

**Initial Operation & Evaluation Procedure
of ADEOS-II Mission Operations System
(for NASDA External Agencies)**

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December 2002



**Initial Operation Evaluation Procedure of ADEOS-II Mission Operations System
(for NASDA External Agencies)**

List of Valid Pages

Pages	Revision
i	N/A
ii	A
iii ~ v	N/A
1 ~ 34	N/A
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43 ~ 45	A
46 ~ 58	N/A
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81	A
82 ~ 90	N/A
91 ~ 93	A
94~99	N/A
100	A
101 ~ 103	N/A
104 ~ 106	A
107 ~ 110	N/A

**Initial Operation Evaluation Procedure of ADEOS-II Mission Operations System
(for NASDA External Agencies)**

Approved by:



Yoshio Ishido
NASDA / EORC
ADEOS-II Ground Segment Project Manager

Initial Operation Evaluation Procedure of ADEOS-II Mission Operations System (for NASDA External Agencies)

Revision History

Version	Revision	Date	Page	Contents	Note
Draft	N/A	July 2002			First Draft
Draft 0.1	N/A	Nov. 2002			Final Draft
			2, 3, 6, 8, 10, 16, 18, 20, 31	Contents of RERC for X3-band data were clarified.	
			2, 3, 7, 9, 11, 17, 19, 21, 32	Invoice is used for MRT data shipment, instead of SRRM.	
			2, 3, 4	MOIF transmission scheme for VMS/DMS data acquisition at Kiruuna was changed.	
			3, 8, 10, 12, 18, 20, 25, 28	Evaluation items of X-band link budget were specified.	
			5, 8, 10, 13, 15, 18, 20, 22, 30, 35, 37, 39, 57, 59	"Daily and Weekly Support Request" was described as the concrete name of pass assignment Fax/e-mail.	
			7, 9, 11, 13, 17, 19, 21, 22	SRRM/RDRM file is used for raw data media shipment for X1 data acquired on L+11 and 32 days. B/U raw media is shipped, if bud result is reported by RDRM.	
			12, 13	Acquisition data at NIPR was corrected from X3 data to X1 data.	
			7, 12, 13	RDRM file is sent from EOC to NIPR.	SRRM is N/A B/U media is not necessary
			34, 41, 42, 45, 52, 61, 65, 68	Mean orbit data delivery to NIES and SeaPAC is started from Instrument C/O phase.	
			31, 35	During Instrument C/O phase, GLI 250m data is not acquired at ASF and WFF.	
			35 ~ 38, 41	MRT data during Instrument C/O phase is recorded at overseas stations, and shipped to EOC.	
			36, 38, 58, 59, 79, 81	ORST transmission to overseas ground stations was added to procedure tables.	
			48 ~ 51	Operation flow and procedure was modified. Schedule was corrected (with TBC).	According to comments from CNES/CLS
57, 59, 61, 65 ~ 71, 77, 80, 86 ~ 92	Schedule of Sys-1 and Sys-2 was updated.				
1.0	N/A	Nov. 2002	2, 3, 4	HK TLM data processing was deleted.	
			2, 3, 4	Fax is used as B/U to provide orbit data (EL).	
			6, 8, 13, 16, 18, 20, 22, 25, 28	DMS level 0 data is processed from MRT data, when MDR does not operate continuously.	
			34, 36, 38, 42~48, 53, 59, 61, 65~71, 73, 80, 82, 86~92	STAD is provided to all related agencies to inform orbit maneuver plan.	
			35, 37,	At ASF and Kiruna, SeaWinds and DMS level 0 data processing from MRT is needed.	on 2 days in the period from L+53 to 55.
			51, 52	Evaluation items for DCS Downlink/Uplink Messaging Operation were specified.	TBD was closed.
			55, 64, 71, 72, 75, 85, 92, 93	TBDs were added to descriptions about delivery of AMSR L1A, GLI L1A and SeaWinds Met.	
			78~93	Schedule of Sys-2 was changed	
			94, 95, 98, 100, 102, 105	MDR data and MRT data is acquired during IOCS C/O period, and processed to level 0 data.	
94~104	MOIFs are provided during IOCS C/O period				
1.0	A	Dec.2002	35, 43~45, 59, 68~70, 81, 91~93, 100, 104~106	Processed DMS data is delivered from EOC to SeaPAC and CNES/POLDER	

Note: Modifications made to this document are annotated as follows:

- Deletions are indicated by (e.g., ~~Project~~)
- Additions are indicated by under bar (e.g., Project)
- Comments are indicated by italics (e.g., *Project*)

Initial Operation Evaluation Plan of ADEOS-II Mission Operations System (for NASDA External Agencies)

List of TBDs

No.	Remained TBD	Related Pages	Related Agencies	Due Date
1	Products delivery plan for AMSR level 1A, GLI level 1A and SeaWinds Met Data.	55, 64, 71, 72, 75, 85, 92, 93	NASDA, PO.DAAC, JPL and NOAA	L+ 1 month

Initial Operation Evaluation Plan of ADEOS-II Mission Operations System (for NASDA External Agencies)

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1 Purpose

This document is lower document of the “Initial Operation and Evaluation Plan (OPEP) of ADEOS-II Mission Operations System”, AD2-EOSD-02-026, and provides detailed operation flow and procedure necessary to perform initial operation and evaluation by NASDA and related agencies.

2 Scope

2.1 Target Systems

(1) ADEOS-II Mission Operations System

ADEOS-II Mission Operations System consists of the following systems.

- ADEOS-II Data Acquisition and Processing System @ NASDA/EOC
 - ✓ X band Receiving System
 - ✓ Feeder link Station
 - ✓ MMO
 - ✓ Recording Subsystem
 - ✓ Processing Subsystem (AMSR/DCS, GLI)
 - ✓ DCS Equipment (Master Beacon, NASDA/DCP)
- Earth Observation Data and Information System (EOIS) @NASDA/EOC
- Overseas Ground Stations
 - ✓ NASA Stations (ASF, WFF and DSMC)
 - ✓ Kiruna Station
- Foreign Ground Stations
 - ✓ NIPR (Showa base in Antarctica)
- Other Related Systems/Agencies
 - ✓ TACC @NASDA/TKSC
 - ✓ Sensor Providers (JPL (SeaPAC), CNES (POLDER, DCS), NIES and TKSC/TEDA)
 - ✓ Data Utilization Agency (PO.DAAC, NOAA)

(2) Others

The following organizations of NASDA are related to the initial operation and evaluation of ADEOS-II Mission Operation System.

- ✓ ADEOS-II Project (Satellite team)
- ✓ TACC

3 Change Control

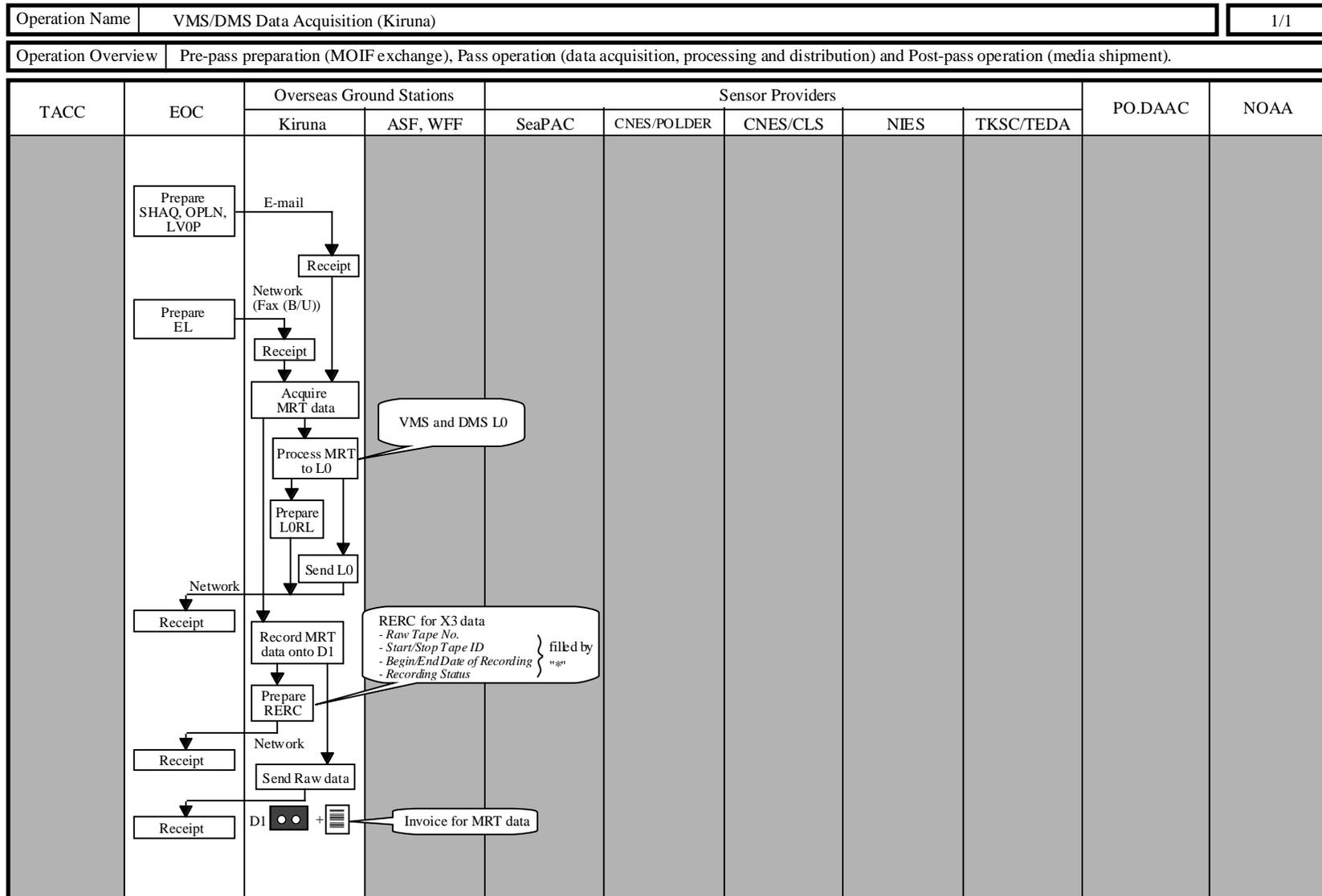
Changes of this document shall be controlled by NASDA/EORC. If it is necessary to change the contents of this document, NASDA and the related agencies will make coordination about the change. And then, NASDA will revise this document immediately according to the result of coordination, and distribute the updated document to all related agencies.

4 Operation Flow & Procedure

Operation flows and procedures are shown in the following pages.

4.1 VMS/DMS Data Acquisition

(1) Operation Flow



(2) Operation Procedure
 a) Kiruna Station

Operation Name	VMS/DMS Data Acquisition	Operator	Kiruna Station	Operation Date	YYYY/MM/DD (Launch day)	Target Rev.	
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No.	Procedure	Evaluation	Output	Note	Result
Pre-pass Preparation					
1	Receive SHAQ, OPLN and LVOP file from EOC via e-mail.	Confirm format and readability			
2	Receive EL file from EOC via network and Fax (Backup)	Confirm format, readability and file exchange procedure.			
Pass Operation					
3	Acquire MRT data via X3-band.	Monitor RF characteristics of X3-band and evaluate link budget.	Evaluation result of X3-band link budget	Data sheet should be attached. <input type="checkbox"/> AGC Level <input type="checkbox"/> Spectrum Analyzer Picture	
4	Process MRT data to level 0 data of VMS, DMS and HK source packet	Confirm successful completion of level 0 data processing			
5	Send level 0 data of VMS and DMS to EOC via network.	Confirm level 0 data exchange procedure.	Level 0 data (VMS and DMS)		
6	Prepare L0RL file.	Confirm successful completion of L0RL preparation.			
7	Send L0RL to EOC via network.	Confirm file exchange procedure.	L0RL		
8	Record MRT data onto D1 cassette	Confirm successful completion of raw data recording.			
9	Prepare RERC file for X3-band data	Confirm successful completion of RERC preparation.		Information for MRT data recording is not necessary.	
10	Send RERC to EOC via network	Confirm file exchange procedure.	RERC		
Post-pass Operation					
11	Ship D1 cassette of raw data (MRT data) to EOC	Confirm media shipment procedure.	Raw data of MRT data	Enclose an invoice for raw data tape of MRT.	

b) NASDA/EOC

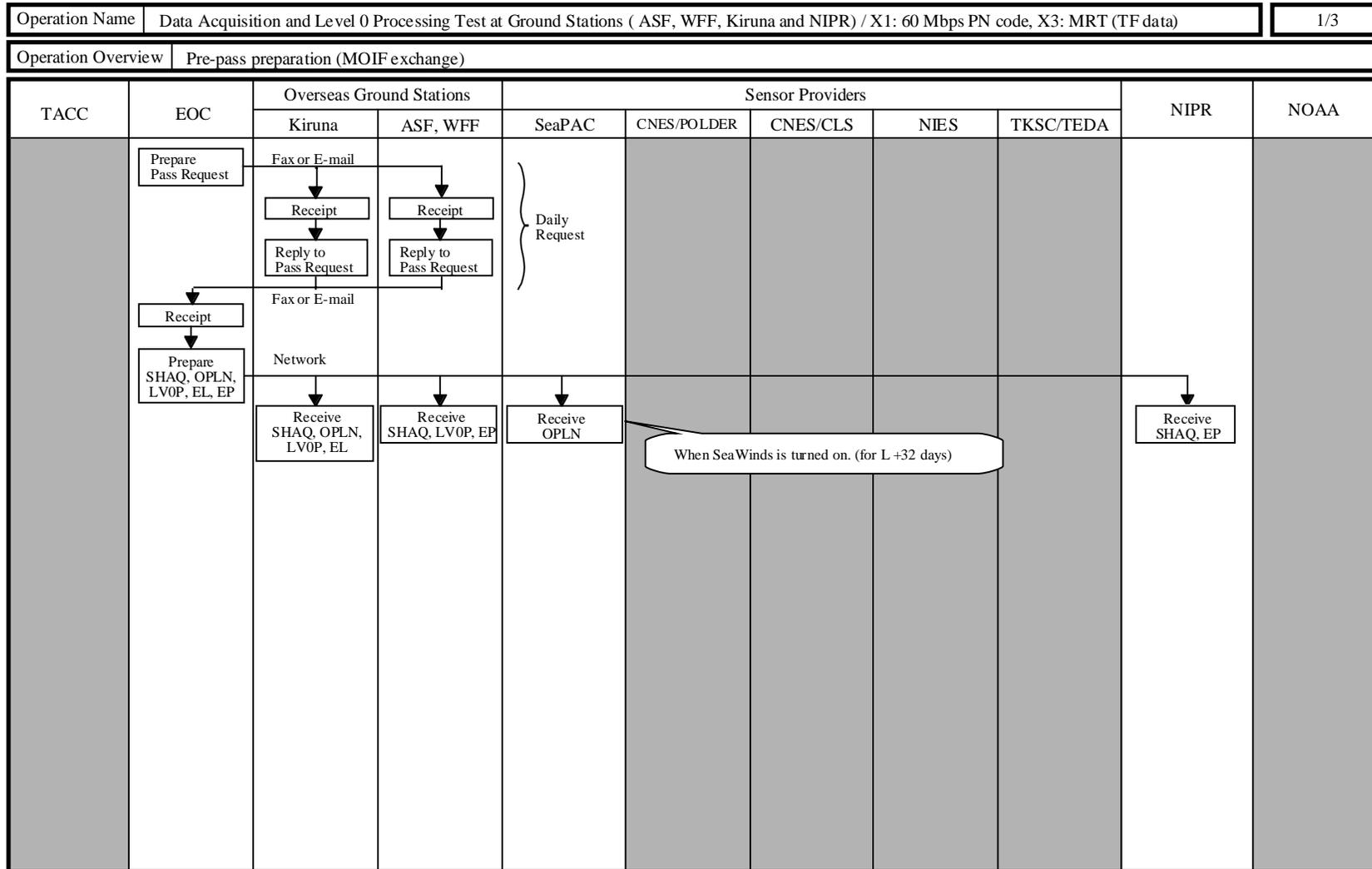
Operation Name	VMS/DMS Data Acquisition	Operator	NASDA (EOC)	Operation Date	YYYY/MM/DD (Launch day)	Target Rev.	
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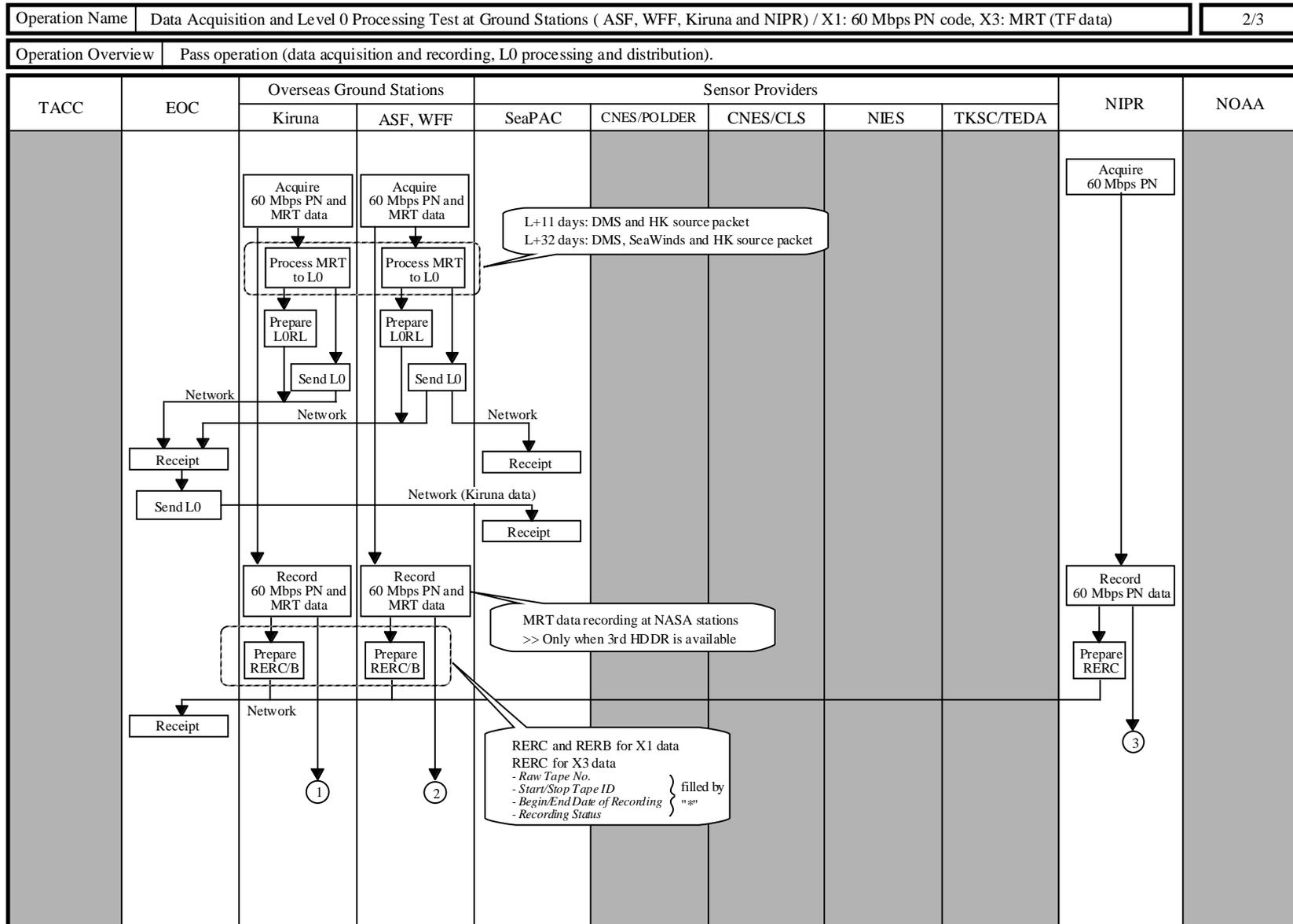
No.	Procedure	Evaluation	Output	Note	Result
Pre-pass Preparation					
1	Prepare SHAQ, OPLN and LVOP	Confirm successful completion of SHAQ and OPLN, LVOP preparation.			
2	Send SHAQ, OPLN and LVOP file to Kiruna station via e-mail		SHAQ, OPLN, LVOP and EL		N/A
3	Prepare EL file	Confirm successful completion of EL file preparation.			
4	Send EL file to Kiruna station via network and Fax (Backup)	Confirm file exchange procedure.	EL		
Pass Operation					
5	Receive level 0 data of VMS and DMS from Kiruna station via network.	Confirm level 0 data exchange procedure. Confirm level 0 data format and readability.			
6	Receive LORL from Kiruna station via network.	Confirm format, readability and file exchange procedure.			
7	Receive RERC from Kiruna station via network.	Confirm format, readability and file exchange procedure.			
Post-pass Operation					
8	Receive D1 cassette of raw data (MRT data) from Kiruna station.	Confirm media shipment procedure. Confirm raw data format.		Invoice for raw data tape of MRT is enclosed.	

