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May 2, 1996

MAY 2 1996

VIA HAND DELIVERY

William F. Caton
Acting Secretary
Office of the Secretary
Federal Communications Commission
1919 M Street, N.W., Room 222
Washington, D.C. 20554

Re: Ex Parte Meetings with Commission Staff and International Bureau concerning General Docket No. 90-357

Dear Mr. Caton:

On Tuesday, April 29, Douglas Minster and William Caldwell of Digital Satellite Broadcasting Corporation (DSBC), Melvin Barmat of Jansky/Barmat Telecommunications, Inc., and the undersigned met with Jane Mago, legal advisor to Commissioner Chong, and David Siddall, legal advisor to Commissioner Ness. On Wednesday, May 1, 1996 the same parties met with Rosalee Chiara, Ron Repasi, and John Stern of the FCC's International Bureau. The parties discussed the pending rulemaking to establish rules and policies for Digital Audio Radio Satellite Service (Gen. Docket No. 90-357; IB Docket No. 95-91). DSBC specifically discussed the amount of spectrum available for DARS, given the possible interference caused by Canadian licensees. DSBC also recommended that the Commission adopt flexible service rules, that DARS licensees be permitted to use repeaters, and, if there is a pioneer's preference award, that the FCC take steps to reduce any economic disparity between the auction price and the price paid by the pioneer's preference awardee. A copy of the technical information provided to the FCC is attached.

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List ABCDE

If you have any questions, please call.

