

Before the
FEDERAL COMMUNICATIONS COMMISSION RECEIVED - FCC
Washington, D.C. 20554

NOV 27 2002

Federal Communication Commission
Bureau / Office

In the Matter of:

INTELSAT LLC

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

File Nos. SAT-A/O-20000119-00002;
SAT-AMD- 20000119-00029; SAT-
MOD-20020923-00177

**Amendment to Application of Intelsat LLC
To Modify Authorization**



SAT-AMD-20021127-00239
with Attached conditions
Call Sign S2388 February 23, 2004
(or other identifier)
From February 23, 2004 February 23, 2004
Approved: Thomas S. [Signature]

Bert W. Rein
Jennifer D. Hindin
WILEY REIN & FIELDING LLP
1776 K Street, N.W.
Washington, D.C. 20006
202.719.7000

INTELSAT LLC
3400 International Drive
Washington, DC 20008
202.944.6800

Dated: November 26, 2002

Attachment
Call Sign S2388
SAT-MOD-20020923-00177
SAT-AMD-20021127-00239
SAT-AMD-20031118-00331
February 23, 2004

With today's partial grant, we modify Intelsat LLC's license for the INTELSAT 702 satellite and authorize it, for a period of five years from the date of this grant, to operate in the following Ku-band frequencies, 11.45 -11.7 GHz and 14.25-14.5 GHz, and to operate its Telemetry, Tracking, Control and Monitoring functions (TTC&M) at the 54.85° E.L. orbital location subject to the following conditions:

- 1) Intelsat LLC's operations shall be on a non-harmful interference basis, i.e., Intelsat LLC shall not cause harmful interference to, and shall not claim protection from interference caused to it by, any other lawfully operating satellites; and
- 2) In the event that any harmful interference as a result of Intelsat LLC's operations at the 54.85° E.L. orbital location, Intelsat LLC shall cease operations immediately upon notification of such interference and shall inform the FCC in writing immediately of such an event; and
- 3) Intelsat LLC shall inform its customers that operations at the 54.85° E.L. orbital location are on a non-harmful interference basis and that Intelsat LLC must cease operations upon notification of such interference; and
- 4) Intelsat LLC shall maintain full operational control of the INTELSAT 702 satellite at all times; and
- 5) This authorization is issued on the understanding that Intelsat LLC, pursuant to its agreement with the Indian Space Research Organization (ISRO) will conform its operations to parameters agreed to in coordination agreements between the Administration of India and other Administrations. As the United States remains the licensing authority, responsibility for both compliance with and enforcing compliance with those agreements is a matter which would arise under private law; and
- 6) This authorization is also issued on the understanding that, in regards to filings with the ITU, the Administration of India is not acting pursuant to Article 9.1 of the Radio Regulation, on behalf of the United States Administration; and

- 7) This authorization is also issued on the understanding that the Federal Communications Commission remains the licensing administration, for purposes of ITU Radio Regulation 18.1, for the INTELSAT 702 satellite, and that its operations are pursuant to ITU Radio Regulation 4.4; and
- 8) Intelsat LLC shall prepare and submit to the Federal Communications Commission, within fifteen days following grant of this authorization, the necessary materials for submission to the ITU, pursuant to Article 8.4 of the Radio Regulations, in connection with the operations of the INTELSAT 702 satellite at the 54.85° E.L. orbital location; and
- 9) This authorization is issued on the understanding that this grant is not an approval of any specific agreement entered into by Intelsat LLC, its subsidiaries, and affiliates, nor of any specific provision of any such agreement, concerning operation of the Intelsat 702 satellite, nor is it an approval of an agreement concerning any related matter, nor of any specific provision of any such agreement concerning any related matter; and
- 10) This authorization is issued on the understanding that this grant, and previous grants for testing at the 54.85° E.L. orbital location, do not in any way express a view concerning, or agreement as to, the validity or lack of validity of any ITU filing at or within the vicinity of the 54.85° E.L. orbital location; and
- 11) In connection with the provision of service in any particular country, Intelsat LLC is obliged to comply with the applicable laws, regulations, rules, and licensing procedures of that country; and
- 12) Intelsat LLC is not authorized to operate in the frequency bands: 3700-4200 MHz, 5925-6425 MHz, 10.95-11.2 GHz, 11.7-11.95 GHz, 12.5-12.75 GHz and 14.0-14.25 GHz except for the INTELSAT 702 C-band TTC&M functions, until submission of additional technical information to demonstrate compatible operation with adjacent satellites and subsequent FCC authorization of such operations; and
- 13) The EIRP density in the frequency band 11.45-11.7 GHz from the INTELSAT 702 satellite shall not exceed -33.8 dBW/Hz in the downlink and the uplink power spectral density in the frequency band 14.25-14.5 GHz shall not exceed -52.6 dBW/Hz; and
- 14) In the event that an operator-to-operator arrangement is not reached between Intelsat LLC and the operator of the Express AM22 satellite, and if, the Express AM22 satellite utilizes either the emission, 30M037W or the emission 2M40G7W into antenna diameters of less than 1.2 meters

within a beam which overlaps the coverage area of the INTELSAT 702 satellite beam, in the 11.45 – 11.7 GHz frequency band, then Intelsat shall lower the EIRP density of its carrier to -38.8 dBW/Hz in the downlink; and

- 15) Intelsat LLC shall either establish sufficient contact with the operator of the Express AM22 satellite to ascertain the times, frequencies and types of emissions to be used for the Express AM22's operations, or establish a monitoring function to determine such; and
- 16) Intelsat LLC is afforded thirty days from the date of release of this grant and authorization to decline this authorization as conditioned. Failure to respond within this period will constitute formal acceptance of the authorization as conditioned; and
- 17) This Grant is issued pursuant to Section 0.261 of the Commission's rules on delegated authority, 47 C.F.R. § 0.261 and is effective February 23, 2004. Petitions for reconsideration under Section 1.106 or applications for review under Section 1.115, 47 C.F.R. §§ 1.106, 1.115, may be filed within 30 days of the date of the public notice indicating that this action was taken.

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PART TWO:

FORM 312

EXHIBIT I

ATTACHMENT I

ATTACHMENT A

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

In the Matter of:

INTELSAT LLC

Amendment to Application 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-20000119-00002;
SAT-AMD- 20000119-00029; SAT-
MOD-20020923-00177**

**Amendment to Application of Intelsat LLC
To Modify Authorization**

Intelsat LLC ("Intelsat"), pursuant to Section 25.116 of the Federal Communications Commission's ("FCC" or "Commission") rules, hereby submits the following request to amend the pending application for modification of its authorization for INTELSAT 702 submitted on September 23, 2002 ("Modification Application")¹. The Modification Application sought Commission approval to relocate INTELSAT 702 from 176.0°E.L. to 85.15° E.L. and have the satellite on-station at that location in December 2002/January 2003. By this amendment Intelsat seeks authorization to relocate INTELSAT 702 from 176.0° E.L. to 156.9° E.L. in November/December 2002 rather than to 85.15° E.L. At 156.9° E.L. INTELSAT 702 will be co-located with

¹ See *Satellite Policy Branch Information, Satellite Space Applications Accepted for Filing*, Report No. SAT-00127, File No. SAT-MOD-20020923-00177 (Oct. 4, 2002) (Public Notice).

INTELSAT 604 which is located at the 157.0° E.L. orbital location. Accordingly, Intelsat submits the following changes to its Modification Application:

1. The request for modification of the license for INTELSAT 702 on page 1 of the Modification Application should read:

INTELSAT 702, (S2388), File Nos. SAT-A/O-20000119-00002; SAT-AMD-20000119-00029; and SAT-MOD-20020923-00177, Intelsat requests modification of its license to relocate INTELSAT 702 from 176.0° E.L. to 156.9° E.L. in November/December 2002 and to co-locate it with INTELSAT 604, which is at the 157.0° E.L. orbital location.

2. Paragraph one of Section II "PROPOSED MODIFICATIONS" on page 3 should read:

"In the Intelsat August 2000 Licensing Order, the Commission granted Intelsat authority to operate INTELSAT 702 at 177.0° E.L. and to relocate that satellite to 176.0° E.L. in October 2000.² Intelsat relocated INTELSAT 702 in October 2000 as planned.³ On September 23, 2002, Intelsat requested modification of its license to relocate INTELSAT 702 from 176.0° E.L. to 85.15° E.L. and have the satellite on-station at that location in December 2002/January 2003.⁴ Intelsat now requests to amend this pending modification application to permit the relocation of INTELSAT 702 from 176.0° E.L. to 156.9° E.L. in November/December 2002 and to co-locate it with INTELSAT 604, which is located at the 157.0° E.L. orbital location."

² 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*, 15 FCC Rcd 15460, 15531 (Memorandum Opinion Order and Authorization), ("*Intelsat Order*"), recon. denied, 15 FCC Rcd 25234(2000) (Order on Reconsideration).

³ See Letter from Jennifer Hindin, Wiley, Rein & Fielding, to Ms. Magalie Roman Salas, Secretary, Federal Communications Commission, File No. SAT-AMD-20000119-00029 (Nov. 2, 2000).

⁴ See Satellite Policy Branch Information, *Satellite Space Applications Accepted for Filing*, Report No. SAT-00127, File No. SAT-MOD-20020923-00177 (Oct. 4, 2002) (Public Notice).

In addition, attached is a revised Exhibit I and Attachment 1 containing technical information.

The operation of INTELSAT 702 at 156.9° E.L. co-located with INTELSAT 604 will serve the public interest. Specifically, grant of this Amendment will provide Intelsat with the flexibility needed to manage its system, meet the current customer demand for satellite services in the region and operate the INTELSAT 702 and INTELSAT 604 spacecraft in a safe manner. This Amendment, like the underlying Modification Application, is fully consistent with Commission policy and raises no interference issues. Therefore, prompt grant of the Amendment plainly serves the public interest.

For the reasons set forth herein, Intelsat respectfully requests that the Commission grant this amendment and its underlying Modification Application.

Respectfully submitted,

Intelsat LLC

By: 

Bert W. Rein
Jennifer D. Hindin
WILEY REIN & FIELDING LLP
1776 K Street, N.W.
Washington, D.C. 20006
202.719.7000

Patrick J. Cerra
Vice President
INTELSAT LLC

November 26, 2002

FCC 312
Main Form

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

FCC Use Only
File Number:

Call Sign:

Fee Number:

FEDERAL COMMUNICATIONS COMMISSION

APPLICATION FOR SATELLITE SPACE AND EARTH STATION AUTHORIZATIONS

APPLICANT INFORMATION

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

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 checked="" 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: **S2388**

19. If this filing is an amendment to a pending application enter:
(a) Date pending application was filed: **September 23, 2002**
(b) File number of pending application: **SAT-MOD-20020923-00177**

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. 2.14 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) **Amendment to Pending Application for 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. In answer to questions 29, 30, 31, 32 and/or 33 is Yes, attach as an exhibit, the identification of the aliens or foreign entities, their nationality, their relationship to the applicant, and the percentage of stock they own or vote.	See Attachment A	

BASIC QUALIFICATIONS

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

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

Intelsat LLC requests authority to relocate the INTELSAT 702 satellite from 176.0 degrees E.L. to the 156.9 degrees E.L. orbital position in November/December 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.

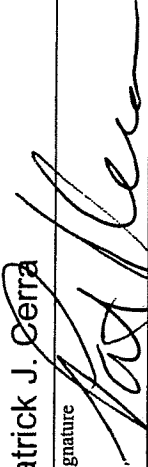
44. Applicant is a (an): (Place an "X" in the box next to applicable response.)

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

45. Typed Name of Person Signing

Patrick J. Cerra

47. Signature



46. Title of Person Signing

Vice President

48. Date

Nov. 25, 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).

AMENDMENT TO
INTELSAT 702 MODIFICATION APPLICATION

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

The Applicant, Intelsat LLC, hereby applies for authority to relocate INTELSAT 702 to 156.9° E.L. in November/December 2002.

Specific technical information for the INTELSAT 702 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 within the Applicant's organization is:

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

The Applicant's counsel is:

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

Correspondence and communications concerning this application should be addressed to the contact person within the Applicant's organization, with copies to the above counsel.

TYPE OF AUTHORIZATION REQUESTED

This application requests FCC authority to continue to operate a satellite in the Fixed-Satellite Service operating in the C-band and Ku-band at a different orbital location. Intelsat LLC seeks authority for INTELSAT 702 to operate on both a common carrier and non-common carrier basis.

TECHNICAL INFORMATION

A. Satellite Coverage

Information regarding the coverage of the INTELSAT 702 satellite at 156.9° E.L. is provided in Attachment 1.

WAIVERS REQUESTED

Intelsat requests that the waivers granted to the INTELSAT 702 spacecraft at the 176.0° E.L orbital location continue to apply at the 156.9° E.L. orbital location

PUBLIC INTEREST CONSIDERATIONS

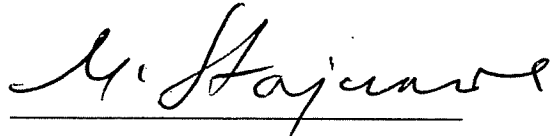
A statement regarding the public interest considerations supporting the grant of this application can be found in Part 1 of this application.

ENGINEERING CERTIFICATE

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

ENGINEERING CERTIFICATE

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

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

Milenko P. Stojkovic, Ph.D.

Director

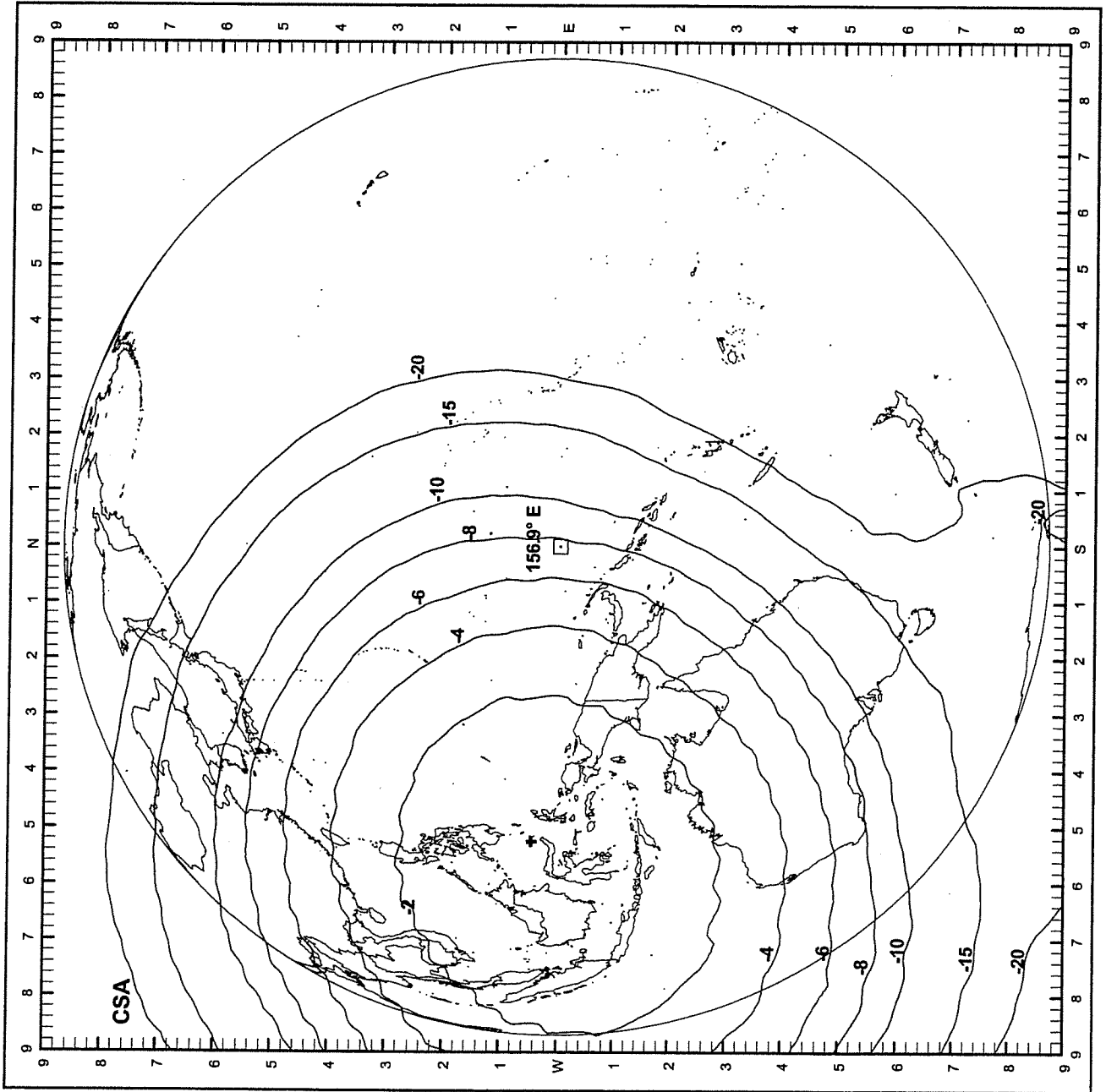
Telecommunications Policy and Regulatory Affairs

