



## SYN Anomalies and Events

YEAR 2020

Date(s)	Satellite		Instrument			Impact/Description	Keywords
	S3A	S3B	OLCI	SLSTR	IPF SYN		
<b>JANUARY</b>							
02/01/2020 and 05/01/2020	x	x			o	SY_2_V10 missing products due to SL_1 004 update: - S3A sensing start 05/01/2020 11:00 to stop 15/01/2020 11:00 - S3B sensing start 02/01/2020 16:33 to stop 12/01/2020 16:33	PDGS, gap
09/01/2020		x	o	o		Sequence errors degrading PDUs with start 09:25:17 and from 09:31:17 to 09:37:17	PDGS, missing data
13/01/2020	x	x			o	SY_2_VG1___ missing products due to SL_1 004 update: - S3A sensing start 13/01/2020 12:00 to stop 14/01/2020 12:00 - S3B sensing start 13/01/2020 16:33 to stop 14/01/2020 16:33	PDGS, gap
18/01/2020	x		o			Degraded products from 16:09:55 to 16:12:06 due to PDHU dump anomaly	PDHU dump, missing data
21/01/2020		x	o	o		RFI affecting PDUs from 09:17:02 to 09:32:02	RFI, missing data
23/01/2020	x		o			Degraded products from 16:09:55 to 16:12:06 due to OLCI S09 calibration	OLCI calibration, missing data
28/01/2020		x		o		Degraded geolocation due missing NAVATT from 11:07:48 to 11:51:35	Geolocation, NAVATT
30/01/2020		x			o	Gap in production from 10:24:21 to 10:27:15 Degraded due to missing NAVATT between 08:34:17 to 12:40:01	PDGS, gap, Geolocation, NAVATT
<b>FEBRUARY</b>							
02/02/2020		x	o			OLCI S09 Calibration: 20200202 from 09:05:46 to 09:06:54 (68") - shorter products before and after	OLCI calibration, gap



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Date(s)	Satellite		Instrument			Impact/Description	Keywords
	S3A	S3B	OLCI	SLSTR	IPF SYN		
03/02/2020 - 11/02/2020	x			o		SLSTR anomaly and decontamination - SYNergy degraded products from 2020/02/03 09:10:12 until 2020/02/11 23:12:37 ; including gap with no products between 2020/02/03 14:56:27 and 2020/02/07 15:49:31.	Decontamination, missing data, gap
05/02/2020		x		o		S3B Manoeuvre affecting products from 07:37:35 to 10:02:20	Manoeuvre
17/02/2020	x		o			OLCI Twilight Test day 1: 12:59:52 to 13:09:35 (RO 81) 14:40:51 to 14:50:34 (RO 82) 16:21:50 to 16:31:33 (RO 83)	OLCI Test
20/02/2020	x		o			OLCI Twilight Test day 2: 15:02:56 to 15:13:00 (RO 125) 16:43:55 to 16:53:59 (RO 126) 18:24:53 to 18:34:59 (RO 127)	OLCI Test
23/02/2020		x	o	o		RFI affecting PDUs from 04:47:16 and 04:55:58	RFI, missing data
24/02/2020	x		o			OLCI Twilight Test day 3: 14:58:42 to 15:09:15 16:39:41 to 16:50:15 18:20:40 to 18:31:14	OLCI Test
27&28/02/2020	x	x	o	o		- S3A - degraded: 20200228 from 00:21:24 to 00:23:38 data gaps: 20200227 20200228 22:21:09 00:21:24 (120') 20200228 20200228 03:59:05 06:37:14 (158') - S3B - degraded: 20200227 22:00:20 to 22:16:37 data gaps: 20200227 20200227 21:48:41 22:00:20 (11') 20200227 20200228 22:16:37 00:54:46 (158')	Svalbard, CGS
28/02/2020	x		o			RFI degrading products 03:30:36 to 03:33:36	RFI, missing data