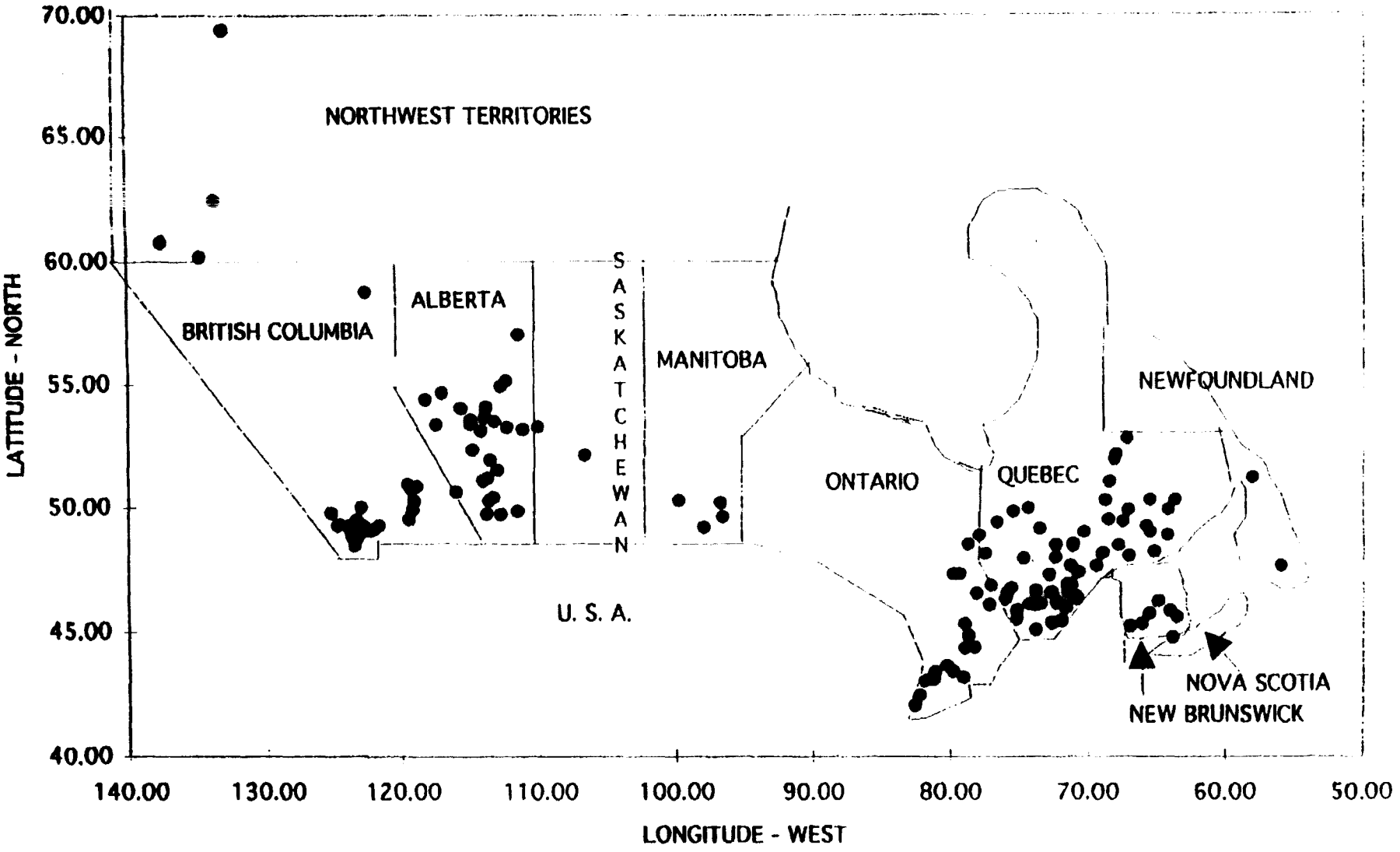
Sincerely,

Antoinette Cook Bush
Counsel for Digital Satellite
Broadcasting Corporation

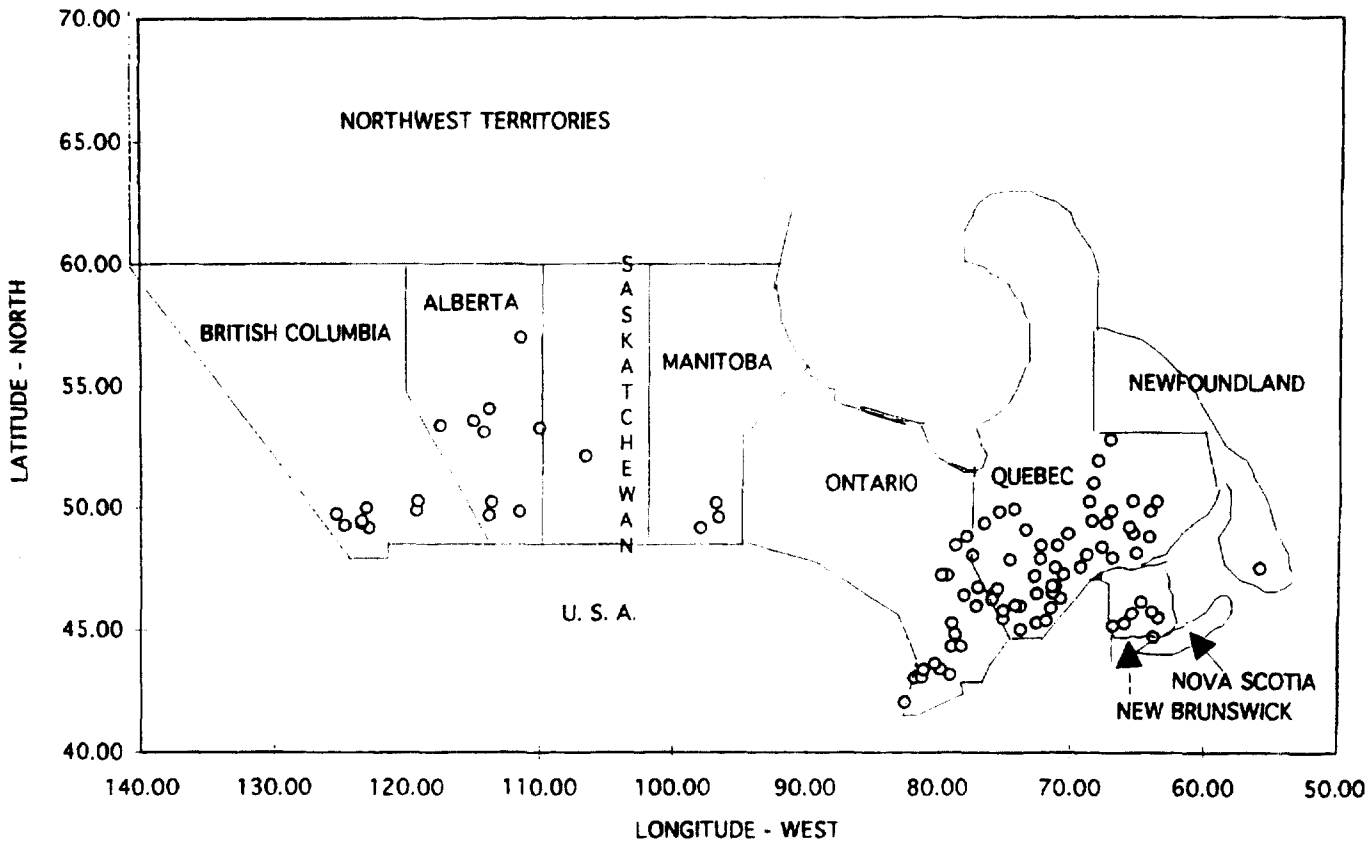
Enclosure

