

●SGLI Missing Data List

Here shows total missing information of GCOM-C/SGLI data during routine observation phase (from March 28, 2018). Initial checkout period (until March 28) is not included because various operations were carried out. The bottom list (Table 2) shows update information of observation plan which includes the different resolution observation or tilt operation from plan, etc..

Table 1. Missing Data List

Sensor	From(UT)	To(UT)	duration hh:mm:ss	Comments (※ : relationship with Table 2.)
VNR (POL)	2025/03/02 00:21:48	2025/03/02 01:19:41	0:57:53	Command operation inconsistency
IRS (SWI)	2024/10/26 13:42:50	2024/10/26 13:42:50	0:00:01	Checksum Error
IRS (TIR)	2024/10/22 13:48:26	2024/10/22 13:48:26	0:00:01	Checksum Error
VNR (POL)	2024/08/12 00:19:48	2024/08/16 00:56:58	96:37:10	Tentative stop of sensor operation
VNR (NP)	2024/08/12 00:19:48	2024/08/16 00:59:42	96:39:54	Tentative stop of sensor operation
IRS (SWI)	2024/08/12 00:22:54	2024/08/16 00:35:31	96:12:37	Tentative stop of sensor operation
IRS (TIR)	2024/08/12 00:22:57	2024/08/16 00:15:03	95:52:06	Tentative stop of sensor operation
VNR (PL-2)	2024/04/30 14:23:05	2024/04/30 14:23:05	0:00:01	Checksum Error
VNR (NP)	2024/03/22 15:14:10	2024/03/22 16:12:06	0:57:56	Tentative stop of ground station operation
VNR (POL)	2024/03/22 15:14:10	2024/03/22 16:12:06	0:57:56	Tentative stop of ground station operation
IRS (SWI)	2024/03/22 15:14:09	2024/03/22 16:12:05	0:57:56	Tentative stop of ground station operation
IRS (TIR)	2024/03/22 15:14:09	2024/03/22 16:12:05	0:57:56	Tentative stop of ground station operation
VNR (NP-R)	2024/01/26 14:42:15	2024/01/26 14:42:15	0:00:01	Checksum Error
IRS (TIR)	2023/08/21 03:16:24	2023/08/21 03:16:24	0:00:01	Checksum Error
VNR (NP-N)	2023/06/22 12:31:19	2023/06/22 12:31:19	0:00:01	Checksum Error
IRS (SWI)	2023/06/12 07:07:33	2023/06/12 07:07:33	0:00:01	influence of temporary satellite attitude anomalies
IRS (TIR)	2023/06/12 07:07:33	2023/06/12 07:07:33	0:00:01	influence of temporary satellite attitude anomalies
VNR (NP-N)	2023/06/05 15:02:16	2023/06/05 15:02:16	0:00:01	Checksum Error
VNR (NP)	2023/04/29 14:43:10	2023/04/29 14:43:15	0:00:05	Packet loss
VNR (POL)	2023/04/29 14:43:10	2023/04/29 14:43:15	0:00:05	Packet loss
IRS (SWI)	2023/04/29 14:43:10	2023/04/29 14:43:15	0:00:05	Packet loss
IRS (TIR)	2023/04/29 14:43:10	2023/04/29 14:43:15	0:00:05	Packet loss
VNR (NP-L)	2023/04/11 14:21:33	2023/04/11 14:21:33	0:00:01	Checksum Error
VNR (NP)	2023/01/30 05:05:45	2023/01/30 11:02:50	5:57:05	Tentative stop of POL-tilt operation(※7)
VNR (POL)	2023/01/30 05:03:25	2023/01/30 11:07:10	6:03:45	Tentative stop of POL-tilt operation(※7)
VNR (PL-1)	2022/12/30 14:21:50	2022/12/30 14:21:50	0:00:01	Checksum Error
VNR (NP)	2022/11/17 06:05:46	2022/11/17 08:40:32	2:33:52	Tentative stop of POL-tilt operation(※6)
VNR (POL)	2022/11/17 06:04:41	2022/11/17 08:43:42	2:39:01	Tentative stop of POL-tilt operation(※6)
VNR (POL)	2021/11/26 15:16:22	2021/11/27 06:54:45	15:38:23	Tentative stop of MDR operation
VNR (NP)	2021/11/26 15:16:22	2021/11/27 06:52:15	15:35:53	Tentative stop of MDR operation
IRS (SWI)	2021/11/26 15:16:22	2021/11/27 07:32:44	16:16:22	Tentative stop of MDR operation
IRS (TIR)	2021/11/26 15:16:22	2021/11/27 07:37:33	16:21:11	Tentative stop of MDR operation
VNR (NP)	2021/04/12 15:47:23	2021/04/12 15:47:23	0:00:01	Packet loss
VNR (POL)	2020/10/29 07:09:50	2020/10/29 07:09:50	0:00:01	Packet loss
VNR (NP)	2020/06/19 06:15:04	2020/06/19 08:48:56	2:33:52	Tentative stop of POL-tilt operation(※5)
VNR (POL)	2020/06/19 06:12:52	2020/06/19 08:52:25	2:39:33	Tentative stop of POL-tilt operation(※5)
VNR (NP)	2020/03/02 11:39:57	2020/03/02 11:47:28	0:07:31	Packet loss
IRS (SWI)	2020/03/02 11:39:57	2020/03/02 11:47:28	0:07:31	Packet loss
IRS (TIR)	2020/03/02 11:39:57	2020/03/02 11:47:28	0:07:31	Packet loss
VNR (POL)	2020/03/02 10:48:35	2020/03/02 12:29:32	1:40:57	Packet loss
VNR (NP)	2019/12/15 05:40:02	2019/12/15 14:58:10	9:18:08	Tentative stop of POL-tilt operation(※4)
VNR (POL)	2019/12/15 05:38:26	2019/12/15 15:00:30	9:22:04	Tentative stop of POL-tilt operation(※4)
VNR (NP)	2019/10/20 05:16:27	2019/10/20 09:35:50	4:19:23	Tentative stop of POL-tilt operation(※3)
VNR (POL)	2019/10/20 05:16:35	2019/10/20 09:35:42	4:19:07	Tentative stop of POL-tilt operation(※3)
IRS (SWI)	2019/06/19 02:19:06	2019/06/19 02:19:06	0:00:01	Packet loss
VNR (NP)	2019/02/02 08:21:44	2019/02/02 10:55:26	2:33:42	Tentative stop of POL-tilt operation(※2)
VNR (POL)	2019/02/02 08:19:54	2019/02/02 11:00:50	2:40:56	Tentative stop of POL-tilt operation(※2)
VNR (NP)	2019/01/12 14:44:43	2019/01/12 14:44:44	0:00:01	Packet loss
VNR (POL)	2019/01/06 00:57:14	2019/01/06 00:57:15	0:00:01	Packet loss
VNR (NP)	2018/12/28 14:35:53	2018/12/28 14:35:54	0:00:01	X-downlink data decode loss
VNR (NP)	2018/12/28 14:27:22	2018/12/28 14:27:23	0:00:01	X-downlink data decode loss
IRS (TIR)	2018/12/28 14:27:21	2018/12/28 14:27:22	0:00:01	X-downlink data decode loss
VNR (NP)	2018/08/04 10:06:55	2018/08/04 12:40:28	2:33:33	Tentative stop of POL-tilt operation(※1)
VNR (POL)	2018/08/04 10:04:39	2018/08/04 12:42:45	2:38:06	Tentative stop of POL-tilt operation(※1)
VNR (POL)	2018/05/24 00:03:20	2018/05/24 01:01:40	0:58:20	Command operation inconsistency
VNR (NP)	2018/05/24 00:03:13	2018/05/24 00:56:59	0:53:47	Command operation inconsistency
IRS (SWI)	2018/05/24 00:03:09	2018/05/24 00:57:03	0:53:54	Command operation inconsistency
VNR (POL)	2018/05/21 13:50:55	2018/05/22 11:07:16	21:16:21	Tentative stop of MDR operation
VNR (NP)	2018/05/21 13:50:55	2018/05/22 11:07:16	21:16:21	Tentative stop of MDR operation
IRS (SWI)	2018/05/21 13:50:55	2018/05/22 11:07:15	21:16:21	Tentative stop of MDR operation
IRS (TIR)	2018/05/21 13:50:55	2018/05/22 11:07:15	21:16:21	Tentative stop of MDR operation

