



RETURN BIDS TO:
RETOURNER LES SOUMISSIONS À:
Travaux publics et Services gouvernementaux
Canada
Place Bonaventure, portail Sud-Est
800, rue de La Gauchetière Ouest
7^{ième} étage
Montréal
Québec
H5A 1L6
Bid Fax: (514) 496-3822

SOLICITATION AMENDMENT MODIFICATION DE L'INVITATION

The referenced document is hereby revised; unless otherwise indicated, all other terms and conditions of the Solicitation remain the same.

Ce document est par la présente révisé; sauf indication contraire, les modalités de l'invitation demeurent les mêmes.

Comments - Commentaires

Vendor/Firm Name and Address
Raison sociale et adresse du
fournisseur/de l'entrepreneur

Issuing Office - Bureau de distribution
Travaux publics et Services gouvernementaux Canada
Place Bonaventure, portail Sud-Est
800, rue de La Gauchetière Ouest
7^{ième} étage
Montréal
Québec
H5A 1L6

Title - Sujet AIS Data Services	
Solicitation No. - N° de l'invitation 9F013-150099/A	Amendment No. - N° modif. 004
Client Reference No. - N° de référence du client 9F013-15-0099	Date 2016-01-27
GETS Reference No. - N° de référence de SEAG PW-\$MTA-215-13657	
File No. - N° de dossier MTA-5-38033 (215)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2016-02-11	
Time Zone Fuseau horaire Eastern Standard Time EST	
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input checked="" type="checkbox"/> Other-Autre: <input type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Yee, Jenny	Buyer Id - Id de l'acheteur mta215
Telephone No. - N° de téléphone (514) 496-3870 ()	FAX No. - N° de FAX (514) 496-3822
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: AGENCE SPATIALE CANADIENNE 9F013-Satellite Operation, I & A 6767 Route de l'Aéroport St-Hubert, Québec J3Y8Y9 Canada	

Instructions: See Herein

Instructions: Voir aux présentes

Delivery Required - Livraison exigée	Delivery Offered - Livraison proposée
Vendor/Firm Name and Address Raison sociale et adresse du fournisseur/de l'entrepreneur	
Telephone No. - N° de téléphone Facsimile No. - N° de télécopieur	
Name and title of person authorized to sign on behalf of Vendor/Firm (type or print) Nom et titre de la personne autorisée à signer au nom du fournisseur/ de l'entrepreneur (taper ou écrire en caractères d'imprimerie)	
Signature	Date

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The above mentioned request for proposal is hereby amended as follows:

Modifications

A. On the cover page, Bid closing date

On the cover page, in the box entitled "Solicitation Closes – L'invitation prend fin"

DELETE:

at – à 02:00 PM
on – le 2016-02-04

INSERT:

at – à 02:00 PM
on – le 2016-02-11

B. At Appendix A to Attachment 1:

Delete in its entirety. Replace with the new "Appendix A to Attachment 1" appended to the end of this amendment 004 to form part of the RFP package.

C. At Appendix B to Attachment 1:

Delete in its entirety. Replace with the new "Appendix B to Attachment 1" appended to the end of this amendment 004 to form part of the RFP package.

All other terms and conditions remain unchanged

Appendix A to Attachment 1

The tables in this appendix are broken down by Atlantic, Arctic and Pacific Canadian AOIs for 1 – 30 January 2016. RADARSAT-2 (RS-2) is in a polar orbiting, dawn to dusk satellite in a sun-synchronous orbit and will pass over the Atlantic and Pacific Ocean AOIs at least twice per day. RS-2 pass times are provided as RS-2 passes the 50° N latitude over the Atlantic or Pacific AOI. All times provided are in Coordinated Universal Time (UTC). Appendix B provides figures to show how the RS-2 times were determined. The Bidder shall provide the name of the satellite and the closest time of coincidence with RS-2 in the tables below. To help formulate the closest time of coincidence, utilize the following reference points:

Pacific AOI (50° N 140° W)
Atlantic AOI (50° N 50° W)
Arctic AOI (75° N 95° W)

Additional data that may help in completing this section may be found in the following attachment: **Attachment 1, Section 1.1.6 - Supplemental Information.**

Table 4: Example Table with Data from Day One for the Pacific and Atlantic AOIs.

Pacific AOI (50° N 140° W)				D A Y	Atlantic AOI (50° N 50° W)			
Ascending Pass		Descending Pass			Descending Pass		Ascending Pass	
RS-2 (UTC)	Bidder's Satellite	RS-2 (UTC)	Bidder's Satellite		RS-2 (UTC)	Bidder's Satellite	RS-2 (UTC)	Bidder's Satellite
0300	SAT-1 0315UTC	1515	None	1	1000	None	2023	SAT-3 2003 UTC

(Continued on the next page)

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Table 5: Ascending and Descending Pass Table of the Atlantic and Pacific AOIs.

Pacific AOI (50° N 140° W)				D A Y	Atlantic AOI (50° N 50° W)			
Ascending Pass		Descending Pass			Descending Pass		Ascending Pass	
RS-2 (UTC)	Bidder's Satellite	RS-2 (UTC)	Bidder's Satellite		RS-2 (UTC)	Bidder's Satellite	RS-2 (UTC)	Bidder's Satellite
0307		1515		1	0832		2136	
0238		1446		2	0944		2106	
0349		1557		3	0914		2037	
0320		1528		4	0845		2148	
0251		1459		5	0956		2119	
0221		1610		6	0927		2049	
0333		1540		7	0857		2020	
0303		1511		8	0828		2131	
0234		1442		9	0939		2102	
0345		1553		10	0910		2033	
0316		1524		11	0841		2144	
0246		1454		12	0952		2115	
0217		1606		13	0923		2045	
0328		1536		14	0853		2016	
0259		1507		15	1005		2127	
0230		1618		16	0935		2058	
0341		1549		17	0906		2029	
0312		1519		18	0837		2140	
0242		1450		19	0948		2110	
0353		1601		20	0918		2041	
0324		1532		21	0849		2012	
0255		1503		22	1000		2123	
0225		1614		23	0931		2054	
0337		1545		24	0902		2024	
0307		1515		25	0832		2136	
0238		1446		26	0944		2106	
0349		1557		27	0914		2037	
0320		1528		28	0845		2148	
0251		1459		29	0956		2119	
0221		1610		30	0927		2049	

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Table 6: Example Table with Data from Day One for the Arctic AOI.

Arctic AOI (75° N 95° W)				D
Ascending Pass		Descending Pass		A
RS-2 (UTC)	Bidder's Satellite	RS-2 (UTC)	Bidder's Satellite	Y
0300	SAT-1 0315 UTC	1515	None	1

Table 7: Ascending and Descending Pass Table of the Arctic AOI.

