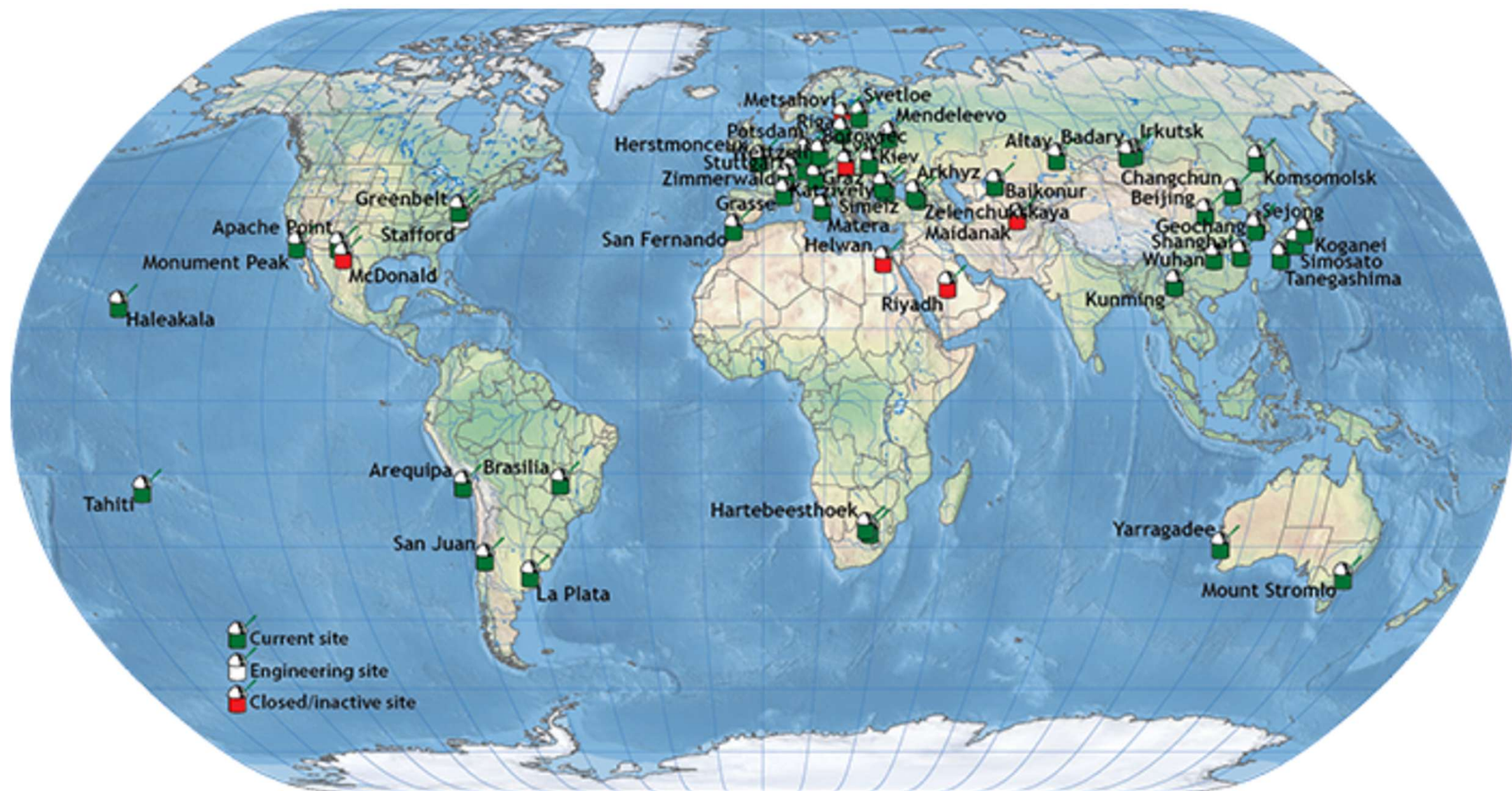
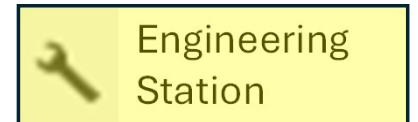