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Date(s)	Satellite		Instrument			Impact/Description	Keywords
	S3A	S3B	OLCI	SLSTR	IPF SYN		
<b>MARCH</b>							
11/03/2020	x			o		S3B Manoeuvre affecting products from 09:46:23 to 10:30:16	Manoeuvre
16/03/2020	x		o	o		RFI affecting PDUs 09:21:25 and from 09:36:25 to 09:42:25	RFI, missing data
23/03/2020	x		o	o		Degraded products from 09:46:08 to 09:52:08 with gap from 09:49:18 to 09:50:15)	Missing data, Svalbard, gap
24/03/2020		x	o			RFI degrading products at PDU start 00:29:18 and gap from 00:25:25 to 00:29:18 (3')	RFI, missing data, gap
<b>APRIL</b>							
03-05/04/2020	x	x			o	Due to processing failure, SYN AOD not generated for: S3A: - 20200403 08:50:26 11:28:17 - 20200404 08:24:09 11:01:59 - 20200405 09:38:51 12:16:40 S3B: - 20200403 09:51:51 12:29:41 - 20200404 09:25:33 12:03:23 - 20200405 08:59:16 11:37:06	gap, processing
05/04/2020	x			o		Products degraded due to missing data in SLSTR oblique view from 10:35:41 to 11:19:46	missing data
06/04/2020		x		o		Degraded products from 11:10:48 to 11:54:56	Svalbard, CGS
08/04/2020		x		o		Degraded products due to manoeuvre from 10:20:38 to 12:43:20	Manoeuvre
10-11/04/2020	x			o		SLSTR SDRs with missing data: 20200410 00:01:56 to 20200410 00:37:56 20200410 23:38:46 to 20200411 00:11:46 20200411 23:12:35 to 20200411 23:45:35	missing data
13-14/04/2020		x	o	o		Due to acquisition failure, no SYN generated for - 20200413 22:18:48 to 20200414 02:37:32	Svalbard, CGS, gap



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Date(s)	Satellite		Instrument			Impact/Description	Keywords
	S3A	S3B	OLCI	SLSTR	IPF SYN		
14/04/2020	x		o	o		Due to acquisition failure, no SYN generated for: 20200414 20200414 04:01:20 06:39:43 158' and degraded for 03:18:11 to 07:23:18 due to missing NAVATT	Svalbard, CGS, gap, NAVATT, Geolocation
19/04/2020		x	o			RFI degrading products at PDU start 14:30:36	RFI, missing data
22/04/2020		x		o		Products degraded due to missing data in SLSTR: from 14:18:03 to 14:26:03 and from 14:38:03 to 14:50:03	CGS, missing data
24/04/2020		x			o	Processing issue originating 1 orbit gap from 07:23:56 10:03:44 (159')	gap, processing
30/04/2020	x		o	o		RFI degrading products from 19:58:07 to 20:04:07 and from 20:22:07 to 20:28:07	RFI, missing data
<b>MAY</b>							
10/05/2020	x		o			Small gap due to OLCI S09 Calibration from 09:04:20 to 09:05:28 (68")	OLCI Calibration
13-21/05/2020	x			o		SLSTR anomaly and decontamination - SYNergy degraded products from 2020/05/13 11:16:47 until 2020/05/21 23:10:20 ; including gap with no products between 20200513 11:18:54 and 20200518 17:05:00.	Decontamination, missing data, gap
20/05/2020		x	o			Small gap due to OLCI S09 Calibration from 09:05:56 09:08:58 ( 3')	OLCI Calibration
22/05/2020	x		o			RFI degrading PDUs with start 23:53:01	RFI, missing data
27/05/2020		x		o		Degraded products due to manoeuvre from 05:41:05 to 09:47:29	Manoeuvre
<b>JUNE</b>							
03/06/2020		x	o			Degraded PDUs with start 16:05:24 due to CGS issue	CGS, missing data
11/06/2020	x		o			RFI degrading PDUs with start 01:44:28 to 01:50:28	RFI, missing data
15/06/2020	x		o	o		Degraded from 14:52:22 to 18:58:46, including gap 14:54:24 to 16:34:05 (99')	Svalbard, CGS, gap, NAVATT, Geolocation