Arctic AOI (75° N 95° W)				D
Ascending Pass		Descending Pass		A
RS-2	Bidder's Satellite	RS-2	Bidder's Satellite	Y
0134		1147		1
0104		1258		2
0035		1228		3
0005		1159		4
0117		1130		5
0047		1241		6
0018		1212		7
0129		1142		8
0100		1254		9
0031		1224		10
0001		1155		11
0113		1126		12
0043		1237		13
0014		1208		14
0125		1138		15
0056		1249		16
0026		1220		17
0138		1151		18
0108		1122		19
0039		1233		20
0010		1203		21
0121		1134		22
0052		1245		23
0022		1216		24
0134		1147		25
0104		1258		26
0035		1228		27
0005		1159		28
0117		1130		29
0047		1241		30

Appendix B to Attachment 1

Note that not all passes described herein were utilized in the creation of the Appendix A to Attachment 1.

The following table depicts the RADARSAT-2 Ascending Passes over the Atlantic Area of Interest (AOI). The beam mode for RS-2 that was used for this exercise is the Maritime Satellite Surveillance Radar (MSSR) – Ocean Surveillance Very Near (OSVN) mode which provides a swath width of 530 km.

Table 8: RADARSAT-2 Ascending Pass Data over the Atlantic AOI.

	Start Time UTC	Duration	Look	Beam
1	2016-Jan-01 21:36:06.390	00:19.7	Right	MSSR (OSVN)
2	2016-Jan-02 21:06:42.970	00:19.2	Right	MSSR (OSVN)
3	2016-Jan-03 20:37:23.031	00:16.0	Right	MSSR (OSVN)
4	2016-Jan-03 22:18:05.616	00:03.4	Right	MSSR (OSVN)
5	2016-Jan-04 21:48:41.757	00:17.0	Right	MSSR (OSVN)
6	2016-Jan-05 21:19:18.950	00:19.9	Right	MSSR (OSVN)
7	2016-Jan-06 20:49:55.051	00:19.8	Right	MSSR (OSVN)
8	2016-Jan-07 20:20:43.164	00:08.6	Right	MSSR (OSVN)
9	2016-Jan-07 22:01:17.933	00:10.0	Right	MSSR (OSVN)
10	2016-Jan-08 21:31:54.278	00:19.8	Right	MSSR (OSVN)
11	2016-Jan-09 21:02:30.665	00:19.7	Right	MSSR (OSVN)
12	2016-Jan-10 20:33:12.840	00:14.5	Right	MSSR (OSVN)
13	2016-Jan-10 22:13:53.633	00:04.9	Right	MSSR (OSVN)
14	2016-Jan-11 21:44:30.129	00:19.2	Right	MSSR (OSVN)
15	2016-Jan-12 21:15:06.984	00:19.8	Right	MSSR (OSVN)
16	2016-Jan-13 20:45:43.857	00:19.2	Right	MSSR (OSVN)
17	2016-Jan-14 20:16:33.569	00:06.3	Right	MSSR (OSVN)
18	2016-Jan-14 21:57:05.991	00:12.1	Right	MSSR (OSVN)
19	2016-Jan-15 21:27:42.395	00:20.1	Right	MSSR (OSVN)
20	2016-Jan-16 20:58:18.525	00:20.2	Right	MSSR (OSVN)
21	2016-Jan-17 20:29:02.802	00:12.8	Right	MSSR (OSVN)
22	2016-Jan-17 22:09:41.485	00:06.7	Right	MSSR (OSVN)
23	2016-Jan-18 21:40:18.341	00:19.8	Right	MSSR (OSVN)

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24	2016-Jan-19 21:10:54.977	00:19.6	Right	MSSR (OSVN)
25	2016-Jan-20 20:41:33.368	00:17.8	Right	MSSR (OSVN)
26	2016-Jan-21 20:12:24.120	00:03.7	Right	MSSR (OSVN)
27	2016-Jan-21 21:52:53.819	00:14.6	Right	MSSR (OSVN)
	Start Time UTC	Duration	Look	Beam
28	2016-Jan-22 21:23:30.753	00:20.0	Right	MSSR (OSVN)
29	2016-Jan-23 20:54:06.710	00:20.1	Right	MSSR (OSVN)
30	2016-Jan-24 20:24:52.912	00:10.9	Right	MSSR (OSVN)
31	2016-Jan-24 22:05:29.713	00:08.3	Right	MSSR (OSVN)
32	2016-Jan-25 21:36:06.390	00:19.7	Right	MSSR (OSVN)
33	2016-Jan-26 21:06:42.970	00:19.2	Right	MSSR (OSVN)
34	2016-Jan-27 20:37:23.031	00:16.0	Right	MSSR (OSVN)
35	2016-Jan-27 22:18:05.616	00:03.4	Right	MSSR (OSVN)
36	2016-Jan-28 21:48:41.757	00:17.0	Right	MSSR (OSVN)
37	2016-Jan-29 21:19:18.950	00:19.9	Right	MSSR (OSVN)
38	2016-Jan-30 20:49:55.051	00:19.8	Right	MSSR (OSVN)

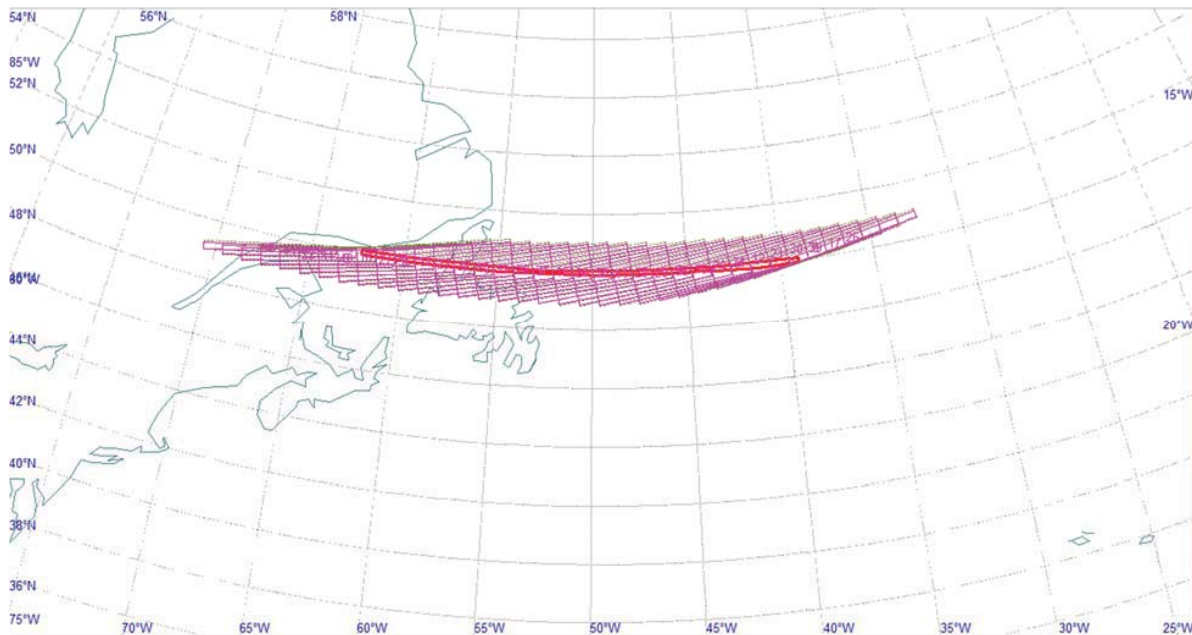


Figure 3: Ascending Passes over the Atlantic AOI.