Intelsat Global Service Corporation

November 26, 2002

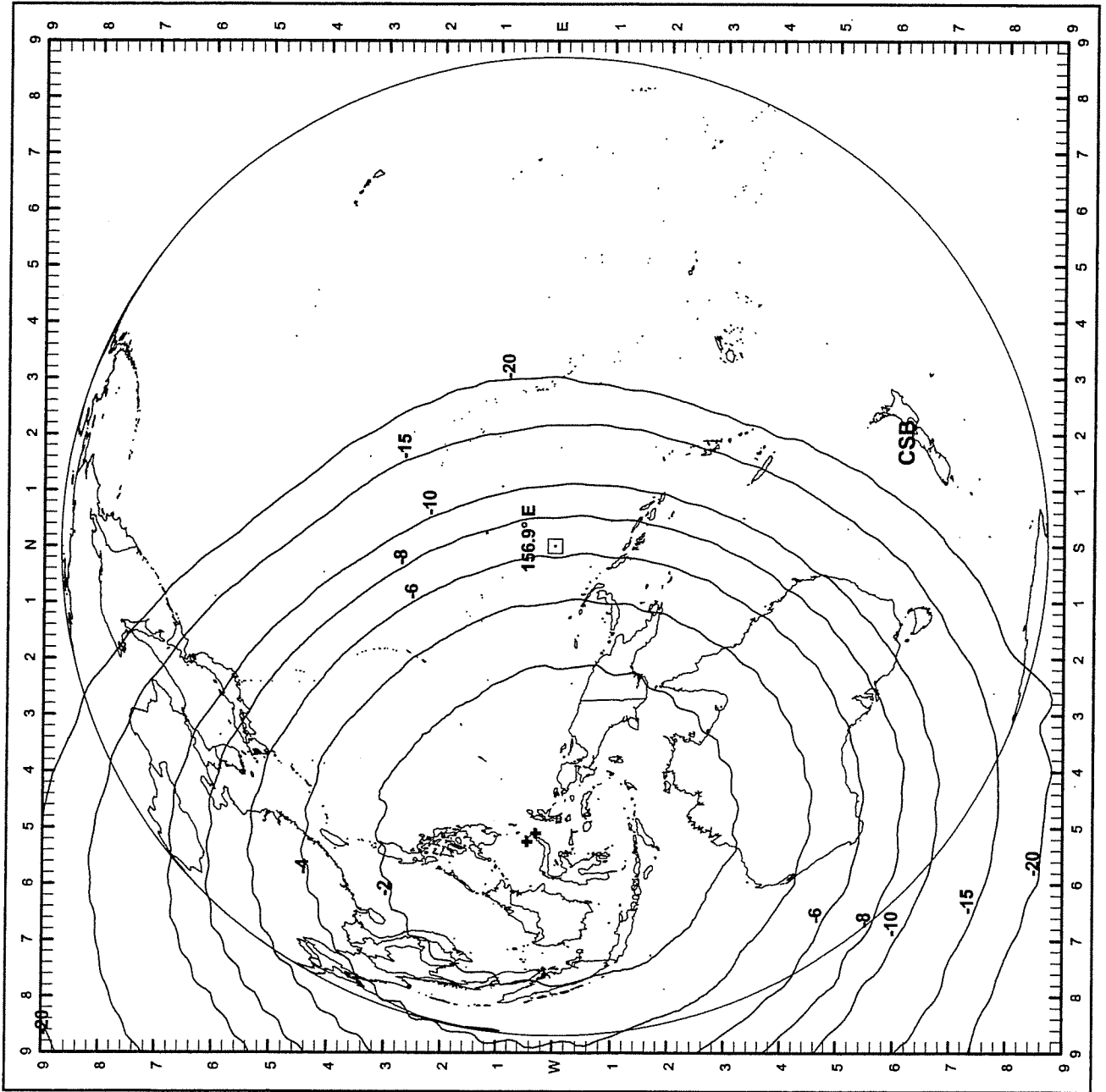


INTELSAT 702 at 156.90°E Antenna Coverage
S/C Platform Bias : 1.20°E 0.20°N
YAW : 0.00°
Antenna Pointing
CSA : 5.50°W 0.50°N
Peak Gain (Downlink Co-pol) (See +)
CSA : 28.1 dBi
Beam Peak EIRP
CSA : 38.4 dBW
Contour Levels
CSA : -2, -4, -6, -8, -10, -15, -20 dB
Beam Frequencies
CSA : 4095
Polarization
CSA : Circular RHCP
Square : Sub-Satellite Point



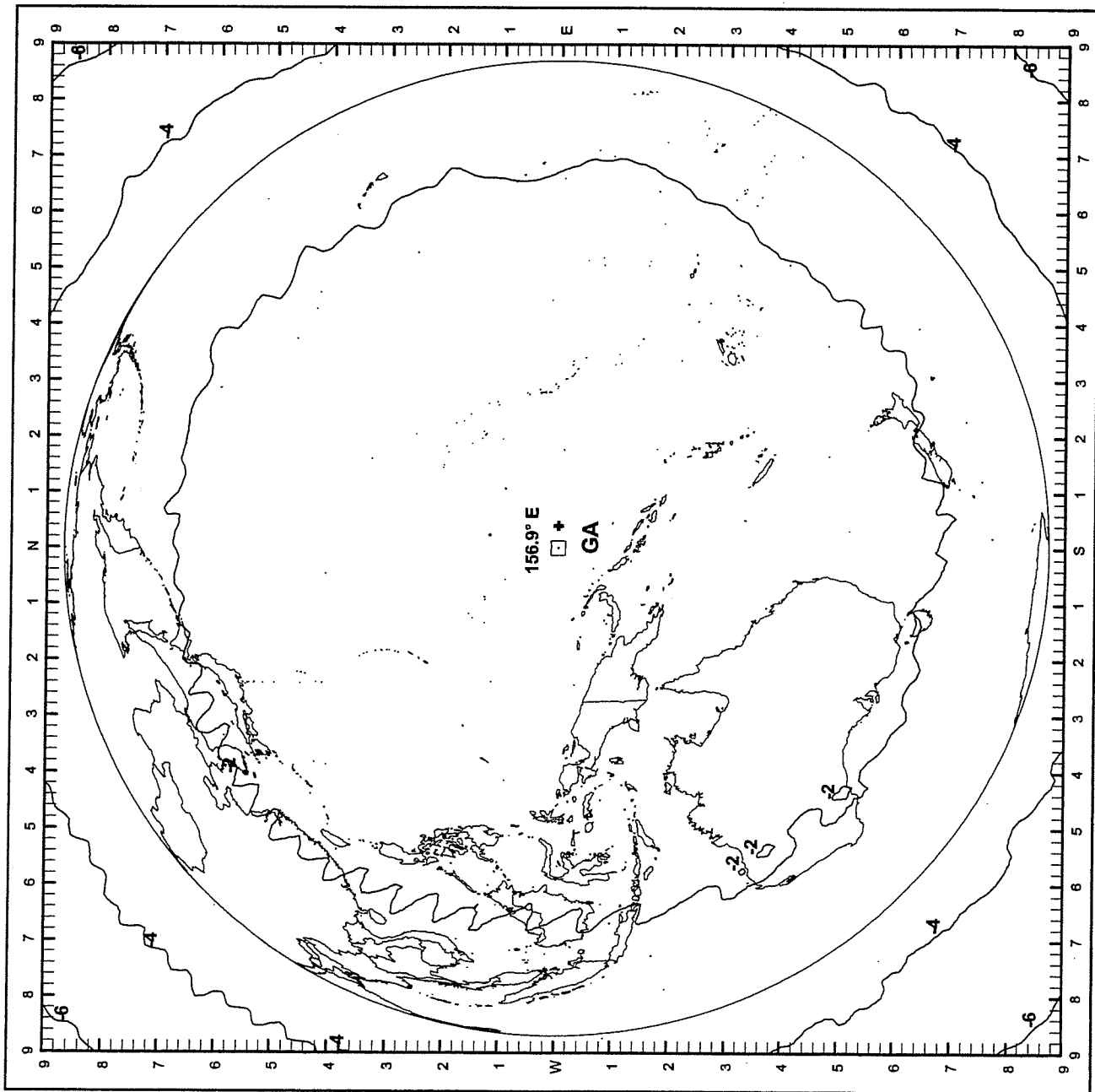


INTELSAT 702 at 156.90°E Antenna Coverage
S/C Platform Bias : 1.20°E 0.20°N
YAW : 0.00°
Antenna Pointing
CSB : 5.50°W 0.50°N
Peak Gain (Downlink Co-pol) (See +)
CSB : 28.1 dBi
Beam Peak EIRP
CSB : 38.5 dBW
Contour Levels
CSB : -2, -4, -6, -8, -10, -15, -20 dB
Beam Frequencies
CSB : 4095
Polarization
CSB : Circular LHCP
Square : Sub-Satellite Point



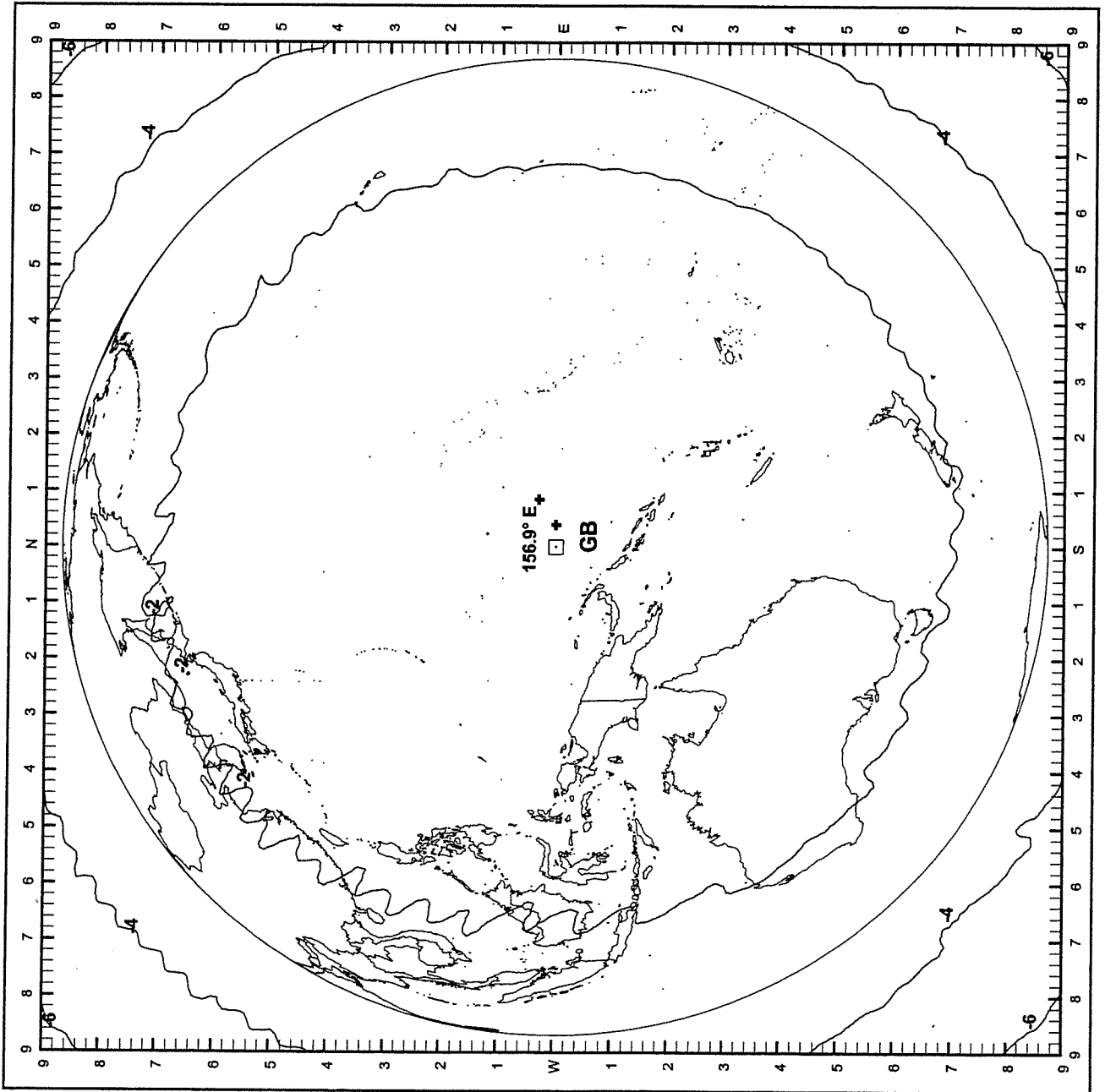


INTELSAT 702 at 156.90°E Antenna Coverage
S/C Platform Bias : 1.20°E 0.20°N
YAW : 0.00°
Antenna Pointing
GA : 0.00°E 0.20°N
Peak Gain (Downlink Co-pol) (See +)
GA : 20.8 dBi
Beam Peak EIRP
GA : 31.4 dBW
Contour Levels
GA : -2, -4, -6, -8, -10, -15, -20 dB
Beam Frequencies
GA : 4095
Polarization
GA : Circular RHCP
Square : Sub-Satellite Point





INTELSAT 702 at 156.90°E Antenna Coverage
S/C Platform Bias : 1.20°E 0.20°N
YAW : 0.00°
Antenna Pointing
GB : 0.00°E 0.20°N
Peak Gain (Downlink Co-pol) (See +)
GB : 20.7 dBi
Beam Peak EIRP
GB : 31.5 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 702 at 156.90°E Antenna Coverage
S/C Platform Bias : 1.20°E 0.20°N
YAW : 0.00°

Peak Gain (Downlink Co-pol) (See +)
H1 : 23.9 dBi

Beam Peak EIRP
H1 : 37.5 dBW

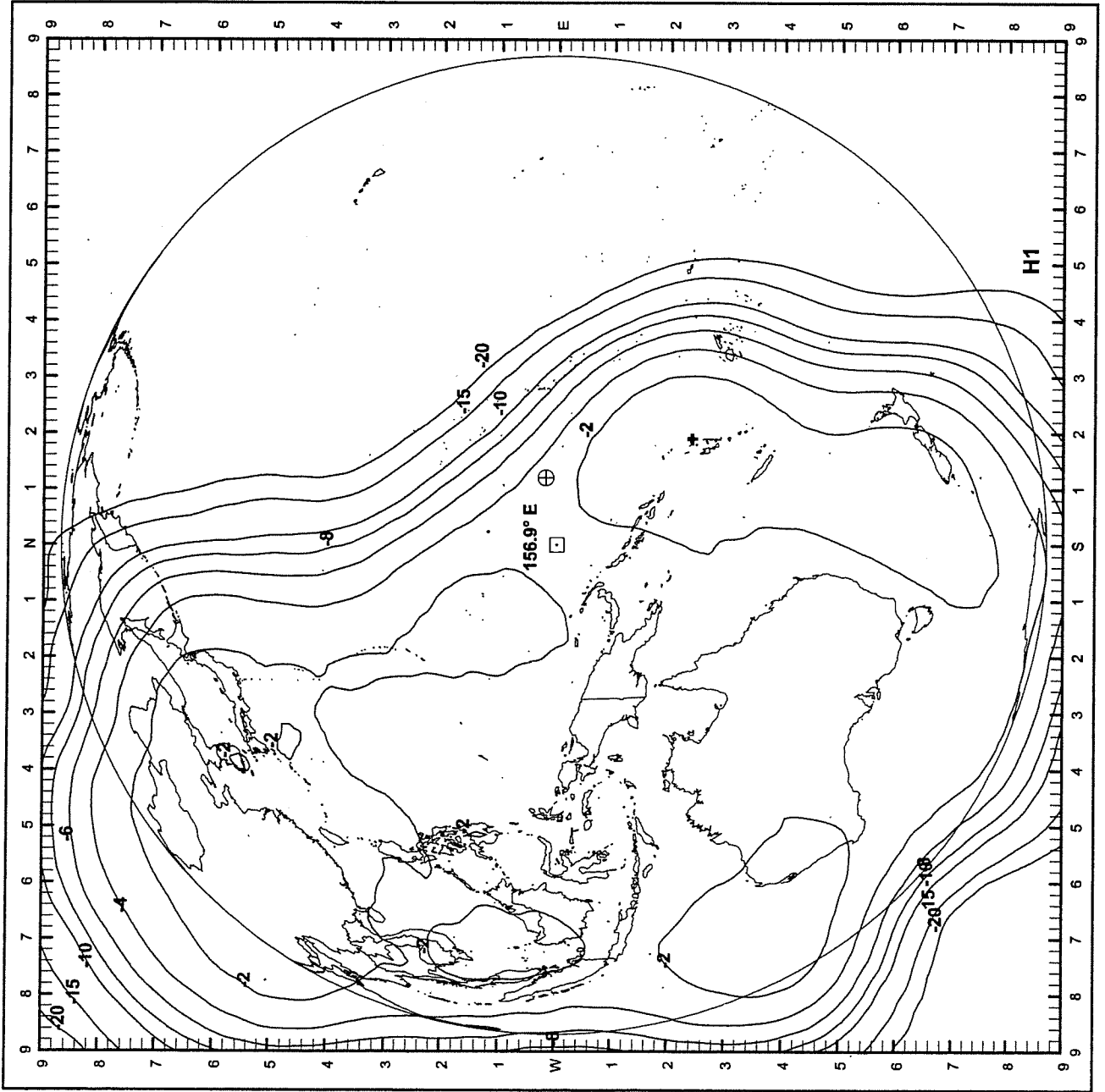
Contour Levels
H1 : -2, -4, -6, -8, -10, -15, -20 dB

Beam Frequencies
H1 : 3924

Polarization
H1 : Circular RHCP

Square : Sub-Satellite Point

Circle : Sat.Ant.Platform Bias





INTELSAT 702 at 156.90°E Antenna Coverage
S/C Platform Bias : 1.20°E 0.20°N
YAW : 0.00°