4.2 Data Acquisition and Level 0 data Processing Test at Ground Stations (ASF, WFF, Kiruna Station and NIPR)

4.2.1 Data Acquisition Pattern 1 ~ X1: 60 Mbps PN Code, X3: MRT (TF data) ~

(1) Operation Flow





(2) Operation Procedure

a) NASA Stations (ASF, WFF)

Operation Name	Data Acquisition and Level 0 data Processing Test at Ground Stations / X1: 60 Mbps PN code, X3: MRT (TF data)	Operator	ASF, WFF	Operation Date	YYYY/MM/DD (Launch + 11day and 32 days)	Target Rev.	
No.	Procedure	Evaluation	Output	Note	Result		
Pre-pass Preparation							
1	Receive pass requirement from EOC via Fax or E-mail			Daily support request.	N/A		
2	Reply to pass request via Fax or E-mail.		Reply to pass request		N/A		
3	Receive SHAQ, LVOP and EP from EOC via network	Confirm format, readability and file exchange procedure.					
Pass Operation							
4	Acquire MRT data via X3-band.	Monitor RF characteristics of X3-band and evaluate link budget.	Evaluation result of X3-band link budget	Data sheet should be attached. <input type="checkbox"/> AGC Level <input type="checkbox"/> Spectrum Analyzer Picture			
5	Acquire 60 Mbps PN code via X1-band	Monitor RF characteristics of X1-band and evaluate link budget.	Evaluation result of X1-band link budget	Data sheet should be attached. <input type="checkbox"/> AGC Level <input type="checkbox"/> BER <input type="checkbox"/> Spectrum Analyzer Picture			
6	Process MRT data to level 0 data of DMS, HK source packet and SeaWinds.	Confirm successful completion of level 0 data processing		L+11 days: DMS and HK Source L+32 days: DMS, HK Source and SeaWinds			
7	Send level 0 data of DMS and HK source packet to EOC via network.	Confirm level 0 data exchange procedure.	Level 0 data (DMS and HK source)				
8	Send level 0 data of HK source packet and SeaWinds to SeaPAC via network.	Confirm level 0 data exchange procedure.	Level 0 data (SeaWinds and HK source)	L+11 days: HK Source L+32 days: HK Source and SeaWinds			
9	Prepare L0RL file.	Confirm successful completion of L0RL preparation.					
10	Send L0RL to EOC via network.	Confirm file exchange procedure.	L0RL				
11	Record MRT data onto D1 cassette	Confirm successful completion of raw data recording.		Only when 3rd HDDR is available.			
12	Record 60 Mbps PN code onto D1 cassette.	Confirm successful completion of raw data recording.		Both Master and B/U media.			
13	Prepare RERC file for X3-band data	Confirm successful completion of RERC preparation.		Information for MRT data recording is not necessary.			
14	Prepare RERC and RERB for X1-band data.	Confirm successful completion of RERC and RERB preparation.					
15	Send RERC and RERB to EOC via network.	Confirm file exchange procedure.	RERC, RERB				

No.	Procedure	Evaluation	Output	Note	Result
Post-pass Operation					
16	Ship D1 cassette of raw data (MRT and 60 Mbps PN code) to EOC	Confirm media shipment procedure.	Raw data of MRT and 60 Mbps PN code	Enclose an invoice for raw data tape of MRT.	
17	Prepare SRRM for raw data tape of X1-band data (60 Mbps PN code).	Confirm successful completion of SRRM preparation.			
18	Send SRRM to EOC via network	Confirm file exchange procedure.	SRRM		
19	Receive RDRM from EOC via network	Confirm format, readability and file exchange procedure.		If bad result is reported by RDRM, B/U raw media is shipped.	

b) Kiruna Station

Operation Name	Data Acquisition and Level 0 data Processing Test at Ground Stations / X1: 60 Mbps PN code, X3: MRT (TF data)	Operator	Kiruna Station	Operation Date	YYYY/MM/DD (Launch + 11day and 32 days)	Target Rev.	
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No.	Procedure	Evaluation	Output	Note	Result
Pre-pass Preparation					
1	Receive pass requirement from EOC via Fax or E-mail			Daily support request.	N/A
2	Reply to pass request via Fax or E-mail.		Reply to pass request		N/A
3	Receive SHAQ, OPLN, LV0P and EL from EOC via network	Confirm format, readability and file exchange procedure.			
Pass Operation					
4	Acquire MRT data via X3-band.	Monitor RF characteristics of X3-band and evaluate link budget.	Evaluation result of X3-band link budget	Data sheet should be attached. <input type="checkbox"/> AGC Level <input type="checkbox"/> Spectrum Analyzer Picture	
5	Acquire 60 Mbps PN code via X1-band	Monitor RF characteristics of X1-band and evaluate link budget.	Evaluation result of X1-band link budget	Data sheet should be attached. <input type="checkbox"/> AGC Level <input type="checkbox"/> BER <input type="checkbox"/> Spectrum Analyzer Picture	
6	Process MRT data to level 0 data of DMS, HK source packet and SeaWinds.	Confirm successful completion of level 0 data processing		L+11 days: HK Source L+32 days: HK Source & SeaWinds	
7	Send level 0 data of DMS, HK source packet and SeaWinds to EOC via network	Confirm level 0 data exchange procedure.	Level 0 data (DMS, HK source, SeaWinds)	SeaWinds L0: only when L+32 days	
8	Prepare L0RL file.	Confirm successful completion of L0RL preparation.			
9	Send L0RL to EOC via network.	Confirm file exchange procedure.	L0RL		
10	Record MRT data onto D1 cassette	Confirm successful completion of raw data recording.			
11	Record 60 Mbps PN code onto D1 cassette.	Confirm successful completion of raw data recording.		Both Master and B/U media.	
12	Prepare RERC file for X3-band data	Confirm successful completion of RERC preparation.		Information for MRT data recording is not necessary.	
13	Prepare RERC and RERB for X1-band data.	Confirm successful completion of RERC and RERB preparation.			
14	Send RERC and RERB to EOC via network.	Confirm file exchange procedure.	RERC, RERB		

No.	Procedure	Evaluation	Output	Note	Result
Post-pass Operation					
15	Ship D1 cassette of raw data (MRT and 60 Mbps PN code) to EOC	Confirm media shipment procedure.	Raw data of MRT and 60 Mbps PN code	Enclose an invoice for raw data tape of MRT.	
16	Prepare SRRM for raw data tape of X1-band data (60 Mbps PN code).	Confirm successful completion of SRRM preparation.			
17	Send SRRM to EOC via network	Confirm file exchange procedure.	SRRM		
18	Receive RDRM from EOC via network	Confirm format, readability and file exchange procedure.		If bad result is reported by RDRM, B/U raw media is shipped.	

c) NIPR

Operation Name	Data Acquisition and Level 0 data Processing Test at Ground Stations / X1: 60 Mbps PN code, X3: MRT (TF data)	Operator	NIPR	Operation Date	YYYY/MM/DD (Launch + 11 day and 32 days)	Target Rev.	
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No.	Procedure	Evaluation	Output	Note	Result
Pre-pass Preparation					
1	Receive SHAQ and EP from EOC via network	Confirm format, readability and file exchange procedure.			
Pass Operation					
2	Acquire 60 Mbps PN code data via X1-band.	Monitor RF characteristics of X1-band and evaluate link budget.	Evaluation result of X1-band link budget	Data sheet should be attached. <input type="checkbox"/> AGC Level <input type="checkbox"/> BER <input type="checkbox"/> Spectrum Analyzer Picture	
3	Record 60 Mbps PN code data onto D1 cassette	Confirm successful completion of raw data recording.			
4	Prepare RERC file for X1-band data	Confirm successful completion of RERC preparation.			
5	Send RERC to EOC via network.	Confirm file exchange procedure.	RERC		
Post-pass Operation					
6	Ship D1 cassette of raw data (60 Mbps PN code) to EOC	Confirm media shipment procedure.	Raw data of 60 Mbps PN code		
7	Receive RDRM from EOC via network	Confirm format, readability and file exchange procedure.			

d) NASDA/EOC

Operation Name	Data Acquisition and Level 0 data Processing Test at Ground Stations / X1: 60 Mbps PN code, X3: MRT (TF data)	Operator	NASDA (EOC)	Operation Date	YYYY/MM/DD (Launch + 11day and 32 days)	Target Rev.	
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No.	Procedure	Evaluation	Output	Note	Result
Pre-pass Preparation					
1	Prepare pass requirement and send it to ASF, WFF and Kiruna station via Fax or E-mail		Pass request	Daily support request.	N/A
2	Receive reply to pass request from ASF, WFF and Kiruna station via Fax or E-mail.				N/A
3	Prepare SHAQ, OPLN, LV0P, EP and EL	Confirm successful completion of SHAQ, OPLN, LV0P, EP and EL preparation.			
4	Send SHAQ, OPLN, LV0P and EL file to Kiruna station via network	Confirm file exchange procedure.	SHAQ, OPLN, LV0P and EL		
5	Send SHAQ, LV0P and EP file to ASF and WFF via network	Confirm file exchange procedure.	SHAQ, LV0P and EP		
6	Send SHAQ and EP file to NIPR via network	Confirm file exchange procedure.	SHAQ and EP		
Pass Operation					
7	Receive level 0 data of HK source packet and DMS from ASF, WFF and Kiruna station via network.	Confirm level 0 data exchange procedure. Confirm level 0 data format and readability.			
8	Receive level 0 data of SeaWinds from Kiruna station via network.	Confirm level 0 data exchange procedure.		SeaWinds L0: only when L+32 days	
9	Receive L0RL from ASF, WFF and Kiruna station via network.	Confirm format, readability and file exchange procedure.			
10	Send level 0 data of HK Source packet and SeaWinds to SeaPAC via network.	Confirm level 0 data exchange procedure.	Level 0 data (HK source, SeaWinds)	Kiruna data L+11 days: HK Source L+32 days: HK Source & SeaWinds	
11	Receive RERC from ASF, WFF, Kiruna station and NIPR via network.	Confirm format, readability and file exchange procedure.			
12	Receive RERB from ASF, WFF and Kiruna station via network.	Confirm format, readability and file exchange procedure.			
Post-pass Operation					
13	Receive D1 cassette of raw data (MRT data) from ASF, WFF, Kiruna station.	Confirm media shipment procedure. Confirm raw data format.		Invoice for raw data tape of MRT is enclosed.	
14	Receive D1 cassette of raw data (60 Mbps PN code) from ASF, WFF, Kiruna station and NIPR.	Confirm media shipment procedure. Confirm raw data format.			
15	Receive SRRM from ASF, WFF and Kiruna station via network	Confirm format, readability and file exchange procedure.			
16	Prepare RDRM for raw data tape of X1-band data (60 Mbps PN code).	Confirm successful completion of SRRM preparation.			
17	Send RDRM to ASF, WFF, Kiruna station and NIPR via network	Confirm file exchange procedure.	RDRM		

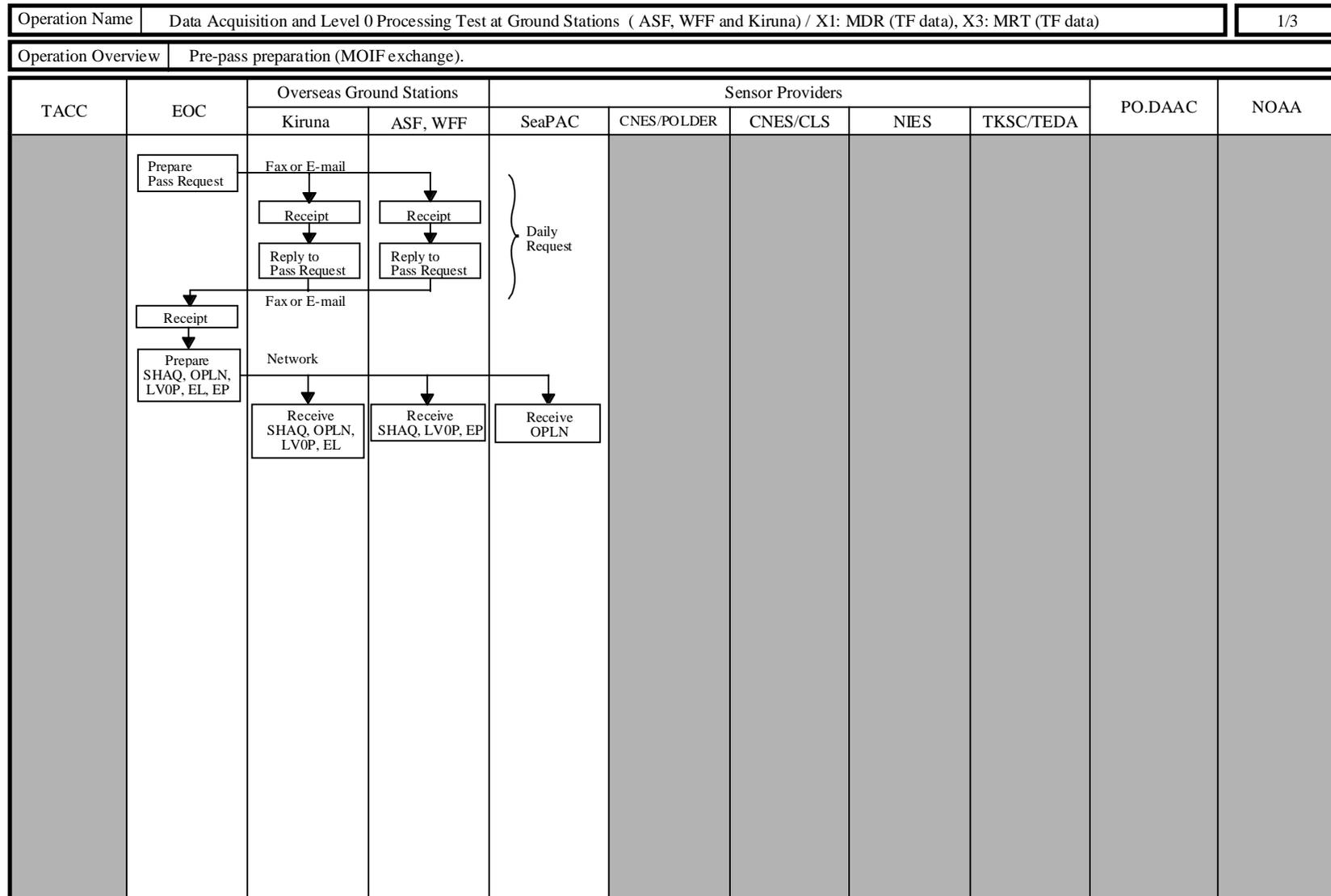
e) SeaPAC

Operation Name	Data Acquisition and Level 0 data Processing Test at Ground Stations / X1: 60 Mbps PN code, X3: MRT (TF data)	Operator	SeaPAC	Operation Date	YYYY/MM/DD (Launch + 11 day and 32 days)	Target Rev.	
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No.	Procedure	Evaluation	Output	Note	Result
Pre-pass Preparation					
1	Receive OPLN from EOC via network	Confirm format, readability and file exchange procedure.		Only when L+32 days	
Pass Operation					
2	Receive level 0 data of HK source packet and SeaWinds from ASF, WFF via network.	Confirm level 0 data exchange procedure. Confirm level 0 data format and readability.		L+11 days: HK Source L+32 days: HK Source & SeaWinds	
3	Receive level 0 data of HK source packet and SeaWinds from EOC via network.	Confirm level 0 data exchange procedure. Confirm level 0 data format and readability.		Kiruna data L+11 days: HK Source L+32 days: HK Source & SeaWinds	

4.2.2 Data Acquisition Pattern 2 ~ X1: MDR (TF data), X3: MRT (TF data) ~

(1) Operation Flow



(2) Operation Procedure

a) NASA Stations (ASF, WFF)

Operation Name	Data Acquisition and Level 0 data Processing Test at Ground Stations / X1: MDR (TF data), X3: MRT (TF data)	Operator	ASF, WFF	Operation Date	YYYY/MM/DD (Launch + 32 days)	Target Rev.	
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No.	Procedure	Evaluation	Output	Note	Result
Pre-pass Preparation					
1	Receive pass requirement from EOC via Fax or E-mail			Daily support request	N/A
2	Reply to pass request via Fax or E-mail.		Reply to pass request		N/A
3	Receive SHAQ, LVOP and EP from EOC via network	Confirm format, readability and file exchange procedure.			
Pass Operation					
4	Acquire MRT data via X3-band.	Monitor RF characteristics of X3-band and evaluate link budget.	Evaluation result of X3-band link budget	Data sheet should be attached. <input type="checkbox"/> AGC Level <input type="checkbox"/> Spectrum Analyzer Picture	
5	Acquire MDR data via X1-band	Monitor RF characteristics of X1-band and evaluate link budget.	Evaluation result of X1-band link budget	Data sheet should be attached. <input type="checkbox"/> AGC Level <input type="checkbox"/> BER <input type="checkbox"/> Spectrum Analyzer Picture	
6	Process MRT and MDR data to level 0 data of DMS, HK source packet and SeaWinds.	Confirm successful completion of level 0 data processing			
7	Send level 0 data of DMS and HK source packet to EOC via network.	Confirm level 0 data exchange procedure.	Level 0 data (DMS, HK source)		
8	Send level 0 data of SeaWinds and HK source packet to SeaPAC via network.	Confirm level 0 data exchange procedure.	Level 0 data (SeaWinds, HK source)		
9	Prepare L0RL file.	Confirm successful completion of L0RL preparation.			
10	Send L0RL to EOC via network.	Confirm file exchange procedure.	L0RL		
11	Record MRT data onto D1 cassette	Confirm successful completion of raw data recording.		Only when 3rd HDDR is available.	
12	Record MDR data onto D1 cassette.	Confirm successful completion of raw data recording.		Both Master and B/U media.	
13	Prepare RERC file for X3-band data	Confirm successful completion of RERC preparation.		Information for MRT data recording is not necessary.	
14	Prepare RERC and RERB for X1-band data.	Confirm successful completion of RERC and RERB preparation.			
15	Send RERC and RERB to EOC via network.	Confirm file exchange procedure.	RERC, RERB		

No.	Procedure	Evaluation	Output	Note	Result
Post-pass Operation					
16	Ship D1 cassette of raw data (MRT and MDR) to EOC	Confirm media shipment procedure.	Raw data of MRT and MDR	Enclose an invoice for raw data tape of MRT.	
17	Prepare SRRM for raw data tape of X1-band data (MDR).	Confirm successful completion of SRRM preparation.			
18	Send SRRM to EOC via network	Confirm file exchange procedure.	SRRM		
19	Receive RDRM from EOC via network	Confirm format, readability and file exchange procedure.		If bad result is reported by RDRM, B/U raw media is shipped.	

b) Kiruna Station

Operation Name	Data Acquisition and Level 0 data Processing Test at Ground Stations / X1: MDR (TF data), X3: MRT (TF data)	Operator	Kiruna Station	Operation Date	YYYY/MM/DD (Launch + 32 days)	Target Rev.	
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No.	Procedure	Evaluation	Output	Note	Result
Pre-pass Preparation					
1	Receive pass requirement from EOC via Fax or E-mail			Daily support request.	N/A
2	Reply to pass request via Fax or E-mail.		Reply to pass request		N/A
3	Receive SHAQ, OPLN, LV0P and EL from EOC via network	Confirm format, readability and file exchange procedure.			
Pass Operation					
4	Acquire MRT data via X3-band.	Monitor RF characteristics of X3-band and evaluate link budget.	Evaluation result of X3-band link budget	Data sheet should be attached. <input type="checkbox"/> AGC Level <input type="checkbox"/> Spectrum Analyzer Picture	
5	Acquire MDR data via X1-band	Monitor RF characteristics of X1-band and evaluate link budget.	Evaluation result of X1-band link budget	Data sheet should be attached. <input type="checkbox"/> AGC Level <input type="checkbox"/> BER <input type="checkbox"/> Spectrum Analyzer Picture	
6	Process MRT and MDR data to level 0 data of DMS, HK source packet and SeaWinds.	Confirm successful completion of level 0 data processing			
7	Send level 0 data of DMS, HK source packet and SeaWinds to EOC via network	Confirm level 0 data exchange procedure.	Level 0 data (DMS, HK source, SeaWinds)		
8	Prepare L0RL file.	Confirm successful completion of L0RL preparation.			
9	Send L0RL to EOC via network.	Confirm file exchange procedure.	L0RL		
10	Record MRT data onto D1 cassette	Confirm successful completion of raw data recording.			
11	Record 60 Mbps PN code onto D1 cassette.	Confirm successful completion of raw data recording.		Both Master and B/U media.	
12	Prepare RERC file for X3-band data	Confirm successful completion of RERC preparation.		Information for MRT data recording is not necessary.	
13	Prepare RERC and RERB for X1-band data.	Confirm successful completion of RERC and RERB preparation.			
14	Send RERC and RERB to EOC via network.	Confirm file exchange procedure.	RERC, RERB		

No.	Procedure	Evaluation	Output	Note	Result
Post-pass Operation					
15	Ship D1 cassette of raw data (MRT and MDR) to EOC	Confirm media shipment procedure.	Raw data of MRT and MDR	Enclose an invoice for raw data tape of MRT.	
16	Prepare SRRM for raw data tape of X1-band data (MDR).	Confirm successful completion of SRRM preparation.			
17	Send SRRM to EOC via network	Confirm file exchange procedure.	SRRM		
18	Receive RDRM from EOC via network	Confirm format, readability and file exchange procedure.		If bad result is reported by RDRM, B/U raw media is shipped.	

c) NASDA/EOC

Operation Name	Data Acquisition and Level 0 data Processing Test at Ground Stations / X1: MDR (TF data), X3: MRT (TF data)	Operator	NASDA (EOC)	Operation Date	YYYY/MM/DD (Launch + 32 days)	Target Rev.	
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No.	Procedure	Evaluation	Output	Note	Result
Pre-pass Preparation					
1	Prepare pass requirement and send it to ASF, WFF and Kiruna station via Fax or E-mail		Pass request	Daily support request.	N/A
2	Receive reply to pass request from ASF, WFF and Kiruna station via Fax or E-mail.				N/A
3	Prepare SHAQ, OPLN, LV0P, EP and EL	Confirm successful completion of SHAQ, OPLN, LV0P, EP and EL preparation.			
4	Send SHAQ, OPLN, LV0P and EL file to Kiruna station via network	Confirm file exchange procedure.	SHAQ, OPLN, LV0P and EL		
5	Send SHAQ, LV0P and EP file to ASF and WFF via network	Confirm file exchange procedure.	SHAQ, LV0P and EP		
Pass Operation					
6	Receive level 0 data of DCS and HK source packet from ASF, WFF and Kiruna station via network.	Confirm level 0 data exchange procedure. Confirm level 0 data format and readability.			
7	Receive level 0 data of SeaWinds from Kiruna station via network.	Confirm level 0 data exchange procedure.			
8	Receive LORL from ASF, WFF and Kiruna station via network.	Confirm format, readability and file exchange procedure.			
9	Send level 0 data of HK Source packet and SeaWinds to SeaPAC via network.	Confirm level 0 data exchange procedure.	Level 0 data (HK source, SeaWinds)	Kiruna data	
10	Receive RERC and RERB from ASF, WFF and Kiruna station via network.	Confirm format, readability and file exchange procedure.			
Post-pass Operation					
11	Receive D1 cassette of raw data (MRT and MDR) from ASF, WFF and Kiruna station.	Confirm media shipment procedure. Confirm raw data format.		Invoice for raw data tape of MRT is enclosed.	
12	Receive SRRM from ASF, WFF and Kiruna station via network	Confirm format, readability and file exchange procedure.			
13	Prepare RDRM for raw data tape of X1-band data (60 Mbps PN code).	Confirm successful completion of SRRM preparation.			
14	Send RDRM to ASF, WFF and Kiruna station via network	Confirm file exchange procedure.	RDRM		

d) SeaPAC

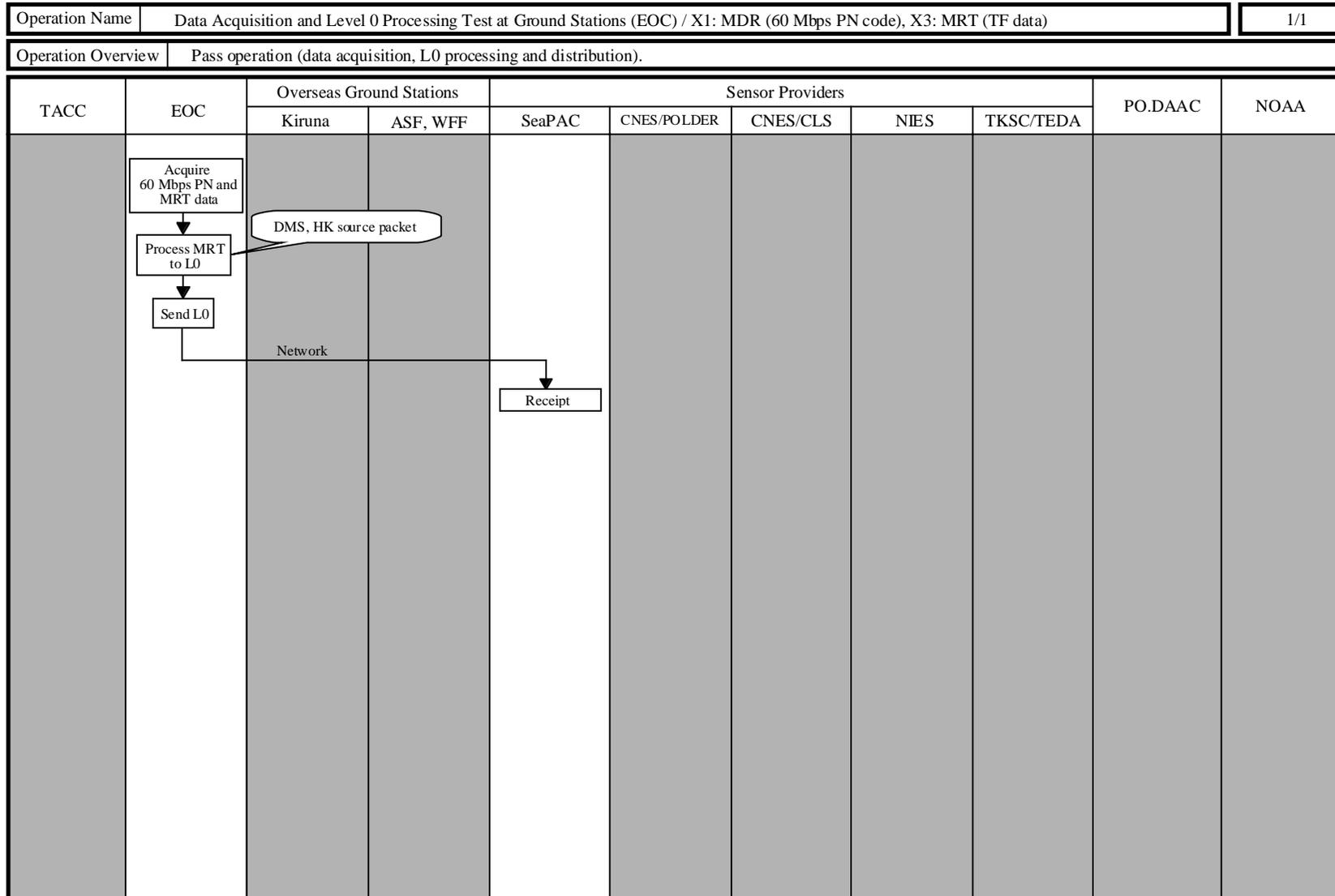
Operation Name	Data Acquisition and Level 0 data Processing Test at Ground Stations / X1: MDR (TF data), X3: MRT (TF data)	Operator	SeaPAC	Operation Date	YYYY/MM/DD (Launch + 32 days)	Target Rev.	
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No.	Procedure	Evaluation	Output	Note	Result
Pre-pass Preparation					
1	Receive OPLN from EOC via network	Confirm format, readability and file exchange procedure.			
Pass Operation					
2	Receive level 0 data of HK source packet and SeaWinds from ASF, WFF via network.	Confirm level 0 data exchange procedure. Confirm level 0 data format and readability.			
3	Receive level 0 data of HK source packet and SeaWinds from EOC via network.	Confirm level 0 data exchange procedure. Confirm level 0 data format and readability.		Kiruna data	