Table 9: RADARSAT-2 Descending Passes over the Atlantic AOI.

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	Start Time UTC	Duration	Look	Beam Mode
1	2016-Jan-01 08:32:55.208	00:05.1	Right	MSSR (OSVN)
2	2016-Jan-01 10:13:24.967	00:14.6	Right	MSSR (OSVN)
3	2016-Jan-02 09:44:02.506	00:19.2	Right	MSSR (OSVN)
4	2016-Jan-03 09:14:38.996	00:19.5	Right	MSSR (OSVN)
5	2016-Jan-04 08:45:25.735	00:09.6	Right	MSSR (OSVN)
6	2016-Jan-04 10:26:01.184	00:08.0	Right	MSSR (OSVN)
	Start Time UTC	Duration	Look	Beam Mode
7	2016-Jan-05 09:56:38.436	00:18.7	Right	MSSR (OSVN)
8	2016-Jan-06 09:27:14.837	00:19.7	Right	MSSR (OSVN)
9	2016-Jan-07 08:57:54.924	00:15.9	Right	MSSR (OSVN)
10	2016-Jan-08 08:28:44.729	00:03.4	Right	MSSR (OSVN)
11	2016-Jan-08 10:09:13.219	00:16.1	Right	MSSR (OSVN)
12	2016-Jan-09 09:39:50.474	00:19.2	Right	MSSR (OSVN)
13	2016-Jan-10 09:10:27.061	00:19.7	Right	MSSR (OSVN)
14	2016-Jan-11 08:41:15.705	00:08.2	Right	MSSR (OSVN)
15	2016-Jan-11 10:21:48.949	00:10.5	Right	MSSR (OSVN)
16	2016-Jan-12 09:52:26.197	00:19.1	Right	MSSR (OSVN)
17	2016-Jan-13 09:23:02.732	00:19.6	Right	MSSR (OSVN)
18	2016-Jan-14 08:53:45.341	00:13.6	Right	MSSR (OSVN)
19	2016-Jan-14 10:34:24.596	00:03.7	Right	MSSR (OSVN)
20	2016-Jan-15 10:05:01.625	00:17.4	Right	MSSR (OSVN)
21	2016-Jan-16 09:35:38.578	00:19.3	Right	MSSR (OSVN)
22	2016-Jan-17 09:06:15.287	00:19.7	Right	MSSR (OSVN)
23	2016-Jan-18 08:37:05.531	00:06.7	Right	MSSR (OSVN)
24	2016-Jan-18 10:17:36.877	00:12.7	Right	MSSR (OSVN)
25	2016-Jan-19 09:48:14.305	00:19.4	Right	MSSR (OSVN)
26	2016-Jan-20 09:18:50.790	00:19.6	Right	MSSR (OSVN)
27	2016-Jan-21 08:49:35.612	00:11.6	Right	MSSR (OSVN)
28	2016-Jan-21 10:30:12.851	00:06.0	Right	MSSR (OSVN)
29	2016-Jan-22 10:00:50.176	00:18.3	Right	MSSR (OSVN)
30	2016-Jan-23 09:31:26.843	00:19.3	Right	MSSR (OSVN)
31	2016-Jan-24 09:02:04.367	00:18.4	Right	MSSR (OSVN)
32	2016-Jan-25 08:32:55.208	00:05.1	Right	MSSR (OSVN)
33	2016-Jan-25 10:13:24.967	00:14.6	Right	MSSR (OSVN)
34	2016-Jan-26 09:44:02.506	00:19.2	Right	MSSR (OSVN)
35	2016-Jan-27 09:14:38.996	00:19.5	Right	MSSR (OSVN)
36	2016-Jan-28 08:45:25.735	00:09.6	Right	MSSR (OSVN)
37	2016-Jan-28 10:26:01.184	00:08.0	Right	MSSR (OSVN)
38	2016-Jan-29 09:56:38.436	00:18.7	Right	MSSR (OSVN)
39	2016-Jan-30 09:27:14.837	00:19.7	Right	MSSR (OSVN)

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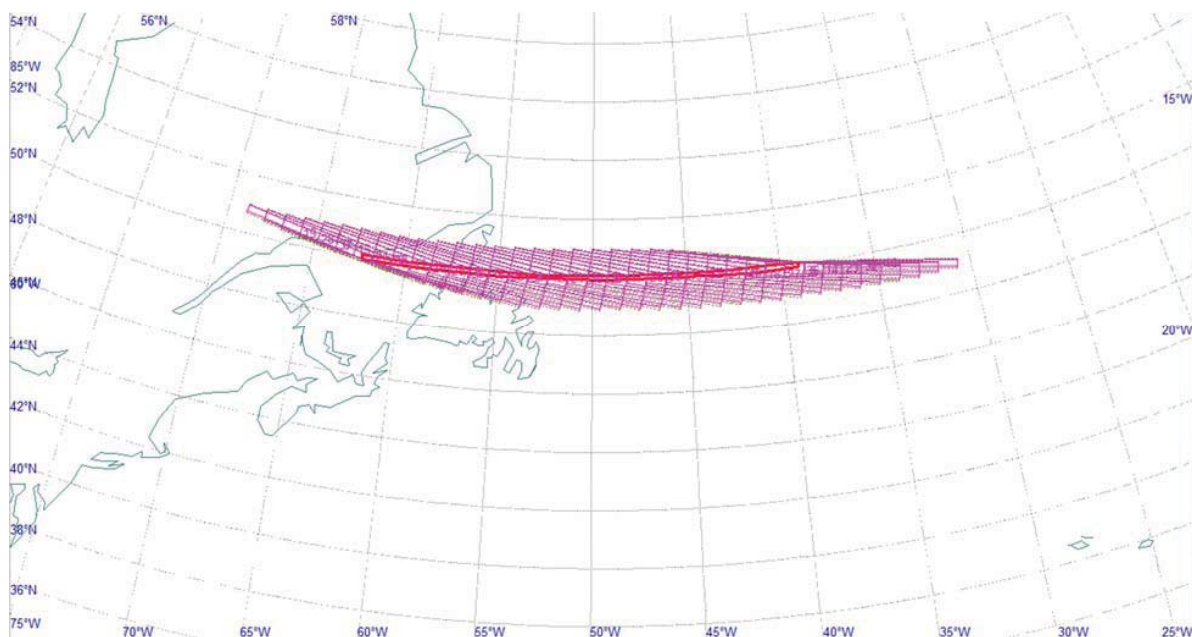


Figure 4: Descending Passes over the Atlantic AOI.

Table 10: RADARSAT-2 Ascending Passes over the Pacific AOI.