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Date(s)	Satellite		Instrument			Impact/Description	Keywords
	S3A	S3B	OLCI	SLSTR	IPF SYN		
17/06/2020	x			o		Degraded products due to manoeuvre from 08:57:01 to 13:03:25	Manoeuvre
<b>JULY</b>							
04/07/2020	x		o			OLCI Moon Calibration: Gap from 14:03:20 to 16:40:56 Degraded PDUs with start 16:40:56	OLCI Calibration
14/07/2020		x	o			Products degraded due to missing data in OLCI acquisition from 10:35:41 to 11:19:46	CGS, Missing data
19/07/2020		x	o	o		RFI degrading PDUs with from 18:21:52 to 18:27:52	RFI, missing data
23/07/2020		x	o	o		RFI degrading PDUs with from 01:00:52 to 01:01:15	RFI, missing data
23/07/2020 onwards	x	x		o		Missing scans present in SYN products from 23/07/20 - 29/07/2020 presently (30.07.2020)	Missing data
27/07/2020		x			o	NTC Gap 21:09:21 to 21:33:21 for SY_2_SYN products	gap, processing
29/07/2020		x		o		Manoeuvre affecting products from 08:30:07 to 09:14:24	Manoeuvre
<b>AUGUST</b>							
02/08/2020	x		o	o		RFI degrading PDUs with start 17:33:42; and covering 17:39:42 to 17:45:42	RFI, missing data
04/08/2020	x		o			RFI degrading PDUs with start 23:37:17	RFI, missing data
05/08/2020		x		o		SLSTR FEE Offset Voltages update: degrading 2 PDUs from 08:49:23 to 08:54:47	On-board maintenance
09/08/2020		x		o		PDGS issue originating pointing errors in S3B: - 20200809 07:07:46 to 07:49:15; - 20200809 08:46:00 to 09:30:15	PDGS, processing
10/08/2020	x			o		PDGS issue originating pointing errors in S3A: - 20200810 08:59:20 to 09:43:34	PDGS, processing
10/08/2020		x				RFI degrading PDUs covering 06:43:53 to 06:58:53	RFI, missing data
12/08/2020		x			o	AOD Gap 20200809 20200810 23:37:37 02:15:21 (157') orbit 042_145	PDGS, processing
15/08/2020		x	o	o		PDGS issue originating missing scans between 11:19:55 and 11:40:55 ; and PDU start 11:49:55	CGS, missing data
17/08/2020	x		o	o		RFI degrading 2 PDUs with starts 09:31:58 and 09:58:58	RFI, missing data



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Date(s)	Satellite		Instrument			Impact/Description	Keywords
	S3A	S3B	OLCI	SLSTR	IPF SYN		
31/08/2020	x		o	o		PDGS issue originating missing scans for PDU 16:50:17 ; and 17:11:17 to 17:17:17	CGS, missing data
<b>SEPTEMBER</b>							
01/09/2020	x	x	o			Missing NAVATT due to processing issue: - S3A from 04:28:34 to 05:12:22 - S3B from 05:30:12 to 06:14:24 and PDU 07:11:11	PDGS, processing,NAVATT
02/09/2020	x			o		Missing scans affecting PDUs from 13:05:56 and 13:08:56	CGS, missing data
05/09/2020	x		o			Degraded products from 16:09:55 to 16:12:06 due to OLCI S09 calibration	OLCI calibration, missing data
10/09/2020	x		o	o		RFI degrading 2 PDUs with starts 07:28:31 and 07:55:31	RFI, missing data
16/09/2020	x		o	o		RFI degrading PDUs from 14:48:21 to 14:54:21	RFI, missing data
16/09/2020	x	x		o		Missing NAVATT due to processing issue: - S3A from 16:28:38 to 17:12:51 - S3B from 15:49:12 to 16:33:25	PDGS, processing,NAVATT
21/09/2020		x	o	o		RFI degrading PDUs from 20:49:57 to 20:55:57	RFI, missing data
22/09/2020	x		o	o		RFI degrading PDU with start 10:33:18 and from 10:42:18 to 10:48:18	RFI, missing data
25/09/2020	x		o	o		RFI degrading PDUs from 10:53:07 to 11:10:44	PDGS, circulation
28/09/2020	x				o	PDGS Circulation originating missing data: from 06:15:13 to 06:48:13 ; and PDU start 12:58:42	PDGS, circulation
<b>OCTOBER</b>							
05/10/2020		x	o	o		RFI degrading PDUs from 10:53:07 to 11:10:44	RFI, missing data
06-07/10/2020	x	x	o	o		Due to PDGS circulation issue, the following PDUs are degraded: S3A: 2020/10/06 from 11:43:43 to 11:52:43; 2020/10/07 from 05:53:34 to 05:59:34; from 12:55:31 to 13:04:31; from 15:50:29 to 16:05:29. S3B: 2020/10/07 from 05:00:54 to 05:05:03 ; from 21:51:56 to 21:57:56	PDGS, Circulation
07/10/2020		x		o		Manœuvre affecting products from 08:22:53 to 12:29:08	Manœuvre