4.3 Data Acquisition and Level 0 data Processing Test at Ground Stations (EOC)

4.3.1 Data Acquisition Pattern 1 ~ X1: MDR (60 Mbps PN Code), X3: MRT (TF data) ~

(1) Operation Flow



(2) Operation Procedure
 a) NASDA/EOC

Operation Name	Data Acquisition and Level 0 data Processing Test at Ground Stations / X1: MDR (60 Mbps PN code), X3: MRT (TF data)	Operator	NASDA (EOC)	Operation Date	YYYY/MM/DD (Launch + 11 days)	Target Rev.	
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No.	Procedure	Evaluation	Output	Note	Result
Pass Operation					
1	Acquire MRT data via X3-band.	Monitor RF characteristics of X3-band and evaluate link budget.	Evaluation result of X3-band link budget	Data sheet should be attached. <input type="checkbox"/> AGC Level <input type="checkbox"/> Spectrum Analyzer Picture	
2	Acquire MDR (60 Mbps PN code) via X1-band	Monitor RF characteristics of X1-band and evaluate link budget.	Evaluation result of X1-band link budget	Data sheet should be attached. <input type="checkbox"/> AGC Level <input type="checkbox"/> BER <input type="checkbox"/> Spectrum Analyzer Picture	
3	Process MRT data to level 0 data of DMS and HK source packet.	Confirm successful completion of level 0 data processing			
4	Send level 0 data of HK source packet to SeaPAC via network	Confirm level 0 data exchange procedure.	Level 0 data (HK source)		

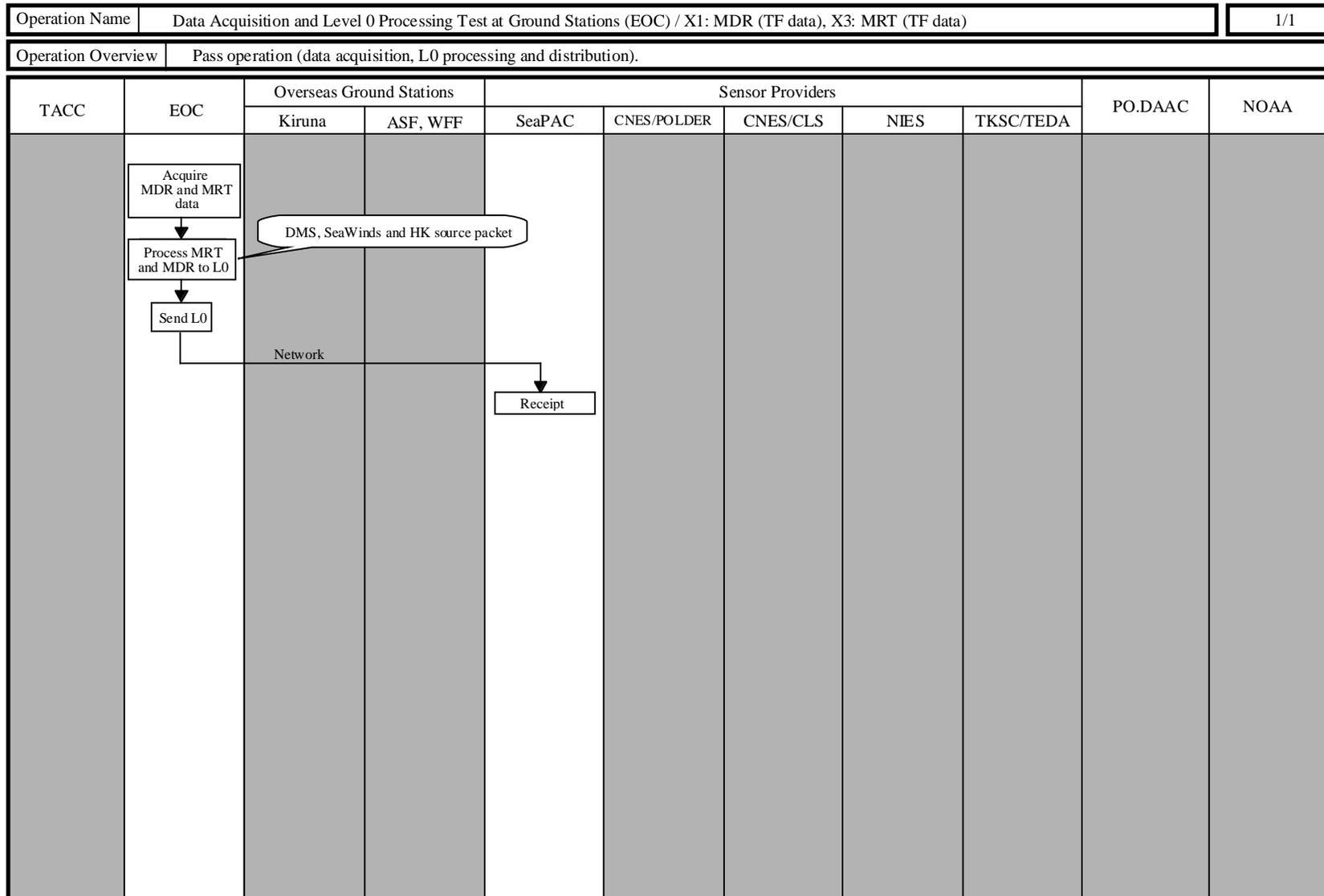
b) SeaPAC

Operation Name	Data Acquisition and Level 0 data Processing Test at Ground Stations / X1: MDR (60 Mbps PN code), X3: MRT (TF data)	Operator	SeaPAC	Operation Date	YYYY/MM/DD (Launch + 11 days)	Target Rev.	
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No.	Procedure	Evaluation	Output	Note	Result
Pass Operation					
1	Receive level 0 data of HK source packet from EOC via network.	Confirm level 0 data exchange procedure. Confirm level 0 data format and readability.			

4.3.2 Data Acquisition Pattern 2 ~ X1: MDR (TF data), X3: MRT (TF data) ~

(1) Operation Flow



(2) Operation Procedure
 a) NASDA/EOC

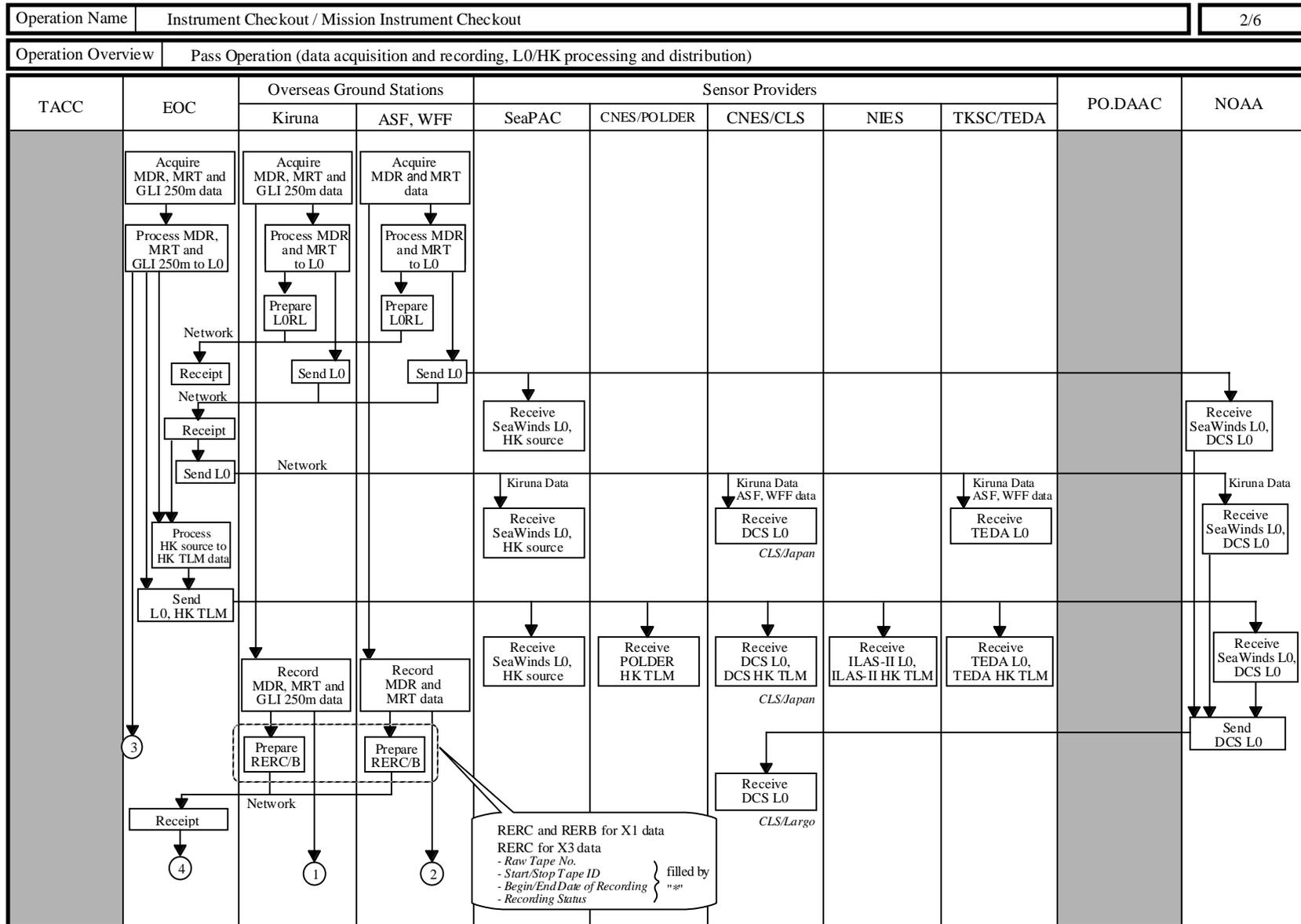
Operation Name	Data Acquisition and Level 0 data Processing Test at Ground Stations / X1: MDR (TF data), X3: MRT (TF data)	Operator	NASDA (EOC)	Operation Date	YYYY/MM/DD (Launch + 32 days)	Target Rev.	
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No.	Procedure	Evaluation	Output	Note	Result
Pass Operation					
1	Acquire MRT data via X3-band.	Monitor RF characteristics of X3-band and evaluated link budget.	Evaluation result of X3-band link budget	Data sheet should be attached. <input type="checkbox"/> AGC Level <input type="checkbox"/> Spectrum Analyzer Picture	
2	Acquire MDR data via X1-band	Monitor RF characteristics of X1-band and evaluated link budget.	Evaluation result of X1-band link budget	Data sheet should be attached. <input type="checkbox"/> AGC Level <input type="checkbox"/> BER <input type="checkbox"/> Spectrum Analyzer Picture	
3	Process MRT and MDR data to level 0 data of DMS, HK source packet and SeaWinds.	Confirm successful completion of level 0 data processing			
4	Send level 0 data of HK source packet and SeaWinds to SeaPAC via network	Confirm level 0 data exchange procedure.	Level 0 data (HK source, SeaWinds)		

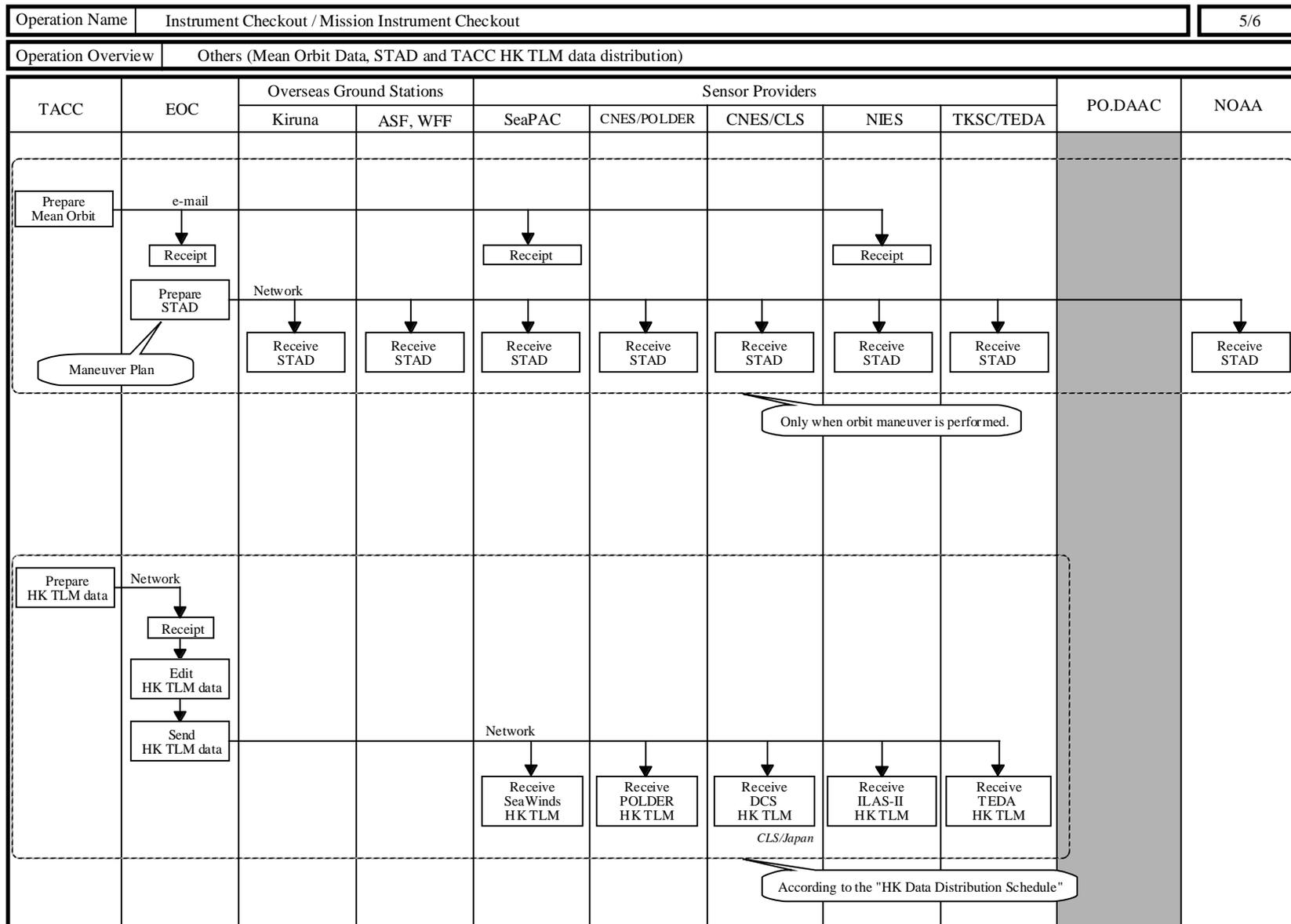
b) SeaPAC

Operation Name	Data Acquisition and Level 0 data Processing Test at Ground Stations / X1: MDR (TF data), X3: MRT (TF data)	Operator	SeaPAC	Operation Date	YYYY/MM/DD (Launch + 32 days)	Target Rev.	
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No.	Procedure	Evaluation	Output	Note	Result
Pass Operation					
1	Receive level 0 data of HK source packet and SeaWinds from EOC via network.	Confirm level 0 data exchange procedure. Confirm level 0 data format and readability.			



Operation Name									Instrument Checkout / Mission Instrument Checkout		4/6
Operation Overview											Post-pass Operation (ORST preparation and distribution)
TACC	EOC	Overseas Ground Stations		Sensor Providers					PO.DAAC	NOAA	
		Kiruna	ASF, WFF	SeaPAC	CNES/POLDER	CNES/CLS	NIES	TKSC/TEDA			
	4 ↓ Prepare ORST	Network	↓	↓	↓	↓	↓	↓	↓	↓	
		Receive ORST	Receive ORST	Receive ORST	Receive ORST	Receive ORST	Receive ORST	Receive ORST		Receive ORST	



Operation Name		Instrument Checkout / Mission Instrument Checkout							5/6	
Operation Overview		Others (Processed DMS Data Distribution)								
TACC	EOC	Overseas Ground Stations		Sensor Providers					PO.DAAC	NOAA
		Kiruna	ASF, WFF	SeaPAC	CNES/POLDER	CNES/CLS	NIES	TKSC/TEDA		
	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">DMS L0 data (MDR, MRT)</div> <div style="text-align: center;">↓</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">Generate Processed DMS data</div> <div style="text-align: center;">↓</div> <div style="border: 1px solid black; padding: 5px;">Send Processed DMS data</div>	<div style="border: 1px solid black; border-radius: 15px; padding: 5px; display: inline-block;">Acquired at EOC, NASA stations and Kiruna station</div>		Network <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="border: 1px solid black; padding: 5px; text-align: center;">Receipt</div> <div style="border: 1px solid black; padding: 5px; text-align: center;">Receipt</div> </div>						

A

(2) Operation Procedure

a) NASA Stations (ASF, WFF)

Operation Name	Instrument Checkout/Mission Instrument Checkout	Operator	ASF, WFF	Operation Date	YYYY/MM/DD (Launch + 34 days ~ 70 days)	Target Path	
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No.	Procedure	Evaluation	Output	Note	Result
Pre-pass Preparation					
1	Receive pass requirement from EOC via Fax or E-mail			Weekly and Daily support request	N/A
2	Reply to pass request via Fax or E-mail.		Reply to pass request		N/A
3	Receive SHAQ and LV0P from EOC via network	Confirm format, readability and file exchange procedure.			
4	Receive EP, ED and TD from EOC via network	Confirm format, readability and file exchange procedure.			
Pass Operation					
5	Acquire MRT data via X3-band.				
6	Acquire MDR data via X1-band				
7	Process MRT data to level 0 data.	Confirm successful completion of level 0 data processing		Target data: <input type="checkbox"/> DCS <input type="checkbox"/> SeaWinds <input type="checkbox"/> DMS	
8	Process MDR data to level 0 data.	Confirm successful completion of level 0 data processing		Target data: <input type="checkbox"/> HK source <input type="checkbox"/> SeaWinds <input type="checkbox"/> AMSR <input type="checkbox"/> DCS <input type="checkbox"/> TEDA <input type="checkbox"/> DMS <input type="checkbox"/> VMS	
9	Send level 0 data to EOC via network.	Confirm level 0 data exchange procedure.	Level 0 data (see right)	Target data: <input type="checkbox"/> HK source <input type="checkbox"/> SeaWinds <input type="checkbox"/> AMSR <input type="checkbox"/> DCS <input type="checkbox"/> TEDA <input type="checkbox"/> DMS <input type="checkbox"/> VMS	
10	Send level 0 data to SeaPAC via network.	Confirm level 0 data exchange procedure.	Level 0 data (see right)	Target data: <input type="checkbox"/> HK source <input type="checkbox"/> SeaWinds	
11	Send level 0 data to NOAA via network.	Confirm level 0 data exchange procedure.	Level 0 data (see right)	Target data: <input type="checkbox"/> DCS <input type="checkbox"/> SeaWinds	
12	Prepare L0RL file.	Confirm successful completion of L0RL preparation.			
13	Send L0RL to EOC via network.	Confirm file exchange procedure.	L0RL		
14	Record MRT data onto D1 cassette	Confirm successful completion of raw data recording.		Only when 3rd HDDR is available.	
15	Record MDR onto D1 cassette.	Confirm successful completion of raw data recording.		Both Master and B/U media.	
16	Prepare RERC file for X3-band data	Confirm successful completion of RERC preparation.		Information for MRT data recording is not necessary.	
17	Prepare RERC and RERB for X1-band data.	Confirm successful completion of RERC and RERB preparation.			
18	Send RERC and RERB to EOC via network.	Confirm file exchange procedure.	RERC, RERB		

No.	Procedure	Evaluation	Output	Note	Result
Post-pass Operation					
19	Ship D1 cassette of raw data (MDR and MRT) to EOC	Confirm media shipment procedure.	Raw data of MDR and MRT	Enclose an invoice for raw data tape of MRT.	
20	Prepare SRRM for raw data tape of X1-band data (MDR).	Confirm successful completion of SRRM preparation.			
21	Send SRRM to EOC via network.	Confirm file exchange procedure.	SRRM		
22	Receive RDRM from EOC via network.	Confirm format, readability and file exchange procedure.		If bad result is reported by RDRM, B/U raw media is shipped.	
23	Receive ORST from EOC via network.	Confirm format, readability and file exchange procedure.			
Others					
24	STAD				
24-1	Receives STAD from EOC via network	Confirm format, readability and file exchange procedure.		Only when orbit maneuver is performed.	

b) Kiruna Station

Operation Name	Instrument Checkout/ Mission Instrument Checkout	Operator	Kiruna Station	Operation Date	YYYY/MM/DD (Launch + 34 days ~ 70 days)	Target Path	
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No.	Procedure	Evaluation	Output	Note	Result
Pre-pass Preparation					
1	Receive pass requirement from EOC via Fax or E-mail			Weekly and Daily support request	N/A
2	Reply to pass request via Fax or E-mail.		Reply to pass request		N/A
3	Receive SHAQ, OPLN, LV0P and EL from EOC via network	Confirm format, readability and file exchange procedure.			
4	Receive EP, ED and TD from EOC via network	Confirm format, readability and file exchange procedure.			
Pass Operation					
5	Acquire MRT data via X3-band.				
6	Acquire MDR data and GLI 250m data via X1-band				
7	Process MRT data to level 0 data.	Confirm successful completion of level 0 data processing		Target data: <input type="checkbox"/> DCS <input type="checkbox"/> SeaWinds <input type="checkbox"/> DMS	
8	Process MDR data to level 0 data.	Confirm successful completion of level 0 data processing		Target data: <input type="checkbox"/> HK source <input type="checkbox"/> SeaWinds <input type="checkbox"/> AMSR <input type="checkbox"/> DCS <input type="checkbox"/> TEDA <input type="checkbox"/> DMS <input type="checkbox"/> VMS	
9	Send level 0 data to EOC via network.	Confirm level 0 data exchange procedure.	Level 0 data (see right)	Target data: <input type="checkbox"/> HK source <input type="checkbox"/> SeaWinds <input type="checkbox"/> AMSR <input type="checkbox"/> DCS <input type="checkbox"/> TEDA <input type="checkbox"/> DMS <input type="checkbox"/> VMS	
10	Prepare L0RL file.	Confirm successful completion of L0RL preparation.			
11	Send L0RL to EOC via network.	Confirm file exchange procedure.	L0RL		
12	Record MRT data onto D1 cassette	Confirm successful completion of raw data recording.			
13	Record MDR and GLI 250m data onto D1 cassette.	Confirm successful completion of raw data recording.		Both Master and B/U media.	
14	Prepare RERC file for X3-band data	Confirm successful completion of RERC preparation.		Information for MRT data recording is not necessary.	
15	Prepare RERC and RERB for X1-band data.	Confirm successful completion of RERC and RERB preparation.			
16	Send RERC and RERB to EOC via network.	Confirm file exchange procedure.	RERC, RERB		

No.	Procedure	Evaluation	Output	Note	Result
Post-pass Operation					
15	Ship D1 cassette of raw data (MRT, MDR and GLI 250m) to EOC	Confirm media shipment procedure.	Raw data of MRT, MDR and GLI 250m	Enclose an invoice for raw data tape of MRT.	
16	Prepare SRRM for raw data tape of X1-band data (MDR and GLI 250m).	Confirm successful completion of SRRM preparation.			
17	Send SRRM to EOC via network.	Confirm file exchange procedure.	SRRM		
18	Receive RDRM from EOC via network.	Confirm format, readability and file exchange procedure.		If bad result is reported by RDRM, B/U raw media is shipped.	
19	Receive ORST from EOC via network.	Confirm format, readability and file exchange procedure.			
Others					
20	STAD				
20-1	Receives STAD from EOC via network	Confirm format, readability and file exchange procedure.		Only when orbit maneuver is performed.	