	Start Time UTC	Duration	Look	Beam
1	2016-Jan-01 03:07:48.143	00:17.4	Right	MSSR (OSVN)
2	2016-Jan-02 02:38:27.750	00:13.9	Right	MSSR (OSVN)
3	2016-Jan-03 03:49:47.294	00:09.9	Right	MSSR (OSVN)
4	2016-Jan-04 03:20:24.314	00:16.5	Right	MSSR (OSVN)
5	2016-Jan-05 02:51:00.441	00:17.1	Right	MSSR (OSVN)
6	2016-Jan-06 02:21:48.774	00:05.4	Right	MSSR (OSVN)
7	2016-Jan-06 04:02:22.641	00:04.2	Right	MSSR (OSVN)
8	2016-Jan-07 03:33:00.048	00:16.1	Right	MSSR (OSVN)
9	2016-Jan-08 03:03:35.849	00:17.6	Right	MSSR (OSVN)
10	2016-Jan-09 02:34:17.782	00:11.6	Right	MSSR (OSVN)
11	2016-Jan-10 03:45:35.574	00:12.1	Right	MSSR (OSVN)
12	2016-Jan-11 03:16:12.388	00:16.8	Right	MSSR (OSVN)
13	2016-Jan-12 02:46:48.598	00:17.1	Right	MSSR (OSVN)
14	2016-Jan-13 02:17:39.399	00:02.7	Right	MSSR (OSVN)
15	2016-Jan-13 03:58:10.799	00:06.0	Right	MSSR (OSVN)
16	2016-Jan-14 03:28:48.166	00:15.9	Right	MSSR (OSVN)
17	2016-Jan-15 02:59:23.645	00:17.6	Right	MSSR (OSVN)
18	2016-Jan-16 02:30:07.968	00:10.0	Right	MSSR (OSVN)
19	2016-Jan-17 03:41:23.694	00:14.5	Right	MSSR (OSVN)

20	2016-Jan-18 03:12:00.299	00:17.1	Right	MSSR (OSVN)
21	2016-Jan-19 02:42:37.860	00:15.9	Right	MSSR (OSVN)
22	2016-Jan-20 03:53:58.852	00:08.1	Right	MSSR (OSVN)
23	2016-Jan-21 03:24:36.121	00:16.1	Right	MSSR (OSVN)
24	2016-Jan-22 02:55:12.123	00:17.0	Right	MSSR (OSVN)
25	2016-Jan-23 02:25:58.301	00:07.9	Right	MSSR (OSVN)
	Start Time UTC	Duration	Look	Beam
26	2016-Jan-23 04:06:34.323	00:02.7	Right	MSSR (OSVN)
27	2016-Jan-24 03:37:11.769	00:16.2	Right	MSSR (OSVN)
28	2016-Jan-25 03:07:48.142	00:17.4	Right	MSSR (OSVN)
29	2016-Jan-26 02:38:27.750	00:13.9	Right	MSSR (OSVN)
30	2016-Jan-27 03:49:47.294	00:09.9	Right	MSSR (OSVN)
31	2016-Jan-28 03:20:24.314	00:16.5	Right	MSSR (OSVN)
32	2016-Jan-29 02:51:00.441	00:17.1	Right	MSSR (OSVN)
33	2016-Jan-30 02:21:48.774	00:05.4	Right	MSSR (OSVN)
34	2016-Jan-30 04:02:22.641	00:04.2	Right	MSSR (OSVN)

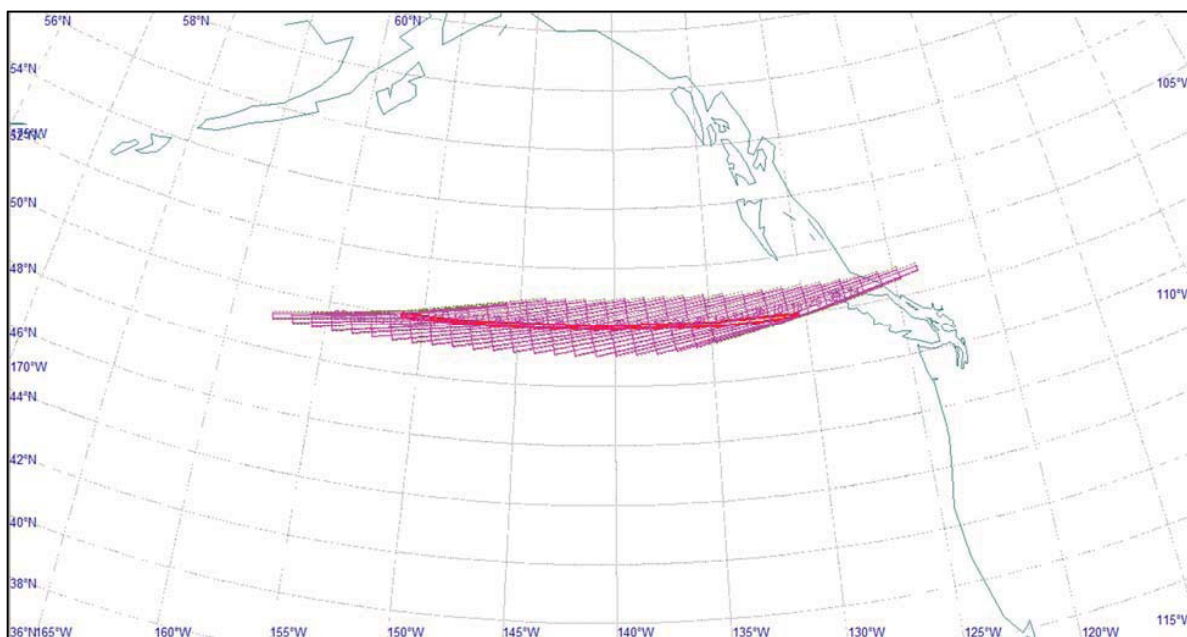


Figure 3: Ascending Passes over the Pacific AOI.

Table 11: RADARSAT-2 Descending Passes over the Pacific AOI.

	Start Time UTC	Duration	Look	Beam
1	2016-Jan-01 15:15:42.490	00:16.5	Right	MSSR (OSVN)
2	2016-Jan-02 14:46:31.465	00:04.9	Right	MSSR (OSVN)