Peak Gain (Downlink Co-pol) (See +)
H2 : 27.4 dBi

Beam Peak EIRP
H2 : 39.2 dBW

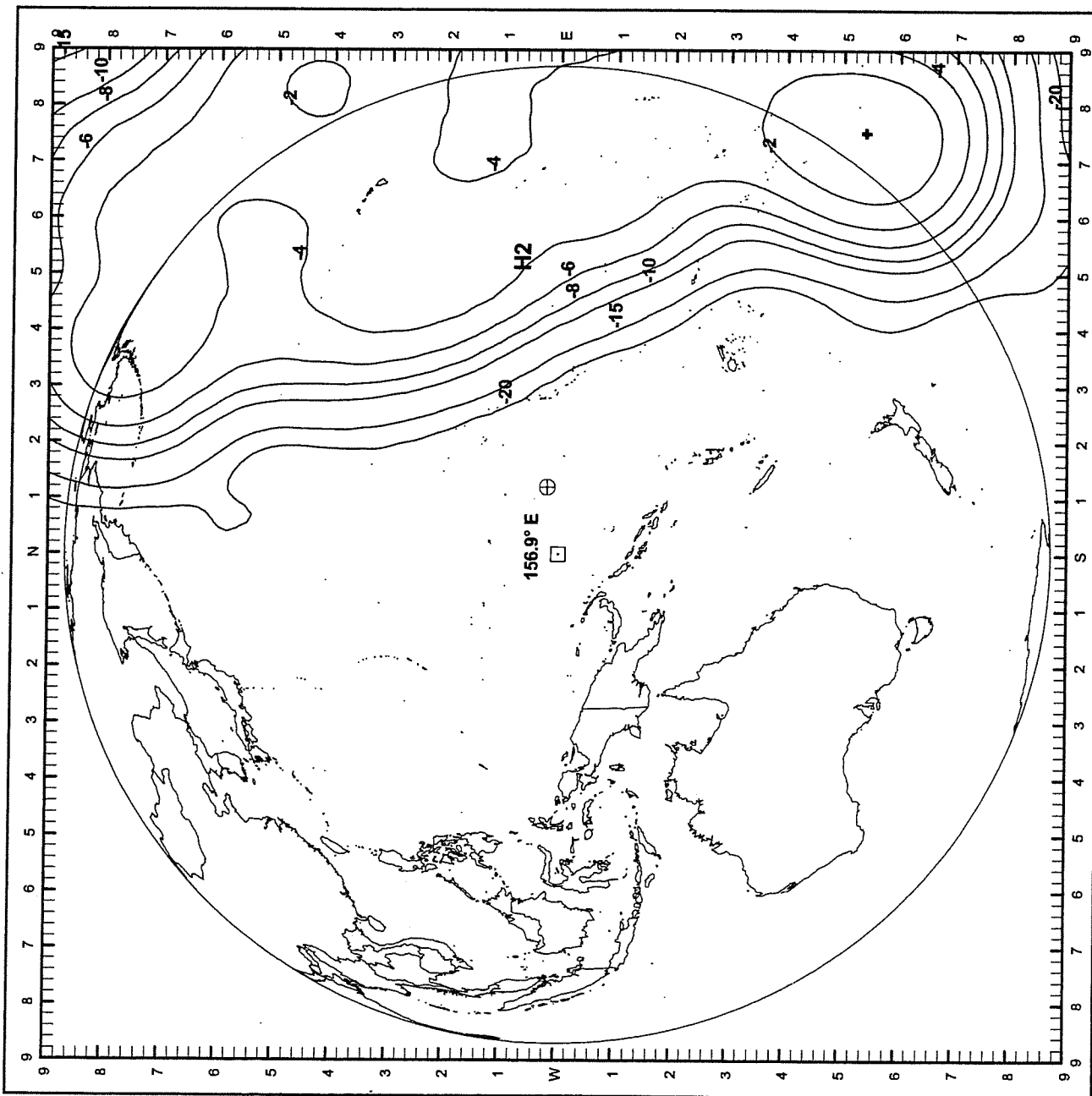
Contour Levels
H2 : -2, -4, -6, -8, -10, -15, -20 dB

Beam Frequencies
H2 : 3924

Polarization
H2 : Circular RHCP

Square : Sub-Satellite Point

Circle : Sat.Ant.Platform Bias



View : Orthographic 156.9° E
Status : INTELSAT APPROVED

Plot Date: 05 November 2002
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INTELSAT 702 at 156.90°E Antenna Coverage
 S/C Platform Bias : 1.20°E 0.20°N
 YAW : 0.00°

Peak Gain (Downlink Co-pol) (See +)
 ZD : 28.4 dBi
 ZA : 26.3 dBi

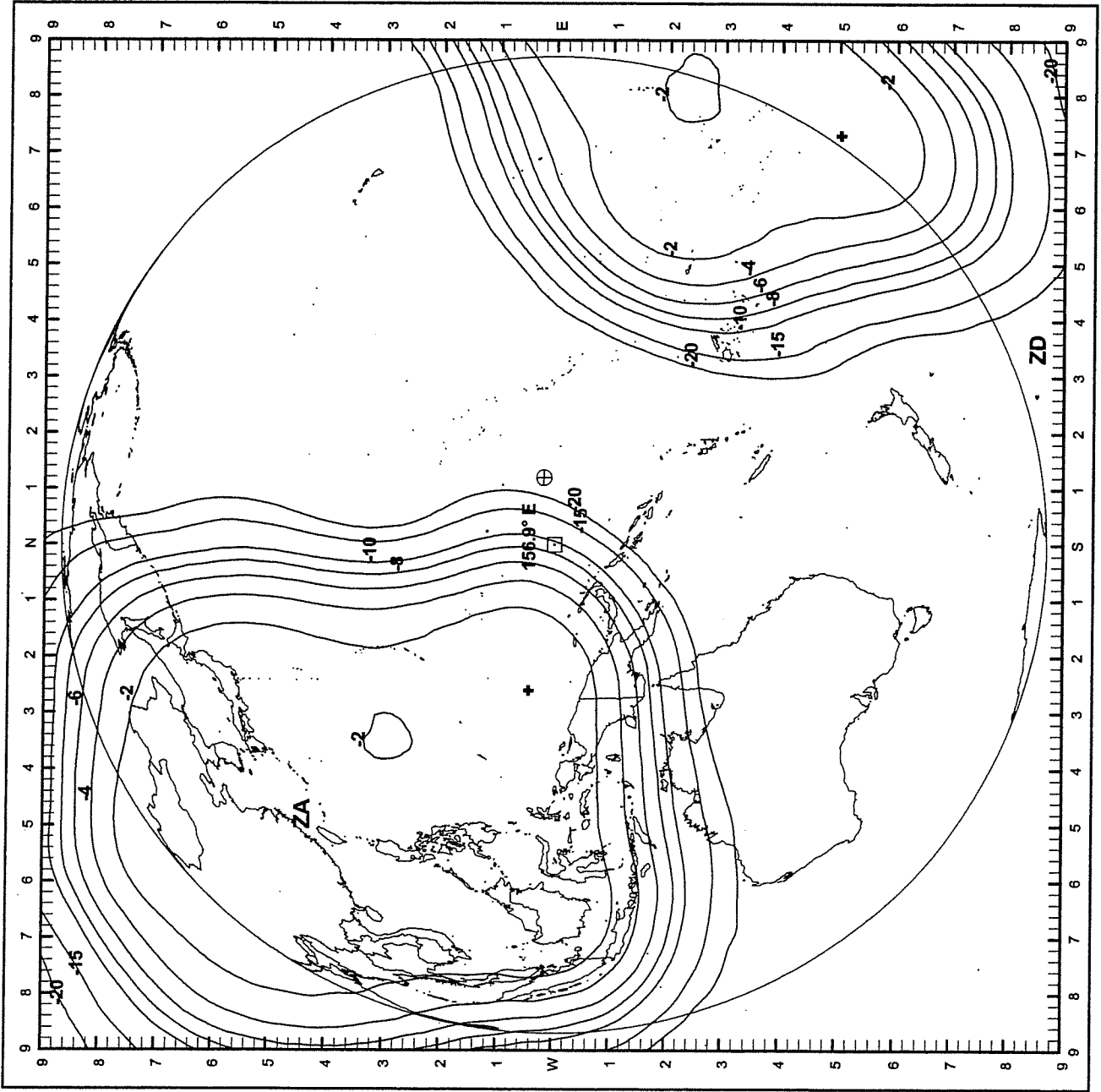
Beam Peak EIRP
 ZD : 39.0 dBW
 ZA : 36.8 dBW

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 702 at 156.90°E Antenna Coverage
S/C Platform Bias : 1.20°E 0.20°N
YAW : 0.00°

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

ZC : 28.4 dBi
ZB : 30.7 dBi

Beam Peak EIRP

ZC : 37.1 dBW
ZB : 39.4 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

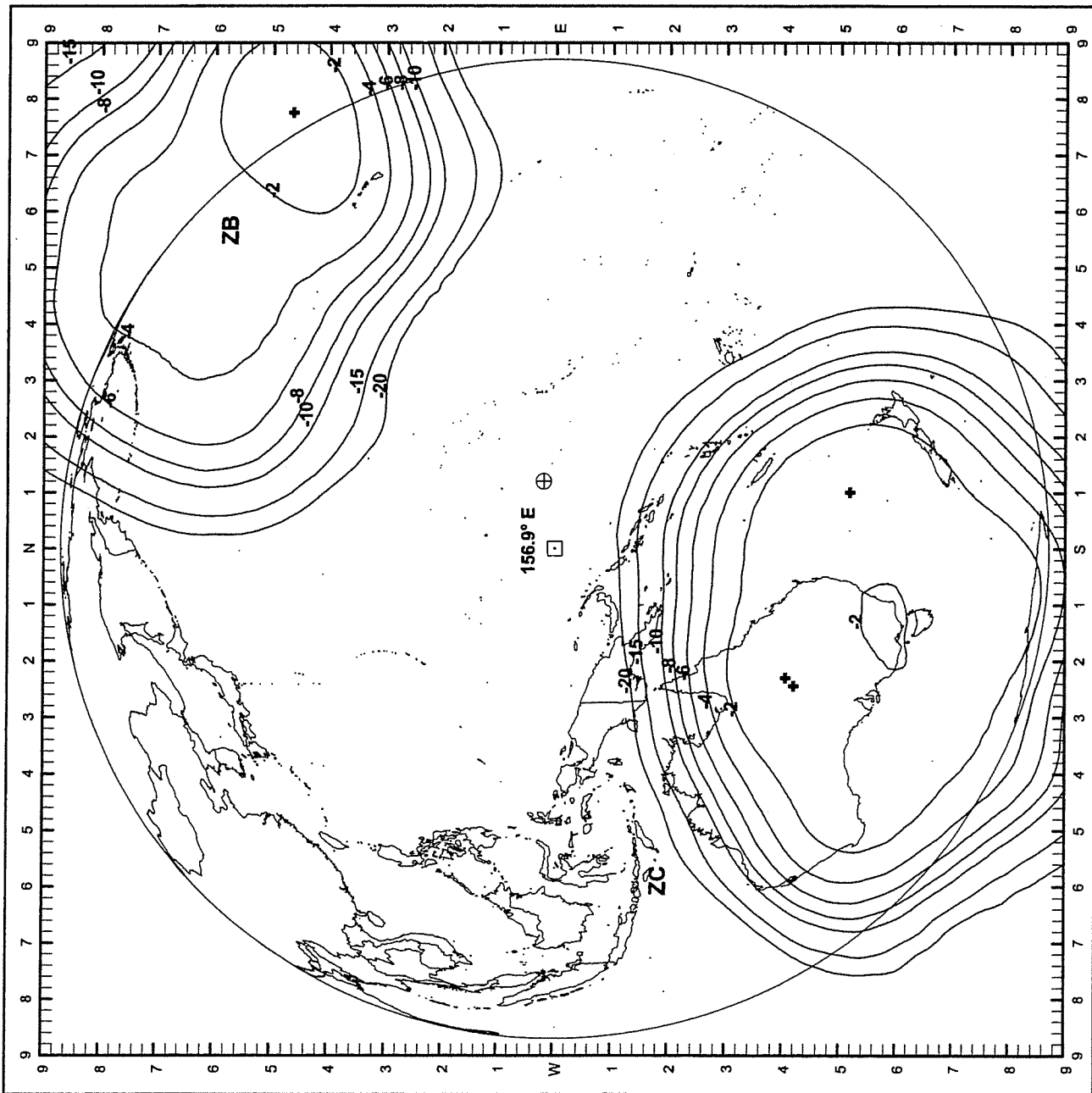
ZC : Circular LHCP
ZB : Circular LHCP

Square

: Sub-Satellite Point

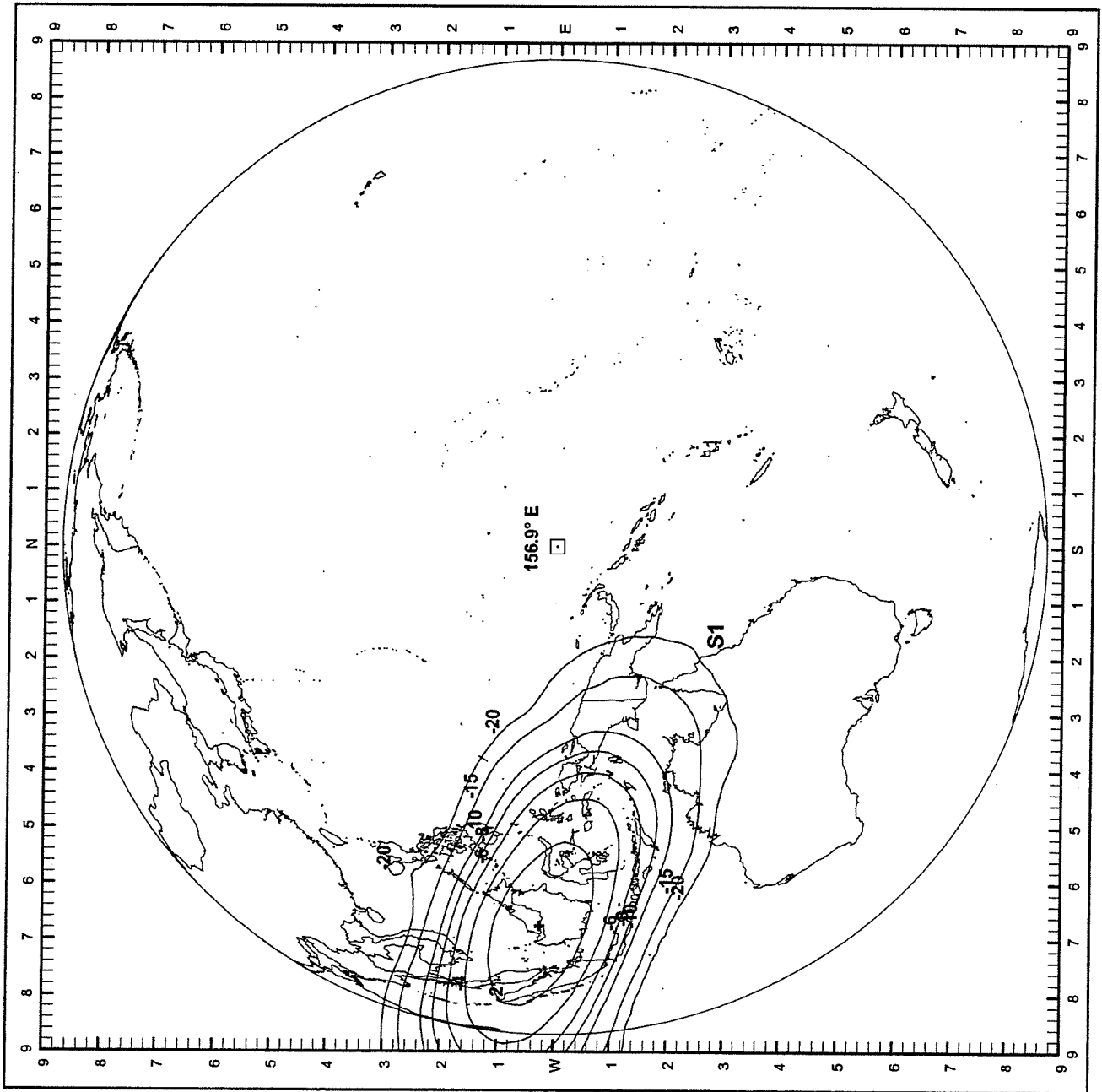
Circle

: Sat. Ant. Platform Bias



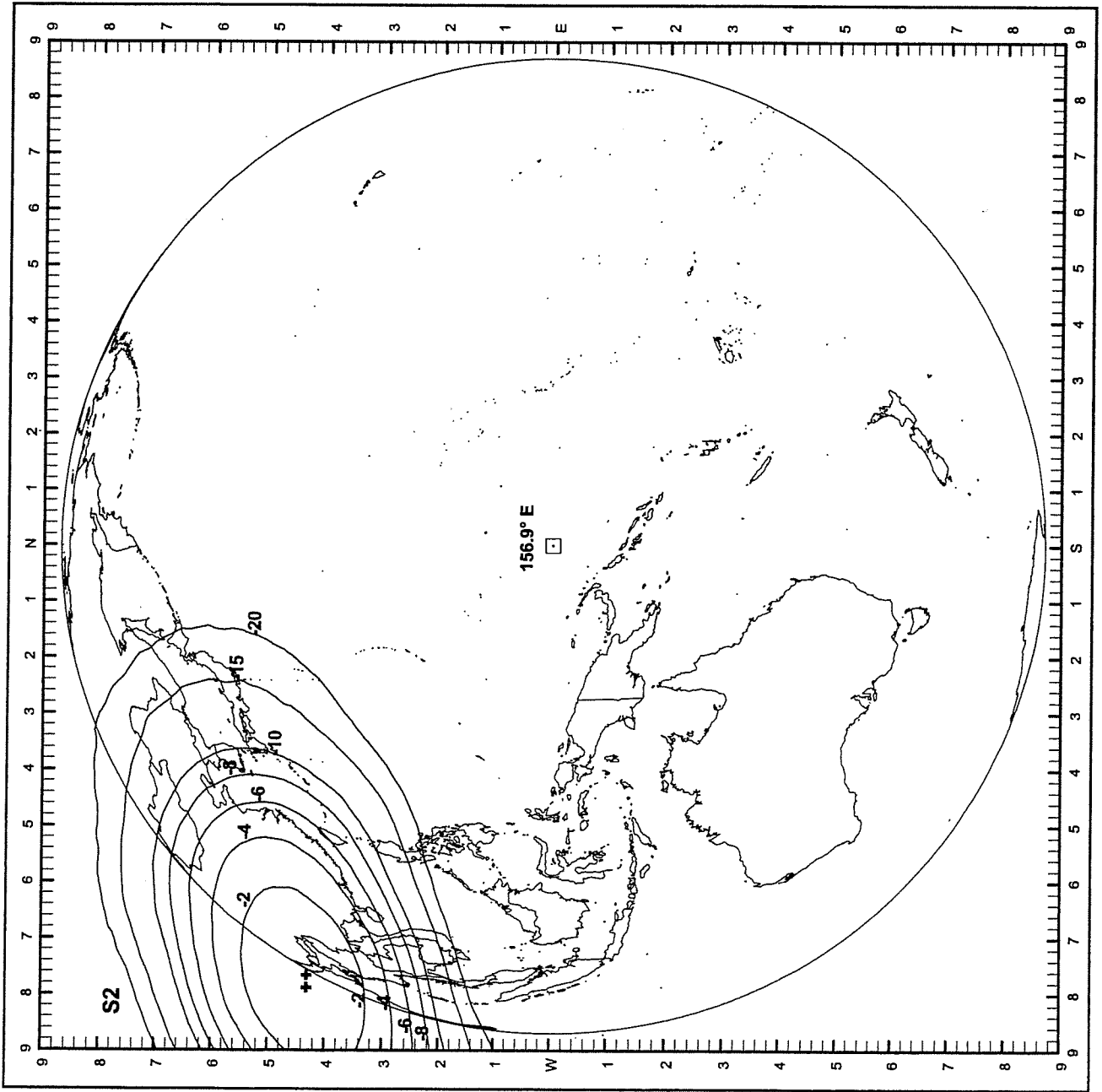


INTELSAT 702 at 156.90°E Antenna Coverage
S/C Platform Bias : 1.20°E 0.20°N
YAW : 0.00°
Antenna Pointing
S1 : 6.70°W 0.20°N
Peak Gain (Downlink Co-pol) (See +)
S1 : 36.1 dBi
Beam Peak EIRP
S1 : 49.3 dBW
Contour Levels
S1 : -2, -4, -6, -8, -10, -15, -20 dB
Beam Frequencies
S1 : 11174
Polarization
S1 : Linear Vertical
Square : Sub-Satellite Point