cc: Ms. Rosalee Chiara
Jane Mago, Esq.
Mr. Ron Repasi
David Siddall, Esq.
Mr. John Stern

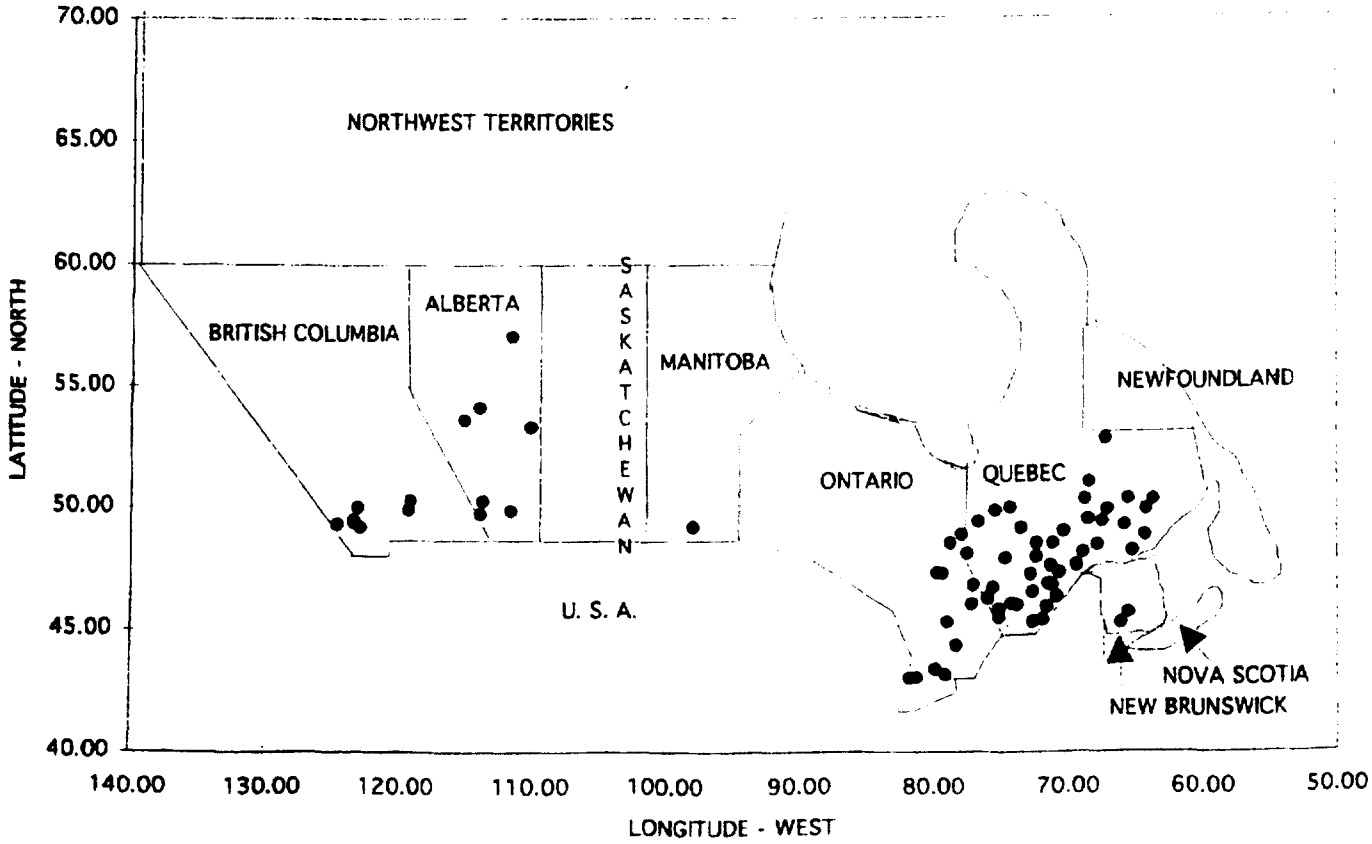
CANADIAN 2310 - 2360 MHz FS LOCATIONS (228)