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3	2016-Jan-02 16:27:05.046	00:05.2	Right	MSSR (OSVN)
4	2016-Jan-03 15:57:41.134	00:17.4	Right	MSSR (OSVN)
5	2016-Jan-04 15:28:18.617	00:16.0	Right	MSSR (OSVN)
6	2016-Jan-05 14:59:00.948	00:11.2	Right	MSSR (OSVN)
7	2016-Jan-06 16:10:16.872	00:14.5	Right	MSSR (OSVN)
8	2016-Jan-07 15:40:53.741	00:16.7	Right	MSSR (OSVN)
9	2016-Jan-08 15:11:30.769	00:16.3	Right	MSSR (OSVN)
10	2016-Jan-09 14:42:21.338	00:03.0	Right	MSSR (OSVN)
11	2016-Jan-09 16:22:53.252	00:07.5	Right	MSSR (OSVN)
12	2016-Jan-10 15:53:29.543	00:17.0	Right	MSSR (OSVN)
	Start Time UTC	Duration	Look	Beam
13	2016-Jan-11 15:24:06.415	00:16.2	Right	MSSR (OSVN)
14	2016-Jan-12 14:54:51.263	00:09.5	Right	MSSR (OSVN)
15	2016-Jan-13 16:06:04.797	00:16.5	Right	MSSR (OSVN)
16	2016-Jan-14 15:36:41.872	00:16.6	Right	MSSR (OSVN)
17	2016-Jan-15 15:07:19.867	00:15.5	Right	MSSR (OSVN)
18	2016-Jan-16 16:18:41.518	00:09.6	Right	MSSR (OSVN)
19	2016-Jan-17 15:49:17.968	00:16.8	Right	MSSR (OSVN)
20	2016-Jan-18 15:19:54.371	00:16.5	Right	MSSR (OSVN)
21	2016-Jan-19 14:50:41.438	00:07.0	Right	MSSR (OSVN)
22	2016-Jan-19 16:31:17.001	00:02.7	Right	MSSR (OSVN)
23	2016-Jan-20 16:01:52.885	00:17.8	Right	MSSR (OSVN)
24	2016-Jan-21 15:32:30.165	00:16.5	Right	MSSR (OSVN)
25	2016-Jan-22 15:03:10.480	00:13.2	Right	MSSR (OSVN)
26	2016-Jan-23 16:14:29.111	00:12.2	Right	MSSR (OSVN)
27	2016-Jan-24 15:45:05.773	00:16.8	Right	MSSR (OSVN)
28	2016-Jan-25 15:15:42.490	00:16.5	Right	MSSR (OSVN)
29	2016-Jan-26 14:46:31.465	00:04.9	Right	MSSR (OSVN)
30	2016-Jan-26 16:27:05.046	00:05.2	Right	MSSR (OSVN)
31	2016-Jan-27 15:57:41.134	00:17.4	Right	MSSR (OSVN)
32	2016-Jan-28 15:28:18.617	00:16.0	Right	MSSR (OSVN)
33	2016-Jan-29 14:59:00.948	00:11.2	Right	MSSR (OSVN)
34	2016-Jan-30 16:10:16.872	00:14.5	Right	MSSR (OSVN)

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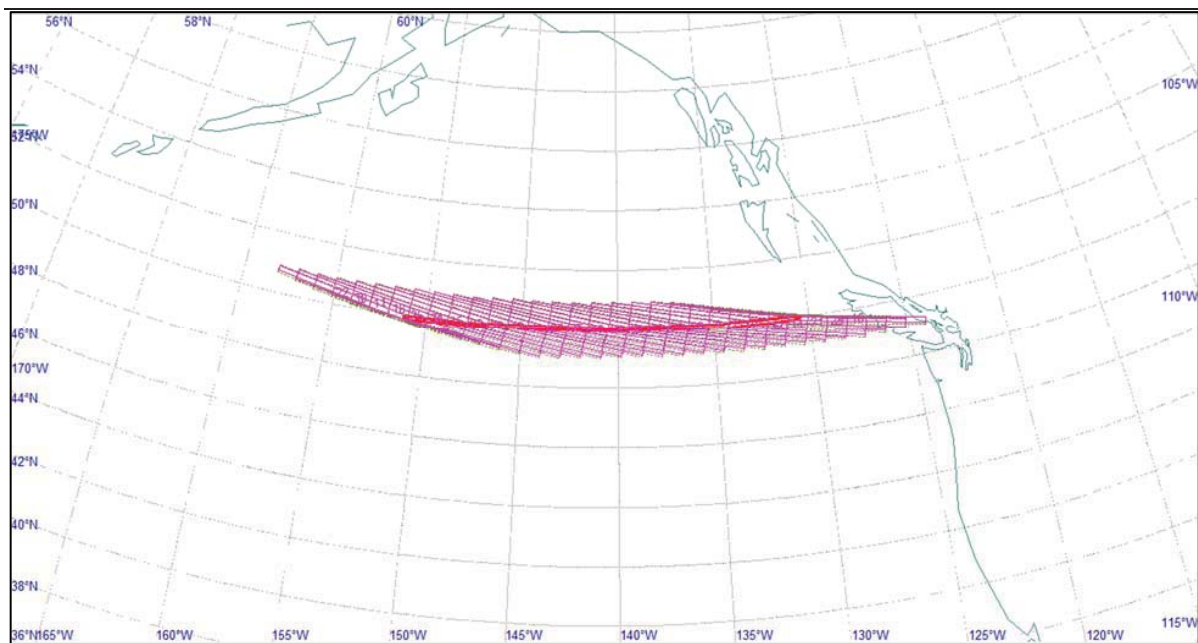


Figure 4: Descending Passes over the Pacific AOI.

Table 12: RADARSAT-2 Ascending Passes over the Arctic AOI.

	Start Time UTC	Duration	Look	Beam
1	2016-Jan-01 01:34:09.671	00:33.3	Right	MSSR (OSVN)
2	2016-Jan-01 21:43:32.202	00:14.4	Right	MSSR (OSVN)
3	2016-Jan-01 23:24:02.585	00:30.8	Right	MSSR (OSVN)
4	2016-Jan-02 01:04:46.358	00:32.9	Right	MSSR (OSVN)
5	2016-Jan-02 02:45:33.014	00:08.9	Right	MSSR (OSVN)
6	2016-Jan-02 22:54:38.519	00:31.1	Right	MSSR (OSVN)
7	2016-Jan-03 00:35:22.500	00:32.9	Right	MSSR (OSVN)
8	2016-Jan-03 02:16:09.002	00:17.0	Right	MSSR (OSVN)
9	2016-Jan-03 22:25:17.705	00:31.0	Right	MSSR (OSVN)
10	2016-Jan-04 00:05:59.590	00:32.1	Right	MSSR (OSVN)
11	2016-Jan-04 21:56:03.062	00:20.2	Right	MSSR (OSVN)
12	2016-Jan-04 23:36:38.439	00:31.4	Right	MSSR (OSVN)
13	2016-Jan-05 01:17:22.567	00:32.6	Right	MSSR (OSVN)
14	2016-Jan-05 21:26:52.116	00:06.3	Right	MSSR (OSVN)
15	2016-Jan-05 23:07:13.864	00:31.5	Right	MSSR (OSVN)
16	2016-Jan-06 00:47:56.854	00:34.3	Right	MSSR (OSVN)
17	2016-Jan-06 02:28:44.477	00:13.6	Right	MSSR (OSVN)
18	2016-Jan-06 22:37:50.861	00:33.0	Right	MSSR (OSVN)
19	2016-Jan-07 00:18:35.625	00:32.0	Right	MSSR (OSVN)
20	2016-Jan-07 01:59:22.214	00:22.1	Right	MSSR (OSVN)
21	2016-Jan-07 22:08:34.590	00:25.9	Right	MSSR (OSVN)
22	2016-Jan-07 23:49:13.546	00:31.9	Right	MSSR (OSVN)
23	2016-Jan-08 01:29:58.019	00:33.2	Right	MSSR (OSVN)
24	2016-Jan-08 21:39:22.058	00:12.1	Right	MSSR (OSVN)
25	2016-Jan-08 23:19:50.465	00:30.6	Right	MSSR (OSVN)
26	2016-Jan-09 01:00:34.116	00:33.2	Right	MSSR (OSVN)
27	2016-Jan-09 02:41:21.009	00:09.8	Right	MSSR (OSVN)
28	2016-Jan-09 22:50:26.571	00:31.0	Right	MSSR (OSVN)
29	2016-Jan-10 00:31:10.905	00:32.7	Right	MSSR (OSVN)
30	2016-Jan-10 02:11:57.428	00:18.1	Right	MSSR (OSVN)
31	2016-Jan-10 22:21:06.809	00:29.9	Right	MSSR (OSVN)
32	2016-Jan-11 00:01:47.915	00:32.3	Right	MSSR (OSVN)
33	2016-Jan-11 01:42:34.091	00:29.7	Right	MSSR (OSVN)
34	2016-Jan-11 21:51:52.699	00:18.4	Right	MSSR (OSVN)
35	2016-Jan-11 23:32:26.572	00:31.2	Right	MSSR (OSVN)
36	2016-Jan-12 01:13:10.583	00:32.4	Right	MSSR (OSVN)
37	2016-Jan-12 02:53:56.775	00:02.7	Right	MSSR (OSVN)
38	2016-Jan-12 23:03:02.164	00:31.4	Right	MSSR (OSVN)
39	2016-Jan-13 00:43:45.442	00:33.4	Right	MSSR (OSVN)