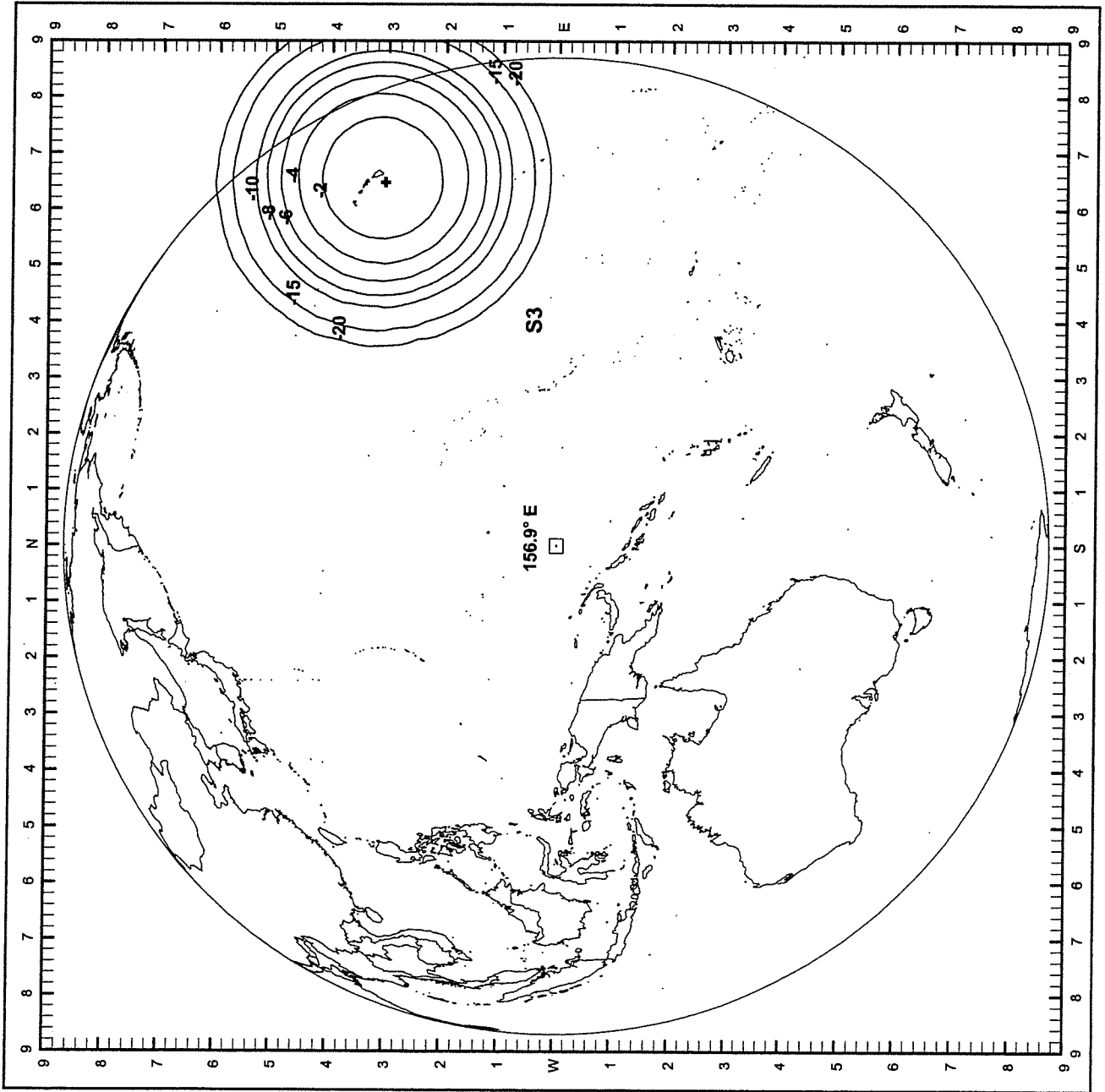


INTELSAT 702 at 156.90°E Antenna Coverage
S/C Platform Bias : 1.20°E 0.20°N
YAW : 0.00°
Antenna Pointing
S2 : 7.80°W 4.50°N
Peak Gain (Downlink Co-pol) (See +)
S2 : 34.5 dBi
Beam Peak EIRP
S2 : 49.4 dBW
Contour Levels
S2 : -2, -4, -6, -8, -10, -15,
-20 dB
Beam Frequencies
S2 : 11174
Polarization
S2 : Linear Horizontal
Square : Sub-Satellite Point



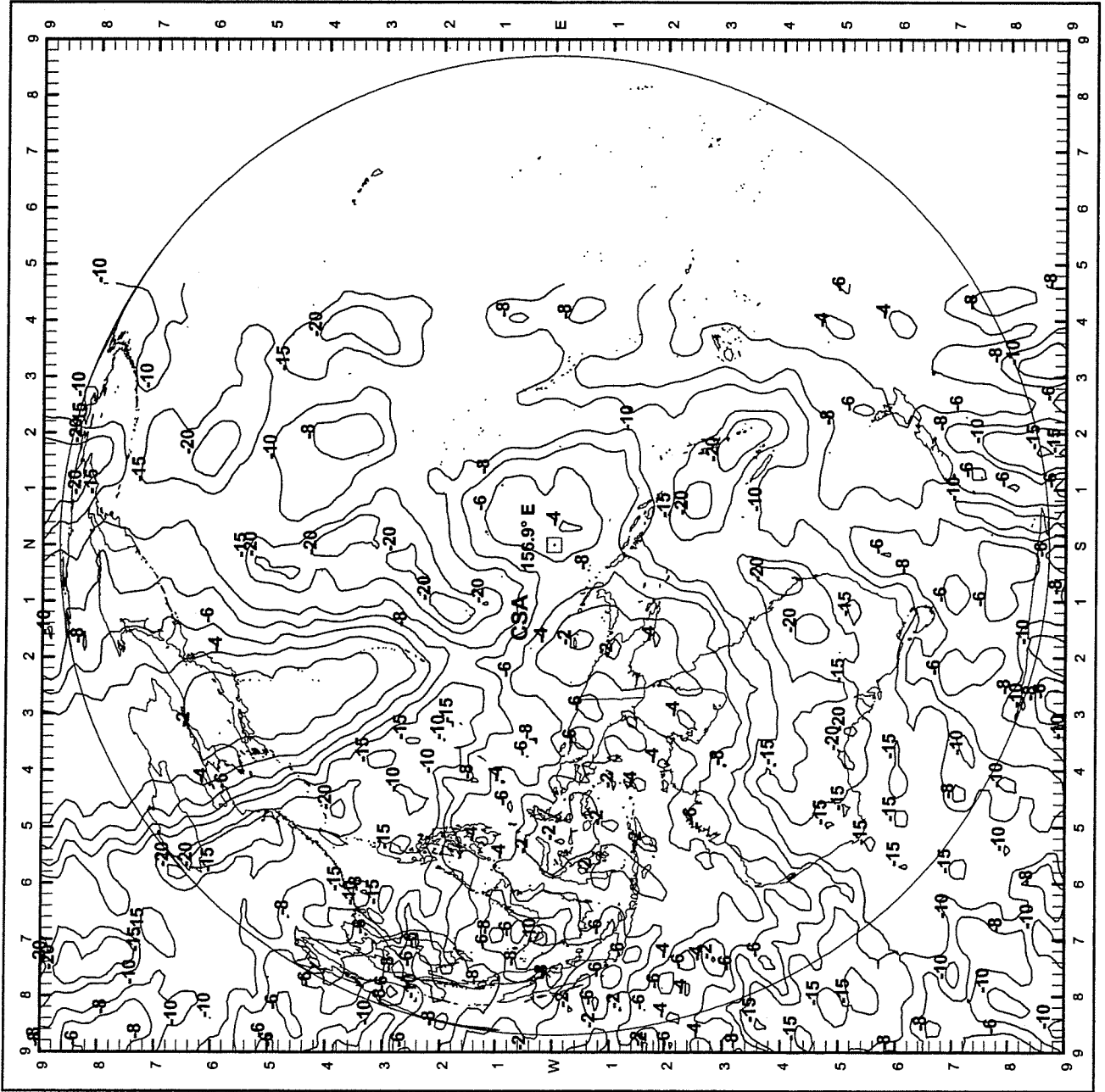


INTELSAT 702 at 156.90°E Antenna Coverage
S/C Platform Bias : 1.20°E 0.20°N
YAW : 0.00°
Antenna Pointing
S3 : 6.50°E 3.20°N
Peak Gain (Downlink Co-pol) (See +)
S3 : 36.5 dBi
Beam Peak EIRP
S3 : 50.6 dBW
Contour Levels
S3 : -2, -4, -6, -8, -10, -15,
-20 dB
Beam Frequencies
S3 : 11174
Polarization
S3 : Linear Vertical
Square : Sub-Satellite Point



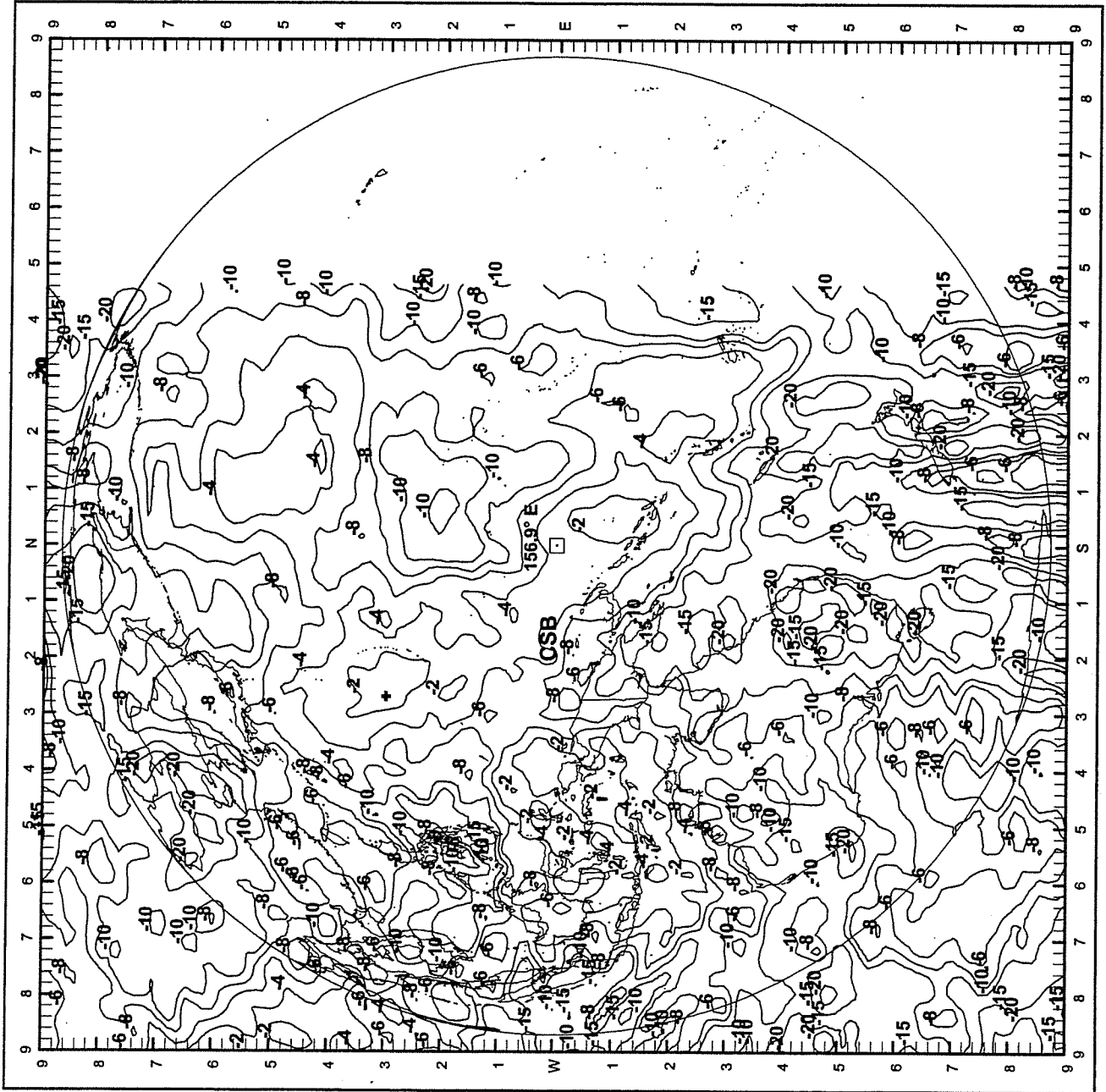


INTELSAT 702 at 156.90°E Antenna Coverage
S/C Platform Bias : 1.20°E 0.20°N
YAW : 0.00°
Antenna Pointing
CSA : 5.50°W 0.50°N
Peak Gain (Downlink X-pol) (See +)
CSA : -0.5 dBi
Contour Levels
CSA : -2, -4, -6, -8, -10, -15, -20 dB
Beam Frequencies : 4095
Polarization : Circular LHCP
CSA :
Square : Sub-Satellite Point



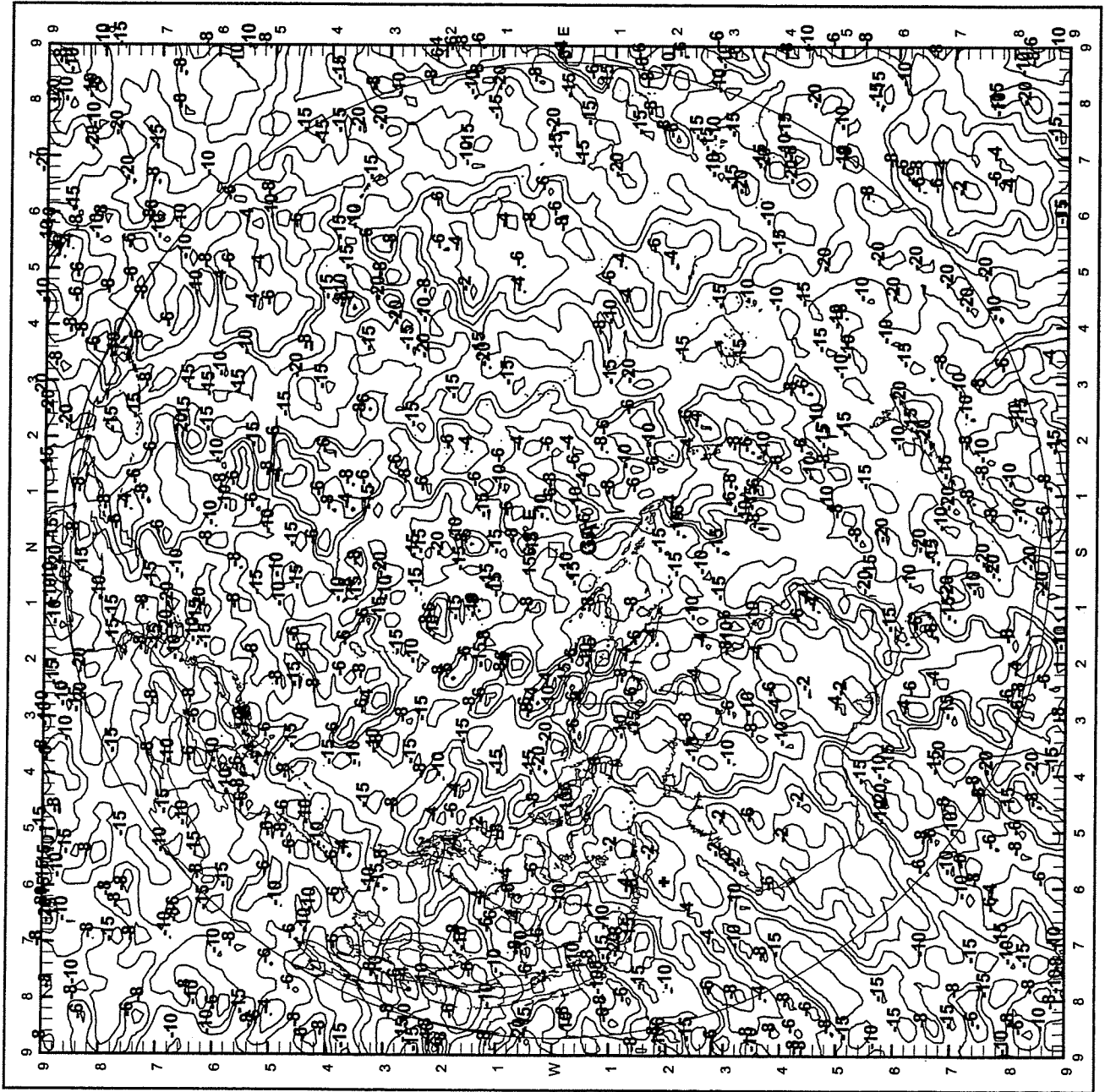


INTELSAT 702 at 156.90°E Antenna Coverage
S/C Platform Bias : 1.20°E 0.20°N
YAW : 0.00°
Antenna Pointing
CSB : 5.50°W 0.50°N
Peak Gain (Downlink X-pol) (See +)
CSB : -0.8 dBi
Contour Levels
CSB : -2, -4, -6, -8, -10, -15, -20 dB
Beam Frequencies
CSB : 4095
Polarization
CSB : Circular RHCP
Square : Sub-Satellite Point