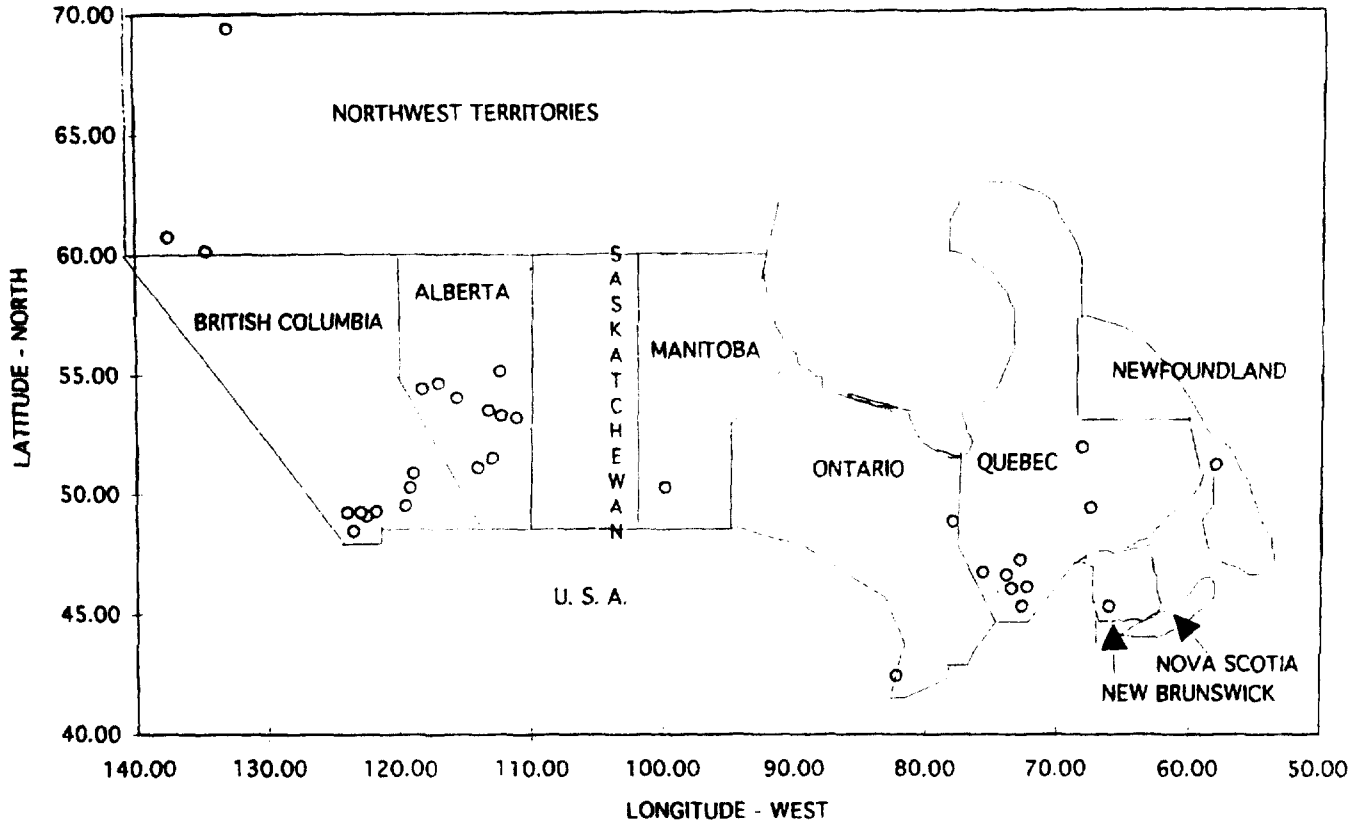
CANADIAN 2311 MHz FS LOCATIONS (142)