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40	2016-Jan-13 02:24:32.125	00:15.2	Right	MSSR (OSVN)
41	2016-Jan-13 22:33:39.730	00:32.5	Right	MSSR (OSVN)
42	2016-Jan-14 00:14:23.699	00:31.8	Right	MSSR (OSVN)
43	2016-Jan-14 01:55:10.310	00:23.8	Right	MSSR (OSVN)
44	2016-Jan-14 22:04:24.005	00:24.1	Right	MSSR (OSVN)
	Start Time UTC	Duration	Look	Beam
45	2016-Jan-14 23:45:01.926	00:31.7	Right	MSSR (OSVN)
46	2016-Jan-15 01:25:46.285	00:33.0	Right	MSSR (OSVN)
47	2016-Jan-15 21:35:11.992	00:10.2	Right	MSSR (OSVN)
48	2016-Jan-15 23:15:38.259	00:30.5	Right	MSSR (OSVN)
49	2016-Jan-16 00:56:21.786	00:33.6	Right	MSSR (OSVN)
50	2016-Jan-16 02:37:08.918	00:10.9	Right	MSSR (OSVN)
51	2016-Jan-16 22:46:14.538	00:31.0	Right	MSSR (OSVN)
52	2016-Jan-17 00:26:59.229	00:32.5	Right	MSSR (OSVN)
53	2016-Jan-17 02:07:45.772	00:19.3	Right	MSSR (OSVN)
54	2016-Jan-17 22:16:55.993	00:28.8	Right	MSSR (OSVN)
55	2016-Jan-17 23:57:36.541	00:32.2	Right	MSSR (OSVN)
56	2016-Jan-18 01:38:21.846	00:32.0	Right	MSSR (OSVN)
57	2016-Jan-18 21:47:42.414	00:16.5	Right	MSSR (OSVN)
58	2016-Jan-18 23:28:14.621	00:31.0	Right	MSSR (OSVN)
59	2016-Jan-19 01:08:58.513	00:32.5	Right	MSSR (OSVN)
60	2016-Jan-19 02:49:44.936	00:08.1	Right	MSSR (OSVN)
61	2016-Jan-19 22:58:50.384	00:31.2	Right	MSSR (OSVN)
62	2016-Jan-20 00:39:34.012	00:33.1	Right	MSSR (OSVN)
63	2016-Jan-20 02:20:20.493	00:16.2	Right	MSSR (OSVN)
64	2016-Jan-20 22:29:28.678	00:31.8	Right	MSSR (OSVN)
65	2016-Jan-21 00:10:11.687	00:31.5	Right	MSSR (OSVN)
66	2016-Jan-21 22:00:13.496	00:22.2	Right	MSSR (OSVN)
67	2016-Jan-21 23:40:50.224	00:31.5	Right	MSSR (OSVN)
68	2016-Jan-22 01:21:34.468	00:32.8	Right	MSSR (OSVN)
69	2016-Jan-22 21:31:01.997	00:08.3	Right	MSSR (OSVN)
70	2016-Jan-22 23:11:25.965	00:31.1	Right	MSSR (OSVN)
71	2016-Jan-23 00:52:09.365	00:33.9	Right	MSSR (OSVN)
72	2016-Jan-23 02:32:56.740	00:12.2	Right	MSSR (OSVN)
73	2016-Jan-23 22:42:02.420	00:32.3	Right	MSSR (OSVN)
74	2016-Jan-24 00:22:47.469	00:32.2	Right	MSSR (OSVN)
75	2016-Jan-24 02:03:34.035	00:20.6	Right	MSSR (OSVN)
76	2016-Jan-24 22:12:45.254	00:27.4	Right	MSSR (OSVN)
77	2016-Jan-24 23:53:25.085	00:32.0	Right	MSSR (OSVN)
78	2016-Jan-25 01:34:09.671	00:33.3	Right	MSSR (OSVN)
79	2016-Jan-25 21:43:32.202	00:14.4	Right	MSSR (OSVN)

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80	2016-Jan-25 23:24:02.585	00:30.8	Right	MSSR (OSVN)
81	2016-Jan-26 01:04:46.358	00:32.9	Right	MSSR (OSVN)
82	2016-Jan-26 02:45:33.014	00:08.9	Right	MSSR (OSVN)
83	2016-Jan-26 22:54:38.519	00:31.1	Right	MSSR (OSVN)
84	2016-Jan-27 00:35:22.500	00:32.9	Right	MSSR (OSVN)
85	2016-Jan-27 02:16:09.002	00:17.0	Right	MSSR (OSVN)
86	2016-Jan-27 22:25:17.705	00:31.0	Right	MSSR (OSVN)
87	2016-Jan-28 00:05:59.590	00:32.1	Right	MSSR (OSVN)
88	2016-Jan-28 21:56:03.062	00:20.2	Right	MSSR (OSVN)
89	2016-Jan-28 23:36:38.439	00:31.4	Right	MSSR (OSVN)
	Start Time UTC	Duration	Look	Beam
90	2016-Jan-29 01:17:22.567	00:32.6	Right	MSSR (OSVN)
91	2016-Jan-29 21:26:52.116	00:06.3	Right	MSSR (OSVN)
92	2016-Jan-29 23:07:13.864	00:31.5	Right	MSSR (OSVN)
93	2016-Jan-30 00:47:56.854	00:34.3	Right	MSSR (OSVN)
94	2016-Jan-30 02:28:44.477	00:13.6	Right	MSSR (OSVN)
95	2016-Jan-30 22:37:50.861	00:33.0	Right	MSSR (OSVN)