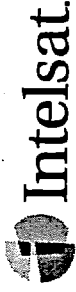


INTELSAT 702 at 156.90°E Antenna Coverage
S/C Platform Bias : 1.20°E 0.20°N
YAW : 0.00°
Antenna Pointing
GA : 0.00°E 0.20°N
Peak Gain (Downlink X-pol) (See +)
GA : -8.8 dBi
Contour Levels
GA : -2, -4, -6, -8, -10, -15, -20 dB
Beam Frequencies
GA : 4095
Polarization
GA : Circular LHCP
Square : Sub-Satellite Point

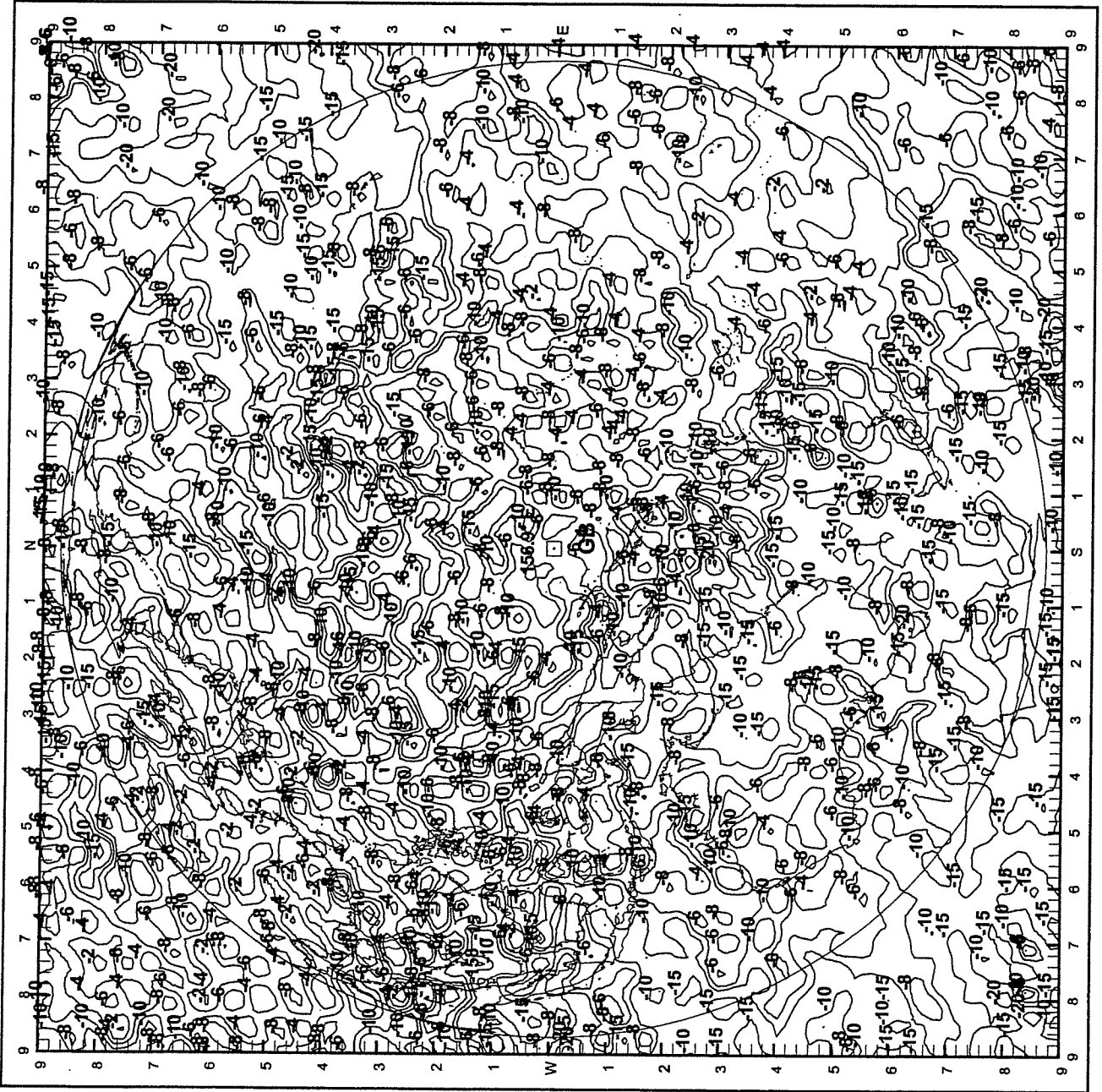


View : Orthographic 156.9° E
Status : INTELSAT APPROVED

Plot Date: 05 November 2002
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INTELSAT 702 at 156.90°E Antenna Coverage
S/C Platform Bias : 1.20°E 0.20°N
YAW : 0.00°
Antenna Pointing
GB : 0.00°E 0.20°N
Peak Gain (Downlink X-pol) (See +)
GB : -9.1 dBi
Contour Levels
GB : -2, -4, -6, -8, -10, -15, -20 dB
Beam Frequencies
GB : 4095
Polarization
GB : Circular RHCP
Square : Sub-Satellite Point





INTELSAT 702 at 156.90°E Antenna Coverage
S/C Platform Bias : 1.20°E 0.20°N
YAW : 0.00°

Peak Gain (Downlink X-pol) (See +)
H1 : -5.0 dBi

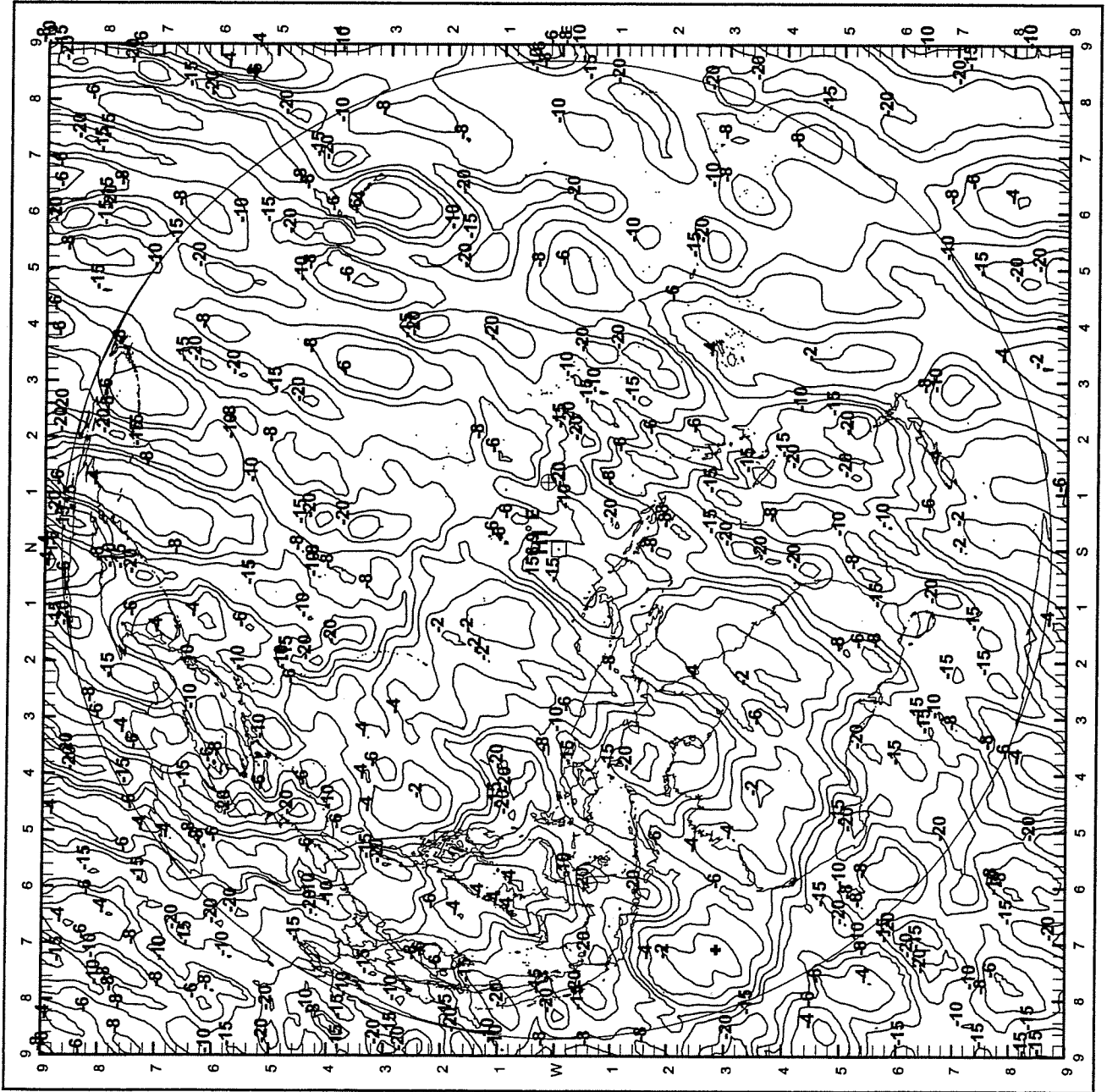
Contour Levels
H1 : -2, -4, -6, -8, -10, -15,
-20 dB

Beam Frequencies
H1 : 3924

Polarization
H1 : Circular LHCP

Square : Sub-Satellite Point

Circle : Sat.Ant.Platform Bias





INTELSAT 702 at 156.90°E Antenna Coverage
S/C Platform Bias : 1.20°E 0.20°N
YAW : 0.00°

Peak Gain (Downlink X-pol) (See +)
H2 : -1.3 dBi

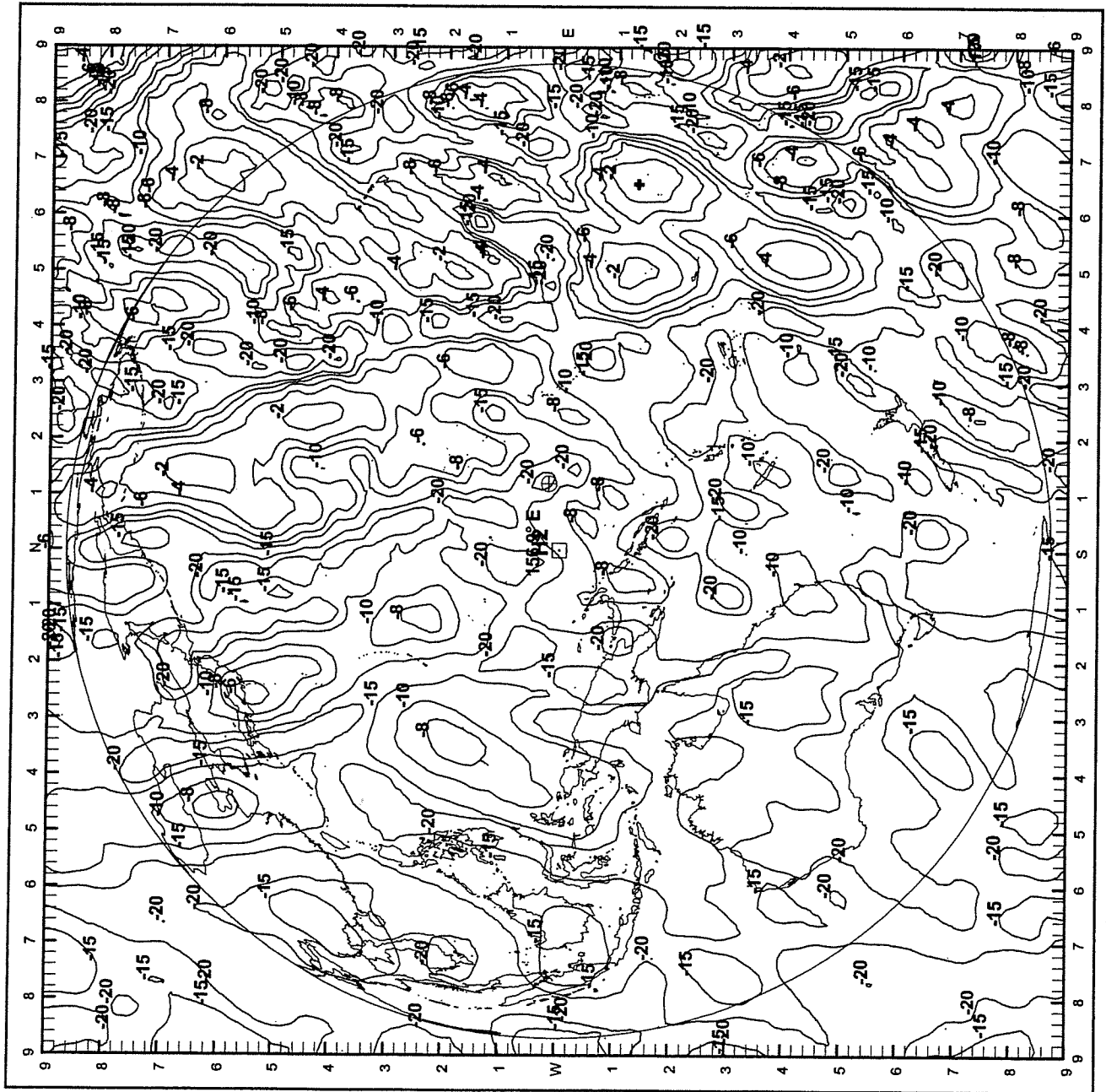
Contour Levels
H2 : -2, -4, -6, -8, -10, -15,
-20 dB

Beam Frequencies
H2 : 3924

Polarization
H2 : Circular LHCP

Square : Sub-Satellite Point

Circle : Sat.Ant.Platform Bias





INTELSAT 702 at 156.90°E Antenna Coverage
S/C Platform Bias : 1.20°E 0.20°N
YAW : 0.00°

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

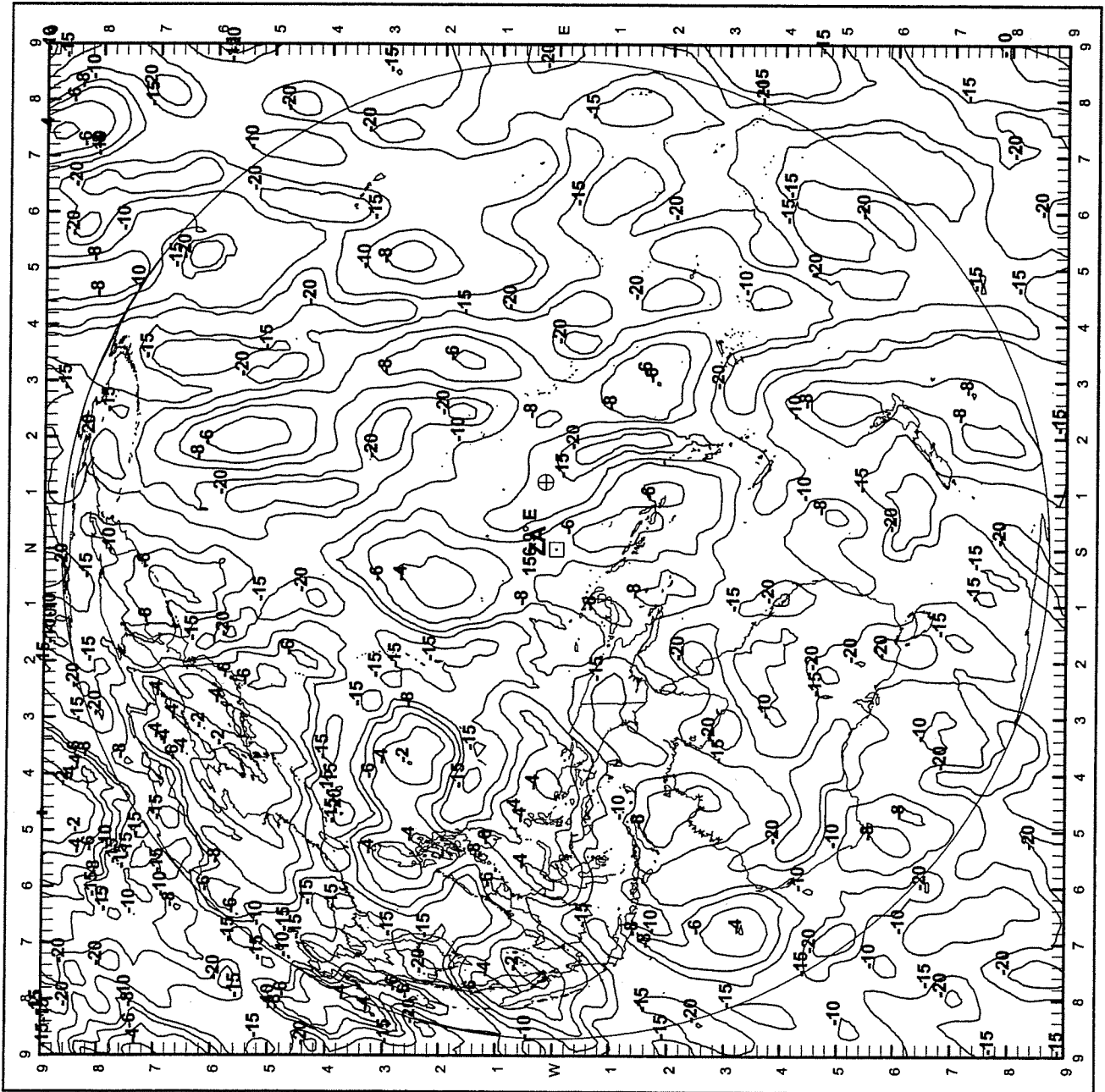
Contour Levels
ZA : -2, -4, -6, -8, -10, -15, -20 dB