Stations in Quarantine

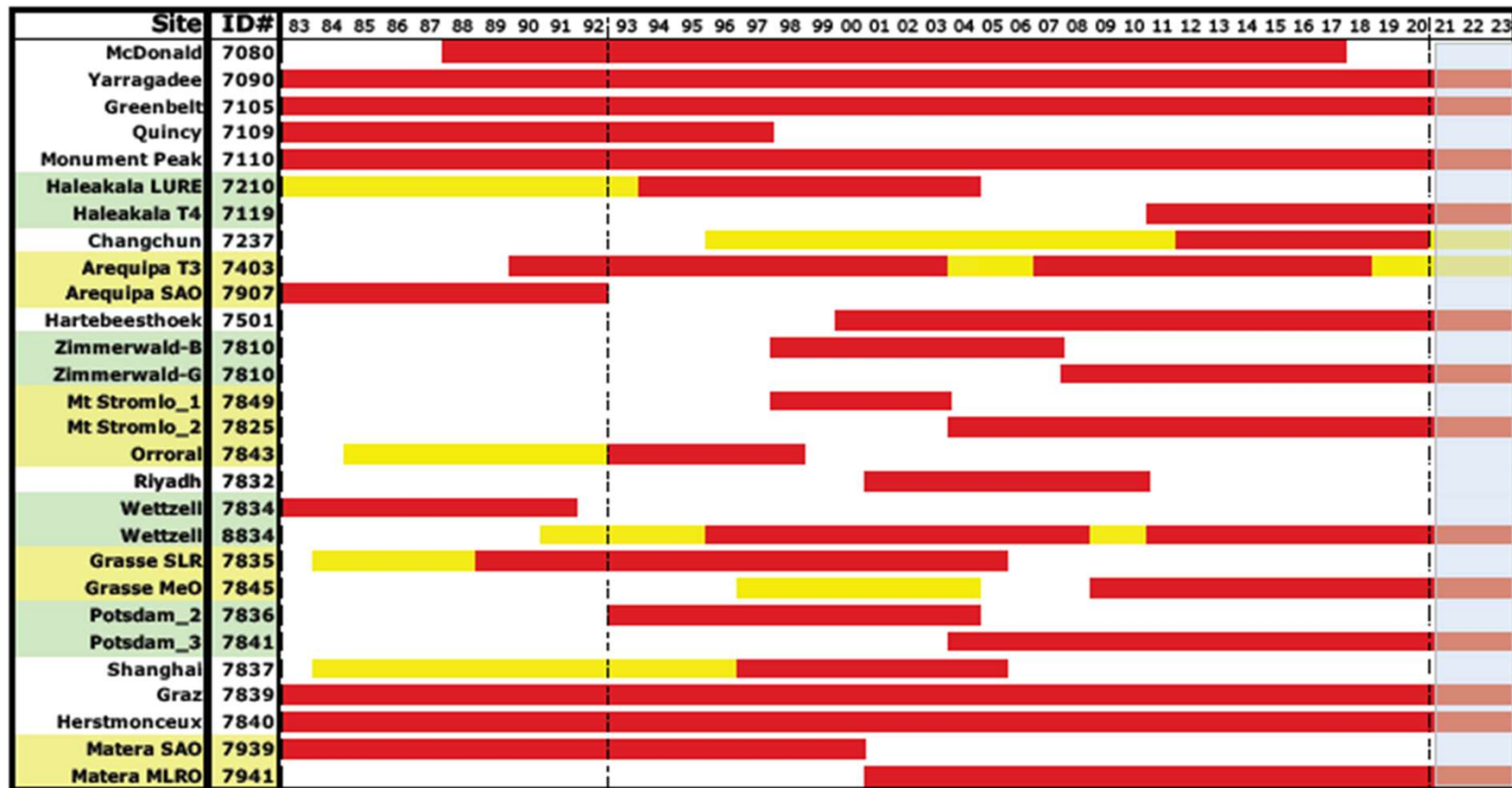
Station	Code	Site	DC	SOD	DOMES	First Data	Last Data	
1868	KOML	Komsomolsk-na-Amure, Russia	EDC	18685901	12341S001	1992-06-19	2021-04-22	1845 day(s)
1879	ALTL	Altay, Russia	EDC	18799401	12372S001	2008-11-19	2021-04-23	1844 day(s)
1886	ARKL	Arkhyz, Russia 	EDC	18869601	12373S001	2010-12-03	2022-07-09	1402 day(s)
1887	BAIL	Baikonur, Kazakhstan 	EDC	18879701	25603S001	2011-10-17	2022-12-28	1230 day(s)
1889	ZELL	Zelenchukskya, Russia	EDC	18899901	12351S002	2011-12-05	2026-01-21	110 day(s)
1890	BADL	Badary, Russia	EDC	18900901	12338S004	2011-07-23	2026-05-10	1 day(s)
7317	ISHL	Ishioka, Japan 	EDC	73179501	21791S000	2025-02-13	2026-03-12	60 day(s)
7329	NTSC	Xian, China	EDC	73298401	21614S001	2025-05-27	2026-01-16	115 day(s)
7394	SEJL	Sejong City, Republic of Korea	EDC	73942601	23907S002	2016-01-11	2026-04-29	12 day(s)
7395	GEOL	Geochang, Republic of Korea	EDC	73956501	23910S001	n.a.	n.a.	n.a.
7407	BRAL	Brasilia, Brazil	EDC	74072701	48081S001	2014-05-12	2021-08-30	1715 day(s)
7503	HRTL	Hartebeesthoek, South Africa 	EDC	75036401	30301S010	2017-03-24	2026-05-02	9 day(s)
7701	IZ1L	Tenerife, Spain	EDC	77015701	31336S001	2021-11-29	2025-07-03	312 day(s)
7807	METN	Metsahovi, Finland	EDC	78077501	10503S018	n.a.	n.a.	n.a.
7811	BORL	Borowiec, Poland	EDC	78113802	12205S001	1988-05-13	2025-06-18	327 day(s)
7816	SMIL	Stuttgart, Germany 	EDC	78165202	10916S001	2023-02-07	2023-06-06	1070 day(s)
7825	STL3	Mt Stromlo, Australia	EDC	78259001	50119S003	2004-08-14	2025-12-09	153 day(s)
7827	SOSW	Wettzell, Germany (SOSW)	EDC	78272201	14201S045	2014-04-17	2025-11-20	172 day(s)
7865	STAL	Stafford, Virginia 	NASA	78658601	49654M001	2019-09-11	2019-10-18	2397 day(s)



Future New ILRS Systems

Pad Id	Location	Comments
TBD	Ny Ålesund, Norway	SGSLR
TBD	Haleakala, Hawaii, USA	SGSLR, replacement for 7119
TBD	McDonald, Texas, USA	SGSLR, replacement for 7080
7945	Matera, Italy	New system to colocate with 7941
7807	Metsahovi, Finland	New system replacing 7806. status?
7318	Syowa, Antarctica	OMNI-SLR
7395	Geochang, South Korea	Status?
TBD	Mount Abu, India	Equipment damaged during flood, status?
TBD	Ponmundi, India	Equipment damaged during flood, status?
TBD	Irkutsk, Russia	New system, colocated with 1891, status?
TBD	Mendeleevo, Russia	New System, colocated with 1874, status?
TBD	La Plata, Argentina	TIGO system, re-location from Concepcion, status?
TBD	San Juan, Argentina	Upgrade of existing system, status?

ITRF2020 ILRS Core Sites



Legend

Current Core Site

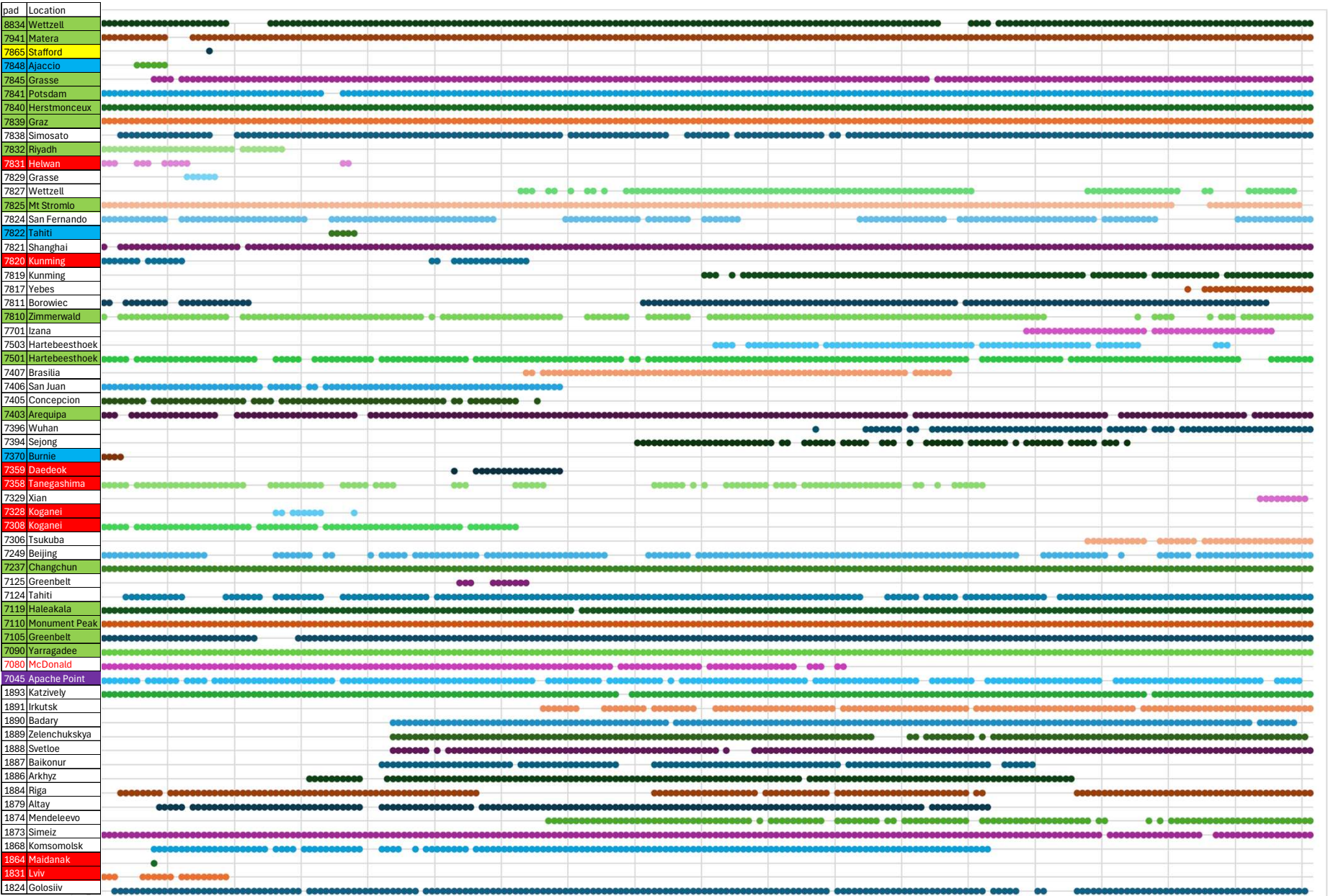
Closed Core Site

Lunar

FTLRS (Transportable)