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	S3A	S3B	OLCI	SLSTR	IPF SYN		
10/10/2020	x		o	o		RFI degrading PDUs from 16:15:56 to 16:33:56	RFI, missing data



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YEAR 2019

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	S3A	S3B	OLCI	SLSTR	IPF SYN		
<b>JANUARY</b>							
01/01/2019	x		o	o		Missing SDRs from OLCI and SLSTR inputs. 3 products, *1 over land, very small loss of data.	Missing data, Svalbard
04/01/2019	x		o	o		Missing SDRs from OLCI and SLSTR inputs. 10 products and gap. Located over ocean & land.	Missing data, Svalbard
04/01/2019		x	o	o		Missing SDRs from OLCI and SLSTR inputs. Products over land & ocean, total 3. gap.	Missing data, Svalbard
05 & 06/01/2019		x	o	o		Discarded navatt & gap reported, 34 products affected over land & ocean some missing SDRs noted.	Discarded navatt, missing data, Antenna, Svalbard
05/01/2019	x		o			Missing SDRs from OLCI input, 1 product over ocean	RFI, missing data, Svalbard
14/01/2019	x	x			o	Some products missing coverage / No coverage * 20 for S3A & S3B. To be updated for V10 and future product regeneration.	IPF update error
20/01/2019		x	o	o		Missing SDRs - 20/01/2019	RFI, Missing data, Svalbard
21/01/2019	x		o	o		Loss of SDR values in the SLSTR and OLCI input bands.	RFI, Missing data, Svalbard
23/01/2019	x				o	Loss of data for VG1 & V10 products (missing 1 orbit). gap for SYN/VGP & VGK products RO-289 AO-15277. Recovery not possible.	IPF update error
02/02/2020	x		o	o		Some missing data for SY_2_SYN products from OLCI (1) & SLSTR (2) inputs. 1 * VGP/VGK affected. 4 in total over land.	RFI, Missing data, Svalbard
<b>03/02/2020 -</b>							
06/02/2019	x	x	o	o		Missing SDRs over land * 3 products (1 OLCI input, 2 SLSTR input)	RFI, Missing data, Svalbard





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Date(s)	Satellite		Instrument			Impact/Description	Keywords
	S3A	S3B	OLCI	SLSTR	IPF SYN		
13/02/2019		x		o		Products flagged with MANOEUVRE & DISCARDED NAVATT, missing data of vertical lines seen in all products. 2 orbits, impact over land & ocean.	Manoeuvre, Missing data
15/02/2019		x	o			OLCI no_olc flag raised over 1 ocean product.	RFI, Missing data, Svalbard
17/02/2019		x	o			Loss of data from OLCI input	RFI, Missing data, Svalbard
27/02/2019	x			o		Possible geolocation impact since SLSTR input flagged pointing errors.	Manoeuvre
28/02/2019		x			o	Gap from 12:48:01 to 15:26:10	gap, PDGS/Processing issue
<b>MARCH</b>							
05/03/2019	x		o	o		Missing data in SYN products, 1 product over the ocean so minimal impact	RFI, Missing data, Svalbard
05/03/2019	x		o			A gap for Synergy L2 products, and split products are noted due to an S09 OLC calibration. Impact can be observed in all products but is expected and cannot be recovered.	OLCI Calibration, split orbit, missing data, gap
05/03/2019	x		o	o		Missing data from SLSTR input in SY_2_SYN products and missing orbit 107 as input into VG1 & V10 products.	Missing data, Svalbard
06/03/2019		x			o	Gap from 03:26:18 to 06:04:25	gap, PDGS/Processing issue
07/03/2019		x	o	o		Missing data for two products over land one missing OLCI frames the other missing SLSTR scans.	RFI, Missing data, Svalbard
09/03/2019	x				o	Gap from 02:46:49 05:24:54	gap, PDGS/Processing issue
09/03/2019		x	o	o		Missing data in SYN products showing as vertical line. Discarded navatts may impact geolocation.	Antenna, Svalbard, missing data, gap