Beam Frequencies
ZA : 3924

Polarization
ZA : Circular RHCP

Square : Sub-Satellite Point

Circle : Sat.Ant.Platform Bias





INTELSAT 702 at 156.90°E Antenna Coverage
S/C Platform Bias : 1.20°E 0.20°N
YAW : 0.00°

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

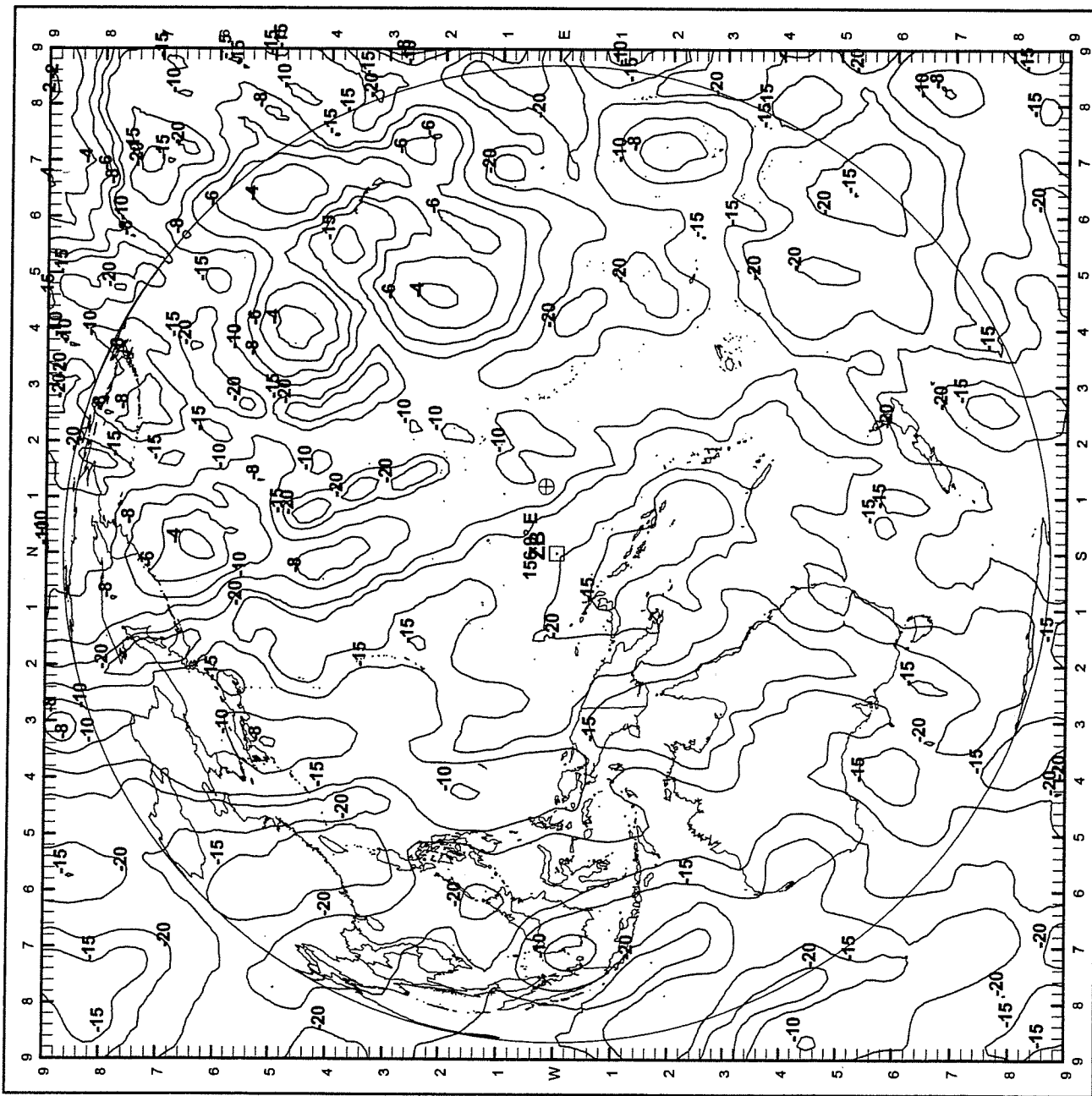
Contour Levels
ZB : -2, -4, -6, -8, -10, -15, -20 dB

Beam Frequencies
ZB : 3924

Polarization
ZB : Circular RHCP

Square : Sub-Satellite Point

Circle : Sat.Ant.Platform Bias





INTELSAT 702 at 156.90°E Antenna Coverage
S/C Platform Bias : 1.20°E 0.20°N
YAW : 0.00°

Peak Gain (Downlink X-pol) (See +)
ZC : -1.3 dBi

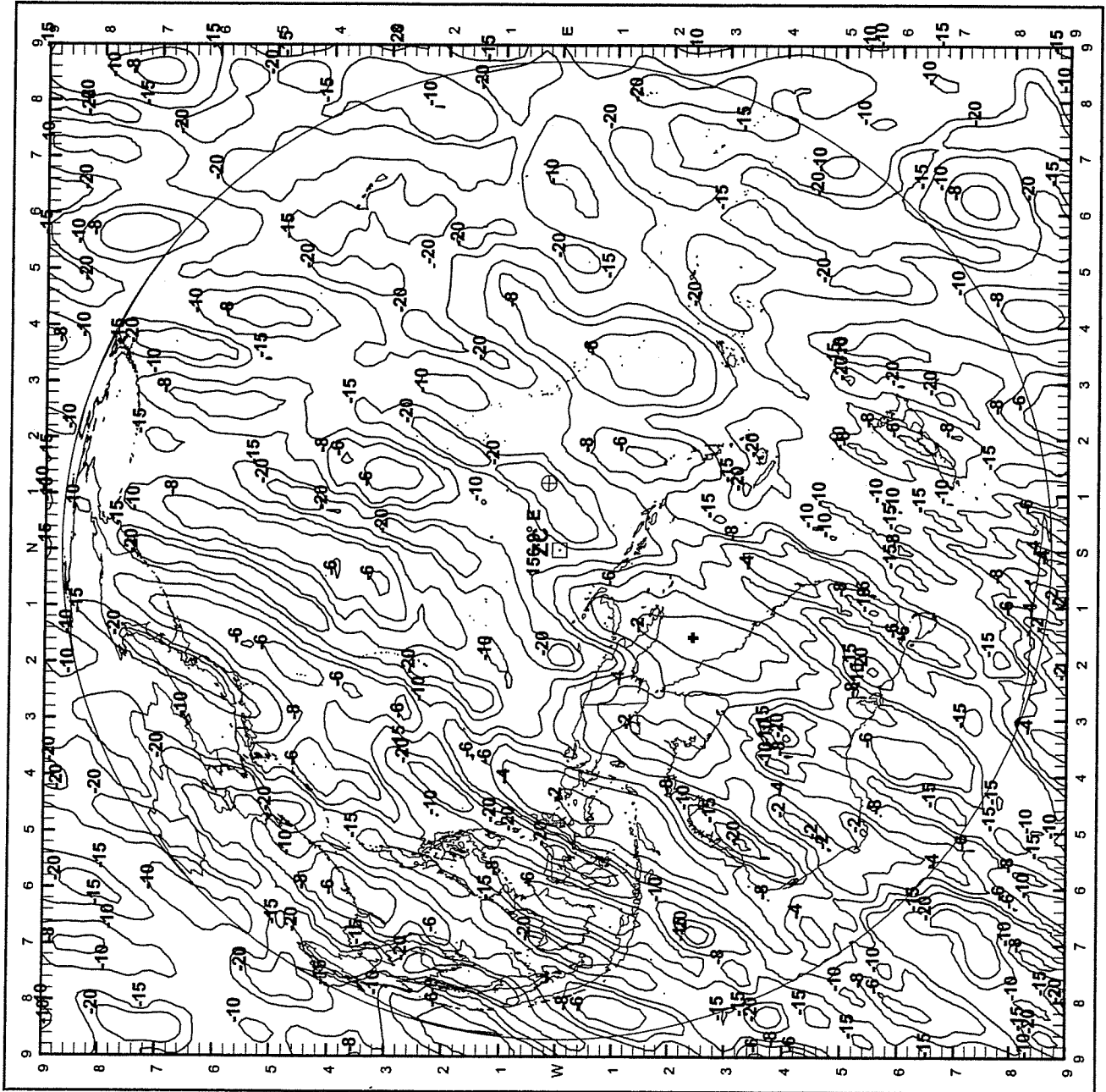
Contour Levels
ZC : -2, -4, -6, -8, -10, -15,
-20 dB

Beam Frequencies
ZC : 3924

Polarization
ZC : Circular RHCP

Square : Sub-Satellite Point

Circle : Sat.Ant.Platform Bias





INTELSAT 702 at 156.90°E Antenna Coverage
S/C Platform Bias : 1.20°E 0.20°N
YAW : 0.00°

Peak Gain (Downlink X-pol) (See +)
ZD : 3.0 dBi

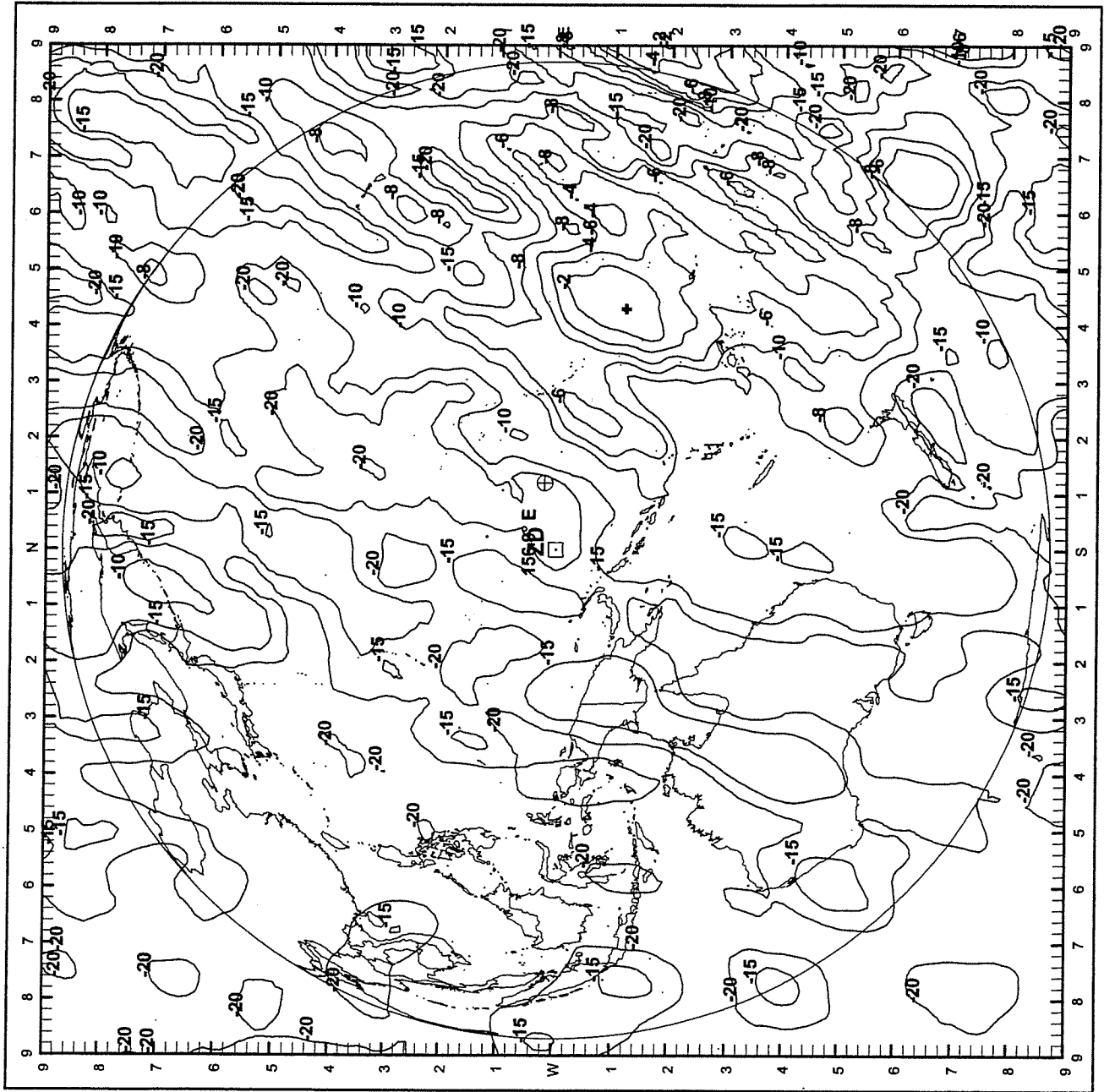
Contour Levels
ZD : -2, -4, -6, -8, -10, -15,
-20 dB

Beam Frequencies
ZD : 3924

Polarization
ZD : Circular RHCP

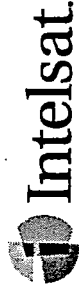
Square : Sub-Satellite Point

Circle : Sat.Ant.Platform Bias



View : Orthographic 156.9° E
Status : INTELSAT APPROVED

Plot Date: 05 November 2002
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INTELSAT 702 at 156.90°E Antenna Coverage
S/C Platform Bias : 1.20°E 0.20°N
YAW : 0.00°
Antenna Pointing
S1 : 6.70°W 0.20°N

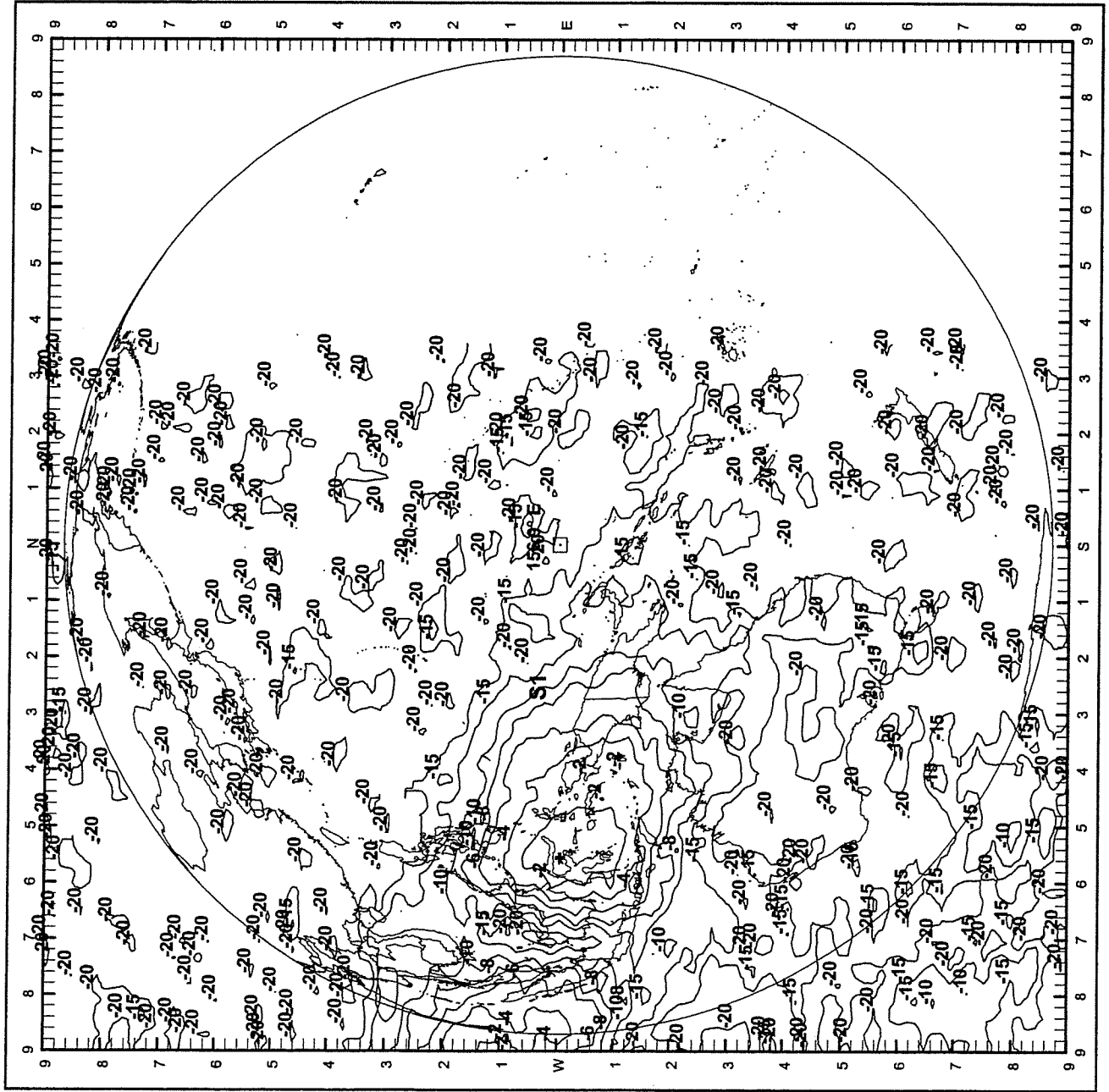
Peak Gain (Downlink X-pol) (See +)
S1 : 9.9 dBi