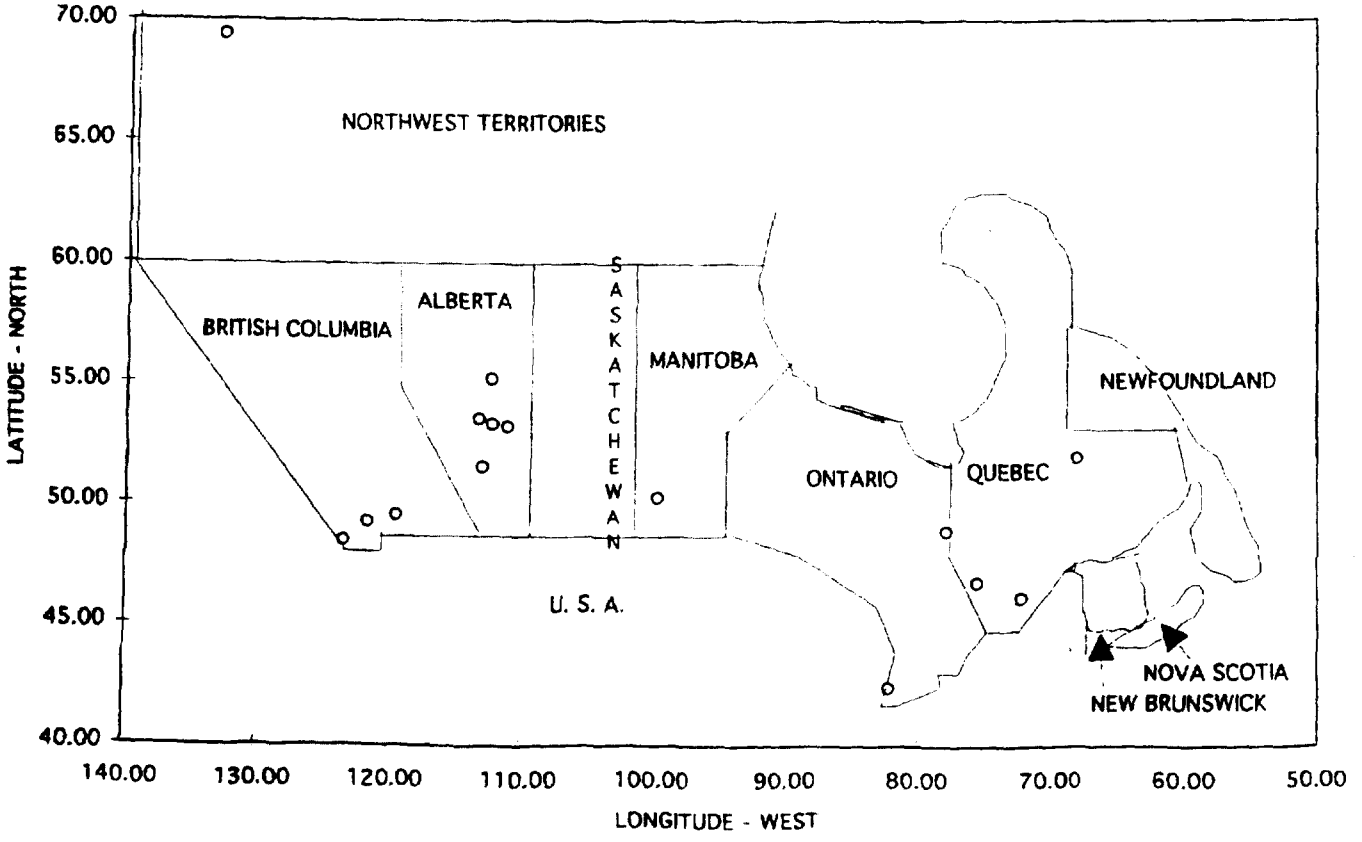
CANADIAN 2311 MHz FS LOCATIONS
WITH I/N>0 USING ENVELOPE B ANTENNAS (78)