Engineering

Closed



Station	Location	Local Hour																								
		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
1824 (532)	Golosiv	13.2%	12.6%	11.2%	11.0%	6.4%	3.2%	1.7%	0.4%											1.1%	3.0%	5.2%	9.2%	10.1%	11.6%	
1868 (532)	Komsomolsk	5.0%	7.9%	6.9%		6.6%	7.9%														1.9%	9.1%	14.5%	16.1%	24.0%	
1873 (532)	Simeiz	10.9%	12.3%	10.9%	11.2%	8.4%	3.2%	0.5%	0.1%												2.2%	6.1%	9.2%	11.8%	13.2%	
1874 (532)	Mendeleevo	18.0%	8.1%	0.2%								0.1%	0.7%	0.7%	0.4%	0.3%	0.6%	1.0%	0.8%	1.5%	1.5%	4.9%	13.6%	20.7%	26.8%	
1879 (532)	Altay	13.5%	8.4%	9.2%	4.9%	8.7%	6.2%	5.9%	4.4%	2.5%											3.2%	3.5%	7.4%	14.0%	8.2%	
1884 (532)	Riga	14.9%	12.7%	12.9%	8.8%	5.8%	2.8%	1.5%	0.4%	0.2%									0.1%	0.8%	2.5%	5.4%	7.6%	11.0%	12.5%	
1886 (532)	Arkhyz	10.8%	12.1%	9.8%	8.5%	4.3%	1.7%	0.4%											0.6%	2.7%	4.2%	3.9%	12.4%	12.6%	16.2%	
1887 (532)	Baikonur	21.0%	12.4%	7.8%	4.8%	2.5%																5.1%	25.7%	20.7%		
1888 (532)	Svetloe	11.0%	9.7%	8.4%	9.7%	9.1%	7.3%	6.6%	4.9%	3.3%	1.4%	1.0%	1.3%	0.9%	0.8%	0.6%	0.6%	0.8%	0.8%	1.0%	2.3%	2.0%	2.8%	5.8%	8.0%	
1889 (532)	Zelenchukskya	5.8%	7.1%	6.0%	6.4%	6.0%	4.8%	3.2%	2.4%	1.0%	2.1%	1.9%	2.7%	2.3%	2.4%	1.9%	3.0%	3.1%	3.6%	3.4%	5.2%	6.4%	6.2%	6.2%	6.7%	
1890 (532)	Badary	7.4%	6.5%	6.1%	4.7%	4.2%	3.3%	1.8%	1.2%	1.0%	1.0%	1.2%	1.9%	1.4%	1.9%	2.1%	2.2%	3.0%	3.1%	4.8%	5.4%	9.0%	8.6%	9.5%	8.7%	
1891 (532)	Irkutsk	0.1%							0.2%	3.1%	7.7%	7.7%	8.5%	9.6%	10.6%	10.9%	11.7%	10.8%	7.6%	6.5%	3.3%	0.3%	0.7%	0.7%	0.1%	
1893 (532)	Katzively	12.1%	12.6%	11.8%	10.0%	7.8%	4.2%	1.9%	0.2%											0.3%	3.7%	5.0%	9.0%	9.3%	11.8%	
7090 (532)	Yarragadee	4.9%	4.7%	4.3%	5.4%	5.5%	4.4%	3.6%	3.6%	3.4%	3.4%	3.3%	3.4%	3.5%	3.5%	3.5%	3.9%	4.0%	3.8%	3.6%	4.6%	5.3%	5.1%	4.6%	4.8%	
7105 (532)	Greenbelt	9.2%	8.8%	9.2%	9.2%	7.8%	3.7%	1.6%	1.1%	1.2%	0.9%	0.7%	0.7%	0.8%	1.0%	1.2%	1.2%	1.9%	1.9%	2.6%	5.4%	5.3%	6.7%	7.9%	9.8%	
7110 (532)	Monument Peak					0.0%	2.8%	3.3%	4.0%	4.5%	3.6%	3.5%	4.7%	5.3%	4.9%	5.0%	6.0%	7.2%	6.7%	10.1%	15.0%	11.1%	2.2%	0.1%		
7119 (532)	Haleakala								0.4%	6.4%	6.1%	5.4%	5.3%	5.8%	6.5%	8.3%	7.2%	8.2%	8.6%	6.9%	8.8%	7.4%	5.2%	3.1%	0.6%	
7124 (532)	Tahiti	11.2%	12.0%	3.7%		0.9%	6.2%	4.8%	4.7%	3.0%	2.4%	2.0%	2.5%	2.1%						0.4%	7.9%	9.6%	9.1%	8.0%	9.4%	
7237 (532)	Changchun	7.5%	7.2%	5.9%	6.3%	4.9%	3.5%	2.8%	1.2%	0.6%	1.0%	0.6%	0.6%	0.8%	0.6%	1.1%	1.5%	2.7%	4.1%	5.7%	7.5%	8.8%	8.8%	8.3%	8.1%	
7249 (532)	Beijing	9.2%	6.1%	5.4%	3.9%	2.9%	1.0%	0.5%		0.2%	0.1%	0.2%	0.1%	0.1%	0.0%	0.1%	0.1%	0.5%	0.7%	3.4%	7.2%	14.5%	15.4%	14.4%	14.2%	
7306 (1064)	Tsukuba	3.7%	3.7%	3.7%	5.0%	2.5%	3.7%	9.3%			9.9%	4.3%	3.7%	5.6%		3.7%	8.1%	3.7%	6.8%	13.0%	2.5%	3.7%		3.1%		
7306 (532)	Tsukuba	10.5%	8.0%	1.5%	1.7%	1.2%	0.8%	0.5%									0.2%	0.6%	2.6%	6.6%	13.3%	14.3%	14.0%	11.8%	12.5%	
7329 (532)	Xian	8.1%	11.8%	5.5%	6.0%	6.2%	4.5%	2.3%	0.8%	0.1%								0.1%	2.3%	3.9%	5.6%	7.5%	11.7%	12.4%	11.2%	
7394 (532)	Sejong	14.8%	12.8%	6.0%	7.9%	10.7%	4.4%	1.5%													1.3%	7.2%	16.1%	10.1%	7.3%	
7396 (532)	Wuhan	9.9%	9.9%	9.9%	8.8%	8.3%	4.5%	0.8%											0.1%	1.7%	6.2%	8.9%	10.3%	10.5%	10.0%	