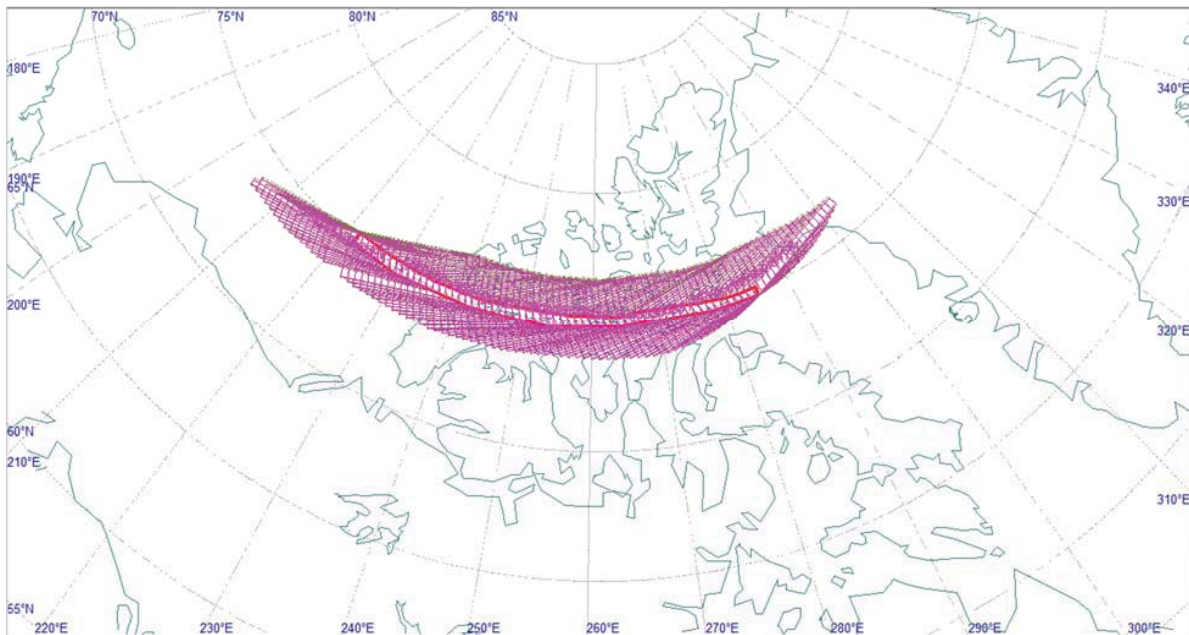


Figure 5: Ascending Passes over the Arctic AOI.

Table 13: RADARSAT-2 Descending Passes over the Arctic AOI.

	Start Time UTC	Duration	Look	Beam
1	2016-Jan-01 11:47:09.402	00:11.6	Right	MSSR (OSVN)
2	2016-Jan-01 13:27:32.983	00:35.7	Right	MSSR (OSVN)
3	2016-Jan-01 15:08:19.585	00:32.6	Right	MSSR (OSVN)
4	2016-Jan-01 16:49:04.607	00:02.7	Right	MSSR (OSVN)
5	2016-Jan-02 12:58:12.276	00:31.3	Right	MSSR (OSVN)
6	2016-Jan-02 14:38:56.574	00:31.4	Right	MSSR (OSVN)
7	2016-Jan-02 16:19:41.817	00:19.3	Right	MSSR (OSVN)
8	2016-Jan-03 12:28:53.039	00:26.2	Right	MSSR (OSVN)
9	2016-Jan-03 14:09:33.873	00:31.8	Right	MSSR (OSVN)
10	2016-Jan-03 15:50:19.176	00:27.6	Right	MSSR (OSVN)
11	2016-Jan-04 11:59:41.260	00:14.4	Right	MSSR (OSVN)
12	2016-Jan-04 13:40:08.341	00:34.6	Right	MSSR (OSVN)
13	2016-Jan-04 15:20:56.557	00:30.5	Right	MSSR (OSVN)
14	2016-Jan-05 11:30:25.868	00:07.2	Right	MSSR (OSVN)
15	2016-Jan-05 13:10:46.988	00:32.8	Right	MSSR (OSVN)
16	2016-Jan-05 14:51:31.628	00:32.6	Right	MSSR (OSVN)
17	2016-Jan-05 16:32:17.184	00:14.7	Right	MSSR (OSVN)
18	2016-Jan-06 12:41:25.537	00:30.8	Right	MSSR (OSVN)
19	2016-Jan-06 14:22:09.657	00:31.2	Right	MSSR (OSVN)
20	2016-Jan-06 16:02:54.617	00:24.5	Right	MSSR (OSVN)
21	2016-Jan-07 12:12:12.449	00:18.5	Right	MSSR (OSVN)
22	2016-Jan-07 13:52:44.661	00:33.2	Right	MSSR (OSVN)
23	2016-Jan-07 15:33:31.615	00:31.0	Right	MSSR (OSVN)
24	2016-Jan-08 11:42:58.631	00:10.3	Right	MSSR (OSVN)
25	2016-Jan-08 13:23:21.364	00:35.4	Right	MSSR (OSVN)
26	2016-Jan-08 15:04:07.459	00:33.2	Right	MSSR (OSVN)
27	2016-Jan-08 16:44:52.620	00:09.4	Right	MSSR (OSVN)
28	2016-Jan-09 12:54:00.791	00:30.9	Right	MSSR (OSVN)
29	2016-Jan-09 14:34:45.053	00:31.0	Right	MSSR (OSVN)
30	2016-Jan-09 16:15:29.888	00:20.9	Right	MSSR (OSVN)
31	2016-Jan-10 12:24:42.995	00:24.0	Right	MSSR (OSVN)
32	2016-Jan-10 14:05:22.119	00:31.5	Right	MSSR (OSVN)
33	2016-Jan-10 15:46:07.152	00:28.7	Right	MSSR (OSVN)
34	2016-Jan-11 11:55:30.713	00:13.3	Right	MSSR (OSVN)
35	2016-Jan-11 13:35:56.469	00:35.0	Right	MSSR (OSVN)
36	2016-Jan-11 15:16:44.132	00:31.2	Right	MSSR (OSVN)
37	2016-Jan-12 11:26:14.790	00:06.5	Right	MSSR (OSVN)
38	2016-Jan-12 13:06:35.485	00:32.2	Right	MSSR (OSVN)
39	2016-Jan-12 14:47:19.859	00:32.2	Right	MSSR (OSVN)