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Date(s)	Satellite		Instrument			Impact/Description	Keywords
	S3A	S3B	OLCI	SLSTR	IPF SYN		
10/03/2019	x		o	o		Missing data from OLCI & SLSTR inputs.	RFI, Missing data, Svalbard
13/03/2019		x		o		Potentially missing data and degraded geolocation.	Manœuvre, missing data
15/03/2019		x	o			Missing data, split orbits and a gap due to short PDUs	OLCI Calibration, split orbit, missing data, gap
21/03/2019	x				o	Gap from 02:34:10 to 05:12:09	gap, PDGS/Processing issue
22/03/2019	x				o	Gap from 02:07:52 to 04:45:50	gap, PDGS/Processing issue
28/03/2019		x			o	Gap from 03:53:37 to 06:31:32	gap, PDGS/Processing issue
<b>APRIL</b>							
05/04/2019	x		o	o		- MISR, SYN gap: from 11:08:38 to 12:37:56 (89' - incl. night) - Shorter products for MISR, VGP and VGK: with start sensing 20190405T123756 - VG1 starting 20190405T111721 with missing data	RFI, missing data, Svalbard
07/04/2019	x				o	gap from 04:28:58 to 05:13:07	gap, PDGS/Processing issue
08/04/2019		x	o			Degraded gradule from 15:12:26 to 15:15:26	RFI, missing data, Svalbard
08/04/2019		x			o	Gap from 05:04:12 to 05:48:21	gap
10/04/2019	x				o	Gap from 03:00:16 to 03:54:16	gap
10/04/2019	x			o		Possible degraded geolocation/misregistration from 09:54:35 to 14:00:09	Geolocation, NAVATT
11-17/04/2019		x		o		Gap from 20190411 11:13:25 to 20190415 10:26:11 Degraded from 20190415 10:26:11 to 20190417 04:29:32	Decontamination, gap, Missing data
17/04/2019	x		o			20190417T203314_20190417T203614	RFI, missing data, Svalbard
19/04/2019		x	o	o		Degraded SYN from 07:05:28 to 07:08:28 and from 07:17:28 to 07:23:28 and VGT with start sensing 07:00:28	RFI, missing data, Svalbard
29/04/2019	x		o	o		Product gap products from 14:05:51 to 16:46:03 pointing errors due to navatt discarded 16:46:03 to 17:27:49	PDGS, missing data



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	S3A	S3B	OLCI	SLSTR	IPF SYN		
<b>MAY</b>							
02/05/2019		x		o		Affected garnule 01:37:05 01:40:05 by missing scans	RFI, missing data, Svalbard
08/05/2019	x				o	Gap from 04:22:12 to 05:06:34	gap
09/05/2019	x				o	Gap from 08:22:43 to 09:03:43	gap
2019/05/20 to 2019/05/26	x			o		Ongoing: - Gap from 20190520 11:38:27 to 20190526T113834	Decontamination, gap
24/05/2019		x	o	o		Degraded products from 00:13:58 to 00:19:58 and from 00:43:58 to 00:49:00	missing data, Svalbard
28/05/2019	x		o			Degraded PDU with start sensing 09:20:45	RFI, missing data, Svalbard
29/05/2019		x	o			SYNergy-B impact of OLCI Anomaly 2019/05/29 Production (STC and NTC) has a gap from 20190529 13:46:40 to 20190531 12:21:52.	OLCI Anomaly, gap
29/05/2019 to 02/06/2019	x	x			o	NTC production with gaps for: - S3A from 20190529T023737 to 20190602T102208 - S3B from 20190529T051959 to 20190602T094232 STC production complete.	PDGS, gap
<b>JUNE</b>							
05/06/2019		x	o	o		S3B Products affected by Manoeuvre from 06:42:59 to 09:02:06	Manoeuvre, Missing data
09/06/2019	x		o			Degraded at PDU time 17:31:27 due to RFI	RFI, missing data, Svalbard
13/06/2019	x		o	o		SYNergy-A degraded by Manoeuvre - 07:15:06 to 11:14:59	Manoeuvre
13/06/2019	x		o	o		Degraded PDU starting at 10:43:45 and between 11:07:45 to 11:13:45	RFI, missing data, Svalbard
13/06/2019		x	o	o		Degraded PDU starting at 03:17:11 and between 03:38:11 to 03:44:11	missing data, Svalbard
19/06/2019		x	o	o		Manoeuvre affecting products from 05:39:23 to 09:39:08	Manoeuvre
<b>JULY</b>							
08/07/2019	x		o	o		Production the 20190708 from 13:48:23 to 19:47:59	Svalbard, Antenna