7403 (532)	Arequipa	8.5%	9.3%	8.4%	9.4%	12.1%	6.2%	0.8%	0.1%	0.1%	0.0%		0.1%					0.1%	0.1%	1.0%	1.5%	8.2%	10.0%	11.9%	12.2%	
7501 (532)	Hartebeesthoek	7.8%	9.0%	9.1%	11.0%	9.9%	4.7%	0.2%											0.1%	3.3%	8.5%	9.4%	10.0%	8.2%	8.7%	
7503 (532)	Hartebeesthoek	7.3%	6.5%	5.9%	6.5%	6.6%	3.1%	1.1%	0.5%	0.4%	1.8%	1.0%	2.0%	0.2%	0.3%	0.5%	1.2%	2.6%	3.4%	7.8%	10.3%	12.4%	11.3%	3.7%	3.8%	
7701 (1064)	Izaña	2.5%	1.2%	0.8%	0.6%	1.5%	3.0%	3.2%	6.9%	6.7%	7.5%	5.3%	4.8%	2.1%	1.5%	2.9%	3.0%	3.3%	4.5%	5.1%	10.2%	8.5%	7.4%	5.2%	2.4%	
7701 (532)	Izaña			1.5%	1.2%	0.9%	7.9%	0.6%	4.0%	12.8%	9.4%	8.2%	2.4%	2.7%	2.7%		1.8%	1.5%	1.8%	4.9%	11.2%	14.9%	7.3%	0.9%	1.2%	
7810 (532)	Zimmerwald	4.9%	4.5%	4.3%	5.4%	4.9%	4.4%	3.7%	3.7%	4.1%	3.7%	4.1%	3.5%	3.9%	3.6%	4.5%	4.6%	4.6%	3.9%	3.8%	3.8%	3.9%	3.7%	4.1%	4.6%	
7811 (532)	Borowiec	15.5%	12.3%	7.4%	2.8%	2.2%	1.3%													0.2%	2.5%	6.0%	9.1%	11.1%	12.8%	16.7%
7817 (1064)	Yebes	3.2%	0.5%	0.4%	0.5%	0.1%	0.5%	1.3%	4.0%	3.9%	5.6%	5.7%	6.3%	6.0%	5.7%	6.3%	4.5%	5.0%	5.9%	5.1%	4.0%	5.1%	7.3%	6.2%	6.8%	
7817 (532)	Yebes	10.1%	5.0%		0.3%	0.3%	1.0%	1.6%	1.4%	0.6%	1.3%	0.3%		0.2%	0.8%	0.3%		0.6%		7.1%	10.6%	10.9%	15.4%	17.8%	14.5%	
7819 (532)	Kunming	9.8%	8.9%	8.9%	9.1%	7.7%	6.1%	2.7%	0.1%										0.0%	0.5%	5.0%	10.1%	10.7%	10.4%	10.0%	
7821 (532)	Shanghai	6.5%	5.2%	5.2%	4.6%	2.9%	1.6%	1.4%	1.2%	1.8%	2.8%	3.6%	3.9%	3.6%	3.5%	3.7%	3.8%	4.1%	4.6%	4.9%	5.3%	5.6%	6.6%	6.4%	7.3%	
7824 (532)	San Fernando	11.5%	8.5%	10.5%	11.6%	4.3%	2.5%													1.8%	3.7%	7.6%	13.7%	14.7%	9.4%	
7825 (532)	Mt Stromlo	4.4%	5.3%	5.4%	4.8%	5.4%	5.4%	3.7%	3.6%	4.3%	3.8%	3.4%	3.4%	3.6%	3.5%	3.2%	3.3%	3.5%	3.7%	3.6%	3.5%	4.7%	5.8%	4.9%	3.9%	
7827 (850)	Wettzell	6.2%	6.0%	5.3%	5.5%	4.5%	4.4%	3.8%	3.8%	3.9%	4.1%	3.5%	2.9%	2.5%	1.7%	2.3%	2.8%	3.1%	3.0%	3.3%	4.4%	4.7%	5.5%	6.2%	6.5%	
7838 (532)	Simosato	3.7%	1.1%	0.9%	1.3%	1.8%	2.3%	1.7%	1.7%	1.2%	1.3%	1.4%	1.0%	1.4%	1.4%	1.2%	2.4%	2.8%	4.6%	7.7%	12.8%	12.5%	12.6%	10.8%	10.3%	
7839 (532)	Graz	6.8%	5.5%	3.2%	2.5%	1.5%	0.9%	1.5%	2.9%	4.1%	4.3%	4.3%	4.1%	4.2%	3.5%	3.2%	3.8%	3.2%	3.2%	4.0%	5.3%	7.0%	6.9%	7.2%	6.7%	
7840 (532)	Herstmonceux	6.2%	4.5%	1.5%	0.3%	1.6%	3.3%	3.3%	3.6%	4.3%	3.8%	3.3%	3.2%	3.3%	3.4%	2.9%	3.5%	4.3%	5.0%	5.3%	6.4%	6.8%	6.9%	6.6%	6.6%	
7841 (532)	Potsdam	3.7%	3.5%	2.8%	4.9%	7.5%	6.4%	5.0%	4.0%	3.7%	3.0%	2.3%	2.3%	1.7%	1.2%	1.6%	2.1%	2.8%	3.2%	4.2%	6.4%	7.8%	8.1%	6.5%	5.1%	
7845 (532)	Grasse	5.3%	5.2%	3.9%	3.5%	3.5%	3.3%	3.6%	3.3%	4.4%	5.0%	4.8%	3.0%	1.8%	3.3%	4.0%	4.2%	4.2%	4.4%	3.8%	4.8%	4.3%	5.3%	5.6%	5.7%	
7941 (532)	Matera	5.1%	4.9%	2.8%	3.2%	3.4%	3.8%	3.5%	4.0%	4.5%	4.4%	4.0%	3.8%	3.9%	3.6%	3.7%	4.0%	4.5%	3.9%	4.4%	4.6%	4.8%	4.8%	5.3%	5.2%	
8834 (1064)	Wettzell	5.2%	5.1%	4.6%	4.7%	4.5%	4.7%	3.8%	4.0%	3.7%	4.4%	3.9%	4.0%	3.3%	3.6%	3.4%	3.8%	3.7%	3.4%	3.5%	4.0%	4.6%	4.4%	4.7%	4.7%	
8834 (532)	Wettzell	6.2%	6.1%	5.6%	5.5%	4.9%	5.0%	3.5%	3.5%	3.2%	2.9%	3.2%	3.0%	2.6%	3.0%	2.7%	3.6%	3.5%	3.7%	3.8%	4.0%	5.3%	5.1%	4.9%	5.3%	

Percent of NPs/local hour (2021-2025)

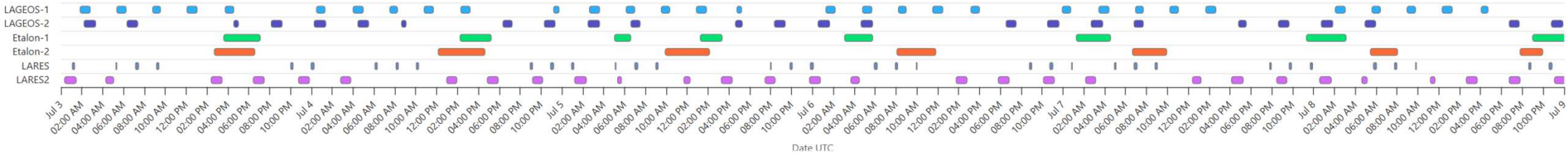
- Some stations do not track during the day and some stations are limited to one or two shifts