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40	2016-Jan-12 16:28:05.540	00:16.2	Right	MSSR (OSVN)
41	2016-Jan-13 12:37:13.692	00:30.2	Right	MSSR (OSVN)
42	2016-Jan-13 14:17:57.639	00:31.7	Right	MSSR (OSVN)
43	2016-Jan-13 15:58:43.028	00:25.4	Right	MSSR (OSVN)
44	2016-Jan-14 12:08:02.126	00:17.0	Right	MSSR (OSVN)
	Start Time UTC	Duration	Look	Beam
45	2016-Jan-14 13:48:32.352	00:33.8	Right	MSSR (OSVN)
46	2016-Jan-14 15:29:19.939	00:30.8	Right	MSSR (OSVN)
47	2016-Jan-15 11:38:47.786	00:09.1	Right	MSSR (OSVN)
48	2016-Jan-15 13:19:09.826	00:34.5	Right	MSSR (OSVN)
49	2016-Jan-15 14:59:55.425	00:33.4	Right	MSSR (OSVN)
50	2016-Jan-15 16:40:40.721	00:11.3	Right	MSSR (OSVN)
51	2016-Jan-16 12:49:49.388	00:30.5	Right	MSSR (OSVN)
52	2016-Jan-16 14:30:33.611	00:30.7	Right	MSSR (OSVN)
53	2016-Jan-16 16:11:18.045	00:22.2	Right	MSSR (OSVN)
54	2016-Jan-17 12:20:32.886	00:22.0	Right	MSSR (OSVN)
55	2016-Jan-17 14:01:10.450	00:31.2	Right	MSSR (OSVN)
56	2016-Jan-17 15:41:55.219	00:29.6	Right	MSSR (OSVN)
57	2016-Jan-18 11:51:20.095	00:12.4	Right	MSSR (OSVN)
58	2016-Jan-18 13:31:44.684	00:35.3	Right	MSSR (OSVN)
59	2016-Jan-18 15:12:31.809	00:31.9	Right	MSSR (OSVN)
60	2016-Jan-19 11:22:03.636	00:06.0	Right	MSSR (OSVN)
61	2016-Jan-19 13:02:23.840	00:31.7	Right	MSSR (OSVN)
62	2016-Jan-19 14:43:08.176	00:31.8	Right	MSSR (OSVN)
63	2016-Jan-19 16:23:53.838	00:17.6	Right	MSSR (OSVN)
64	2016-Jan-20 12:33:03.009	00:28.5	Right	MSSR (OSVN)
65	2016-Jan-20 14:13:45.711	00:32.1	Right	MSSR (OSVN)
66	2016-Jan-20 15:54:31.294	00:26.3	Right	MSSR (OSVN)
67	2016-Jan-21 12:03:51.729	00:15.6	Right	MSSR (OSVN)
68	2016-Jan-21 13:44:20.300	00:34.2	Right	MSSR (OSVN)
69	2016-Jan-21 15:25:08.348	00:30.5	Right	MSSR (OSVN)
70	2016-Jan-22 11:34:36.866	00:08.1	Right	MSSR (OSVN)
71	2016-Jan-22 13:14:58.368	00:33.6	Right	MSSR (OSVN)
72	2016-Jan-22 14:55:43.483	00:33.0	Right	MSSR (OSVN)
73	2016-Jan-22 16:36:28.910	00:13.1	Right	MSSR (OSVN)
74	2016-Jan-23 12:45:37.471	00:30.7	Right	MSSR (OSVN)
75	2016-Jan-23 14:26:21.768	00:30.8	Right	MSSR (OSVN)
76	2016-Jan-23 16:07:06.290	00:23.4	Right	MSSR (OSVN)
77	2016-Jan-24 12:16:22.705	00:20.2	Right	MSSR (OSVN)
78	2016-Jan-24 13:56:57.889	00:31.8	Right	MSSR (OSVN)
79	2016-Jan-24 15:37:43.374	00:30.4	Right	MSSR (OSVN)

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80	2016-Jan-25 11:47:09.402	00:11.6	Right	MSSR (OSVN)
81	2016-Jan-25 13:27:32.983	00:35.7	Right	MSSR (OSVN)
82	2016-Jan-25 15:08:19.585	00:32.6	Right	MSSR (OSVN)
83	2016-Jan-25 16:49:04.607	00:02.7	Right	MSSR (OSVN)
84	2016-Jan-26 12:58:12.276	00:31.3	Right	MSSR (OSVN)
85	2016-Jan-26 14:38:56.574	00:31.4	Right	MSSR (OSVN)
86	2016-Jan-26 16:19:41.817	00:19.3	Right	MSSR (OSVN)
87	2016-Jan-27 12:28:53.039	00:26.2	Right	MSSR (OSVN)
88	2016-Jan-27 14:09:33.873	00:31.8	Right	MSSR (OSVN)
89	2016-Jan-27 15:50:19.176	00:27.6	Right	MSSR (OSVN)
	Start Time UTC	Duration	Look	Beam
90	2016-Jan-28 11:59:41.260	00:14.4	Right	MSSR (OSVN)
91	2016-Jan-28 13:40:08.341	00:34.6	Right	MSSR (OSVN)
92	2016-Jan-28 15:20:56.557	00:30.5	Right	MSSR (OSVN)
93	2016-Jan-29 11:30:25.868	00:07.2	Right	MSSR (OSVN)
94	2016-Jan-29 13:10:46.988	00:32.8	Right	MSSR (OSVN)
95	2016-Jan-29 14:51:31.628	00:32.6	Right	MSSR (OSVN)
96	2016-Jan-29 16:32:17.184	00:14.7	Right	MSSR (OSVN)
97	2016-Jan-30 12:41:25.537	00:30.8	Right	MSSR (OSVN)
98	2016-Jan-30 14:22:09.657	00:31.2	Right	MSSR (OSVN)
99	2016-Jan-30 16:02:54.617	00:24.5	Right	MSSR (OSVN)

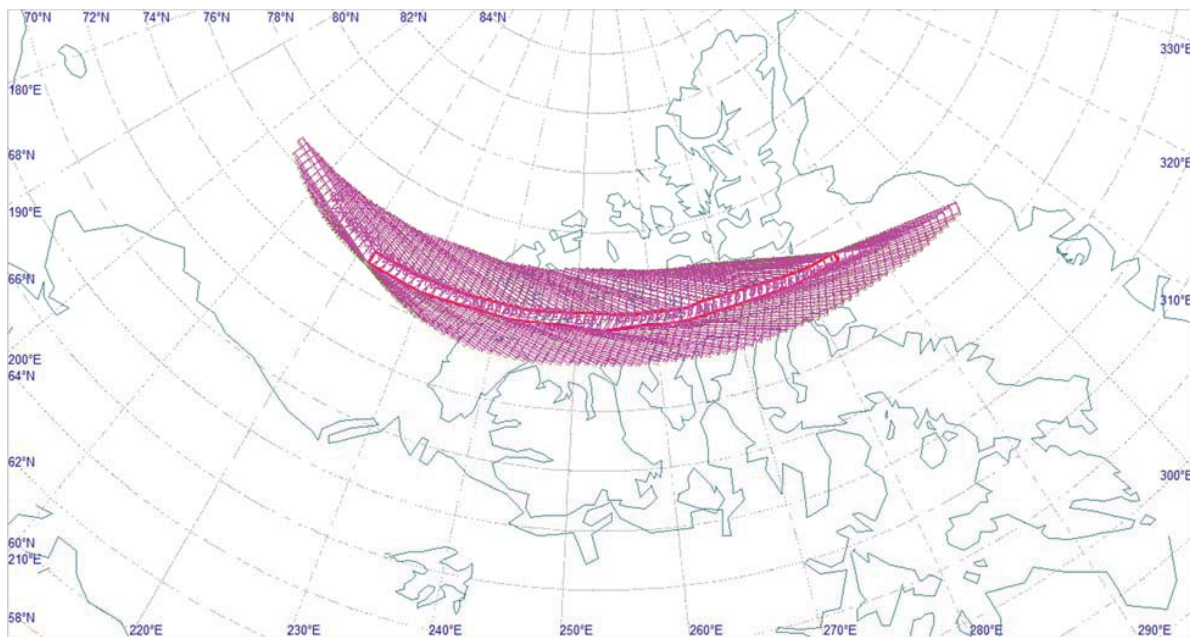


Figure 6: Descending Passes over the Arctic AOI.