c) NASDA/EOC

Operation Name	Instrument Checkout/ Mission Instrument Checkout	Operator	NASDA (EOC)	Operation Date	YYYY/MM/DD (Launch + 34 days ~ 70 days)	Target Path	
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No.	Procedure	Evaluation	Output	Note	Result
Pre-pass Preparation					
1	Prepare pass requirement and send it to ASF, WFF and Kiruna station via Fax or E-mail		Pass request	Weekly and Daily support request	N/A
2	Receive reply to pass request from ASF, WFF and Kiruna station via Fax or E-mail.				N/A
3	Prepare SHAQ, OPLN, OPL1, LV0P and EL	Confirm successful completion of SHAQ, OPLN, OPL1, LV0P and EL preparation.			
4	Send SHAQ, OPLN, LV0P and EL file to Kiruna station via network	Confirm file exchange procedure.	SHAQ, OPLN, LV0P and EL		
5	Send SHAQ and LV0P file to ASF and WFF via network	Confirm file exchange procedure.	SHAQ and LV0P		
6	Send OPLN or OPL1 to sensor providers and NOAA via network.	Confirm file exchange procedure.	OPLN or OPL1	OPL1 for CNES/POLDER	
7	Prepare EP, ED and TD.	Confirm successful completion of EP, ED and TD preparation. Evaluate accuracy of orbit data and time difference information.			
8	Send EP, ED and TD file to ASF, WFF, Kiruna station, sensor providers and NOAA via network.	Confirm file exchange procedure.	EP, ED and TD		

No.	Procedure	Evaluation	Output	Note	Result
Pass Operation					
9	Data Acquisition, Level 0 data Processing and Distribution				
9-1	Acquire MRT data via X3-band.				
9-2	Acquire MDR data and GLI 250m data via X1-band				
9-3	Process MRT data to level 0 data.	Confirm successful completion of level 0 data processing.		Target data: <input type="checkbox"/> DCS <input type="checkbox"/> ILAS-II <input type="checkbox"/> SeaWinds <input type="checkbox"/> DMS	
9-4	Process MDR data to level 0 data.	Confirm successful completion of level 0 data processing.		Target data: <input type="checkbox"/> HK source <input type="checkbox"/> SeaWinds <input type="checkbox"/> ILAS-II <input type="checkbox"/> DCS <input type="checkbox"/> TEDA <input type="checkbox"/> AMSR <input type="checkbox"/> GLI 1km <input type="checkbox"/> VMS <input type="checkbox"/> DMS	
9-5	Process GLI 250m data to level 0 data.	Confirm successful completion of level 0 data processing.			
9-6	Send level 0 data to sensor providers and NOAA via network.	Confirm level 0 data exchange procedure.	Level 0 data	Destination: <input type="checkbox"/> To SeaPAC <input type="checkbox"/> To CNES/CLS <input type="checkbox"/> To NIES <input type="checkbox"/> To TKSC/TEDA <input type="checkbox"/> To NOAA	
10	Level 0 Data Receiving from Overseas Stations				
10-1	Receive level 0 data from ASF, WFF and Kiruna station via network.	Confirm level 0 data exchange procedure. Confirm level 0 data format and readability.		Receiving data: <input type="checkbox"/> HK source <input type="checkbox"/> DCS <input type="checkbox"/> AMSR <input type="checkbox"/> VMS <input type="checkbox"/> DMS	
10-2	Receive level 0 data from ASF, WFF and Kiruna station via network.	Confirm level 0 data exchange procedure.		Receiving data: <input type="checkbox"/> SeaWinds <input type="checkbox"/> TEDA	
10-3	Receive LORL from ASF, WFF and Kiruna station via network.	Confirm format, readability and file exchange procedure.			
10-4	Send level 0 data to sensor providers and NOAA via network.	Confirm level 0 data exchange procedure.	Level 0 data	Destination: <input type="checkbox"/> To SeaPAC <input type="checkbox"/> To CNES/CLS <input type="checkbox"/> To TKSC/TEDA <input type="checkbox"/> To NOAA	
11	HK TLM data Processing and Distribution				
11-1	Process HK source packet data to HK TLM data of each sensor.	Confirm successful completion of HK TLM data processing.		Source data: <input type="checkbox"/> EOC <input type="checkbox"/> From Kiruna station <input type="checkbox"/> From ASF <input type="checkbox"/> From WFF	
11-2	Send HK TLM data to sensor providers via network.	Confirm HK TLM data exchange procedure.	HK TLM data		

No.	Procedure	Evaluation	Output	Note	Result
Post-pass Operation					
12	Media Shipment				
12-1	Receive D1 cassette of raw data (MRT, MDR and GLI 250m) from ASF, WFF and Kiruna station.	Confirm media shipment procedure. Confirm raw data format. Evaluate media shipment delay.		Invoice for raw data tape of MRT is enclosed.	
12-2	Receive SRRM from ASF, WFF and Kiruna station.	Confirm format, readability and file exchange procedure.			
12-3	Process raw data media to level 0 data.	Confirm successful completion of level 0 data processing.			
12-4	Prepare RDRM.	Confirm successful completion of RDRM preparation.			
12-5	Send RDRM to ASF, WFF and Kiruna station.	Confirm file exchange procedure.	RDRM		
13 POLDER Level 0 Data Processing and Delivery					
13-1	Edit POLDER level 0 packet data to make POLDER level 0 data of observation unit.	Confirm successful completion of POLDER level 0 data editing.			
13-2	Ship D1 cassette of POLDER level 0 data to CNES/POLDER.	Confirm media shipment procedure.	POLDER level 0 data		
13-3	Prepare SRZD.	Confirm successful completion of SRZD preparation.			
13-4	Send SRZD to CNES/POLDER via network.	Confirm file exchange procedure.	SRZD		
13-5	Receive RDZD from CNES/POLDER via network	Confirm file exchange procedure.			
14 ORST Preparation and Distribution					
14-1	Receive RERC and RERB from ASF, WFF and Kiruna station via network.	Confirm format, readability and file exchange procedure.			
14-2	Prepare ORST.	Confirm successful completion of ORST preparation.			
14-3	Send ORST to all related agencies via network.	Confirm file exchange procedure.		Except for PO.DAAC.	

No.	Procedure	Evaluation	Output	Note	Result
Others					
15	Mean Orbit Data				
15-1	Receive mean orbit data from TACC using e-mail via internet.			Only when orbit maneuver is performed.	N/A
16	STAD				
16-1	Prepare STAD.	Confirm successful completion of STAD preparation.		Only when orbit maneuver is performed.	
16-2	Send STAD to all related agencies via network.	Confirm file exchange procedure.		Except for PO.DAAC.	
17	HK TLM data distribution from TACC				
17-1	Receive HK TLM data from TACC via network.	Confirm HK TLM data exchange procedure.			
17-2	Edit TACC processed HK TLM data.	Confirm successful completion of HK TLM data editing.			
17-3	Send TACC processed HK TLM data to sensor providers via network.	Confirm HK TLM data exchange procedure.	TACC processed HK TLM data		
18	DMS Processed Data Distribution				
18-1	<u>Process DMS level 0 data of MDR to processed DMS data.</u>	<u>Confirm successful completion of DMS data processing.</u>		Source data: <input type="checkbox"/> EOC <input type="checkbox"/> From Kiruna station <input type="checkbox"/> From ASF <input type="checkbox"/> From WFF	
18-2	<u>Process DMS level 0 data of MRT to processed DMS data.</u>	<u>Confirm successful completion of DMS data processing.</u>		Source data: <input type="checkbox"/> EOC <input type="checkbox"/> From Kiruna station <input type="checkbox"/> From ASF <input type="checkbox"/> From WFF	
18-3	<u>Send the processed DMS data to SeaPAC and CNES/POLDER</u>	<u>Confirm processed DMS data exchange procedure.</u>	Processed DMS data	Destination: <input type="checkbox"/> To SeaPAC <input type="checkbox"/> To CNES/POLDER	

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d) SeaPAC

Operation Name	Instrument Checkout/ Mission Instrument Checkout	Operator	SeaPAC	Operation Date	YYYY/MM/DD (Launch + 34 days ~ 70 days)	Target Path	
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No.	Procedure	Evaluation	Output	Note	Result
Pre-pass Preparation					
1	Receive OPLN from EOC via network	Confirm format, readability and file exchange procedure.			
2	Receive EP, ED and TD from EOC via network	Confirm format, readability and file exchange procedure.			
Pass Operation					
3	Receive level 0 data of HK source packet and SeaWinds from ASF and WFF via network.	Confirm level 0 data exchange procedure. Confirm level 0 data format and readability.		Data Acquisition Station: <input type="checkbox"/> ASF <input type="checkbox"/> WFF	
4	Receive level 0 data of HK source packet and SeaWinds from EOC.	Confirm level 0 data exchange procedure. Confirm level 0 data format and readability.		Data Acquisition Station: <input type="checkbox"/> EOC <input type="checkbox"/> Kiruna station	
Post-pass Operation					
5	Receive ORST from EOC via network.	Confirm format, readability and file exchange procedure.			
Others					
6	Mean Orbit Data				
6-1	Receive mean orbit data from TACC using e-mail via internet.	Confirm format, readability and file exchange procedure.		Only when orbit maneuver is performed.	
7	STAD				
7-1	Receives STAD from EOC via network	Confirm format, readability and file exchange procedure.		Only when orbit maneuver is performed.	
8	HK TLM Distribution from TACC				
8-1	Receive TACC processed HK TLM data of SeaWinds from EOC via network.	Confirm HK TLM data exchange procedure. Confirm HK TLM data format and readability.			
9	<u>DMS Processed Data Distribution</u>				
9-1	<u>Receive processed DMS data from EOC.</u>	<u>Confirm processed DMS data exchange procedure.</u> <u>Confirm processed DMS data format and readability.</u>			

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e) CNES/POLDER

Operation Name	Instrument Checkout/ Mission Instrument Checkout	Operator	CNES/POLDER	Operation Date	YYYY/MM/DD (Launch + 34 days ~ 70 days)	Target Path	
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No.	Procedure	Evaluation	Output	Note	Result
Pre-pass Preparation					
1	Receive OPL1 from EOC via network	Confirm format, readability and file exchange procedure.			
2	Receive EP, ED and TD from EOC via network	Confirm format, readability and file exchange procedure.			
Pass Operation					
3	Receive HK TLM data of POLDER from EOC via network.	Confirm HK TLM data exchange procedure. Confirm HK TLM data format and readability.			
Post-pass Operation					
4	Receive D1 cassette of POLDER level 0 data from EOC.	Confirm media shipment procedure. Confirm level 0 data format and readability. Evaluate media shipment delay.			
5	Receive SRZD from EOC via network.	Confirm format, readability and file exchange procedure.			
6	Prepare RDZD.	Confirm successful completion of RDZD preparation.			
7	Send RDZD to EOC via network.	Confirm file exchange procedure.	RDZD		
8	Receive ORST from EOC via network.	Confirm format, readability and file exchange procedure.			
Others					
9	STAD				
9-1	Receives STAD from EOC via network	Confirm format, readability and file exchange procedure.		Only when orbit maneuver is performed.	
10	HK TLM Distribution from TACC				
10-1	Receive TACC processed HK TLM data of POLDER from EOC via network.	Confirm HK TLM data exchange procedure. Confirm HK TLM data format and readability.			
11	DMS Processed Data Distribution				
11-1	Receive processed DMS data from EOC.	Confirm processed DMS data exchange procedure. Confirm processed DMS data format and readability.			

f) CNES/CLS

Operation Name	Instrument Checkout/ Mission Instrument Checkout	Operator	CNES/CLS	Operation Date	YYYY/MM/DD (Launch + 34 days ~ 70 days)	Target Path	
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No.	Procedure	Evaluation	Output	Note	Result
Pre-pass Preparation					
1	Receive OPLN from EOC via network	Confirm format, readability and file exchange procedure.			
2	Receive EP, ED and TD from EOC via network	Confirm format, readability and file exchange procedure.			
Pass Operation					
3	Receive level 0 data of DCS from EOC via network.	Confirm level 0 data exchange procedure. Confirm level 0 data format and readability.		Receiver: CLS/Japan Data Acquisition Station: <input type="checkbox"/> EOC <input type="checkbox"/> Kiruna station <input type="checkbox"/> ASF <input type="checkbox"/> WFF	
4	Receive level 0 data of DCS from NOAA via network.	Confirm level 0 data exchange procedure. Confirm level 0 data format and readability.		Receiver: CLS/Largo Data Acquisition Station: <input type="checkbox"/> EOC <input type="checkbox"/> Kiruna station <input type="checkbox"/> ASF <input type="checkbox"/> WFF	
5	Receive HK TLM data of DCS from EOC via network.	Confirm HK TLM data exchange procedure. Confirm HK TLM data format and readability.		Receiver: CLS/Japan	
Post-pass Operation					
6	Receive ORST from EOC via network.	Confirm format, readability and file exchange procedure.			
Others					
7	STAD				
7-1	Receives STAD from EOC via network	Confirm format, readability and file exchange procedure.		Only when orbit maneuver is performed.	
8	HK TLM Distribution from TACC				
8-1	Receive TACC processed HK TLM data of DCS from EOC via network.	Confirm HK TLM data exchange procedure. Confirm HK TLM data format and readability.		Receiver: CLS/Japan	

g) NIES

Operation Name	Instrument Checkout/ Mission Instrument Checkout	Operator	NIES	Operation Date	YYYY/MM/DD (Launch + 34 days ~ 70 days)	Target Path	
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No.	Procedure	Evaluation	Output	Note	Result
Pre-pass Preparation					
1	Receive OPLN from EOC via network	Confirm format, readability and file exchange procedure.			
2	Receive EP, ED and TD from EOC via network	Confirm format, readability and file exchange procedure.			
Pass Operation					
3	Receive level 0 data of ILAS-II from EOC via network.	Confirm level 0 data exchange procedure. Confirm level 0 data format and readability.			
4	Receive HK TLM data of ILAS-II from EOC via network.	Confirm HK TLM data exchange procedure. Confirm HK TLM data format and readability.			
Post-pass Operation					
5	Receive ORST from EOC via network.	Confirm format, readability and file exchange procedure.			
Others					
6	Mean Orbit Data				
6-1	Receive mean orbit data from TACC using e-mail via internet.	Confirm format, readability and file exchange procedure.		Only when orbit maneuver is performed.	
7	STAD				
7-1	Receives STAD from EOC via network	Confirm format, readability and file exchange procedure.		Only when orbit maneuver is performed.	
8	HK TLM Distribution from TACC				
8-1	Receive TACC processed HK TLM data of ILAS-II from EOC via network.	Confirm HK TLM data exchange procedure. Confirm HK TLM data format and readability.			

h) TKSC/TEDA

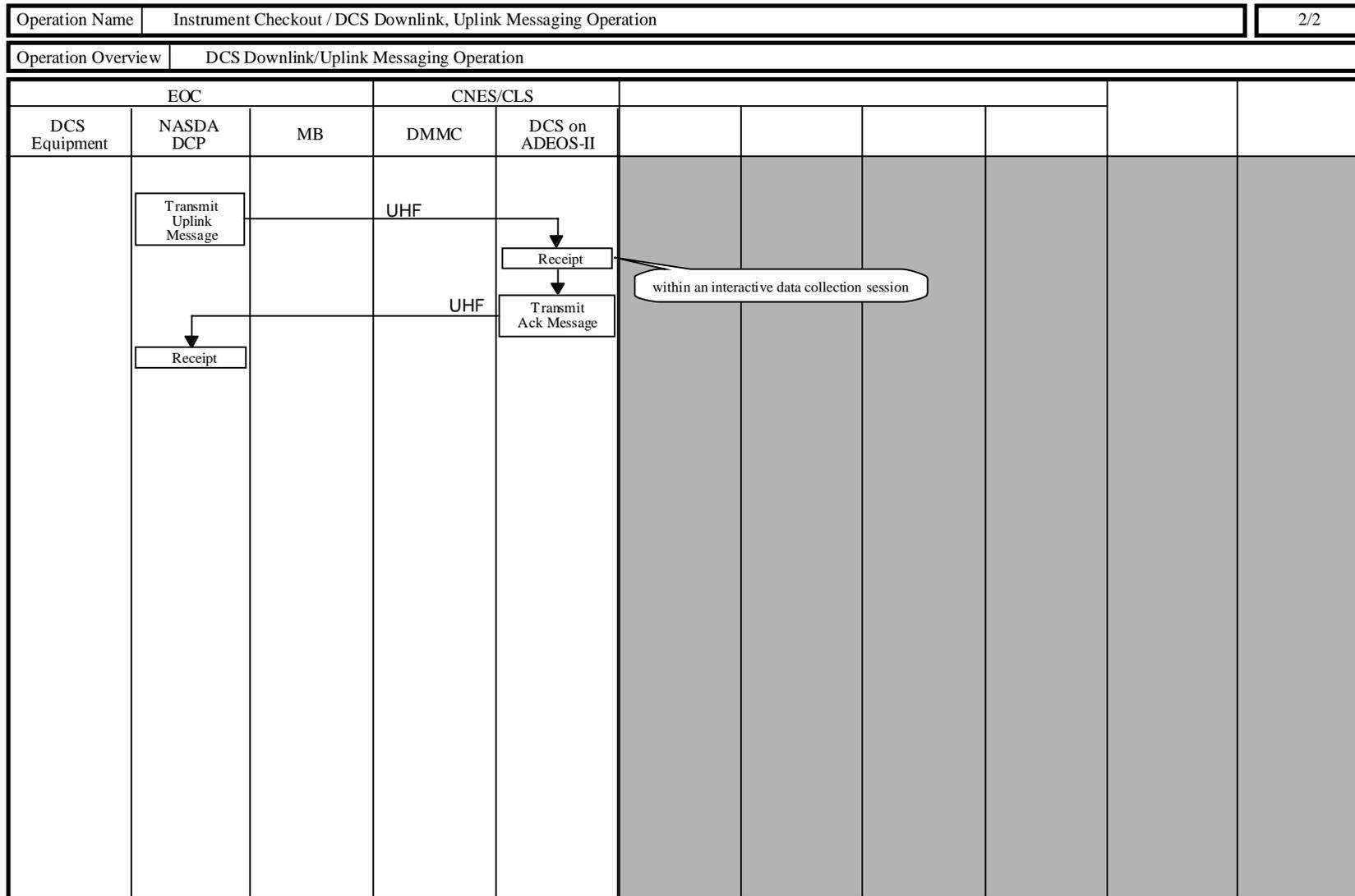
Operation Name	Instrument Checkout/ Mission Instrument Checkout	Operator	TEDA	Operation Date	YYYY/MM/DD (Launch + 34 days ~ 70 days)	Target Path	
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No.	Procedure	Evaluation	Output	Note	Result
Pre-pass Preparation					
1	Receive OPLN from EOC via network	Confirm format, readability and file exchange procedure.			
2	Receive EP, ED and TD from EOC via network	Confirm format, readability and file exchange procedure.			
Pass Operation					
3	Receive level 0 data of TEDA from EOC via network.	Confirm level 0 data exchange procedure. Confirm level 0 data format and readability.		Data Acquisition Station: <input type="checkbox"/> EOC <input type="checkbox"/> Kiruna station <input type="checkbox"/> ASF <input type="checkbox"/> WFF	
4	Receive HK TLM data of TEDA from EOC via network.	Confirm HK TLM data exchange procedure. Confirm HK TLM data format and readability.			
Post-pass Operation					
5	Receive ORST from EOC via network.	Confirm format, readability and file exchange procedure.			
Others					
6	STAD				
6-1	Receives STAD from EOC via network	Confirm format, readability and file exchange procedure.		Only when orbit maneuver is performed.	
6	Receive TACC processed HK TLM data of TEDA from EOC via network.	Confirm HK TLM data exchange procedure. Confirm HK TLM data format and readability.			

i) NOAA

Operation Name	Instrument Checkout/ Mission Instrument Checkout	Operator	NOAA	Operation Date	YYYY/MM/DD (Launch + 34 days ~ 70 days)	Target Path	
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No.	Procedure	Evaluation	Output	Note	Result
Pre-pass Preparation					
1	Receive OPLN from EOC via network	Confirm format, readability and file exchange procedure.			
2	Receive EP, ED and TD from EOC via network	Confirm format, readability and file exchange procedure.			
Pass Operation					
3	Receive level 0 data of DCS from EOC via network.	Confirm level 0 data exchange procedure.		Data Acquisition Station: <input type="checkbox"/> EOC <input type="checkbox"/> Kiruna station	
4	Receive level 0 data of SeaWinds from EOC via network.	Confirm level 0 data exchange procedure. Confirm level 0 data format and readability.		Data Acquisition Station: <input type="checkbox"/> EOC <input type="checkbox"/> Kiruna station	
5	Receive level 0 data of DCS from ASF and WFF via network.	Confirm level 0 data exchange procedure.		Data Acquisition Station: <input type="checkbox"/> ASF <input type="checkbox"/> WFF	
6	Receive level 0 data of SeaWinds from ASF and WFF via network.	Confirm level 0 data exchange procedure. Confirm level 0 data format and readability.		Data Acquisition Station: <input type="checkbox"/> ASF <input type="checkbox"/> WFF	
7	Send level 0 data of DCS to CLS/Largo via network.	Confirm level 0 data exchange procedure.	DCS level 0 data		
Post-pass Operation					
8	Receive ORST from EOC via network.	Confirm format, readability and file exchange procedure.			
Others					
9	STAD				
9-1	Receives STAD from EOC via network	Confirm format, readability and file exchange procedure.		Only when orbit maneuver is performed.	