Yellow: NPs are evenly distributed during the day.
8834 (1064) Wettzell is best example

Legend	
Min	Max
0.00%	1.17%
1.17%	3.17%
3.17%	5.17%
5.17%	7.17%
7.17%	9.17%
9.17%	11.17%
11.17%	13.17%
13.17%	
no data	
ITRF2020 Core Station	
Infrared Systems	

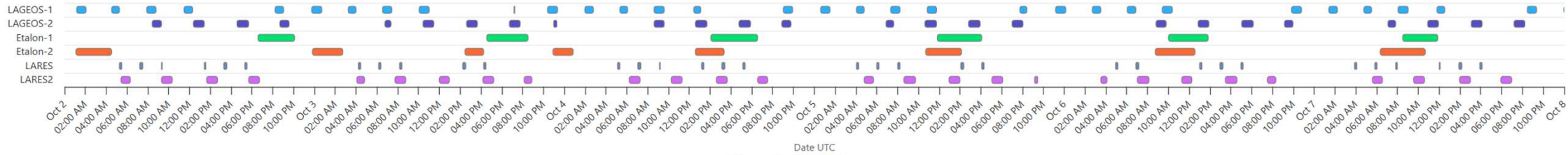
Greenbelt 7105
WEEK: 2025-07-03 - 2025-07-09

Minimum Elevation: L1/L2/LARES/LARES2: 10° E1/E2: 30°



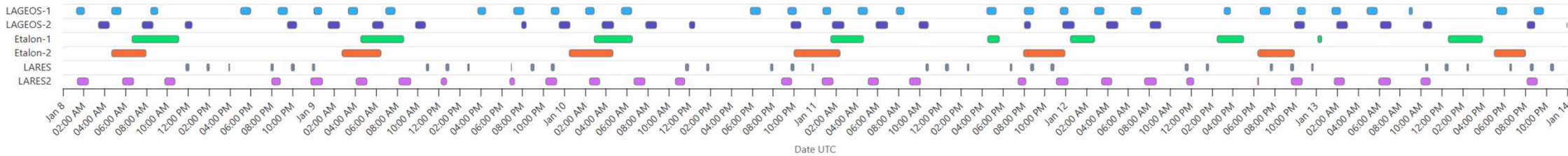
Greenbelt 7105
WEEK: 2025-10-02 - 2025-10-08

Minimum Elevation: L1/L2/LARES/LARES2: 10° E1/E2: 30°



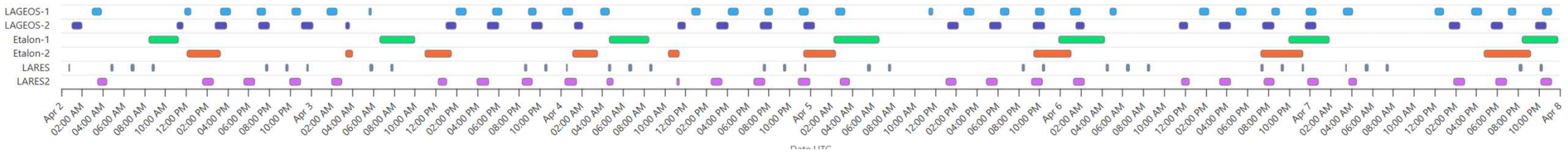
Greenbelt 7105
WEEK: 2026-01-08 - 2026-01-14

Minimum Elevation: L1/L2/LARES/LARES2: 10° E1/E2: 30°



Greenbelt 7105
WEEK: 2026-04-02 - 2026-04-08

Minimum Elevation: L1/L2/LARES/LARES2: 10° E1/E2: 30°



Percent of NPs per Month (2021-2025)