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

Beam Frequencies
S1 : 11174

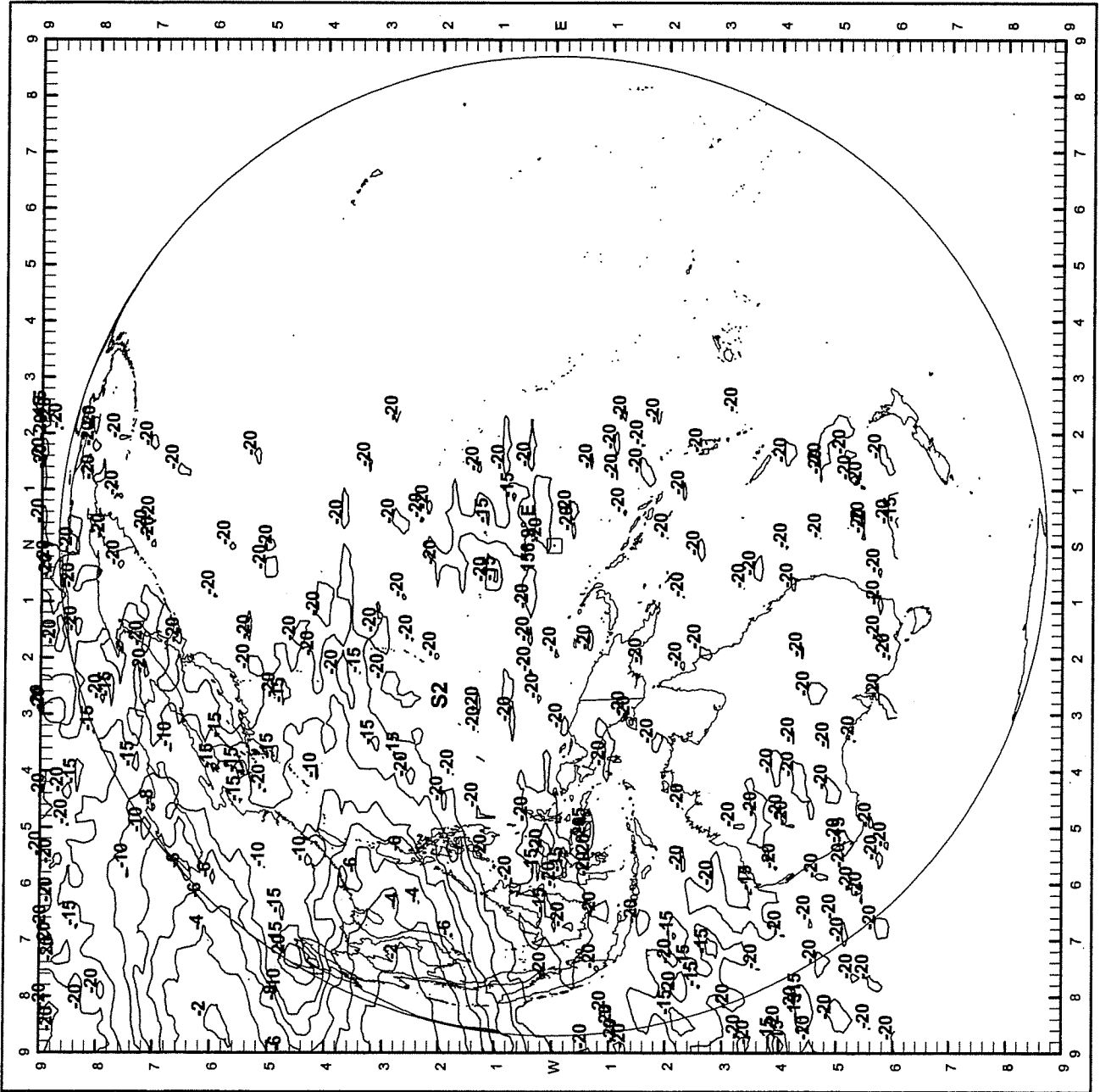
Polarization
S1 : Linear Horizontal

Square : Sub-Satellite Point



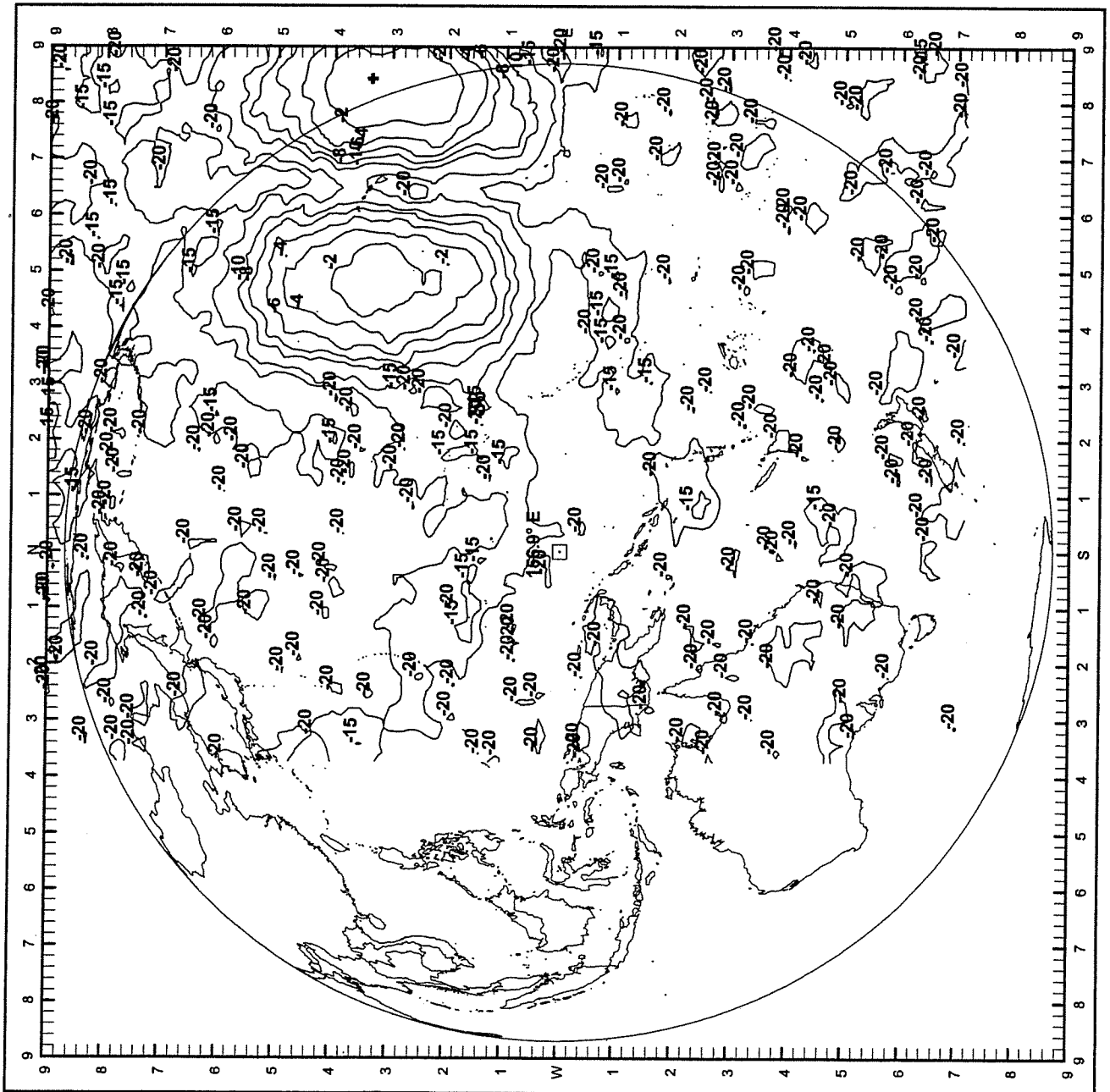


INTELSAT 702 at 156.90°E Antenna Coverage
S/C Platform Bias : 1.20°E 0.20°N
YAW : 0.00°
Antenna Pointing
S2 : 7.80°W 4.50°N
Peak Gain (Downlink X-pol) (See +)
S2 : 9.1 dBi
Contour Levels
S2 : -2, -4, -6, -8, -10, -15, -20 dB
Beam Frequencies
S2 : 11174
Polarization
S2 : Linear Vertical
Square : Sub-Satellite Point



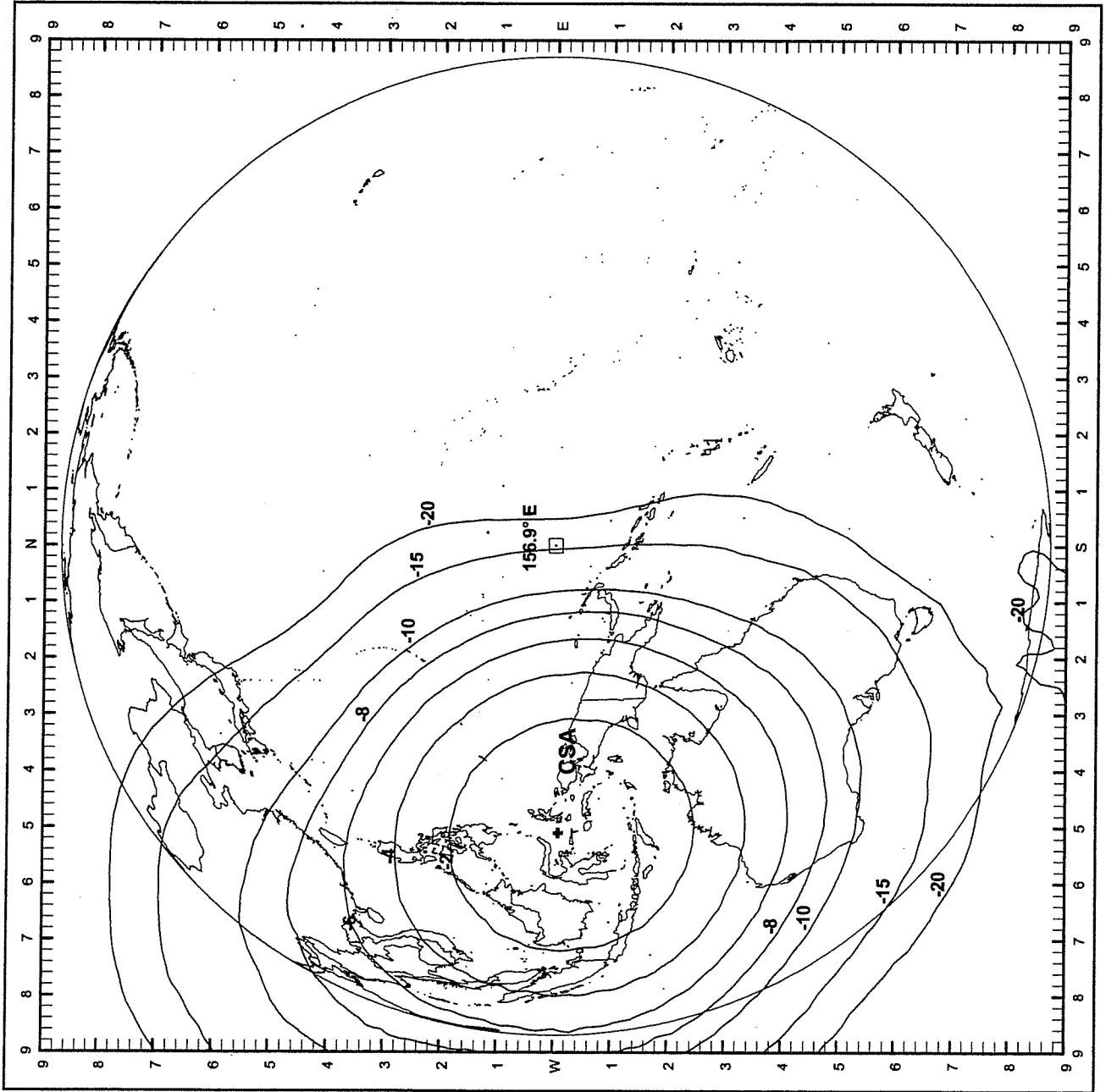


INTELSAT 702 at 156.90°E Antenna Coverage
S/C Platform Bias : 1.20°E 0.20°N
YAW : 0.00°
Antenna Pointing : 6.50°E 3.20°N
S3
Peak Gain (Downlink X-pol) (See +)
S3 : 9.1 dBi
Contour Levels : -2, -4, -6, -8, -10, -15, -20 dB
S3
Beam Frequencies : 11174
S3
Polarization : Linear Horizontal
S3
Square : Sub-Satellite Point



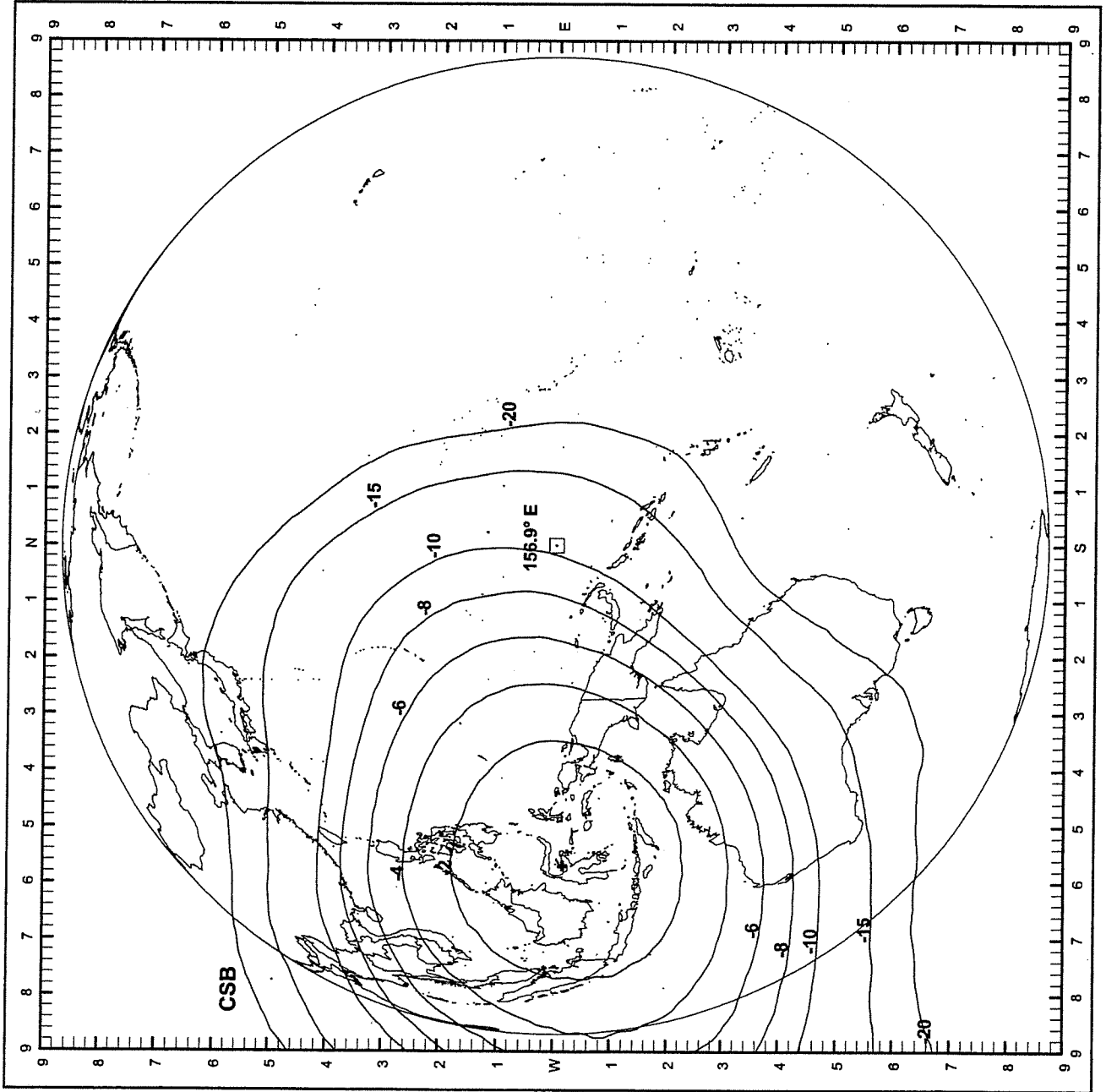


INTELSAT 702 at 156.90°E Antenna Coverage
S/C Platform Bias : 1.20°E 0.20°N
YAW : 0.00°
Antenna Pointing
CSA : 5.50°W 0.50°N
Peak Gain (Uplink Co-pol) (See +)
CSA : 30.2 dBi
Beam Peak G/T
CSA : 2.7 dB/K
Contour Levels
CSA : -2, -4, -6, -8, -10, -15,
-20 dB
Beam Frequencies
CSA : 6320
Polarization
CSA : Circular LHCP
Square : Sub-Satellite Point