(2) Operation Procedure

a) NASDA/EOC

Operation Name	Instrument Checkout /DCS Downlink, Uplink Messaging Operation	Operator	NASDA (EOC)	Operation Date	YYYY/MM/DD (Launch + 109 days ~ 115 days)	Target Path	
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No.	Procedure	Evaluation	Output	Note	Result
Downlink Messaging Operation					
1	DCS Equipment Operation				
1-1	Prepare Downlink Messaging Request (DMR).	Confirm successful completion of DMR preparation.			
1-2	Send DMR to DMMC via internet	Confirm file exchange procedure.	DMR		
1-3	Receive answer to request (DMRR) from DMMC using e-mail via internet.	Confirm format, readability and e-mail exchange procedure.			
1-4	Receive request status (DMRS) from DMMC using e-mail via internet.	Confirm format, readability and e-mail exchange procedure.			
2	Master Beacon (MB) Operation				
2-1	Receive Downlink Message (DM) from DMMC via network.	Confirm file exchange procedure.			
2-2	Transmit DM from MB at EOC to DCS instrument on ADEOS-II via UHF.	Confirm successful transmission of DM from MB to DCS using DMMC and the corresponding level 0 data			
3	NASDA DCP Operation				
3-1	Receive DM from DCS instrument on ADEOS-II via UHF.	Confirm successful reception of DM from DCS by NASDA DCP. EIRP of UHF transmitter on DCS instrument is measured.	Measuring result of EIRP		
3-2	Transmit Ack message to DCS instrument on ADEOS-II via UHF.	Confirm successful completion of uplink message transmission.			
Uplink Messaging Operation					
4	NASDA DCP Operation				
4-1	Transmit Uplink Message to DCS instrument on ADEOS-II via UHF within an interactive data collection session.	Confirm successful transmission of UM from NASDA DCP using the corresponding level 0 data.			
4-2	Receive Ack message from DCS instrument on ADEOS-II via UHF.	Confirm successful reception of Ack message from DCS. And EIRP of UHF transmitter on DCS instrument is measured.	Measuring result of EIRP		

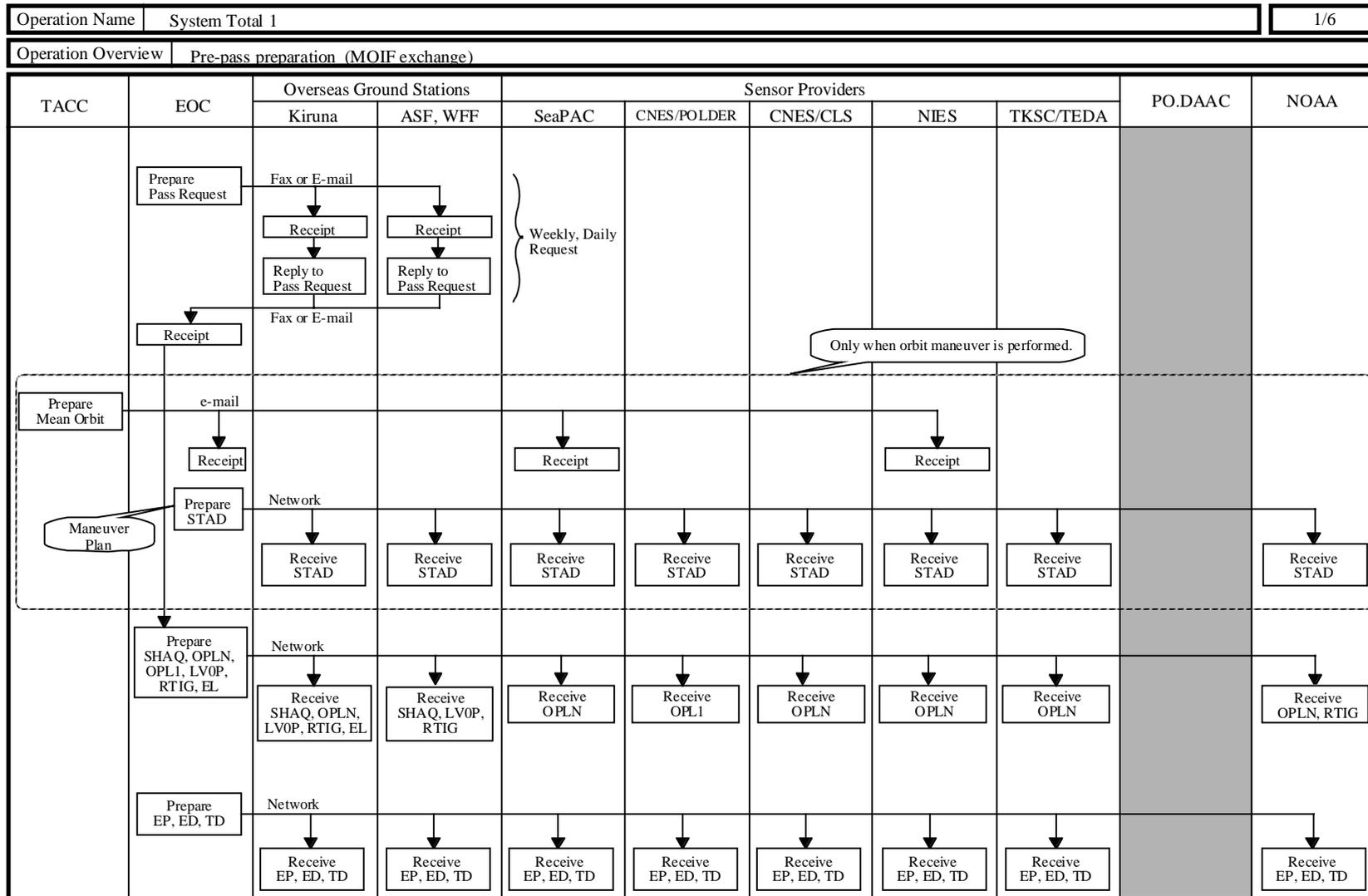
b) CNES/CLS

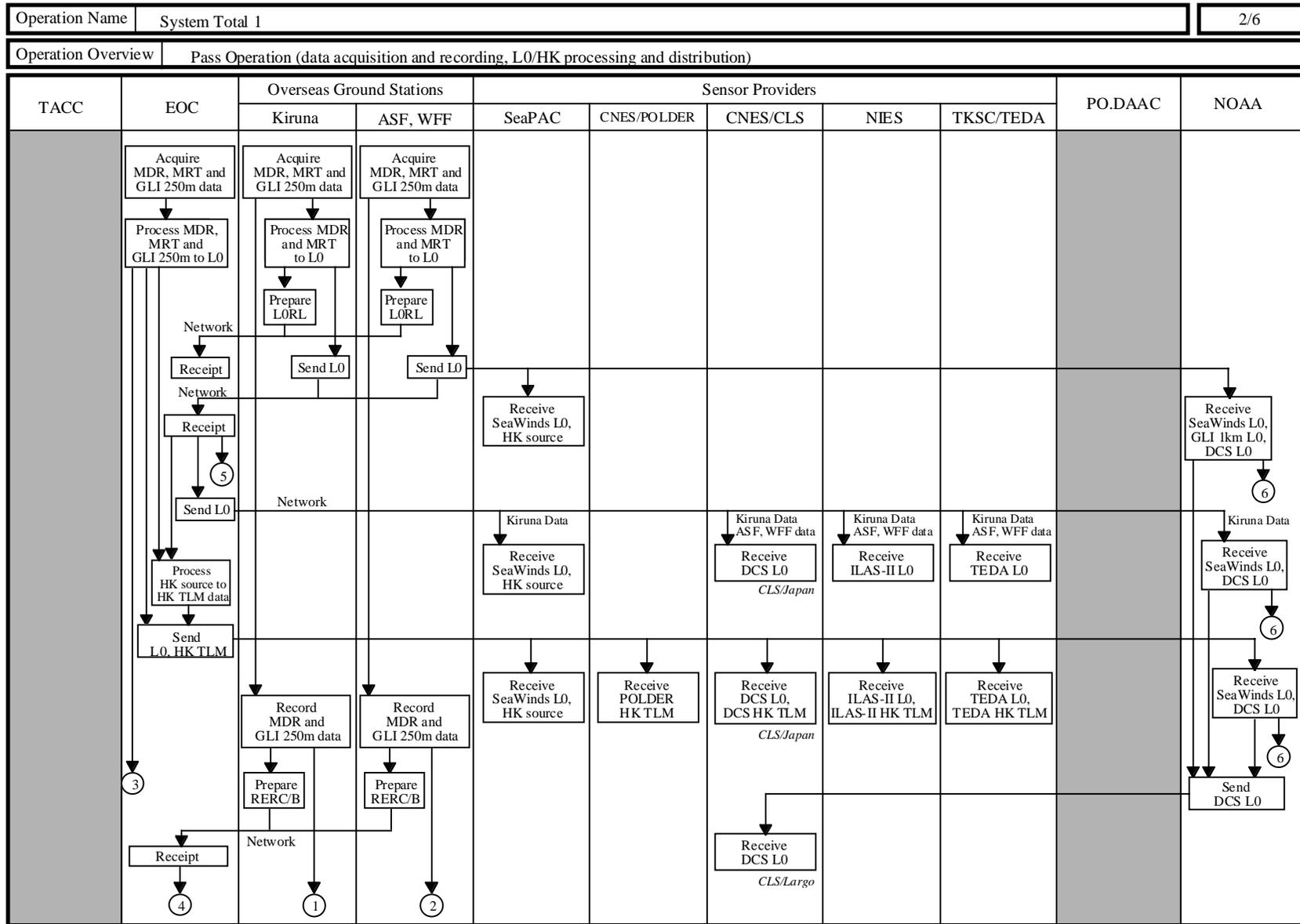
Operation Name	Instrument Checkout /DCS Downlink, Uplink Messaging Operation	Operator	CNES/CLS	Operation Date	YYYY/MM/DD (Launch + 109 days ~ 115 days)	Target Path	
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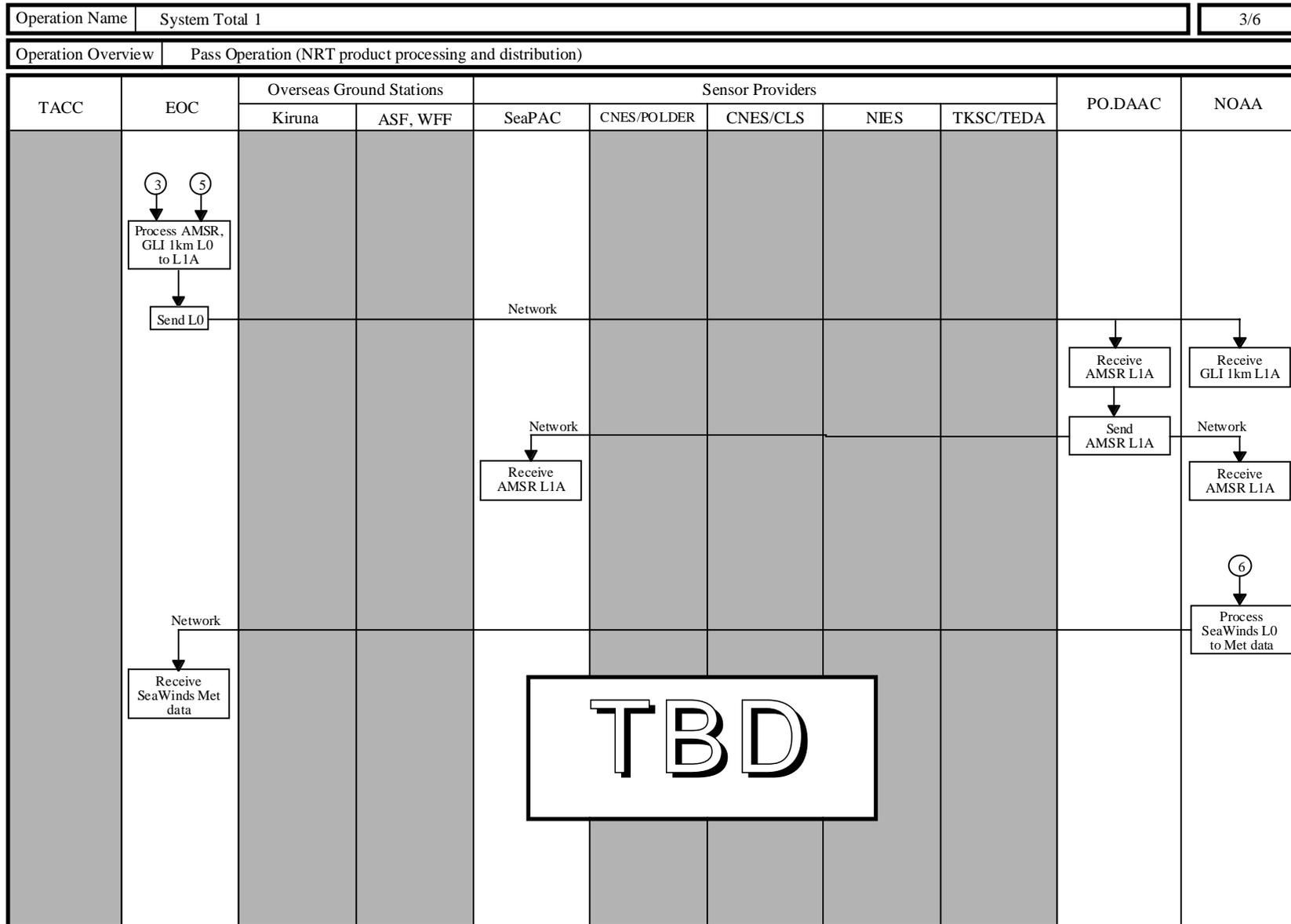
No.	Procedure	Evaluation	Output	Note	Result
Downlink Messaging Operation					
1	DMMC Operation				
1-1	Receive DMR from EOC via internet.	Confirm format, readability and file exchange procedure.			
1-2	Prepare answer to request (DMRR)	Confirm successful completion of DMRR preparation.			
1-3	Send DMRR to EOC using e-mail via internet.	Confirm e-mail exchange procedure.			
1-4	Send DM to MB at EOC via network.	Confirm file exchange procedure.			
1-5	Prepare request status (DMRS).	Confirm NASDA DCP receives DM from DCS instrument on ADEOS-II.			
1-6	Send DMRS to EOC using e-mail via internet.	Confirm e-mail exchange procedure.			

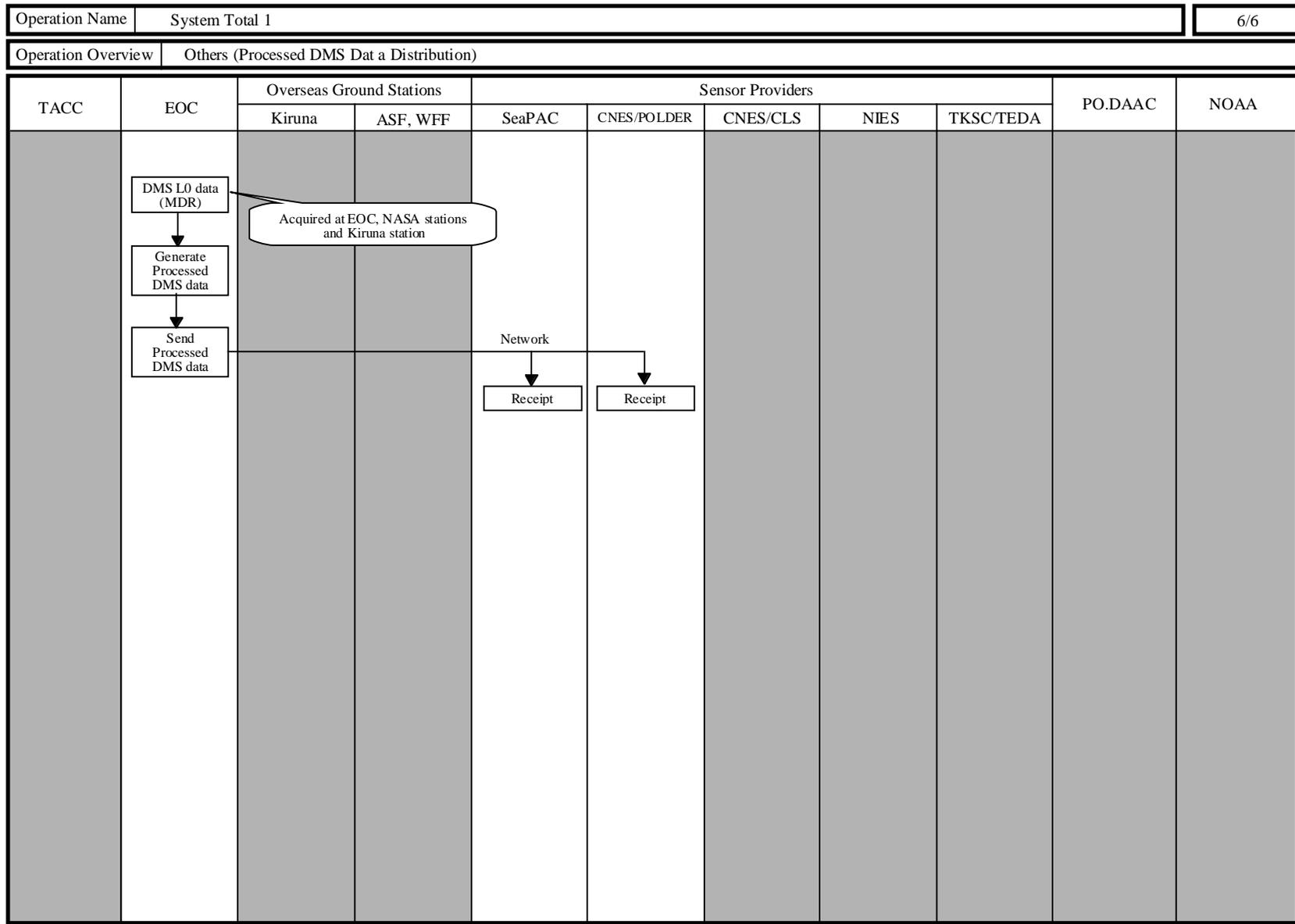
4.5 System Total 1

(1) Operation Flow









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(2) Operation Procedure

a) NASA Stations (ASF, WFF)

Operation Name	System Total 1	Operator	ASF, WFF	Operation Date	YYYY/MM/DD (Launch + 99 days ~ 102 days)	Target Path	
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No.	Procedure	Evaluation	Output	Note	Result
Pre-pass Preparation					
1	Receive pass requirement from EOC via Fax or E-mail			Weekly and Daily support request	N/A
2	Reply to pass request via Fax or E-mail.		Reply to pass request		N/A
3	Receive SHAQ, LVOP and RTIG from EOC via network	Confirm format, readability and file exchange procedure.			
4	Receive EP, ED and TD from EOC via network	Confirm format, readability and file exchange procedure.			
Pass Operation					
5	Acquire MRT data via X3-band.				
6	Acquire MDR data and GLI 250m data via X1-band				
7	Process MRT data to level 0 data.	Confirm successful completion of level 0 data processing		Target data: <input type="checkbox"/> DCS <input type="checkbox"/> GLI 1km (subset)	
8	Process MDR data to level 0 data.	Confirm successful completion of level 0 data processing		Target data: <input type="checkbox"/> HK source <input type="checkbox"/> SeaWinds <input type="checkbox"/> AMSR <input type="checkbox"/> DCS <input type="checkbox"/> TEDA <input type="checkbox"/> DMS <input type="checkbox"/> VMS <input type="checkbox"/> GLI 1km (subset)	
9	Send level 0 data to EOC via network.	Confirm level 0 data exchange procedure.	Level 0 data (see right)	Target data: <input type="checkbox"/> HK source <input type="checkbox"/> SeaWinds <input type="checkbox"/> AMSR <input type="checkbox"/> DCS <input type="checkbox"/> TEDA <input type="checkbox"/> DMS <input type="checkbox"/> VMS	
10	Send level 0 data to SeaPAC via network.	Confirm level 0 data exchange procedure.	Level 0 data (see right)	Target data: <input type="checkbox"/> HK source <input type="checkbox"/> SeaWinds	
11	Send level 0 data to NOAA via network.	Confirm level 0 data exchange procedure.	Level 0 data (see right)	Target data: <input type="checkbox"/> DCS <input type="checkbox"/> SeaWinds <input type="checkbox"/> GLI 1km (subset)	
12	Prepare L0RL file.	Confirm successful completion of L0RL preparation.			
13	Send L0RL to EOC via network.	Confirm file exchange procedure.	L0RL		
14	Record MDR and GLI 250m data onto D1 cassette.	Confirm successful completion of raw data recording.		Both Master and B/U media.	
15	Prepare RERC and RERB for X1-band data.	Confirm successful completion of RERC and RERB preparation.			
16	Send RERC and RERB to EOC via network.	Confirm file exchange procedure.	RERC, RERB		

No.	Procedure	Evaluation	Output	Note	Result
Post-pass Operation					
17	Ship D1 cassette of raw data (MDR and GLI 250m) to EOC	Confirm media shipment procedure.	Raw data of MDR and GLI 250m		
18	Prepare SRRM	Confirm successful completion of SRRM preparation.			
19	Send SRRM to EOC via network.	Confirm file exchange procedure.			
20	Receive RDRM from EOC via network.	Confirm format, readability and file exchange procedure.		If bad result is reported by RDRM, B/U raw media is shipped.	
21	Receive ORST from EOC via network.	Confirm format, readability and file exchange procedure.			
Others					
22	STAD				
22-1	Receives STAD from EOC via network	Confirm format, readability and file exchange procedure.		Only when orbit maneuver is performed.	

b) Kiruna Station

Operation Name	System Total 1	Operator	Kiruna Station	Operation Date	YYYY/MM/DD (Launch + 99 days ~ 102 days)	Target Path	
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No.	Procedure	Evaluation	Output	Note	Result
Pre-pass Preparation					
1	Receive pass requirement from EOC via Fax or E-mail			Weekly and Daily support request	N/A
2	Reply to pass request via Fax or E-mail.		Reply to pass request		N/A
3	Receive SHAQ, OPLN, LVOP, RTIG and EL from EOC via network	Confirm format, readability and file exchange procedure.			
4	Receive EP, ED and TD from EOC via network	Confirm format, readability and file exchange procedure.			
Pass Operation					
5	Acquire MRT data via X3-band.				
6	Acquire MDR data and GLI 250m data via X1-band				
7	Process MRT data to level 0 data.	Confirm successful completion of level 0 data processing		Target data: <input type="checkbox"/> DCS	
8	Process MDR data to level 0 data.	Confirm successful completion of level 0 data processing		Target data: <input type="checkbox"/> HK source <input type="checkbox"/> SeaWinds <input type="checkbox"/> AMSR <input type="checkbox"/> DCS <input type="checkbox"/> TEDA <input type="checkbox"/> DMS <input type="checkbox"/> VMS <input type="checkbox"/> GLI 1km (subset)	
9	Send level 0 data to EOC via network.	Confirm level 0 data exchange procedure.	Level 0 data (see right)	Target data: <input type="checkbox"/> HK source <input type="checkbox"/> SeaWinds <input type="checkbox"/> AMSR <input type="checkbox"/> DCS <input type="checkbox"/> TEDA <input type="checkbox"/> DMS <input type="checkbox"/> VMS <input type="checkbox"/> GLI 1km (subset)	
10	Prepare L0RL file.	Confirm successful completion of L0RL preparation.			
11	Send L0RL to EOC via network.	Confirm file exchange procedure.	L0RL		
12	Record MDR and GLI 250m data onto D1 cassette.	Confirm successful completion of raw data recording.		Both Master and B/U media.	
13	Prepare RERC and RERB for X1-band data.	Confirm successful completion of RERC and RERB preparation.			
14	Send RERC and RERB to EOC via network.	Confirm file exchange procedure.	RERC, RERB		

No.	Procedure	Evaluation	Output	Note	Result
Post-pass Operation					
15	Ship D1 cassette of raw data (MDR and GLI 250m) to EOC	Confirm media shipment procedure.	Raw data of MDR and GLI 250m		
16	Prepare SRRM	Confirm successful completion of SRRM preparation.			
17	Send SRRM to EOC via network.	Confirm file exchange procedure.			
18	Receive RDRM from EOC via network.	Confirm format, readability and file exchange procedure.		If bad result is reported by RDRM, B/U raw media is shipped.	
19	Receive ORST from EOC via network.	Confirm format, readability and file exchange procedure.			
Others					
20	STAD				
20-1	Receives STAD from EOC via network	Confirm format, readability and file exchange procedure.		Only when orbit maneuver is performed.	

c) NASDA/EOC

Operation Name	System Total 1	Operator	NASDA (EOC)	Operation Date	YYYY/MM/DD (Launch + 99 days ~ 102 days)	Target Path	
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No.	Procedure	Evaluation	Output	Note	Result
Pre-pass Preparation					
1	Prepare pass requirement and send it to ASF, WFF and Kiruna station via Fax or E-mail		Pass request	Weekly and Daily support request	N/A
2	Receive reply to pass request from ASF, WFF and Kiruna station via Fax or E-mail.				N/A
3	Receive mean orbit data from TACC using e-mail via internet.			Only when orbit maneuver is performed.	N/A
4	Prepare SHAQ, OPLN, OPL1, LV0P, RTIG and EL	Confirm successful completion of SHAQ, OPLN, OPL1, LV0P, RTIG and EL preparation. Confirm file preparation is completed by due date.			
5	Send SHAQ, OPLN, LV0P, RTIG and EL file to Kiruna station via network	Confirm file exchange procedure.	SHAQ, OPLN, LV0P, RTIG and EL		
6	Send SHAQ, LV0P and RTIG file to ASF and WFF via network	Confirm file exchange procedure.	SHAQ, LV0P and RTIG		
7	Send OPLN or OPL1 to sensor providers via network.	Confirm file exchange procedure.	OPLN or OPL1	OPL1 for CNES/POLDER	
8	Send OPLN and RTIG to NOAA via network.	Confirm file exchange procedure.	OPLN and RTIG		
9	Prepare EP, ED and TD.	Confirm successful completion of EP, ED and TD preparation. Confirm file preparation is completed by due date.			
10	Send EP, ED and TD file to ASF, WFF, Kiruna station, sensor providers and NOAA via network.	Confirm file exchange procedure.	EP, ED and TD		

No.	Procedure	Evaluation	Output	Note	Result
Pass Operation					
11	Data Acquisition, Level 0 data Processing and Distribution				
11-1	Acquire MRT data via X3-band.				
11-2	Acquire MDR data and GLI 250m data via X1-band				
11-3	Process MRT data to level 0 data.	Confirm successful completion of level 0 data processing.		Target data: <input type="checkbox"/> DCS <input type="checkbox"/> ILAS-II	
11-4	Process MDR data to level 0 data.	Confirm successful completion of level 0 data processing.		Target data: <input type="checkbox"/> HK source <input type="checkbox"/> SeaWinds <input type="checkbox"/> ILAS-II <input type="checkbox"/> DCS <input type="checkbox"/> TEDA <input type="checkbox"/> AMSR <input type="checkbox"/> GLI 1km <input type="checkbox"/> VMS <input type="checkbox"/> DMS	
11-5	Process GLI 250m data to level 0 data.	Confirm successful completion of level 0 data processing.			
11-6	Send level 0 data to sensor providers and NOAA via network.	Confirm level 0 data exchange procedure.	Level 0 data	Destination: <input type="checkbox"/> To SeaPAC <input type="checkbox"/> To CNES/CLS <input type="checkbox"/> To NIES <input type="checkbox"/> To TKSC/TEDA <input type="checkbox"/> To NOAA	
12	Level 0 Data Receiving from Overseas Stations				
12-1	Receive level 0 data from ASF, WFF and Kiruna station via network.	Confirm level 0 data exchange procedure. Confirm level 0 data format and readability. Evaluate level 0 data delivery delay.		Receiving data: <input type="checkbox"/> HK source <input type="checkbox"/> DCS <input type="checkbox"/> AMSR <input type="checkbox"/> VMS <input type="checkbox"/> DMS	
12-2	Receive level 0 data from ASF, WFF and Kiruna station via network.	Confirm level 0 data exchange procedure. Evaluate level 0 data delivery delay.		Receiving data: <input type="checkbox"/> SeaWinds <input type="checkbox"/> TEDA	
12-3	Receive LORL from ASF, WFF and Kiruna station via network.	Confirm format, readability and file exchange procedure.			
12-4	Send level 0 data to sensor providers and NOAA via network.	Confirm level 0 data exchange procedure.	Level 0 data	Destination: <input type="checkbox"/> To SeaPAC <input type="checkbox"/> To CNES/CLS <input type="checkbox"/> To TKSC/TEDA <input type="checkbox"/> To NOAA	
13	HK TLM data Processing and Distribution				
13-1	Process HK source packet data to HK TLM data of each sensor.	Confirm successful completion of HK TLM data processing.		Source data: <input type="checkbox"/> EOC <input type="checkbox"/> From Kiruna station <input type="checkbox"/> From ASF <input type="checkbox"/> From WFF	
13-2	Send HK TLM data to sensor providers via network.	Confirm HK TLM data exchange procedure.	HK TLM data		

No.	Procedure	Evaluation	Output	Note	Result
Pass Operation (cont'd)					
14	NRT Product Processing and Distribution (AMSR Level 1A)				
14-1	Process level 0 data of AMSR to level 1A product.	Confirm successful completion of AMSR level 1A product processing.		Source data: <input type="checkbox"/> EOC <input type="checkbox"/> From Kiruna station <input type="checkbox"/> From ASF <input type="checkbox"/> From WFF	
14-2	Send AMSR level 1A data to PO.DAAC via network	Confirm level 1A product exchange procedure.	AMSR level 1A		
15	NRT Product Processing and Distribution (GLI 1km Level 1A (selected areas and bands of interest to NOAA))				
15-1	Process level 0 data of GLI 1km to level 1A product.	Confirm successful completion of GLI 1km level 1A product processing.		Source data: <input type="checkbox"/> EOC <input type="checkbox"/> From Kiruna station	
15-2	Send GLI 1km level 1A product to NOAA via network	Confirm level 1A product exchange procedure.	GLI 1km level 1A		
16	NRT Product Processing and Distribution (SeaWinds Met data)				
16-1	Receive SeaWinds Met data from NOAA via network.	Confirm Met data exchange procedure.			