Station	Location	Month											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1824 (532)	Golosiiv	4.1%	7.9%	10.3%	6.2%	8.2%	4.9%	8.8%	15.6%	14.2%	12.1%	3.9%	3.7%
1868 (532)	Komsomolsk	1.9%	32.5%	39.7%	25.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1873 (532)	Simeiz	4.0%	9.5%	8.9%	9.7%	8.7%	9.0%	7.8%	6.1%	15.9%	13.8%	2.7%	3.9%
1874 (532)	Mendeleevo	1.7%	4.0%	10.9%	8.2%	13.5%	13.3%	10.3%	12.5%	14.5%	4.9%	3.8%	2.4%
1879 (532)	Altay	25.2%	29.0%	23.1%	22.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1884 (532)	Riga	2.6%	6.2%	11.1%	8.9%	10.8%	7.3%	7.8%	13.7%	13.3%	12.0%	4.7%	1.6%
1886 (532)	Arkhyz	5.8%	3.1%	17.1%	10.8%	17.0%	6.9%	11.8%	2.7%	5.0%	9.7%	5.8%	4.2%
1887 (532)	Baikonur	9.6%	6.1%	5.8%	20.0%	0.0%	0.0%	12.1%	16.8%	18.9%	6.1%	4.4%	0.2%
1888 (532)	Svetloe	1.8%	3.0%	5.4%	11.6%	9.8%	12.2%	15.7%	11.3%	12.1%	8.9%	3.0%	5.4%
1889 (532)	Zelenchukskya	12.2%	5.9%	3.4%	6.0%	5.2%	5.6%	5.6%	13.0%	9.0%	10.4%	11.5%	12.4%
1890 (532)	Badary	8.0%	14.7%	16.7%	6.4%	5.8%	3.6%	1.8%	5.9%	5.5%	15.4%	8.9%	7.3%
1891 (532)	Irkutsk	9.7%	5.6%	8.3%	6.3%	5.6%	4.6%	7.5%	7.8%	8.5%	16.2%	11.4%	8.3%
1893 (532)	Katzively	8.8%	8.5%	4.2%	9.6%	10.6%	10.1%	7.7%	7.8%	6.8%	14.5%	5.7%	5.7%
7090 (532)	Yarragadee	9.0%	8.7%	9.3%	8.1%	8.1%	6.7%	6.5%	8.6%	8.8%	8.7%	8.9%	8.5%
7105 (532)	Greenbelt	7.1%	7.3%	11.7%	8.3%	6.3%	6.4%	6.2%	6.5%	9.1%	10.6%	10.5%	10.0%
7110 (532)	Monument Peak	8.9%	7.2%	6.3%	9.0%	7.5%	6.1%	6.5%	7.0%	9.8%	13.7%	8.6%	9.3%
7119 (532)	Haleakala	9.5%	9.1%	6.5%	6.1%	9.1%	10.1%	8.6%	8.6%	8.4%	9.6%	7.5%	6.9%
7124 (532)	Tahiti	7.0%	10.5%	8.3%	5.3%	16.2%	13.5%	3.9%	5.4%	11.7%	8.0%	5.7%	4.5%
7237 (532)	Changchun	13.2%	10.1%	8.8%	5.1%	5.5%	3.3%	3.5%	6.5%	9.2%	7.7%	11.3%	15.9%
7249 (532)	Beijing	12.8%	5.6%	9.4%	8.6%	7.4%	5.2%	4.7%	6.0%	12.5%	9.5%	12.3%	6.0%
7306 (1064)	Tsukuba	19.3%	42.2%	18.6%	1.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	9.9%	8.7%
7306 (532)	Tsukuba	12.5%	18.7%	12.6%	8.9%	8.7%	3.0%	3.7%	4.1%	4.0%	5.2%	7.3%	11.3%
7329 (532)	Xian	0.0%	0.0%	0.0%	0.0%	4.9%	9.7%	14.8%	7.5%	11.4%	5.0%	20.7%	25.9%
7394 (532)	Sejong	9.4%	19.1%	22.7%	18.0%	5.8%	0.5%	6.6%	0.0%	9.0%	6.7%	0.6%	1.8%
7396 (532)	Wuhan	5.4%	2.8%	7.6%	6.2%	6.7%	4.1%	9.8%	10.7%	9.6%	11.6%	13.6%	11.9%
7403 (532)	Arequipa	0.7%	0.0%	0.4%	4.2%	16.4%	25.2%	17.7%	17.3%	4.9%	3.3%	7.2%	2.8%
7501 (532)	Hartebeesthoek	1.4%	1.0%	3.1%	3.2%	13.7%	13.0%	15.7%	23.6%	9.8%	7.9%	5.1%	2.5%
7503 (532)	Hartebeesthoek	4.3%	2.8%	1.1%	2.1%	7.9%	19.7%	21.4%	17.8%	14.9%	3.8%	2.3%	2.1%
7701 (1064)	Izaña	7.0%	7.2%	9.0%	8.7%	13.8%	11.9%	7.3%	3.3%	9.4%	5.5%	9.3%	7.6%
7701 (532)	Izaña	44.1%	54.1%	0.0%	0.0%	0.0%	1.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
7810 (532)	Zimmerwald	7.4%	5.5%	6.1%	9.3%	5.9%	7.1%	7.9%	11.2%	10.2%	11.9%	10.8%	6.6%
7811 (532)	Borowiec	6.6%	6.0%	18.7%	10.3%	8.1%	5.8%	6.2%	10.5%	11.8%	10.0%	3.8%	2.3%
7817 (1064)	Yebes	1.3%	0.9%	3.0%	9.2%	10.9%	11.8%	18.0%	17.8%	5.8%	6.1%	8.1%	7.1%
7817 (532)	Yebes	0.0%	0.0%	0.0%	2.3%	5.9%	4.9%	5.8%	12.9%	17.3%	19.7%	30.1%	1.0%
7819 (532)	Kunming	13.3%	10.7%	9.4%	10.2%	7.6%	3.9%	3.9%	3.2%	4.1%	4.4%	13.0%	16.3%
7821 (532)	Shanghai	14.0%	5.3%	8.5%	4.1%	5.3%	1.8%	4.3%	11.0%	8.7%	10.8%	14.3%	11.9%
7824 (532)	San Fernando	0.7%	0.6%	8.9%	12.7%	24.8%	12.2%	15.1%	4.7%	7.0%	5.6%	2.9%	4.9%
7825 (532)	Mt Stromlo	6.1%	5.1%	5.7%	7.9%	9.3%	12.1%	9.6%	9.5%	12.2%	9.0%	7.1%	6.5%
7827 (850)	Wettzell	4.4%	3.7%	5.9%	14.1%	9.9%	9.7%	5.5%	12.6%	14.1%	9.6%	6.4%	4.0%
7838 (532)	Simosato	11.6%	12.0%	10.8%	4.2%	2.6%	3.9%	4.7%	5.2%	6.2%	9.8%	13.3%	15.8%
7839 (532)	Graz	8.2%	7.7%	8.4%	6.0%	5.1%	6.7%	9.1%	12.1%	10.4%	8.9%	9.3%	8.0%
7840 (532)	Herstmonceux	6.8%	7.2%	8.1%	10.6%	8.5%	11.0%	9.6%	10.5%	9.2%	6.0%	8.3%	4.2%
7841 (532)	Potsdam	6.3%	10.0%	10.0%	8.1%	9.9%	7.6%	7.1%	7.8%	11.0%	9.9%	6.9%	5.2%
7845 (532)	Grasse	9.7%	9.1%	7.2%	7.0%	7.2%	9.7%	8.7%	11.0%	8.7%	7.4%	8.6%	5.7%
7941 (532)	Matera	6.6%	5.2%	5.8%	6.4%	7.0%	10.6%	13.0%	14.4%	10.6%	8.8%	5.6%	6.0%
8834 (1064)	Wettzell	5.7%	8.9%	12.0%	9.5%	8.7%	8.0%	6.7%	8.4%	12.6%	8.4%	6.7%	4.4%
8834 (532)	Wettzell	8.3%	9.0%	10.8%	9.1%	8.1%	6.4%	4.2%	7.1%	12.0%	10.0%	8.5%	6.5%

Legend	
Min	Max
0.00%	2.33%
2.33%	6.33%
6.33%	10.33%
10.33%	14.33%
14.33%	18.33%
18.33%	
ITRF2020 Core Station	
Infrared System	

Yellow: NPs are evenly distributed by month
(7090 Yarragadee is best example)

Percent of NPs/Month by Region (2021-2025)