Table 2. Observation Plan Update

Sensor	From(UT)	To(UT)	duration hh:mm:ss	Comments (※ : relationship with Table 1.)
VNR (NP) VNR (POL) IRS (SWI) IRS (TIR)	2023/05/01 04:19	2023/05/01 04:19	0:00:04	Different observation pitch angle because of the WDT recovery .
VNR (NP) VNR (POL)	2023/01/30 01:09	2023/01/30 11:12	10:03:00	Different observation sequence because of the POL-tilt recovery operation corresponds to the missing data .(※7)
VNR (NP) VNR (POL)	2022/11/17 00:26	2022/11/17 08:48	8:22:00	Different observation sequence because of the POL-tilt recovery operation corresponds to the missing data .(※6)
VNR (NP) VNR (POL)	2020/06/19 00:35	2020/06/19 08:57	8:22:00	Different observation sequence because of the POL-tilt recovery operation corresponds to the missing data .(※5)
VNR (NP) VNR (POL) IRS (SWI) IRS (TIR)	2020/03/10 00:36	2020/03/10 00:37	0:00:48	Different observation pitch angle because of the WDT recovery .
VNR (NP) VNR (POL)	2019/12/15 03:21	2019/12/15 15:07	11:46:00	Different observation sequence because of the POL-tilt recovery operation corresponds to the missing data .(※4)
VNR (NP) VNR (POL)	2019/10/20 01:19	2019/10/20 09:41	8:22:00	Different observation sequence because of the POL-tilt recovery operation corresponds to the missing data .(※3)
VNR (NP) VNR (POL)	2019/02/01 15:56	2019/02/02 11:41	19:45:00	Different observation sequence because of the POL-tilt recovery operation corresponds to the missing data .(※2)
VNR (NP) VNR (POL) IRS (SWI) IRS (TIR)	2018/11/22 00:00	2018/11/22 08:33	8:33:00	Command operation inconsistency (tilt operation is stop)
VNR (NP) VNR (POL)	2018/08/04 04:38	2018/08/04 12:52	8:14:00	Different observation sequence because of the POL-tilt recovery operation corresponds to the missing data .(※1)

Update : 2025/03/05