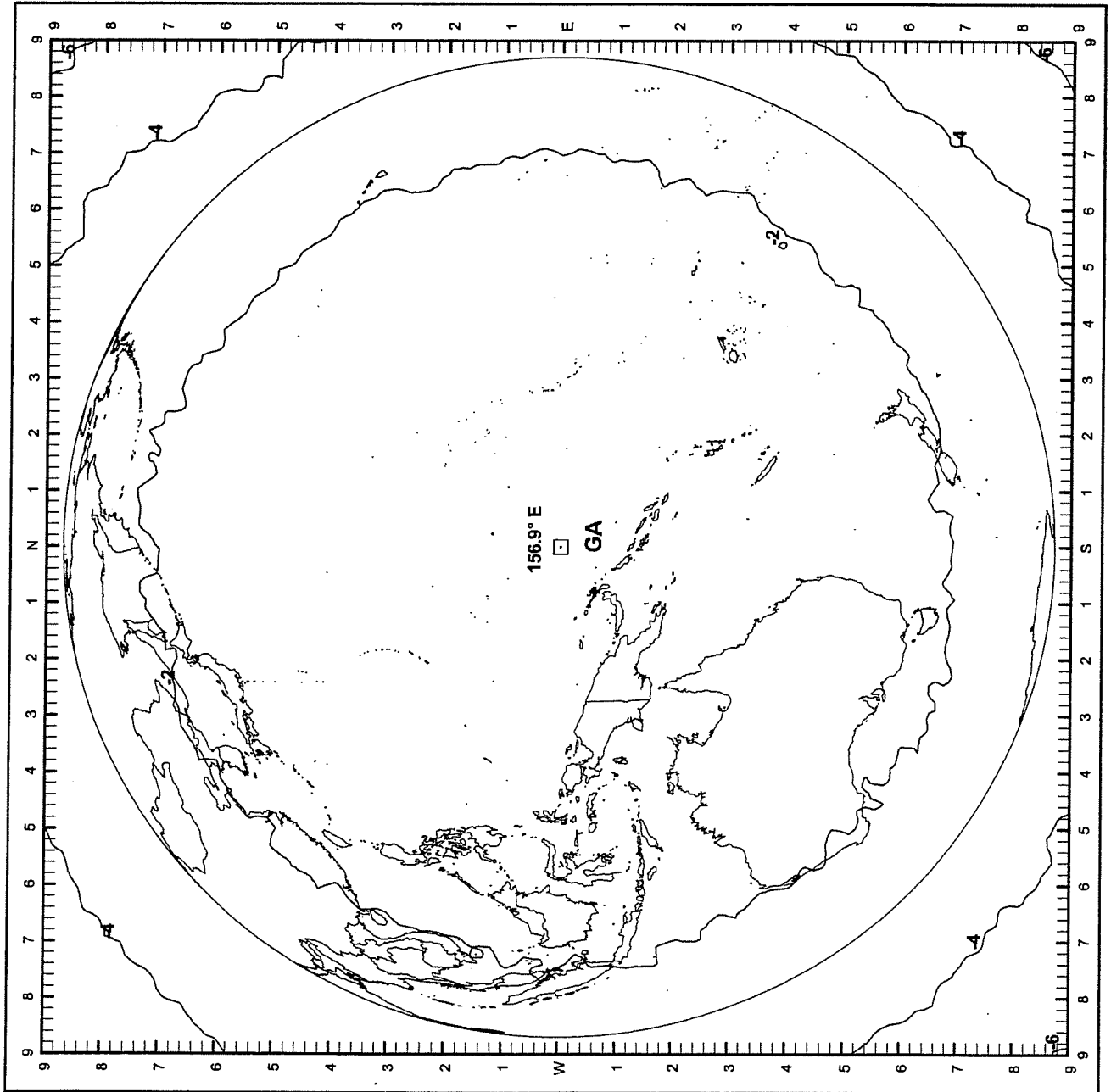


INTELSAT 702 at 156.90°E Antenna Coverage
S/C Platform Bias : 1.20°E 0.20°N
YAW : 0.00°
Antenna Pointing
CSB : 5.50°W 0.50°N
Peak Gain (Uplink Co-pol) (See +)
CSB : 30.2 dBi
Beam Peak G/T
CSB : 2.7 dB/K
Contour Levels
CSB : -2, -4, -6, -8, -10, -15,
-20 dB
Beam Frequencies
CSB : 6320
Polarization
CSB : Circular RHCP
Square : Sub-Satellite Point



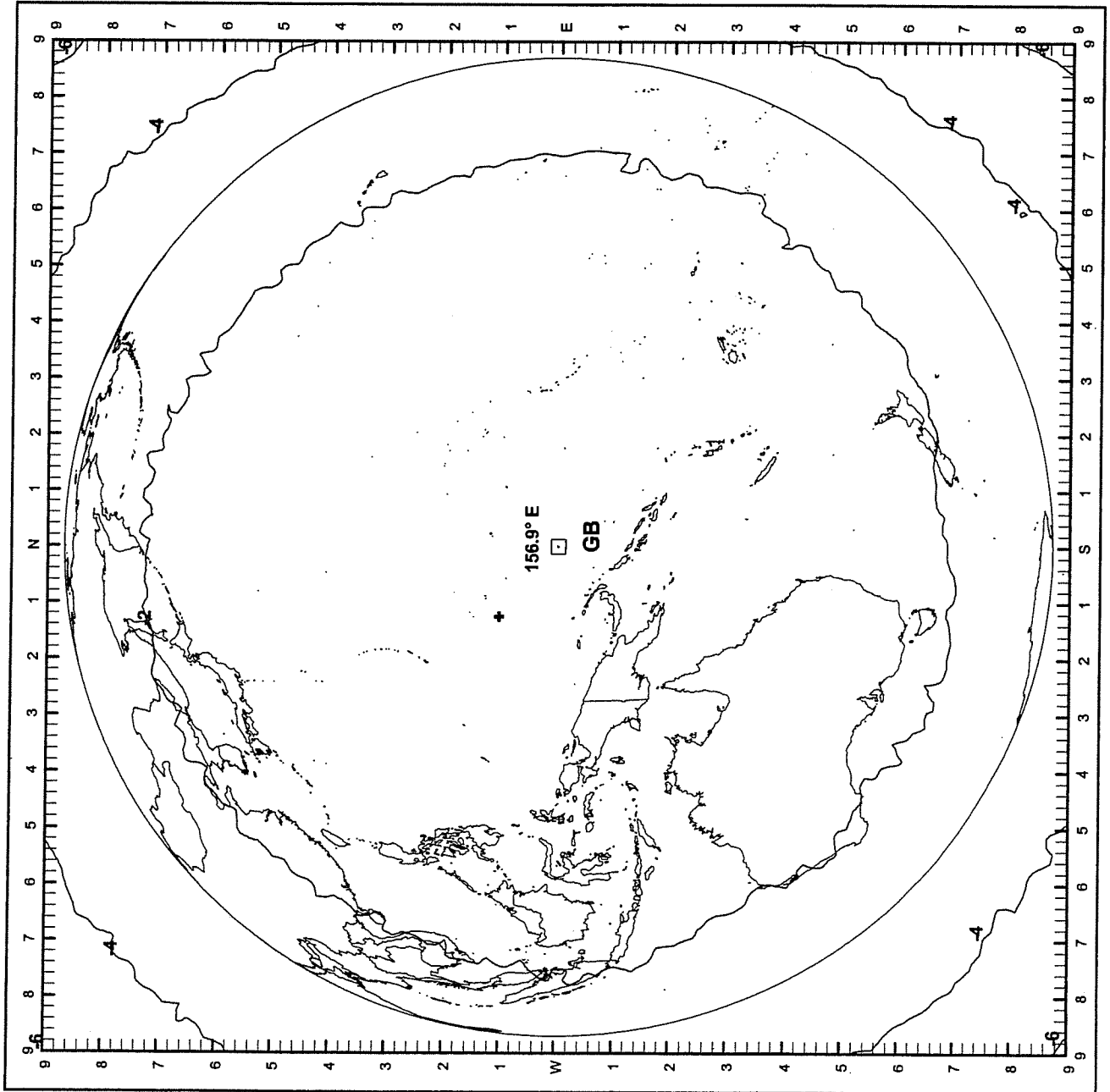


INTELSAT 702 at 156.90°E Antenna Coverage
S/C Platform Bias : 1.20°E 0.20°N
YAW : 0.00°
Antenna Pointing
GA : 0.00°E 0.20°N
Peak Gain (Uplink Co-pol) (See +)
GA : 20.7 dBi
Beam Peak G/T
GA : -6.9 dB/K
Contour Levels
GA : -2, -4, -6, -8, -10, -15, -20 dB
Beam Frequencies
GA : 6320
Polarization
GA : Circular LHCP
Square : Sub-Satellite Point





INTELSAT 702 at 156.90°E Antenna Coverage
S/C Platform Bias : 1.20°E 0.20°N
YAW : 0.00°
Antenna Pointing
GB : 0.00°E 0.20°N
Peak Gain (Uplink Co-pol) (See +)
GB : 20.6 dBi
Beam Peak G/T
GB : -7.1 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





INTELSAT 702 at 156.90°E Antenna Coverage
S/C Platform Bias : 1.20°E 0.20°N
YAW : 0.00°

Peak Gain (Uplink Co-pol) (See +)
H1 : 23.8 dBi

Beam Peak G/T
H1 : -3.5 dB/K

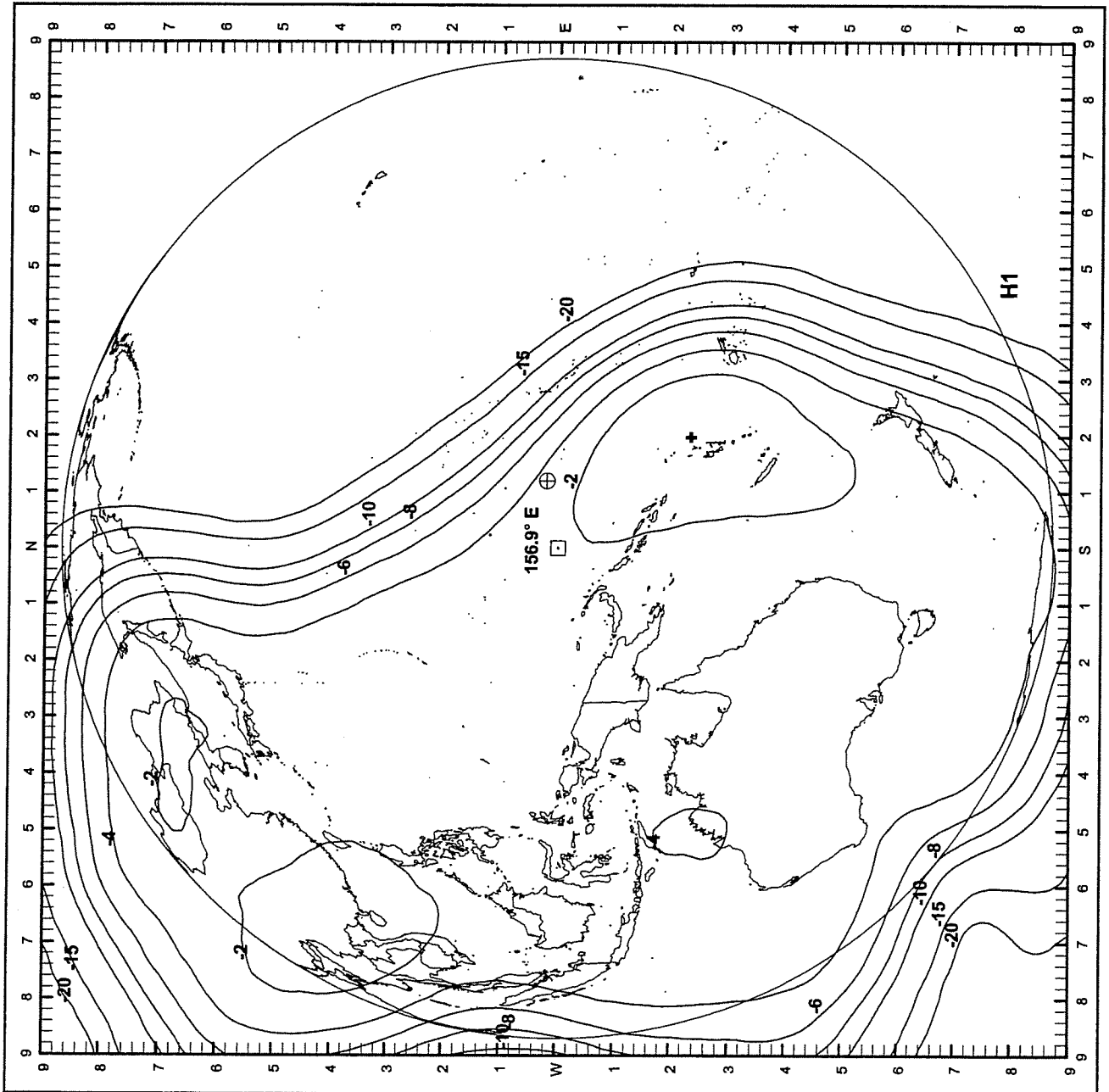
Contour Levels
H1 : -2, -4, -6, -8, -10, -15, -20 dB

Beam Frequencies
H1 : 6149

Polarization
H1 : Circular LHCP

Square : Sub-Satellite Point

Circle : Sat.Ant.Platform Bias





INTELSAT 702 at 156.90°E Antenna Coverage
 S/C Platform Bias : 1.20°E 0.20°N
 YAW : 0.00°

Peak Gain (Uplink Co-pol) (See +)
 H2 : 25.8 dBi

Beam Peak G/T
 H2 : -1.7 dB/K

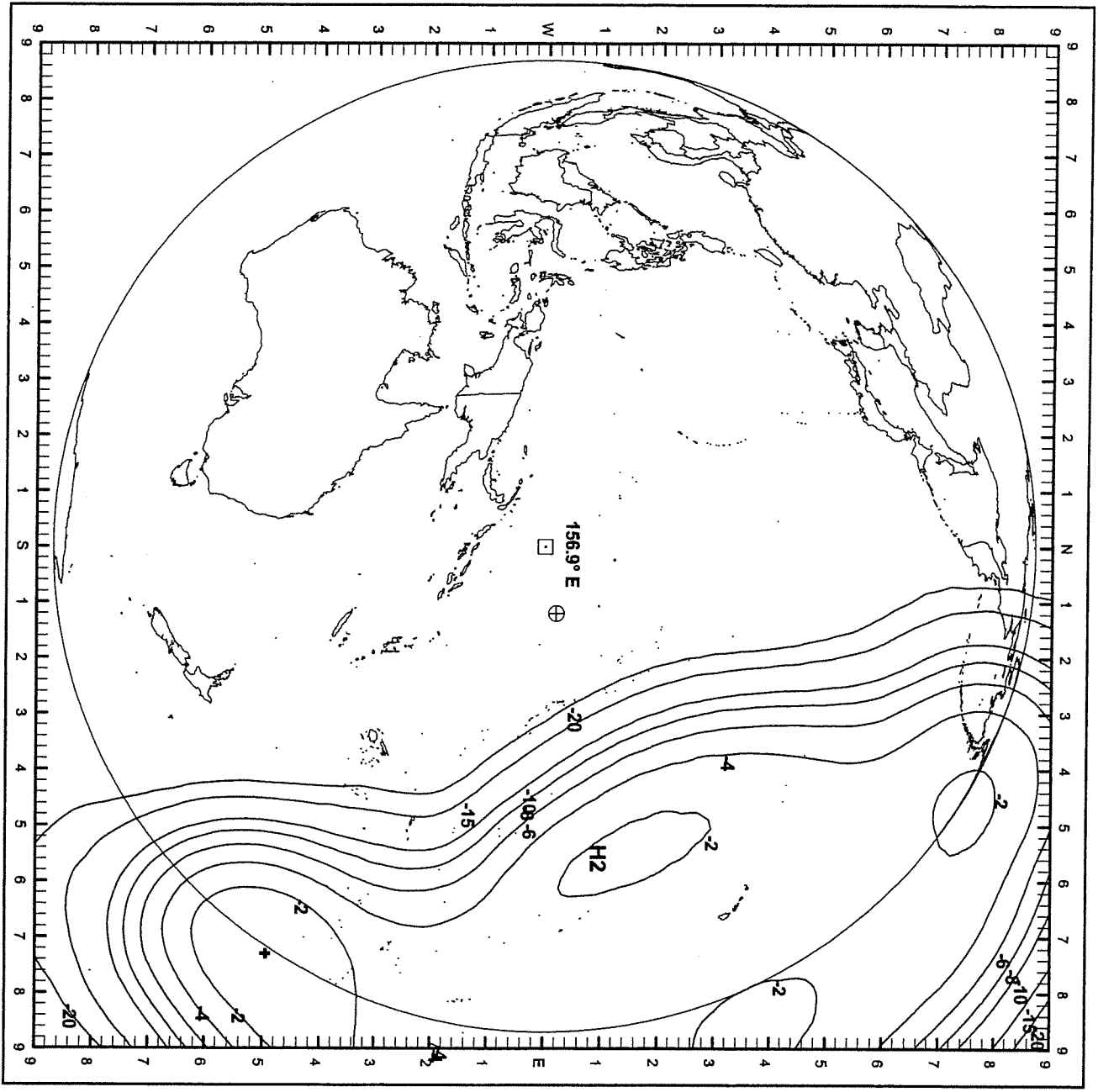
Contour Levels
 H2 : -2, -4, -6, -8, -10, -15, -20 dB

Beam Frequencies
 H2 : 6149

Polarization
 H2 : Circular LHCP

Square : Sub-Satellite Point

Circle : Sat. Ant. Platform Bias



View : Orthographic 156.90°E
 Status : INTELSAT APPROVED

Plot Date: 05 November 2002
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