Region	Station	Location	Month											
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Europe and Western Russia	7840 (532)	Herstmonceux	6.8%	7.2%	8.1%	10.6%	8.5%	11.0%	9.6%	10.5%	9.2%	6.0%	8.3%	4.2%
	7845 (532)	Grasse	9.7%	9.1%	7.2%	7.0%	7.2%	9.7%	8.7%	11.0%	8.7%	7.4%	8.6%	5.7%
	7941 (532)	Matera	6.6%	5.2%	5.8%	6.4%	7.0%	10.6%	13.0%	14.4%	10.6%	8.8%	5.6%	6.0%
	7810 (532)	Zimmerwald	7.4%	5.5%	6.1%	9.3%	5.9%	7.1%	7.9%	11.2%	10.2%	11.9%	10.8%	6.6%
	7839 (532)	Graz	8.2%	7.7%	8.4%	6.0%	5.1%	6.7%	9.1%	12.1%	10.4%	8.9%	9.3%	8.0%
	8834 (1064)	Wettzell	5.7%	8.9%	12.0%	9.5%	8.7%	8.0%	6.7%	8.4%	12.6%	8.4%	6.7%	4.4%
	8834 (532)	Wettzell	8.3%	9.0%	10.8%	9.1%	8.1%	6.4%	4.2%	7.1%	12.0%	10.0%	8.5%	6.5%
	7827 (850)	Pottzell	4.4%	3.7%	5.9%	14.1%	9.9%	9.7%	5.5%	12.6%	14.1%	9.6%	6.4%	4.0%
	7841 (532)	Potsdam	6.3%	10.0%	10.0%	8.1%	9.9%	7.6%	7.1%	7.8%	11.0%	9.9%	6.9%	5.2%
	1884 (532)	Riga	2.6%	6.2%	11.1%	8.9%	10.8%	7.3%	7.8%	13.7%	13.3%	12.0%	4.7%	1.6%
	1888 (532)	Svetloe	1.8%	3.0%	5.4%	11.6%	9.8%	12.2%	15.7%	11.3%	12.1%	8.9%	3.0%	5.4%
Ukraine/Crimea	1824 (532)	Golosiiv	4.1%	7.9%	10.3%	6.2%	8.2%	4.9%	8.8%	15.6%	14.2%	12.1%	3.9%	3.7%
	1873 (532)	Simeiz	4.0%	9.5%	8.9%	9.7%	8.7%	9.0%	7.8%	6.1%	15.9%	13.8%	2.7%	3.9%
	1893 (532)	Katzively	8.8%	8.5%	4.2%	9.6%	10.6%	10.1%	7.7%	7.8%	6.8%	14.5%	5.7%	5.7%
Eastern Russia	1890 (532)	Badary	8.0%	14.7%	16.7%	6.4%	5.8%	3.6%	1.8%	5.9%	5.5%	15.4%	8.9%	7.3%
	1891 (532)	Irkutsk	9.7%	5.6%	8.3%	6.3%	5.6%	4.6%	7.5%	7.8%	8.5%	16.2%	11.4%	8.3%
China	7237 (532)	Changchun	13.2%	10.1%	8.8%	5.1%	5.5%	3.3%	3.5%	6.5%	9.2%	7.7%	11.3%	15.9%
	7249 (532)	Beijing	12.8%	5.6%	9.4%	8.6%	7.4%	5.2%	4.7%	6.0%	12.5%	9.5%	12.3%	6.0%
	7821 (532)	Shanghai	14.0%	5.3%	8.5%	4.1%	5.3%	1.8%	4.3%	11.0%	8.7%	10.8%	14.3%	11.9%
	7396 (532)	Wuhan	5.4%	2.8%	7.6%	6.2%	6.7%	4.1%	9.8%	10.7%	9.6%	11.6%	13.6%	11.9%
	7819 (532)	Kunming	13.3%	10.7%	9.4%	10.2%	7.6%	3.9%	3.9%	3.2%	4.1%	4.4%	13.0%	16.3%
Japan	7306 (532)	Tsukuba	12.5%	18.7%	12.6%	8.9%	8.7%	3.0%	3.7%	4.1%	4.0%	5.2%	7.3%	11.3%
	7838 (532)	Simosato	11.6%	12.0%	10.8%	4.2%	2.6%	3.9%	4.7%	5.2%	6.2%	9.8%	13.3%	15.8%
North America	7105 (532)	Greenbelt	7.1%	7.3%	11.7%	8.3%	6.3%	6.4%	6.2%	6.5%	9.1%	10.6%	10.5%	10.0%
	7110 (532)	Monument Peak	8.9%	7.2%	6.3%	9.0%	7.5%	6.1%	6.5%	7.0%	9.8%	13.7%	8.6%	9.3%
South Africa	7501 (532)	Hartebeesthoek	1.4%	1.0%	3.1%	3.2%	13.7%	13.0%	15.7%	23.6%	9.8%	7.9%	5.1%	2.5%
	7503 (532)	Hartebeesthoek	4.3%	2.8%	1.1%	2.1%	7.9%	19.7%	21.4%	17.8%	14.9%	3.8%	2.3%	2.1%
Australia	7090 (532)	Yarragadee	9.0%	8.7%	9.3%	8.1%	8.1%	6.7%	6.5%	8.6%	8.8%	8.7%	8.9%	8.5%
	7825 (532)	Mt Stromlo	6.1%	5.1%	5.7%	7.9%	9.3%	12.1%	9.6%	9.5%	12.2%	9.0%	7.1%	6.5%

Legend	
Min	Max
0.00%	2.33%
2.33%	6.33%
6.33%	10.33%
10.33%	14.33%
14.33%	18.33%
18.33%	
ITRF2020 Core Station	
Infrared System	

Yellow: NPs are evenly distributed between months (Yarragadee is best example)

Takeaway(s):
Weather conditions (regional/local) and holiday celebrations (e.g. New Year) can influence the trends

Percent of NPS/Day of Week (2021-2025)

Station	Location	Day of the Week						
		Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1824	Golosiiv	16.7%	15.7%	15.5%	12.0%	13.6%	13.7%	12.8%
1868	Komsomolsk	20.2%	9.1%	13.2%	21.8%	7.9%	11.7%	16.1%
1873	Simeiz	13.5%	12.6%	15.1%	14.6%	16.0%	14.5%	13.7%
1874	Mendeleevo	7.6%	18.8%	20.4%	19.5%	17.0%	14.4%	2.3%
1879	Altay	17.2%	12.4%	12.1%	11.0%	10.2%	16.1%	21.0%
1884	Riga	16.2%	14.5%	9.2%	14.9%	14.6%	16.0%	14.7%
1886	Arkhyz	10.9%	13.2%	14.5%	18.8%	14.0%	17.4%	11.3%
1887	Baikonur	11.9%	15.4%	14.5%	16.7%	14.8%	15.3%	11.4%
1888	Svetloe	15.3%	13.2%	12.5%	14.4%	12.8%	14.3%	17.5%
1889	Zelenchukskya	14.8%	10.4%	13.7%	14.3%	12.8%	15.4%	18.4%
1890	Badary	14.7%	15.4%	14.2%	15.2%	12.5%	12.9%	15.2%
1891	Irkutsk	0.6%	17.8%	20.0%	19.8%	21.1%	20.4%	0.3%
1893	Katzively	12.2%	13.8%	16.7%	15.1%	14.6%	13.6%	14.0%
7090	Yarragadee	14.1%	13.7%	13.9%	14.1%	14.4%	15.0%	14.8%
7105	Greenbelt	0.0%	15.1%	22.7%	21.4%	20.7%	18.8%	1.3%
7110	Monument Peak	0.0%	8.4%	17.7%	21.5%	21.8%	20.7%	10.0%
7119	Haleakala	10.1%	9.2%	12.8%	18.0%	20.9%	15.2%	13.8%
7124	Tahiti	0.0%	5.8%	27.5%	21.5%	23.1%	21.7%	0.4%
7237	Changchun	13.6%	14.8%	15.2%	14.6%	14.4%	12.6%	14.8%
7249	Beijing	15.3%	15.6%	15.5%	11.8%	15.3%	13.6%	12.9%
7306	Tsukuba	3.7%	12.1%	17.6%	23.8%	17.4%	20.8%	4.5%
7329	Xian	16.6%	17.8%	18.2%	15.8%	13.6%	8.1%	9.9%
7394	Sejong	0.0%	29.5%	23.0%	16.0%	31.5%	0.0%	0.0%
7396	Wuhan	13.4%	15.2%	14.6%	14.4%	15.2%	13.5%	13.7%
7403	Arequipa	14.2%	14.9%	11.1%	12.6%	16.3%	15.7%	15.2%
7501	Hartebeesthoek	8.0%	13.6%	16.4%	19.9%	16.6%	14.6%	10.8%
7503	Hartebeesthoek	11.9%	17.4%	12.9%	16.2%	15.1%	14.1%	12.4%
7701	Izaña	9.9%	17.5%	18.9%	15.3%	17.9%	14.5%	6.0%
7810	Zimmerwald	12.5%	11.8%	14.6%	15.0%	14.8%	16.6%	14.7%
7811	Borowiec	12.3%	12.2%	18.0%	15.8%	15.5%	14.1%	12.1%
7817	Yebes	9.5%	17.5%	15.9%	13.7%	19.3%	15.8%	8.2%
7819	Kunming	14.9%	14.1%	14.2%	14.3%	13.6%	15.8%	13.1%
7821	Shanghai	9.9%	15.4%	16.1%	13.9%	12.3%	14.6%	17.8%
7824	San Fernando	6.1%	19.1%	19.0%	14.1%	16.4%	14.5%	10.8%
7825	Mt Stromlo	15.2%	14.7%	13.7%	13.5%	13.7%	14.0%	15.3%
7827	Wettzell	10.4%	15.1%	18.8%	16.1%	15.8%	13.5%	10.3%
7838	Simosato	2.8%	17.6%	22.5%	23.5%	18.0%	15.3%	0.3%
7839	Graz	7.5%	17.3%	17.5%	15.9%	16.7%	15.9%	9.3%
7840	Herstmonceux	10.7%	15.6%	15.2%	15.6%	16.2%	16.4%	10.3%
7841	Potsdam	14.7%	15.1%	16.7%	15.3%	14.3%	12.0%	11.9%
7845	Grasse	1.0%	14.3%	20.6%	20.8%	19.5%	18.1%	5.7%
7941	Matera	15.9%	13.7%	13.7%	13.6%	13.9%	13.9%	15.3%
8834	Wettzell	16.4%	14.6%	14.8%	13.1%	13.4%	12.8%	14.9%