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	S3A	S3B	OLCI	SLSTR	IPF SYN		
13/07/2019	x		o	o		Degraded geolocation due missing NAVATT from 09:19:13 to 09:56:39	Geolocation, NAVATT
16/07/2019	x		o	o		RFI affecting PDUs 08:18:40 and 09:59:39	RFI, missing data, Svalbard
17/07/2019		x	o	o		PDGS issue originating missing scans between 11:19:55 and 11:40:55 ; and PDU start 11:49:55	Gap, NAVATT, Geolocation
29/07/2019		x		o		Products with mssing data from 10:14:40 to 10:20:40	missing data, Svalbard
<b>AUGUST</b>							
07/08/2019	x		o			RFI affecting PDUs 10:14:32 and from 10:26:32 to 10:32:32	RFI, missing data, Svalbard
23/08/2019		x	o	o		RFI affecting PDUs starting at 05:55:03	RFI, missing data, Svalbard
28/08/2019	x		o	o		Manoeuvre affecting products from 10:24:57 to 11:09:09	Manoeuvre
28/08/2019		x	o	o		Manoeuvre affecting products from 08:46:26 to 12:50:09	Manoeuvre
<b>SEPTEMBER</b>							
01/09/2019		x		o		RFI affecting PDU starting 090121	RFI, missing data, Svalbard
03/09/2019 and 04/09/2019		x		o		SLSTR-B Black body cross over test - from 09:30:00 the 03/09/2019 to 20:30:00 the 04/09/2019	SL Black body, degraded accuracy
05/09/2019 and 06/09/2019	x			o		SLSTR-A Black body cross over test - 09:15:00 the 05/09/2019 to 18:30:00 the 06/09/2019	SL Black body, degraded accuracy
05/09/2019	x			o		Gap from 04:58:09 to 07:36:01 sensing and degraded with missing NAVATT from 04:15:30 to 10:01:08	Gap, NAVATT, Geolocation
19/09/2019 to 25/09/2019		x		o		Gap from 20190919 06:37:02 to 20190923 09:19:35; degraded products from 20190923 10:54:17 to 20190925 07:24:24	Decontamination, Gap
26/09/2019		x	o	o		2 orbits missing: 08:13:20 to 11:20:20 and 18:44:12 to 21:23:05	Gap, NAVATT, Geolocation
30/09/2019		x	o			RFI affecting PDU starting at 10:20:33	RFI, missing data, Svalbard
<b>OCTOBER</b>							