TBD

No.	Procedure	Evaluation	Output	Note	Result
Post-pass Operation					
16	Media Shipment and				
16-1	Receive D1 cassette of raw data (MDR and GLI 250m) from ASF, WFF and Kiruna station.	Confirm media shipment procedure. Confirm raw data format. Evaluate media shipment delay.			
16-2	Receive SRRM from ASF, WFF and Kiruna station.	Confirm format, readability and file exchange procedure.			
16-3	Process raw data media to level 0 data.	Confirm successful completion of level 0 data processing.			
16-4	Prepare RDRM.	Confirm successful completion of RDRM preparation.			
16-5	Send RDRM to ASF, WFF and Kiruna station.	Confirm file exchange procedure.	RDRM		
17	POLDER Level 0 Data Processing and Delivery				
17-1	Edit POLDER level 0 packet data to make POLDER level 0 data of observation unit.	Confirm successful completion of POLDER level 0 data editing.			
17-2	Ship D1 cassette of POLDER level 0 data to CNES/POLDER.	Confirm media shipment procedure.	POLDER level 0 data		
17-3	Prepare SRZD.	Confirm successful completion of SRZD preparation.			
17-4	Send SRZD to CNES/POLDER via network.	Confirm file exchange procedure.	SRZD		
17-5	Receive RDZD from CNES/POLDER via network	Confirm file exchange procedure.			
18	ORST Preparation and Distribution				
18-1	Receive RERC and RERB from ASF, WFF and Kiruna station via network.	Confirm format, readability and file exchange procedure.			
18-2	Prepare ORST.	Confirm successful completion of ORST preparation. Confirm file preparation is completed by due date.			
18-3	Send ORST to all related agencies via network.	Confirm file exchange procedure.		Except for PO.DAAC.	

No.	Procedure	Evaluation	Output	Note	Result
Others					
19	STAD				
19-1	Prepare STAD.	Confirm successful completion of STAD preparation.		Only when orbit maneuver is performed.	
19-2	Send STAD to all related agencies via network.	Confirm file exchange procedure.		Except for PO.DAAC.	
20	DMS Processed Data Distribution				
20-1	<u>Process DMS level 0 data of MDR to processed DMS data.</u>	<u>Confirm successful completion of DMS data processing.</u>		Source data: <input type="checkbox"/> EOC <input type="checkbox"/> From Kiruna station <input type="checkbox"/> From ASF <input type="checkbox"/> From WFF	
20-2	<u>Send the processed DMS data to SeaPAC and CNES/POLDER</u>	<u>Confirm processed DMS data exchange procedure.</u>	Processed DMS data	Destination: <input type="checkbox"/> To SeaPAC <input type="checkbox"/> To CNES/POLDER	

A

d) SeaPAC

Operation Name	System Total 1	Operator	SeaPAC	Operation Date	YYYY/MM/DD (Launch + 99 days ~ 102 days)	Target Path	
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No.	Procedure	Evaluation	Output	Note	Result
Pre-pass Preparation					
1	Receive mean orbit data from TACC using e-mail via internet.	Confirm format, readability and file exchange procedure.		Only when orbit maneuver is performed.	
2	Receive OPLN from EOC via network	Confirm format, readability and file exchange procedure.			
3	Receive EP, ED and TD from EOC via network	Confirm format, readability and file exchange procedure.			
Pass Operation					
4	Receive level 0 data of HK source packet and SeaWinds from ASF and WFF via network.	Confirm level 0 data exchange procedure. Confirm level 0 data format and readability. Evaluate level 0 data delivery delay.		Data Acquisition Station: <input type="checkbox"/> ASF <input type="checkbox"/> WFF	
5	Receive level 0 data of HK source packet and SeaWinds from EOC.	Confirm level 0 data exchange procedure. Confirm level 0 data format and readability. Evaluate level 0 data delivery delay.		Data Acquisition Station: <input type="checkbox"/> EOC <input type="checkbox"/> Kiruna station	
6	Receive AMSR level 1A product from PO.DAAC via network.	Confirm level 1A product exchange procedure. Confirm level 1A product format and readability.			
Post-pass Operation					
7	Receive ORST from EOC via network.	Confirm format, readability and file exchange procedure.			
Others					
9	STAD				
9-1	Receives STAD from EOC via network	Confirm format, readability and file exchange procedure.		Only when orbit maneuver is performed.	
10	DMS Processed Data Distribution				
10-1	Receive processed DMS data from EOC.	Confirm processed DMS data exchange procedure. Confirm processed DMS data format and readability.			

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e) CNES/POLDER

Operation Name	System Total 1	Operator	CNES/POLDER	Operation Date	YYYY/MM/DD (Launch + 99 days ~ 102 days)	Target Path	
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No.	Procedure	Evaluation	Output	Note	Result
Pre-pass Preparation					
1	Receive OPL1 from EOC via network	Confirm format, readability and file exchange procedure.			
2	Receive EP, ED and TD from EOC via network	Confirm format, readability and file exchange procedure.			
Pass Operation					
3	Receive HK TLM data of POLDER from EOC via network.	Confirm HK TLM data exchange procedure. Confirm HK TLM data format and readability. Evaluate HK TLM data delivery delay.			
Post-pass Operation					
4	Receive D1 cassette of POLDER level 0 data from EOC.	Confirm media shipment procedure. Confirm level 0 data format and readability. Evaluate media shipment delay			
5	Receive SRZD from EOC via network.	Confirm format, readability and file exchange procedure.			
6	Prepare RDZD.	Confirm successful completion of RDZD preparation.			
7	Send RDZD to EOC via network.	Confirm file exchange procedure.	RDZD		
8	Receive ORST from EOC via network.	Confirm format, readability and file exchange procedure.			
Others					
9	STAD				
9-1	Receives STAD from EOC via network	Confirm format, readability and file exchange procedure.		Only when orbit maneuver is performed.	
10	DMS Processed Data Distribution				
10-1	Receive processed DMS data from EOC.	Confirm processed DMS data exchange procedure. Confirm processed DMS data format and readability.			

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f) CNES/CLS

Operation Name	System Total 1	Operator	CNES/CLS	Operation Date	YYYY/MM/DD (Launch + 99 days ~ 102 days)	Target Path	
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No.	Procedure	Evaluation	Output	Note	Result
Pre-pass Preparation					
1	Receive OPLN from EOC via network	Confirm format, readability and file exchange procedure.			
2	Receive EP, ED and TD from EOC via network	Confirm format, readability and file exchange procedure.			
Pass Operation					
3	Receive level 0 data of DCS from EOC via network.	Confirm level 0 data exchange procedure. Confirm level 0 data format and readability. Evaluate level 0 data delivery delay.		Receiver: CLS/Japan Data Acquisition Station: <input type="checkbox"/> EOC <input type="checkbox"/> Kiruna station <input type="checkbox"/> ASF <input type="checkbox"/> WFF	
4	Receive level 0 data of DCS from NOAA via network.	Confirm level 0 data exchange procedure. Confirm level 0 data format and readability. Evaluate level 0 data delivery delay.		Receiver: CLS/Largo Data Acquisition Station: <input type="checkbox"/> EOC <input type="checkbox"/> Kiruna station <input type="checkbox"/> ASF <input type="checkbox"/> WFF	
5	Receive HK TLM data of DCS from EOC via network.	Confirm HK TLM data exchange procedure. Confirm HK TLM data format and readability. Evaluate HK TLM data delivery delay.		Receiver: CLS/Japan	
Post-pass Operation					
6	Receive ORST from EOC via network.	Confirm format, readability and file exchange procedure.			
Others					
7	STAD				
7-1	Receives STAD from EOC via network	Confirm format, readability and file exchange procedure.		Only when orbit maneuver is performed.	

g) NIES

Operation Name	System Total 1	Operator	NIES	Operation Date	YYYY/MM/DD (Launch + 99 days ~ 102 days)	Target Path	
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No.	Procedure	Evaluation	Output	Note	Result
Pre-pass Preparation					
1	Receive mean orbit data from TACC using e-mail via internet.	Confirm format, readability and file exchange procedure.		Only when orbit maneuver is performed.	
2	Receive OPLN from EOC via network	Confirm format, readability and file exchange procedure.			
3	Receive EP, ED and TD from EOC via network	Confirm format, readability and file exchange procedure.			
Pass Operation					
4	Receive level 0 data of ILAS-II from EOC via network.	Confirm level 0 data exchange procedure. Confirm level 0 data format and readability. Evaluate level 0 data delivery delay.		Data Acquisition Station: <input type="checkbox"/> EOC <input type="checkbox"/> Kiruna station <input type="checkbox"/> ASF <input type="checkbox"/> WFF	
5	Receive HK TLM data of ILAS-II from EOC via network.	Confirm HK TLM data exchange procedure. Confirm HK TLM data format and readability. Evaluate HK TLM data delivery delay.			
Post-pass Operation					
6	Receive ORST from EOC via network.	Confirm format, readability and file exchange procedure.			
Others					
7	STAD				
7-1	Receives STAD from EOC via network	Confirm format, readability and file exchange procedure.		Only when orbit maneuver is performed.	

h) TKSC/TEDA

Operation Name	System Total 1	Operator	TEDA	Operation Date	YYYY/MM/DD (Launch + 99 days ~ 102 days)	Target Path	
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No.	Procedure	Evaluation	Output	Note	Result
Pre-pass Preparation					
1	Receive OPLN from EOC via network	Confirm format, readability and file exchange procedure.			
2	Receive EP, ED and TD from EOC via network	Confirm format, readability and file exchange procedure.			
Pass Operation					
3	Receive level 0 data of TEDA from EOC via network.	Confirm level 0 data exchange procedure. Confirm level 0 data format and readability. Evaluate level 0 data delivery delay.		Data Acquisition Station: <input type="checkbox"/> EOC <input type="checkbox"/> Kiruna station <input type="checkbox"/> ASF <input type="checkbox"/> WFF	
4	Receive HK TLM data of TEDA from EOC via network.	Confirm HK TLM data exchange procedure. Confirm HK TLM data format and readability. Evaluate HK TLM data delivery delay.			
Post-pass Operation					
5	Receive ORST from EOC via network.	Confirm format, readability and file exchange procedure.			
Others					
6	STAD				
6-1	Receives STAD from EOC via network	Confirm format, readability and file exchange procedure.		Only when orbit maneuver is performed.	

i) NOAA

Operation Name	System Total 1	Operator	NOAA	Operation Date	YYYY/MM/DD (Launch + 99 days ~ 102 days)	Target Path	
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No.	Procedure	Evaluation	Output	Note	Result
Pre-pass Preparation					
1	Receive OPLN and RTIG from EOC via network	Confirm format, readability and file exchange procedure.			
2	Receive EP, ED and TD from EOC via network	Confirm format, readability and file exchange procedure.			
Pass Operation					
3	Level 0 Data Exchange				
3-1	Receive level 0 data of DCS from EOC via network.	Confirm level 0 data exchange procedure.		Data Acquisition Station: <input type="checkbox"/> EOC <input type="checkbox"/> Kiruna station	
3-2	Receive level 0 data of SeaWinds from EOC via network.	Confirm level 0 data exchange procedure. Confirm level 0 data format and readability. Evaluate level 0 data delivery delay.		Data Acquisition Station: <input type="checkbox"/> EOC <input type="checkbox"/> Kiruna station	
3-3	Receive level 0 data of DCS from ASF and WFF via network.	Confirm level 0 data exchange procedure. Evaluate level 0 data delivery delay.		Data Acquisition Station: <input type="checkbox"/> ASF <input type="checkbox"/> WFF	
3-4	Receive level 0 data of SeaWinds and GLI 1km (subset) from ASF and WFF via network.	Confirm level 0 data exchange procedure. Confirm level 0 data format and readability. Evaluate level 0 data delivery delay.		Data Acquisition Station: <input type="checkbox"/> ASF <input type="checkbox"/> WFF	
3-5	Send level 0 data of DCS to CLS/Largo via network.	Confirm level 0 data exchange procedure.	DCS level 0 data		
4	NRT Product Processing and Exchange				
4-1	Receive GLI 1km level 1A product from EOC via network.	Confirm level 1A product exchange procedure. Confirm level 1A product format and readability. Evaluate level 1A product delivery delay.		TBD	
4-2	Receive AMSR level 1A product from PO.DAAC via network.	Confirm level 1A product exchange procedure. Confirm level 1A product format and readability.		TBD	
4-3	Process level 0 data of SeaWinds to SeaWinds Met data.	Confirm successful completion of SeaWinds Met data processing. Confirm data processing is completed by due date.		TBD	
4-4	Send SeaWinds Met data to EOC via network.	Confirm Met data exchange procedure.	SeaWinds Met data	TBD	
Post-pass Operation					
5	Receive ORST from EOC via network.	Confirm format, readability and file exchange procedure.			
Others					
6	STAD				
6-1	Receives STAD from EOC via network	Confirm format, readability and file exchange procedure.		Only when orbit maneuver is performed.	

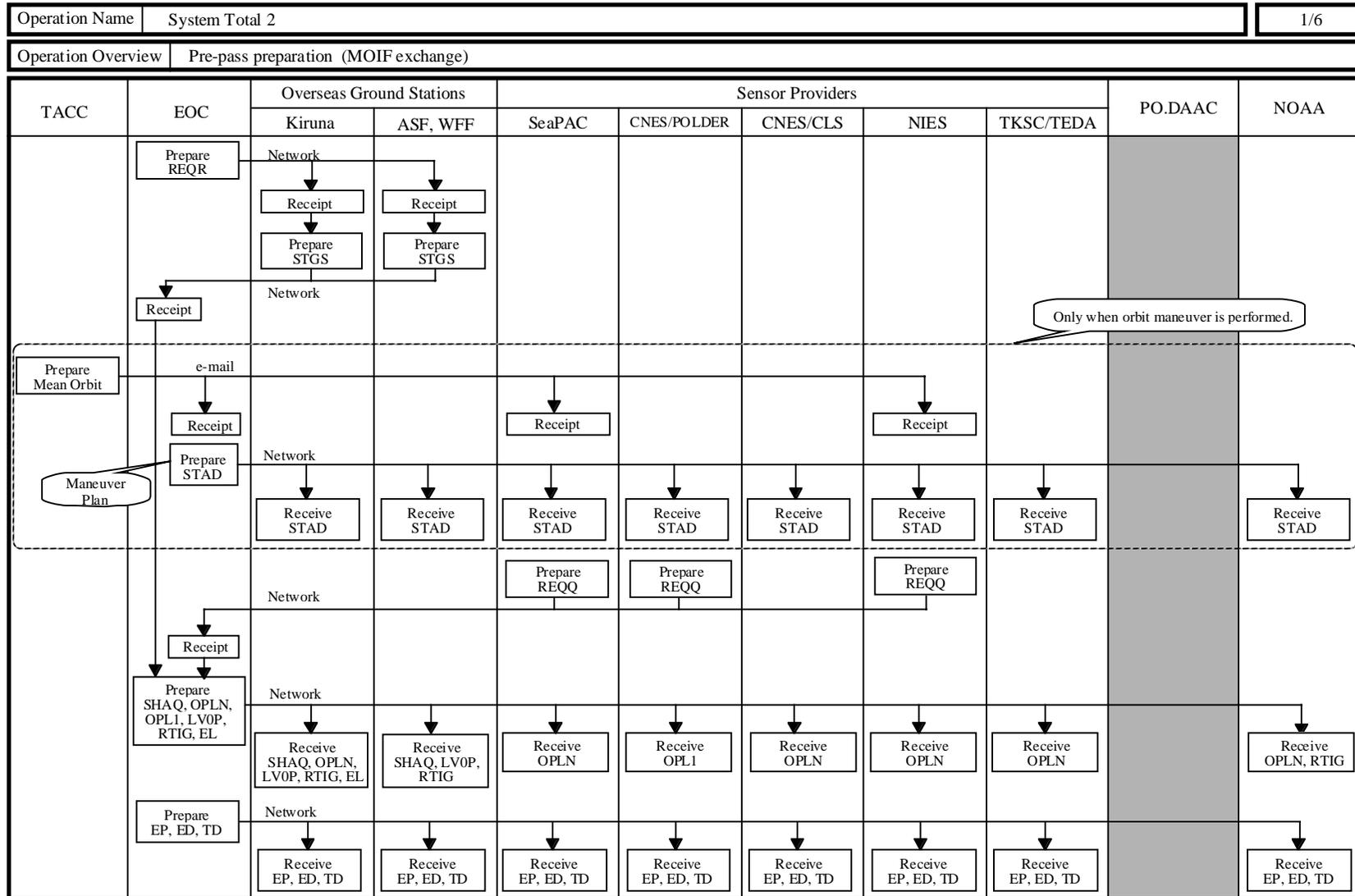
j) PO.DAAC

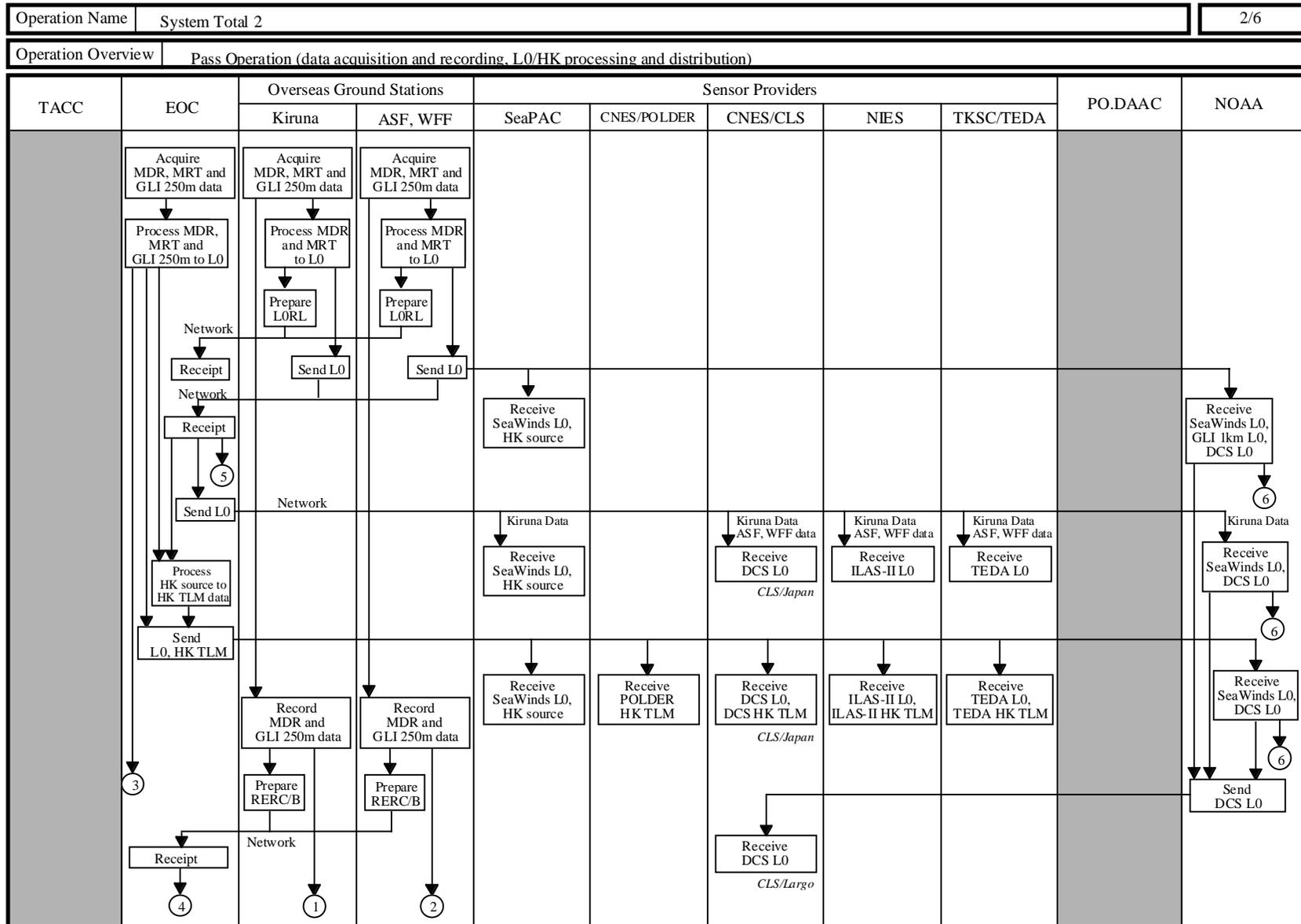
Operation Name	System Total 1	Operator	PO.DAAC	Operation Date	YYYY/MM/DD (Launch + 99 days ~ 102 days)	Target Path	
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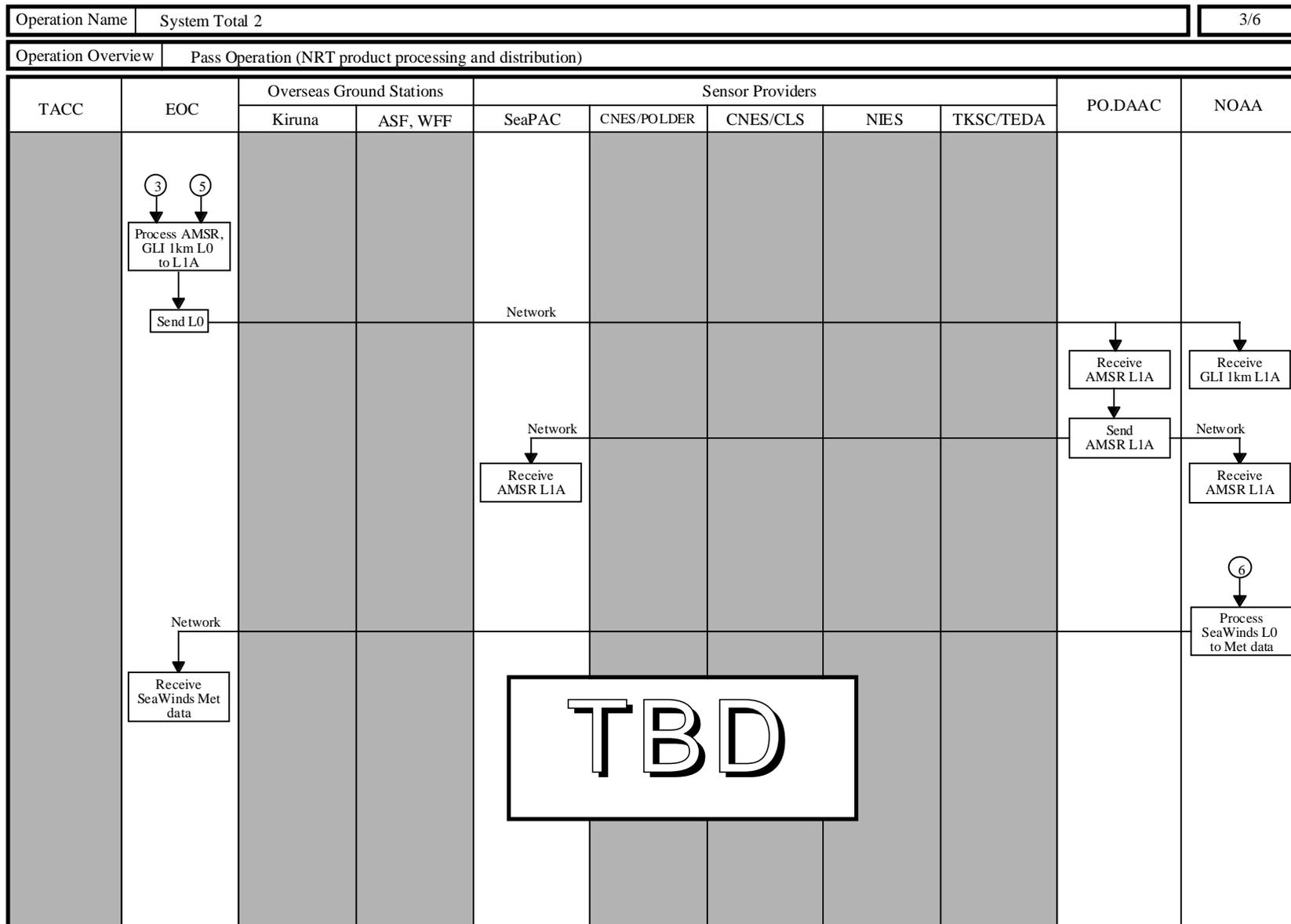
No.	Procedure	Evaluation	Output	Note	Result
Pass Operation					
1	Receive AMSR level 1A product from EOC via network.	Confirm level 1A product exchange procedure. Evaluate level 1A product delivery delay.		TBD	
2	Send AMSR level 1A product to SeaPAC and NOAA via network.	Confirm level 1A product exchange procedure.	AMSR level 1A	TBD	