CANADIAN 2317 MHz FS LOCATIONS (35)



CANADIAN 2317 MHz FS LOCATIONS
WITH I/N>0 USING ENVELOPE B ANTENNAS (17)



CONCLUSIONS

RE: INTERFERENCE INTO CANADIAN FS

- DSBC Analysis Assumed Several Worst Conditions (Canada did not provide complete data)
- Detailed Coordination, Including Use of Full Data, Could Eliminate Up to 85% of Interference Cases in Table
- The Total FS Band is Clearable by Detailed Coordination and if DARS Licensees Pay for Changing Antennas or Transmission Frequencies Between 2290-2307 MHz
- Cost of Changing Lowest Quality Antennas to Commercially Available, High Quality Andrews Antennas, is less than Seventeen Thousand Dollars, each, Including Labor.
- Total Cost of Changing 120+ Antennas (Worst Case Analysis) @ Conservative $17,000 each is About $2.0 Million
- Cost of Changing ALL Canadian Antennas in 2310-2360MHz is About $3.8 Million
- Commission Cannot Make Fully Informed Decision About DARS Spectrum Use Until Detailed Information is Available from Canada and Coordination Negotiations are Completed by Applicants

Replacement Cost for Antennas

Cost of Andrews UHP 2 GHz antenna plus radome (Ultra High Performance) (quantity 100)	$9,000
Shipping	500
Connectors, fittings, etc.	200
Labor: 2 days per site of 1 Technical @ 750/day, plus 2 riggers @ $550/day	3,700
Crane rental, one day @ $750/day	750
	$14,150
Plus labor contingency of 50%	2,250
	$16,400

CONCLUSIONS

RE: INTERFERENCE INTO CANADIAN MAT GROUND STATIONS

NONE POSSIBLE

Insufficient Information to Perform Useful Analyses

<u>Missing Primary Data</u>

Flight Regime (Altitude, Lat., Lon., etc.) for Vehicles Under Test at Each MAT Ground Station.

Exact Locations (Lat., Lon., Altitude) of MAT Ground Stations

Specific MAT Ground Antenna Characteristics

Use of Back-up Channels