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	S3A	S3B	OLCI	SLSTR	IPF SYN		
10/10/2019		x		o		S3B Manoeuvre affecting products from 16:59:12 to 19:24:27	Manoeuvre
12/10/2019	x		o			Sequence erros affecting PDU starting at 03:22:23	missing data
15/10/2019	x			o		S3A Manoeuvre affecting products from 07:03:48 to 07:47:47	Manoeuvre
16/10/2019		x		o		S3B Manoeuvre affecting products from 07:38:47 to 08:23:03	Manoeuvre
18/10/2019	x		o			RFI affecting PDU starting at 02:23:19	RFI, missing data
30/10/2019	x			o		1 orbit missing from 04:38:41 to 07:16:23 with degraded NTC products between 03:54:24 to 08:00:40	Gap, NAVATT, Geolocation
31/10/2019		x	o	o		RFI affecting PDUs from 09:34:13 to 09:43:13	RFI, missing data
<b>NOVEMBER</b>							
04/11/2019	x			o		RFI affecting PDU starting at 12:30:03	RFI, missing data
11/11/2019	x	x			o	Missiing NAVATT in NTC (recoverable in future reprocessing): SYN-A from 09:42:52 to 10:27:09 SYN-B from 09:03:17 to 09:49:19	PDGS, NAVATT, Geolocation
12/11/2019	x		o			RFI affecting PDUs from 08:23:45 to 08:27:35	RFI, missing data
15/11/2019		x	o			RFI affecting PDU starting at 14:48:26	RFI, missing data
18/11/2019		x	o	o		RFI affecting PDUs from 01:43:04 to 01:48:59	RFI, missing data
27/11/2019	x			o		S3A Manoeuvre affecting products from 06:52:30 to 09:17:43	Manoeuvre
<b>DECEMBER</b>							
02/12/2019	x			o		RFI affecting PDUs from 23:35:42 to 23:41:42	RFI, missing data
11/12/2019	x			o		S3A Manoeuvre affecting products from 10:52:30 to 13:17:39	Manoeuvre
18/12/2019		x		o		S3A Manoeuvre affecting products from 07:09:57 to 09:35:02	Manoeuvre



# SYN Anomalies and Events

YEAR 2018

Date(s)	Satellite		Instrument			Description / Impact	Keywords
	S3A	S3B	OLCI	SLSTR	IPF SYN		
<b>JANUARY</b>							
<b>FEBRUARY</b>							
12/02/2018 14:39	x				o	Issue with flag to identify missing OLCI input data within SYN PDUs	IPF, Invalid, OLCI, Flags, Masks
<b>MARCH</b>							
13/03/2018 12:23	x				o	SDR data was wrongly removed in the SYN PDUs	Data missing, IPF
<b>APRIL</b>							
S3B launched							
<b>MAY</b>							
<b>JUNE</b>							
<b>JULY</b>							
02/07/2018 15:50	x	x			o	End of June -July, no SDR data for SLSTR input bands in SYN, VGP, VG1 for several orbits per day (not all products)	Data missing, IPF
13/07/2018 15:55	x	x			o		
18/07/2018 15:00		x			o	Seen only on ocean SYN PDUs	Data missing, IPF
27/07/2018 10:34		x	o			Data absent at OLCI camera interfaces, only seen when product is georeferenced SYN, VGP PDUs	OLCI, Geolocation, Missing SDR, Missing TOA



## SYN Anomalies and Events

Date(s)	Satellite		Instrument			Description / Impact	Keywords
	S3A	S3B	OLCI	SLSTR	IPF SYN		
<b>AUGUST</b>							
21/08/2018 10:57	x	x			o	Data absent for rectangular patterns in the SDR values for SYN PDUs - Fixed in PB 2.40A/1.11B	Data missing, IPF
<b>SEPTEMBER</b>							
<b>OCTOBER</b>							
05/10/2018 15:49	x	x			o	All products currently generated in particular the MIR data band have unusual patterns on the left side of product. All VGP/VGK/VG1 products generated are impacted by this. (13.09.2018 - 16.01.2019) solved with IPF-SY-2 06.16 release.	IPF, missing data, MIR band
17/10/2018 11:28		x		o		Some missing vertical data lines observed in SDR measurements SYN PDUs	SDR missing, SLSTR, Manœuvre
16/10/2018 10:12		x		o		Some missing vertical data lines observed in SDR measurements SYN PDUs, Discarded navatt in L1	Drift, manœuvre, missing data, discarded navatt
16/10/2018 10:12		x		o		Some missing vertical data lines observed in SDR measurements SYN PDUs, Discarded navatt in L1	Drift, manœuvre, missing data, discarded navatt
26/10/2018		x		o		SYN data gap is present 20181026T072055 to 20181026T132017 20181026 20181026 07:20:43 13:20:17 5h for L1 & L2 Missing SDR values for some channels e.g. S5, S6; this is not flagged in synergy masks as missing no_sln data but data can be missing for different bands for the entire decontamination period.	Missing data, Data gap, SLSTR, Decontamination
26/10/2018	x		o	o		Minimal - some SDRs over snow/ice region in Antarctica other product entirely ocean. 2 products	RFI, Missing SDRs
<b>NOVEMBER</b>							