4.6 System Total 2

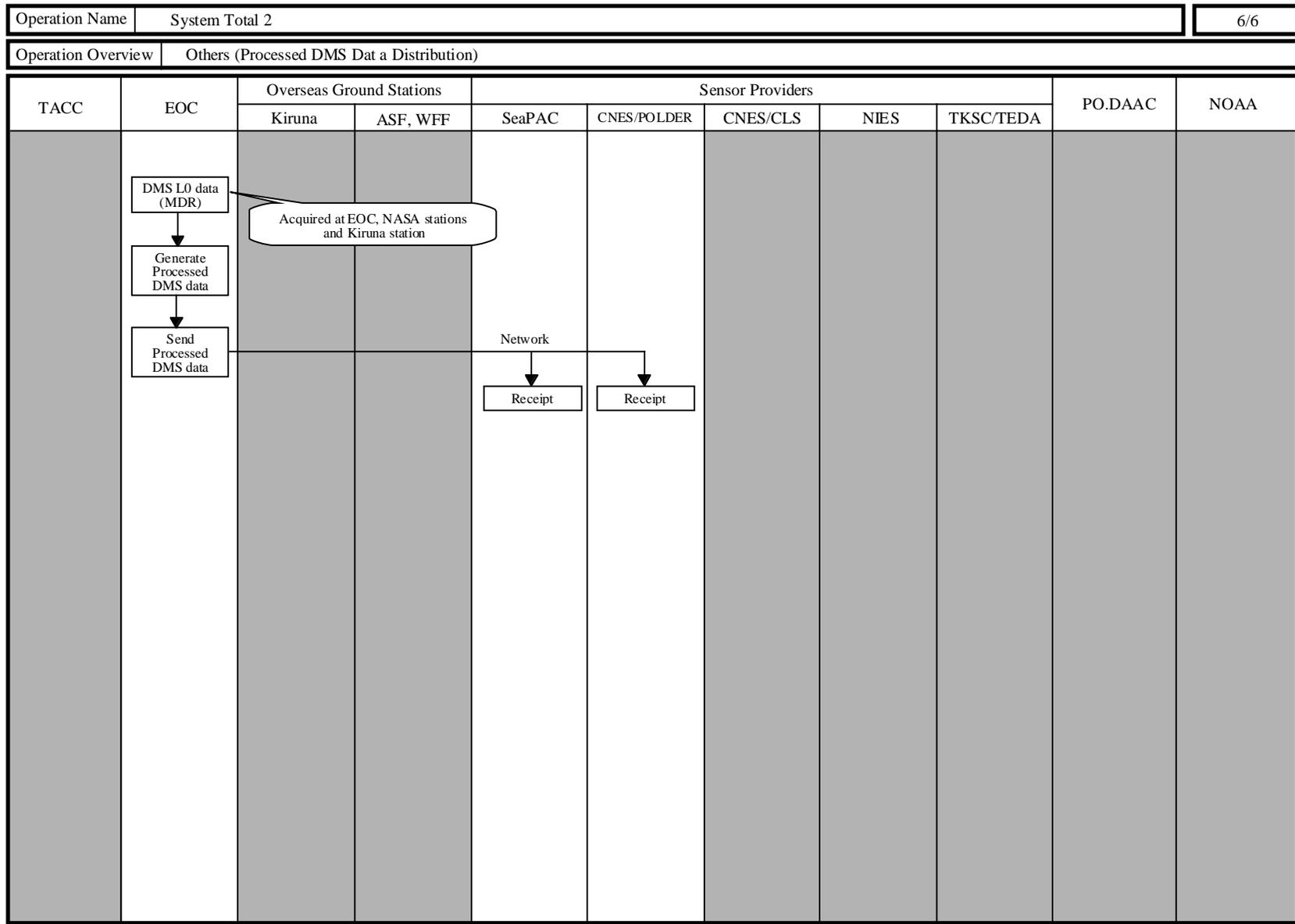
(1) Operation Flow







Operation Name		System Total 2							5/6	
Operation Overview		Post-pass Operation (ORST preparation and distribution)								
TACC	EOC	Overseas Ground Stations		Sensor Providers					PO.DAAC	NOAA
		Kiruna	ASF, WFF	SeaPAC	CNES/POLDER	CNES/CLS	NIES	TKSC/TEDA		
	④ ↓ Prepare ORST	Network ↓ Receive ORST	↓ Receive ORST	↓ Receive ORST	↓ Receive ORST	↓ Receive ORST	↓ Receive ORST	↓ Receive ORST		↓ Receive ORST



A

(2) Operation Procedure

a) NASA Stations (ASF, WFF)

Operation Name	System Total 2	Operator	ASF, WFF	Operation Date	YYYY/MM/DD (Launch + 109 days ~ 115 days)	Target Path	
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No.	Procedure	Evaluation	Output	Note	Result
Pre-pass Preparation					
1	Receive REQR from EOC via network.	Confirm format, readability and file exchange procedure.			
2	Prepare STGS.	Confirm successful completion of STGS preparation. Confirm file preparation is completed by due date.	STGS		
3	Send STGS to EOC via network.	Confirm file exchange procedure.			
4	Receive SHAQ, LVOP and RTIG from EOC via network	Confirm format, readability and file exchange procedure.			
5	Receive EP, ED and TD from EOC via network	Confirm format, readability and file exchange procedure.			

No.	Procedure	Evaluation	Output	Note	Result
Pass Operation					
6	Acquire MRT data via X3-band.				
7	Acquire MDR data and GLI 250m data via X1-band				
8	Process MRT data to level 0 data.	Confirm successful completion of level 0 data processing		Target data: <input type="checkbox"/> DCS <input type="checkbox"/> GLI 1km (subset)	
9	Process MDR data to level 0 data.	Confirm successful completion of level 0 data processing		Target data: <input type="checkbox"/> HK source <input type="checkbox"/> SeaWinds <input type="checkbox"/> AMSR <input type="checkbox"/> DCS <input type="checkbox"/> TEDA <input type="checkbox"/> DMS <input type="checkbox"/> VMS <input type="checkbox"/> GLI 1km (subset)	
10	Send level 0 data to EOC via network.	Confirm level 0 data exchange procedure.	Level 0 data (see right)	Target data: <input type="checkbox"/> HK source <input type="checkbox"/> SeaWinds <input type="checkbox"/> AMSR <input type="checkbox"/> DCS <input type="checkbox"/> TEDA <input type="checkbox"/> DMS <input type="checkbox"/> VMS	
11	Send level 0 data to SeaPAC via network.	Confirm level 0 data exchange procedure.	Level 0 data (see right)	Target data: <input type="checkbox"/> HK source <input type="checkbox"/> SeaWinds	
12	Send level 0 data to NOAA via network.	Confirm level 0 data exchange procedure.	Level 0 data (see right)	Target data: <input type="checkbox"/> DCS <input type="checkbox"/> SeaWinds <input type="checkbox"/> GLI 1km (subset)	
13	Prepare L0RL file.	Confirm successful completion of L0RL preparation.			
14	Send L0RL to EOC via network.	Confirm file exchange procedure.	L0RL		
15	Record MDR and GLI 250m data onto D1 cassette.	Confirm successful completion of raw data recording.		Both Master and B/U media.	
16	Prepare RERC and RERB for X1-band data.	Confirm successful completion of RERC and RERB preparation.			
17	Send RERC and RERB to EOC via network.	Confirm file exchange procedure.	RERC, RERB		

No.	Procedure	Evaluation	Output	Note	Result
Post-pass Operation					
18	Ship D1 cassette of raw data (MDR and GLI 250m) to EOC	Confirm media shipment procedure.	Raw data of MDR and GLI 250m		
19	Prepare SRRM	Confirm successful completion of SRRM preparation.			
20	Send SRRM to EOC via network.	Confirm file exchange procedure.			
21	Receive RDRM from EOC via network.	Confirm format, readability and file exchange procedure.		If bad result is reported by RDRM, B/U raw media is shipped.	
22	Receive ORST from EOC via network.	Confirm format, readability and file exchange procedure.			
Others					
23	STAD				
23-1	Receives STAD from EOC via network	Confirm format, readability and file exchange procedure.		Only when orbit maneuver is performed.	

b) Kiruna Station

Operation Name	System Total 2	Operator	Kiruna Station	Operation Date	YYYY/MM/DD (Launch + 109 days ~ 115 days)	Target Path	
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No.	Procedure	Evaluation	Output	Note	Result
Pre-pass Preparation					
1	Receive REQR from EOC via network.	Confirm format, readability and file exchange procedure.			
2	Prepare STGS.	Confirm successful completion of STGS preparation. Confirm file preparation is completed by due date.	STGS		
3	Send STGS to EOC via network.	Confirm file exchange procedure.			
4	Receive SHAQ, LV0P and RTIG from EOC via network	Confirm format, readability and file exchange procedure.			
5	Receive EP, ED and TD from EOC via network	Confirm format, readability and file exchange procedure.			
Pass Operation					
6	Acquire MRT data via X3-band.				
7	Acquire MDR data and GLI 250m data via X1-band				
8	Process MRT data to level 0 data.	Confirm successful completion of level 0 data processing		Target data: <input type="checkbox"/> DCS	
9	Process MDR data to level 0 data.	Confirm successful completion of level 0 data processing		Target data: <input type="checkbox"/> HK source <input type="checkbox"/> SeaWinds <input type="checkbox"/> AMSR <input type="checkbox"/> DCS <input type="checkbox"/> TEDA <input type="checkbox"/> DMS <input type="checkbox"/> VMS <input type="checkbox"/> GLI 1km (subset)	
10	Send level 0 data to EOC via network.	Confirm level 0 data exchange procedure.	Level 0 data (see right)	Target data: <input type="checkbox"/> HK source <input type="checkbox"/> SeaWinds <input type="checkbox"/> AMSR <input type="checkbox"/> DCS <input type="checkbox"/> TEDA <input type="checkbox"/> DMS <input type="checkbox"/> VMS <input type="checkbox"/> GLI 1km (subset)	
11	Prepare L0RL file.	Confirm successful completion of L0RL preparation.			
12	Send L0RL to EOC via network.	Confirm file exchange procedure.	L0RL		
13	Record MDR and GLI 250m data onto D1 cassette.	Confirm successful completion of raw data recording.		Both Master and B/U media.	
14	Prepare RERC and RERB for X1-band data.	Confirm successful completion of RERC and RERB preparation.			
15	Send RERC and RERB to EOC via network.	Confirm file exchange procedure.	RERC, RERB		

No.	Procedure	Evaluation	Output	Note	Result
Post-pass Operation					
16	Ship D1 cassette of raw data (MDR and GLI 250m) to EOC	Confirm media shipment procedure.	Raw data of MDR and GLI 250m		
17	Prepare SRRM	Confirm successful completion of SRRM preparation.			
18	Send SRRM to EOC via network.	Confirm file exchange procedure.			
19	Receive RDRM from EOC via network.	Confirm format, readability and file exchange procedure.		If bad result is reported by RDRM, B/U raw media is shipped.	
20	Receive ORST from EOC via network.	Confirm format, readability and file exchange procedure.			
Others					
21	STAD				
21-1	Receives STAD from EOC via network	Confirm format, readability and file exchange procedure.		Only when orbit maneuver is performed.	

c) NASDA/EOC

Operation Name	System Total 2	Operator	NASDA (EOC)	Operation Date	YYYY/MM/DD (Launch +109 days ~ 115 days)	Target Path	
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No.	Procedure	Evaluation	Output	Note	Result
Pre-pass Preparation					
1	Prepare REQR.	Confirm successful completion of REQR preparation. Confirm file preparation is completed by due date.	Pass request		
2	Send STGS to ASF, WFF and Kiruna station via network.	Confirm file exchange procedure.			
3	Receive STGS from ASF, WFF and Kiruna station via network	Confirm format, readability and file exchange procedure.			
4	Receive mean orbit data from TACC using e-mail via internet.				N/A
5	Receive REQQ from SeaPAC, CNES/POLDER and NIES via network.	Confirm format, readability and file exchange procedure.			
6	Prepare SHAQ, OPLN, OPL1, LV0P, RTIG and EL	Confirm successful completion of SHAQ, OPLN, OPL1, LV0P, RTIG and EL preparation. Confirm file preparation is completed by due date.			
7	Send SHAQ, OPLN, LV0P, RTIG and EL file to Kiruna station via network	Confirm file exchange procedure.	SHAQ, OPLN, LV0P, RTIG and EL		
8	Send SHAQ, LV0P and RTIG file to ASF and WFF via network	Confirm file exchange procedure.	SHAQ, LV0P and RTIG		
9	Send OPLN or OPL1 to sensor providers via network.	Confirm file exchange procedure.	OPLN or OPL1	OPL1 for CNES/POLDER	
10	Send OPLN and RTIG to NOAA via network.	Confirm file exchange procedure.	OPLN and RTIG		
11	Prepare EP, ED and TD.	Confirm successful completion of EP, ED and TD preparation. Confirm file preparation is completed by due date.			
12	Send EP, ED and TD file to ASF, WFF, Kiruna station, sensor providers and NOAA via network.	Confirm file exchange procedure.	EP, ED and TD		

No.	Procedure	Evaluation	Output	Note	Result
Pass Operation					
13	Data Acquisition, Level 0 data Processing and Distribution				
13-1	Acquire MRT data via X3-band.				
13-2	Acquire MDR data and GLI 250m data via X1-band				
13-3	Process MRT data to level 0 data.	Confirm successful completion of level 0 data processing.		Target data: <input type="checkbox"/> DCS <input type="checkbox"/> ILAS-II	
13-4	Process MDR data to level 0 data.	Confirm successful completion of level 0 data processing.		Target data: <input type="checkbox"/> HK source <input type="checkbox"/> SeaWinds <input type="checkbox"/> ILAS-II <input type="checkbox"/> DCS <input type="checkbox"/> TEDA <input type="checkbox"/> AMSR <input type="checkbox"/> GLI 1km <input type="checkbox"/> VMS <input type="checkbox"/> DMS	
13-5	Process GLI 250m data to level 0 data.	Confirm successful completion of level 0 data processing.			
13-6	Send level 0 data to sensor providers and NOAA via network.	Confirm level 0 data exchange procedure.	Level 0 data	Destination: <input type="checkbox"/> To SeaPAC <input type="checkbox"/> To CNES/CLS <input type="checkbox"/> To NIES <input type="checkbox"/> To TKSC/TEDA <input type="checkbox"/> To NOAA	
14	Level 0 Data Receiving from Overseas Stations				
14-1	Receive level 0 data from ASF, WFF and Kiruna station via network.	Confirm level 0 data exchange procedure. Confirm level 0 data format and readability. Evaluate level 0 data delivery delay.		Receiving data: <input type="checkbox"/> HK source <input type="checkbox"/> DCS <input type="checkbox"/> AMSR <input type="checkbox"/> VMS <input type="checkbox"/> DMS	
14-2	Receive level 0 data from ASF, WFF and Kiruna station via network.	Confirm level 0 data exchange procedure. Evaluate level 0 data delivery delay.		Receiving data: <input type="checkbox"/> SeaWinds <input type="checkbox"/> TEDA	
14-3	Receive LORL from ASF, WFF and Kiruna station via network.	Confirm format, readability and file exchange procedure.			
14-4	Send level 0 data to sensor providers and NOAA via network.	Confirm level 0 data exchange procedure.	Level 0 data	Destination: <input type="checkbox"/> To SeaPAC <input type="checkbox"/> To CNES/CLS <input type="checkbox"/> To TKSC/TEDA <input type="checkbox"/> To NOAA	
15	HK TLM data Processing and Distribution				
15-1	Process HK source packet data to HK TLM data of each sensor.	Confirm successful completion of HK TLM data processing.		Source data: <input type="checkbox"/> EOC <input type="checkbox"/> From Kiruna station <input type="checkbox"/> From ASF <input type="checkbox"/> From WFF	
15-2	Send HK TLM data to sensor providers via network.	Confirm HK TLM data exchange procedure.	HK TLM data		

No.	Procedure	Evaluation	Output	Note	Result
Pass Operation (cont'd)					
16	NRT Product Processing and Distribution (AMSR Level 1A)				
16-1	Process level 0 data of AMSR to level 1A product.	Confirm successful completion of AMSR level 1A product processing.		Source data: <input type="checkbox"/> EOC <input type="checkbox"/> From Kiruna station <input type="checkbox"/> From ASF <input type="checkbox"/> From WFF	
16-2	Send AMSR level 1A data to PO.DAAC via network	Confirm level 1A product exchange procedure.	AMSR level 1A		
17	NRT Product Processing and Distribution (GLI 1km Level 1A (selected areas and bands of interest to NOAA))				
17-1	Process level 0 data of GLI 1km to level 1A product.	Confirm successful completion of GLI 1km level 1A product processing.		Source data: <input type="checkbox"/> EOC <input type="checkbox"/> From Kiruna station	
17-2	Send GLI 1km level 1A product to NOAA via network	Confirm level 1A product exchange procedure.	GLI 1km level 1A		
18	NRT Product Processing and Distribution (SeaWinds Met data)				
18-1	Receive SeaWinds Met data from NOAA via network.	Confirm Met data exchange procedure.			

TBD

No.	Procedure	Evaluation	Output	Note	Result
Post-pass Operation					
19	Media Shipment and				
19-1	Receive D1 cassette of raw data (MDR and GLI 250m) from ASF, WFF and Kiruna station.	Confirm media shipment procedure. Confirm raw data format. Evaluate media shipment delay.			
19-2	Receive SRRM from ASF, WFF and Kiruna station.	Confirm format, readability and file exchange procedure.			
19-3	Process raw data media to level 0 data.	Confirm successful completion of level 0 data processing.			
19-4	Prepare RDRM.	Confirm successful completion of RDRM preparation.			
19-5	Send RDRM to ASF, WFF and Kiruna station.	Confirm file exchange procedure.	RDRM		
20 POLDER Level 0 Data Processing and Delivery					
20-1	Edit POLDER level 0 packet data to make POLDER level 0 data of observation unit.	Confirm successful completion of POLDER level 0 data editing.			
20-2	Ship D1 cassette of POLDER level 0 data to CNES/POLDER.	Confirm media shipment procedure.	POLDER level 0 data		
20-3	Prepare SRZD.	Confirm successful completion of SRZD preparation.			
20-4	Send SRZD to CNES/POLDER via network.	Confirm file exchange procedure.	SRZD		
20-5	Receive RDZD from CNES/POLDER via network	Confirm file exchange procedure.			
21 ORST Preparation and Distribution					
21-1	Receive RERC and RERB from ASF, WFF and Kiruna station via network.	Confirm format, readability and file exchange procedure.			
21-2	Prepare ORST.	Confirm successful completion of ORST preparation. Confirm file preparation is completed by due date.			
21-3	Send ORST to all related agencies via network.	Confirm file exchange procedure.		Except for PO.DAAC.	

No.	Procedure	Evaluation	Output	Note	Result
Others					
22	STAD				
22-1	Prepare STAD.	Confirm successful completion of STAD preparation.		Only when orbit maneuver is performed.	
22-2	Send STAD to all related agencies via network.	Confirm file exchange procedure.		Except for PO.DAAC.	
23	<u>DMS Processed Data Distribution</u>				
23-1	<u>Process DMS level 0 data of MDR to processed DMS data.</u>	<u>Confirm successful completion of DMS data processing.</u>		Source data: <input type="checkbox"/> EOC <input type="checkbox"/> From Kiruna station <input type="checkbox"/> From ASF <input type="checkbox"/> From WFF	
23-2	<u>Send the processed DMS data to SeaPAC and CNES/POLDER</u>	<u>Confirm processed DMS data exchange procedure.</u>	Processed DMS data	Destination: <input type="checkbox"/> To SeaPAC <input type="checkbox"/> To CNES/POLDER	

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d) SeaPAC

Operation Name	System Total 2	Operator	SeaPAC	Operation Date	YYYY/MM/DD (Launch + 109 days ~ 115 days)	Target Path	
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No.	Procedure	Evaluation	Output	Note	Result
Pre-pass Preparation					
1	Receive mean orbit data from TACC using e-mail via internet.	Confirm format, readability and file exchange procedure.			
2	Prepare REQQ.	Confirm successful completion of ORST preparation. Confirm file preparation is completed by due date.			
3	Send REQQ to EOC via network.	Confirm file exchange procedure.	REQQ		
4	Receive OPLN from EOC via network	Confirm format, readability and file exchange procedure.			
5	Receive EP, ED and TD from EOC via network	Confirm format, readability and file exchange procedure.			
Pass Operation					
6	Receive level 0 data of HK source packet and SeaWinds from ASF and WFF via network.	Confirm level 0 data exchange procedure. Confirm level 0 data format and readability. Evaluate level 0 data delivery delay.		Data Acquisition Station: <input type="checkbox"/> ASF <input type="checkbox"/> WFF	
7	Receive level 0 data of HK source packet and SeaWinds from EOC.	Confirm level 0 data exchange procedure. Confirm level 0 data format and readability. Evaluate level 0 data delivery delay.		Data Acquisition Station: <input type="checkbox"/> EOC <input type="checkbox"/> Kiruna station	
8	Receive AMSR level 1A product from PO.DAAC via network.	Confirm level 1A product exchange procedure. Confirm level 1A product format and readability.			
Post-pass Operation					
9	Receive ORST from EOC via network.	Confirm format, readability and file exchange procedure.			
Others					
10	STAD				
10-1	Receives STAD from EOC via network	Confirm format, readability and file exchange procedure.		Only when orbit maneuver is performed.	
11	<u>DMS Processed Data Distribution</u>				
11-1	<u>Receive processed DMS data from EOC.</u>	<u>Confirm processed DMS data exchange procedure.</u> <u>Confirm processed DMS data format and readability.</u>			

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e) CNES/POLDER

Operation Name	System Total 2	Operator	CNES/POLDER	Operation Date	YYYY/MM/DD (Launch + 109 days ~ 115 days)	Target Path	
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No.	Procedure	Evaluation	Output	Note	Result
Pre-pass Preparation					
1	Prepare REQQ.	Confirm successful completion of ORST preparation. Confirm file preparation is completed by due date.			
2	Send REQQ to EOC via network.	Confirm file exchange procedure.	REQQ		
3	Receive OPLI from EOC via network	Confirm format, readability and file exchange procedure.			
4	Receive EP, ED and TD from EOC via network	Confirm format, readability and file exchange procedure.			
Pass Operation					
5	Receive HK TLM data of POLDER from EOC via network.	Confirm HK TLM data exchange procedure. Confirm HK TLM data format and readability. Evaluate HK TLM data delivery delay.			
Post-pass Operation					
6	Receive D1 cassette of POLDER level 0 data from EOC.	Confirm media shipment procedure. Confirm level 0 data format and readability. Evaluate media shipment delay			
7	Receive SRZD from EOC via network.	Confirm format, readability and file exchange procedure.			
8	Prepare RDZD.	Confirm successful completion of RDZD preparation.			
9	Send RDZD to EOC via network.	Confirm file exchange procedure.	RDZD		
10	Receive ORST from EOC via network.	Confirm format, readability and file exchange procedure.			
Others					
11	STAD				
11-1	Receives STAD from EOC via network	Confirm format, readability and file exchange procedure.		Only when orbit maneuver is performed.	
12	DMS Processed Data Distribution				
12-1	Receive processed DMS data from EOC.	Confirm processed DMS data exchange procedure. Confirm processed DMS data format and readability.			

