero Este C1107BVA, Puerto Madero Buenos Aires Argentina	245	797,851.0000	trans from #15	100.00	22 Feb 2002	
Bruno Garcin 97 Ifield Road London SW10-9AS United Kingdom	246	74,066.0000	trans from #75	100.00	22 Feb 2002	

03/25/2002

Register of Members

Class: ordinary shares

Currency: U.S. DOLLARS

Par Value: 1.0000

Member	Certificate Number	Number of Shares	Transfer Details	% Paid	Date	
					Entry as Member	Cessation of Membership
GENSAT Z.I. Athelia II 215 Avenue du Serpolet 13704 La Ciotat Cedex France						
			trans from #75			
	247	593,519.0000		100.00	22 Feb 2002	
Ministry of Communications of the Republic of Tajikistan of 57 Rudaki Ave 734000 Dushanbe Republic of Tajikistan						
			trans from #243			
	248	250,000.0000		100.00	11 Mar 2002	
Hare & Co. as nominee for the Bank of New York Trustee for the Beneficiaries of Trust Agmt. II dated July 18, 2001 Global Finance Unit, 101 Barclay St, Fl 21, West New York, NY 10286						
			trans from #243			
	249	11,783,015.0000		100.00	11 Mar 2002	
<b>Total Shares</b>		<b>500,000,000.0000</b>				