## SYN Anomalies and Events

Date(s)	Satellite		Instrument			Description / Impact	Keywords
	S3A	S3B	OLCI	SLSTR	IPF SYN		
02/11/2018		x	o	o		During the S3B downlink orbit 2718 at Svalbard (ingestion start around 2018-11-02 10:00 UTC) a loss of frames has been observed. Missing SDR values, data gap, short PDU over UK.	Downlink error, Svalbard, data gap, short PDU
04/11/2018		x		o	o	Missing vertical lines of SDR data from SLSTR channels	Collision avoidance, manoeuvre, missing data, short PDU, data gap
10/11/2018		x	o	o		Missing data in the listed products from SLSTR and OLCI. 4 products over ocean and the Antarctic.	Downlink error, missing data, Svalbard
13/11/2018		x	o			Line of high value SDRs probably as a result of perfect specular reflection affecting an OLCI camera since the pixels are not removed. OLCI Specular reflection - 1 product	OLCI, perfect specular reflection
13/11/2018		x		o		Line of missing data from SLSTR input affecting 1 product over the ocean.	Circulation error, missing data
14/11/2018	x		o			Missing SDR values from OLCI 14/11/2018, products all over ocean.	Downlink error, missing data, Svalbard
17/11/2018	x		o			Missing data in synergy products however only 1 Product over ocean, no impact on land.	RFI, missing data
17/11/2018		x	o			Missing SDR values flagged for the OLCI input due to RFI reported on ARTS PDGSANOM-4031, missing frames are observed on products sensed around 20:55 on 17/11/2018. Product over ocean, no impact on land.	RFI, missing data
20/11/2018		x	o	o		Product gap products from 14:05:51 to 16:46:03 pointing errors due to navatt discarded 16:46:03 to 17:27:49	Manoeuvre, missing data, missing navatt, data gap
23/11/2018		x	o	o		Missing SDRs and data from SYnergy products, & data gaps	Signal error, Svalbard, missing data, data gaps
28/11/2018	x			o		Products flagged with manoeuvres	Manoeuvre, in-plane, missing data
<b>DECEMBER</b>							





## SYN Anomalies and Events

Date(s)	Satellite		Instrument			Description / Impact	Keywords
	S3A	S3B	OLCI	SLSTR	IPF SYN		
01/12/2018	x	x	o	o		Missing data and data gap partially recovered	Data circulation error, Svalbard, missing data, data gap
06-10/12/2018	x	x		o		Missind data impacting product only over ocean.	Network issue, missing data
11.12.2018		x		o		Missing data noted in the SLSTR input for SYnergy products.	Yawcalibration, manoeuvre, missing data
12/12/2018		x		o		Two orbits flagged with manoeuvres and discarded navatt (geolocation degradation and missing data possible)	Out-of-plane, manoeuvre, missing data, discarded navatts
29/05/2019		x	o			SYnergy-B impact of OLCI Anomally 2019/05/29 Production (STC and NTC) has a gap from 20190529 13:46:40 to 20190531 12:21:52.	OLCI Anomally, gap
13/12/2018		x	o	o		NTC production with gaps for: - S3A from 20190529T023737 to 20190602T102208 - S3B from 20190529T051959 to 20190602T094232 STC production complete.	Downlink error, missing data
15/12/2018	x			o		Two products over land missing some SLSTR scans causing data loss in Synergy products.	RFI, missing data
15/12/2018	x		o	o		Products affected 06:56:58 to 07:02:58	RFI, missing data
19/12/2018				o		Potentially degraded geolocation and missing data from SYnergy products.	Out-of-plane, manoeuvre, missing data, discarded navatts
28/12/2018	x				o	Several products have been detected as having the DISCARDED NAVATT degradation flag raised.	Discarded navatts