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f) CNES/CLS

Operation Name	System Total 2	Operator	CNES/CLS	Operation Date	YYYY/MM/DD (Launch + 109 days ~ 115 days)	Target Path	
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No.	Procedure	Evaluation	Output	Note	Result
Pre-pass Preparation					
1	Receive OPLN from EOC via network	Confirm format, readability and file exchange procedure.			
2	Receive EP, ED and TD from EOC via network	Confirm format, readability and file exchange procedure.			
Pass Operation					
3	Receive level 0 data of DCS from EOC via network.	Confirm level 0 data exchange procedure. Confirm level 0 data format and readability. Evaluate level 0 data delivery delay.		Receiver: CLS/Japan Data Acquisition Station: <input type="checkbox"/> EOC <input type="checkbox"/> Kiruna station <input type="checkbox"/> ASF <input type="checkbox"/> WFF	
4	Receive level 0 data of DCS from NOAA via network.	Confirm level 0 data exchange procedure. Confirm level 0 data format and readability. Evaluate level 0 data delivery delay.		Receiver: CLS/Largo Data Acquisition Station: <input type="checkbox"/> EOC <input type="checkbox"/> Kiruna station <input type="checkbox"/> ASF <input type="checkbox"/> WFF	
5	Receive HK TLM data of DCS from EOC via network.	Confirm HK TLM data exchange procedure. Confirm HK TLM data format and readability. Evaluate HK TLM data delivery delay.		Receiver: CLS/Japan	
Post-pass Operation					
6	Receive ORST from EOC via network.	Confirm format, readability and file exchange procedure.			
Others					
7	STAD				
7-1	Receives STAD from EOC via network	Confirm format, readability and file exchange procedure.		Only when orbit maneuver is performed.	

g) NIES

Operation Name	System Total 2	Operator	NIES	Operation Date	YYYY/MM/DD (Launch + 109 days ~ 115 days)	Target Path	
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No.	Procedure	Evaluation	Output	Note	Result
Pre-pass Preparation					
1	Receive mean orbit data from TACC using e-mail via internet.	Confirm format, readability and file exchange procedure. Confirm e-mail receipt is completed by due date.			
2	Prepare REQQ.	Confirm successful completion of ORST preparation. Confirm file preparation is completed by due date.			
3	Send REQQ to EOC via network.	Confirm file exchange procedure.	REQQ		
4	Receive OPLN from EOC via network	Confirm format, readability and file exchange procedure.			
5	Receive EP, ED and TD from EOC via network	Confirm format, readability and file exchange procedure.			
Pass Operation					
6	Receive level 0 data of ILAS-II from EOC via network.	Confirm level 0 data exchange procedure. Confirm level 0 data format and readability. Evaluate level 0 data delivery delay.		Data Acquisition Station: <input type="checkbox"/> EOC <input type="checkbox"/> Kiruna station <input type="checkbox"/> ASF <input type="checkbox"/> WFF	
7	Receive HK TLM data of ILAS-II from EOC via network.	Confirm HK TLM data exchange procedure. Confirm HK TLM data format and readability. Evaluate HK TLM data delivery delay.			
Post-pass Operation					
8	Receive ORST from EOC via network.	Confirm format, readability and file exchange procedure.			
Others					
9	STAD				
9-1	Receives STAD from EOC via network	Confirm format, readability and file exchange procedure.		Only when orbit maneuver is performed.	

h) TKSC/TEDA

Operation Name	System Total 2	Operator	TEDA	Operation Date	YYYY/MM/DD (Launch + 109 days ~ 115 days)	Target Path	
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No.	Procedure	Evaluation	Output	Note	Result
Pre-pass Preparation					
1	Receive OPLN from EOC via network	Confirm format, readability and file exchange procedure.			
2	Receive EP, ED and TD from EOC via network	Confirm format, readability and file exchange procedure.			
Pass Operation					
3	Receive level 0 data of TEDA from EOC via network.	Confirm level 0 data exchange procedure. Confirm level 0 data format and readability. Evaluate level 0 data delivery delay.		Data Acquisition Station: <input type="checkbox"/> EOC <input type="checkbox"/> Kiruna station <input type="checkbox"/> ASF <input type="checkbox"/> WFF	
4	Receive HK TLM data of TEDA from EOC via network.	Confirm HK TLM data exchange procedure. Confirm HK TLM data format and readability. Evaluate HK TLM data delivery delay.			
Post-pass Operation					
5	Receive ORST from EOC via network.	Confirm format, readability and file exchange procedure.			
Others					
6	STAD				
6-1	Receives STAD from EOC via network	Confirm format, readability and file exchange procedure.		Only when orbit maneuver is performed.	

i) NOAA

Operation Name	System Total 2	Operator	NOAA	Operation Date	YYYY/MM/DD (Launch + 109 days ~ 115 days)	Target Path	
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No.	Procedure	Evaluation	Output	Note	Result
Pre-pass Preparation					
1	Receive OPLN and RTIG from EOC via network	Confirm format, readability and file exchange procedure.			
2	Receive EP, ED and TD from EOC via network	Confirm format, readability and file exchange procedure.			
Pass Operation					
3	Level 0 Data Exchange				
3-1	Receive level 0 data of DCS from EOC via network.	Confirm level 0 data exchange procedure.		Data Acquisition Station: <input type="checkbox"/> EOC <input type="checkbox"/> Kiruna station	
3-2	Receive level 0 data of SeaWinds from EOC via network.	Confirm level 0 data exchange procedure. Confirm level 0 data format and readability. Evaluate level 0 data delivery delay.		Data Acquisition Station: <input type="checkbox"/> EOC <input type="checkbox"/> Kiruna station	
3-3	Receive level 0 data of DCS from ASF and WFF via network.	Confirm level 0 data exchange procedure. Evaluate level 0 data delivery delay.		Data Acquisition Station: <input type="checkbox"/> ASF <input type="checkbox"/> WFF	
3-4	Receive level 0 data of SeaWinds and GLI 1km (subset) from ASF and WFF via network.	Confirm level 0 data exchange procedure. Confirm level 0 data format and readability. Evaluate level 0 data delivery delay.		Data Acquisition Station: <input type="checkbox"/> ASF <input type="checkbox"/> WFF	
3-5	Send level 0 data of DCS to CLS/Largo via network.	Confirm level 0 data exchange procedure.	DCS level 0 data		
4	NRT Product Processing and Exchange				
4-1	Receive GLI 1km level 1A product from EOC via network.	Confirm level 1A product exchange procedure. Confirm level 1A product format and readability. Evaluate level 1A product delivery delay.		TBD	
4-2	Receive AMSR level 1A product from PO.DAAC via network.	Confirm level 1A product exchange procedure. Confirm level 1A product format and readability.		TBD	
4-3	Process level 0 data of SeaWinds to SeaWinds Met data.	Confirm successful completion of SeaWinds Met data processing. Confirm data processing is completed by due date.		TBD	
4-4	Send SeaWinds Met data to EOC via network.	Confirm Met data exchange procedure.	SeaWinds Met data	TBD	
Post-pass Operation					
5	Receive ORST from EOC via network.	Confirm format, readability and file exchange procedure.			
Others					
6	STAD				
6-1	Receives STAD from EOC via network	Confirm format, readability and file exchange procedure.		Only when orbit maneuver is performed.	

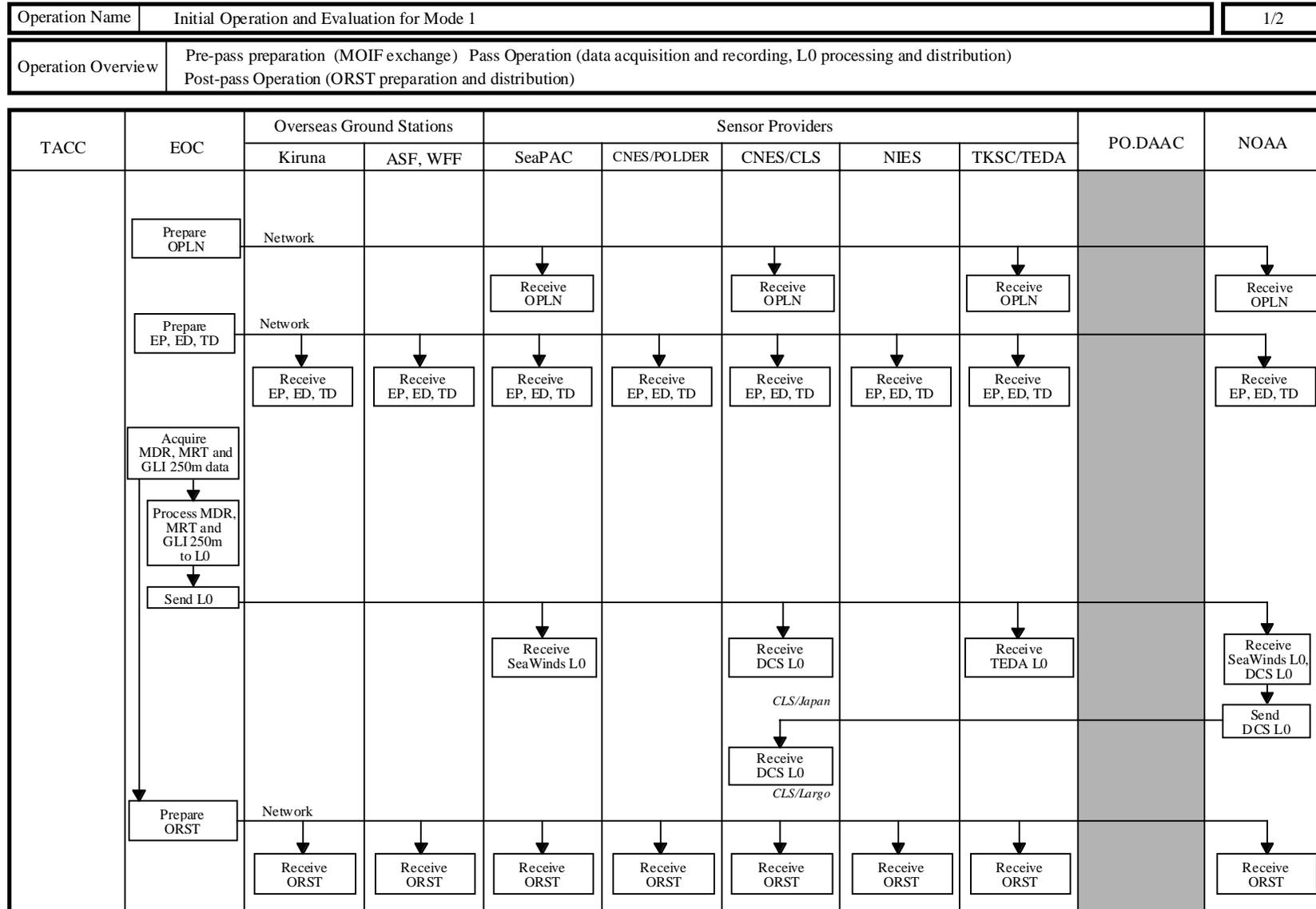
j) PO.DAAC

Operation Name	System Total 2	Operator	PO.DAAC	Operation Date	YYYY/MM/DD (Launch + 109 days ~ 115 days)	Target Path	
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No.	Procedure	Evaluation	Output	Note	Result
Pass Operation					
1	Receive AMSR level 1A product from EOC via network.	Confirm level 1A product exchange procedure. Evaluate level 1A product delivery delay.		TBD	
2	Send AMSR level 1A product to SeaPAC and NOAA via network.	Confirm level 1A product exchange procedure.	AMSR level 1A	TBD	

4.7 Initial Operation and Evaluation for Mode 1

(1) Operation Flow



(2) Operation Procedure

a) NASA Stations (ASF, WFF)

Operation Name	Initial Operation and Evaluation for Mode 1	Operator	ASF, WFF	Operation Date	YYYY/MM/DD (Launch + 71 days ~ 90 days)	Target Path	
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No.	Procedure	Evaluation	Output	Note	Result
Pre-pass Preparation					
1	Receive EP, ED and TD from EOC via network	Confirm format, readability and file exchange procedure.			
Post-pass Operation					
2	Receive ORST from EOC via network.	Confirm format, readability and file exchange procedure.			
Others					
3	Receives STAD from EOC via network	Confirm format, readability and file exchange procedure.		Only when orbit maneuver is performed.	

b) Kiruna Station

Operation Name	Initial Operation and Evaluation for Mode 1	Operator	Kiruna Station	Operation Date	YYYY/MM/DD (Launch + 71 days ~ 90 days)	Target Path	
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No.	Procedure	Evaluation	Output	Note	Result
Pre-pass Preparation					
1	Receive EP, ED and TD from EOC via network	Confirm format, readability and file exchange procedure.			
Post-pass Operation					
2	Receive ORST from EOC via network.	Confirm format, readability and file exchange procedure.			
Others					
3	Receives STAD from EOC via network	Confirm format, readability and file exchange procedure.		Only when orbit maneuver is performed.	

c) NASDA/EOC

Operation Name	Initial Operation and Evaluation for Mode 1	Operator	NASDA (EOC)	Operation Date	YYYY/MM/DD (Launch + 71 days ~ 90 days)	Target Path	
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No.	Procedure	Evaluation	Output	Note	Result
Pre-pass Preparation					
1	Prepare OPLN	Confirm successful completion of OPLN preparation.			
2	Send OPLN to sensor providers via network.	Confirm file exchange procedure.	OPLN		
3	Send OPLN to NOAA via network.	Confirm file exchange procedure.	OPLN		
4	Prepare EP, ED and TD.	Confirm successful completion of EP, ED and TD preparation.			
5	Send EP, ED and TD file to ASF, WFF, Kiruna station, sensor providers and NOAA via network.	Confirm file exchange procedure.	EP, ED and TD		
Pass Operation					
6	Data Acquisition, Level 0 data Processing and Distribution				
6-1	Acquire MRT data via I ch.				
6-2	Acquire MDR data and GLI 250m data via Q ch				
6-3	Process MRT data to level 0 data.	Confirm successful completion of level 0 data processing.		Target data: <input type="checkbox"/> DCS <input type="checkbox"/> SeaWinds <input type="checkbox"/> TEDA <input type="checkbox"/> AMSR <input type="checkbox"/> GLI 1km <input type="checkbox"/> DMS	
6-4	Process MDR data to level 0 data.	Confirm successful completion of level 0 data processing.		Target data: <input type="checkbox"/> DCS <input type="checkbox"/> SeaWinds <input type="checkbox"/> TEDA <input type="checkbox"/> AMSR <input type="checkbox"/> GLI 1km <input type="checkbox"/> DMS	
6-5	Process GLI 250m data to level 0 data.	Confirm successful completion of level 0 data processing.			
6-6	Send level 0 data to sensor providers and NOAA via network.	Confirm level 0 data exchange procedure.	Level 0 data	Destination: <input type="checkbox"/> To SeaPAC <input type="checkbox"/> To CNES/CLS <input type="checkbox"/> To TKSC/TEDA <input type="checkbox"/> To NOAA	
Post-pass Operation					
7	ORST Preparation and Distribution				
7-2	Prepare ORST.	Confirm successful completion of ORST preparation.			
7-3	Send ORST to all related agencies via network.	Confirm file exchange procedure.		Except for PO.DAAC.	

Operation Name	Initial Operation and Evaluation for Mode 1	Operator	NASDA (EOC)	Operation Date	YYYY/MM/DD (Launch + 71 days ~ 90 days)	Target Path	
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No.	Procedure	Evaluation	Output	Note	Result
Others					
8	Mean Orbit Data				
8-1	Receive mean orbit data from TACC using e-mail via internet.			Only when orbit maneuver is performed.	N/A
9	STAD				
9-1	Prepare STAD.	Confirm successful completion of STAD preparation.		Only when orbit maneuver is performed.	
9-2	Send STAD to all related agencies via network.	Confirm file exchange procedure.		Except for PO.DAAC.	
10	<u>DMS Processed Data Distribution</u>				
10-1	<u>Process DMS level 0 data of MDR to processed DMS data.</u>	<u>Confirm successful completion of DMS data processing.</u>			
10-2	<u>Process DMS level 0 data of MRT to processed DMS data.</u>	<u>Confirm successful completion of DMS data processing.</u>			
10-3	<u>Send the processed DMS data to SeaPAC and CNES/POLDER</u>	<u>Confirm processed DMS data exchange procedure.</u>	Processed DMS data	Destination: <input type="checkbox"/> To SeaPAC <input type="checkbox"/> To CNES/POLDER	

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d) SeaPAC

Operation Name	Initial Operation and Evaluation for Mode 1	Operator	NASDA (EOC)	Operation Date	YYYY/MM/DD (Launch + 71 days ~ 90 days)	Target Path	
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No.	Procedure	Evaluation	Output	Note	Result
Pre-pass Preparation					
1	Receive OPLN from EOC via network	Confirm format, readability and file exchange procedure.			
2	Receive EP, ED and TD from EOC via network	Confirm format, readability and file exchange procedure.			
Pass Operation					
3	Receive level 0 data of SeaWinds from EOC.	Confirm level 0 data exchange procedure. Confirm level 0 data format and readability.			
Post-pass Operation					
4	Receive ORST from EOC via network.	Confirm format, readability and file exchange procedure.			
Others					
5	Mean Orbit Data				
5-1	Receive mean orbit data from TACC using e-mail via internet.	Confirm format, readability and file exchange procedure.		Only when orbit maneuver is performed.	
6	STAD				
6-1	Receives STAD from EOC via network	Confirm format, readability and file exchange procedure.		Only when orbit maneuver is performed.	
7	DMS Processed Data Distribution				
7-1	Receive processed DMS data from EOC.	Confirm processed DMS data exchange procedure. Confirm processed DMS data format and readability.			

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e) CNES/POLDER

Operation Name	Initial Operation and Evaluation for Mode 1	Operator	Kiruna Station	Operation Date	YYYY/MM/DD (Launch + 71 days ~ 90 days)	Target Path	
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No.	Procedure	Evaluation	Output	Note	Result
Pre-pass Preparation					
1	Receive EP, ED and TD from EOC via network	Confirm format, readability and file exchange procedure.			
Post-pass Operation					
2	Receive ORST from EOC via network.	Confirm format, readability and file exchange procedure.			
Others					
3	STAD				
3-1	Receives STAD from EOC via network	Confirm format, readability and file exchange procedure.		Only when orbit maneuver is performed.	
4	DMS Processed Data Distribution				
4-1	Receive processed DMS data from EOC.	Confirm processed DMS data exchange procedure. Confirm processed DMS data format and readability.			

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f) CNES/CLS

Operation Name	Initial Operation and Evaluation for Mode 1	Operator	NASDA (EOC)	Operation Date	YYYY/MM/DD (Launch + 71 days ~ 90 days)	Target Path	
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No.	Procedure	Evaluation	Output	Note	Result
Pre-pass Preparation					
1	Receive OPLN from EOC via network	Confirm format, readability and file exchange procedure.			
2	Receive EP, ED and TD from EOC via network	Confirm format, readability and file exchange procedure.			
Pass Operation					
3	Receive level 0 data of DCS from EOC.	Confirm level 0 data exchange procedure. Confirm level 0 data format and readability.			
Post-pass Operation					
4	Receive ORST from EOC via network.	Confirm format, readability and file exchange procedure.			
Others					
5	STAD				
5-1	Receives STAD from EOC via network	Confirm format, readability and file exchange procedure.		Only when orbit maneuver is performed.	

g) NIES

Operation Name	Initial Operation and Evaluation for Mode 1	Operator	NASDA (EOC)	Operation Date	YYYY/MM/DD (Launch + 71 days ~ 90 days)	Target Path	
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No.	Procedure	Evaluation	Output	Note	Result
Pre-pass Preparation					
1	Receive OPLN from EOC via network	Confirm format, readability and file exchange procedure.			
2	Receive EP, ED and TD from EOC via network	Confirm format, readability and file exchange procedure.			
Post-pass Operation					
3	Receive ORST from EOC via network.	Confirm format, readability and file exchange procedure.			
Others					
4	Mean Orbit Data				
4-1	Receive mean orbit data from TACC using e-mail via internet.	Confirm format, readability and file exchange procedure.		Only when orbit maneuver is performed.	
5	STAD				
5-1	Receives STAD from EOC via network	Confirm format, readability and file exchange procedure.		Only when orbit maneuver is performed.	

h) TKSC/TEDA

Operation Name	Initial Operation and Evaluation for Mode 1	Operator	NASDA (EOC)	Operation Date	YYYY/MM/DD (Launch + 71 days ~ 90 days)	Target Path	
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No.	Procedure	Evaluation	Output	Note	Result
Pre-pass Preparation					
1	Receive OPLN from EOC via network	Confirm format, readability and file exchange procedure.			
2	Receive EP, ED and TD from EOC via network	Confirm format, readability and file exchange procedure.			
Pass Operation					
3	Receive level 0 data of TEDA from EOC.	Confirm level 0 data exchange procedure. Confirm level 0 data format and readability.			
Post-pass Operation					
4	Receive ORST from EOC via network.	Confirm format, readability and file exchange procedure.			
Others					
5	STAD				
5-1	Receives STAD from EOC via network	Confirm format, readability and file exchange procedure.		Only when orbit maneuver is performed.	

i) NOAA

Operation Name	Initial Operation and Evaluation for Mode 1	Operator	NOAA	Operation Date	YYYY/MM/DD (Launch + 71 days ~ 90 days)	Target Path	
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No.	Procedure	Evaluation	Output	Note	Result
Pre-pass Preparation					
1	Receive OPLN from EOC via network	Confirm format, readability and file exchange procedure.			
2	Receive EP, ED and TD from EOC via network	Confirm format, readability and file exchange procedure.			
Pass Operation					
3	Receive level 0 data of DCS from EOC via network.	Confirm level 0 data exchange procedure.			
4	Receive level 0 data of SeaWinds from EOC via network.	Confirm level 0 data exchange procedure. Confirm level 0 data format and readability.			
7	Send level 0 data of DCS to CLS/Largo via network.	Confirm level 0 data exchange procedure.	DCS level 0 data		
Post-pass Operation					
8	Receive ORST from EOC via network.	Confirm format, readability and file exchange procedure.			
Others					
9	STAD				
9-1	Receives STAD from EOC via network	Confirm format, readability and file exchange procedure.		Only when orbit maneuver is performed.	