Legend	
Min	Max
0.000%	4.286%
4.286%	8.286%
8.286%	12.286%
12.286%	16.286%
16.286%	20.286%
20.286%	24.286%
24.286%	

Yellow: NPs are evenly distributed by day

Takeaway:
Some stations have no
Or limited weekend support

Station	Location	Maximum LAGEOS Laser Fire Rate	lageos1					lageos2					lares2			
			2021	2022	2023	2024	2025	2021	2022	2023	2024	2025	2022	2023	2024	2025
1824 (532)	Golosiiv	15 Hz	55.6%	22.7%	25.5%	30.2%	38.7%	91.7%	35.1%	27.6%	39.4%	51.0%	31.8%	23.9%	45.1%	45.7%
1868 (532)	Komsomolsk	300 Hz	2.8%					0.7%								
1873 (532)	Simeiz	10 Hz	41.9%	27.0%	26.9%	32.1%	59.8%	45.7%	28.8%	45.8%	44.7%	78.6%	60.5%	53.3%	29.9%	76.1%
1874 (532)	Mendeleevo	300 Hz	2.8%	3.5%	0.0%	0.0%	0.0%	4.2%	2.8%	0.0%	0.0%	0.0%		0.0%	0.0%	0.0%
1879 (532)	Altay	300 Hz	1.3%					0.6%								
1884 (532)	Riga	10 Hz	1.9%	1.3%	0.0%	0.0%	0.0%	0.0%	1.4%	0.0%	0.0%	0.0%	2.3%	0.0%	0.0%	1.8%
1886 (532)	Arkhyz	300 Hz	1.7%	5.4%				5.1%	5.0%							
1887 (532)	Baikonur	300 Hz	7.3%					10.4%								
1888 (532)	Svetloe	300 Hz	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			0.0%	0.0%
1889 (532)	Zelenchukskya	300 Hz	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%				0.0%
1890 (532)	Badary	300 Hz	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%				0.0%
1891 (532)	Irkutsk	300 Hz	0.5%	0.6%	0.0%	0.0%	0.0%	1.3%	0.8%	0.0%	0.0%	0.0%		0.0%	0.0%	0.0%
1893 (532)	Katzively	10 Hz	44.0%	11.9%	16.7%	40.7%	29.7%	53.6%	34.3%	30.4%	58.7%	45.4%	45.1%	36.9%	57.8%	56.1%
7090 (532)	Yarragadee	10 Hz	10.3%	9.1%	14.9%	12.9%	9.6%	14.5%	11.3%	16.1%	15.3%	11.4%	13.7%	18.3%	14.4%	13.3%
7105 (532)	Greenbelt	10 Hz	4.5%	6.0%	6.3%	7.2%	7.0%	5.0%	7.2%	8.2%	7.3%	9.2%	7.1%	6.7%	9.1%	11.7%
7110 (532)	Monument Peak	10 Hz	13.1%	7.5%	8.6%	6.3%	6.5%	16.3%	14.8%	9.6%	11.4%	10.2%	10.1%	9.7%	11.4%	11.4%
7119 (532)	Haleakala	5 Hz	11.5%	9.5%	12.8%	9.4%	11.2%	12.7%	19.4%	18.5%	15.3%	16.6%	15.9%	13.0%	15.0%	14.4%
7124 (532)	Tahiti	10 Hz	10.6%	15.0%	13.2%	9.3%	9.4%	18.7%	8.8%	15.1%	23.4%	19.6%	13.1%	14.0%	16.6%	29.3%
7237 (532)	Changchun	4 kHz	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.1%	0.1%
7249 (532)	Beijing	2 kHz	0.0%	1.2%	1.5%	1.2%	0.9%	0.0%	0.0%	1.2%	1.7%	1.4%	0.9%	1.8%	1.8%	0.8%
7306 (1064)	Tsukuba	1 kHz			0.0%	0.0%	0.0%			0.0%	0.0%	0.0%		0.0%	0.0%	0.0%
7306 (532)	Tsukuba	1 kHz		0.0%	0.0%	0.0%	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
7329 (532)	Xian	1 kHz					0.0%					0.0%				0.0%
7394 (532)	Sejong	5 kHz	0.0%	0.0%	0.0%			0.0%	0.0%	0.0%						
7396 (532)	Wuhan	4 kHz	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
7403 (532)	Arequipa	5 Hz	42.7%	42.2%	36.1%	24.2%	37.5%	53.8%	55.0%	43.0%	27.3%			47.7%	39.9%	
7501 (532)	Hartebeesthoek	10 Hz	6.6%	7.1%	8.2%	13.6%	13.8%	6.5%	7.1%	13.1%	18.1%	17.5%	9.7%	10.5%	29.2%	26.8%
7503 (532)	Hartebeesthoek	300 Hz	4.1%	1.6%				3.8%	1.4%							
7701 (1064)	Izaña	400 Hz		0.0%	0.0%	0.0%	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
7701 (532)	Izaña	400 Hz			0.0%	0.0%	0.0%				0.0%	0.0%		0.0%	0.0%	0.0%
7810 (532)	Zimmerwald	1 kHz	0.1%	0.4%	0.4%	1.0%	0.2%	0.0%	0.3%	0.0%	0.0%	0.2%		0.9%	0.0%	0.1%
7811 (532)	Borowiec	10 Hz	0.8%	1.0%	1.1%	0.9%	1.5%	4.1%	2.2%	1.3%	2.5%	3.5%	0.0%	1.9%	1.4%	4.3%
7817 (1064)	Yebes	1 kHz				0.0%	0.1%				0.0%	0.0%			0.0%	0.2%
7817 (532)	Yebes	1 kHz				0.0%	0.0%				0.0%	0.0%			0.0%	0.0%
7819 (532)	Kunming	1 kHz	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
7821 (532)	Shanghai	5 kHz	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
7824 (532)	San Fernando	10 Hz	0.0%	0.0%			0.8%	5.6%	0.0%	0.0%		1.1%				1.7%
7825 (532)	Mt Stromlo	60 Hz	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
7827 (850)	Wettzell	1 kHz		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
7838 (532)	Simosato	1 kHz	12.4%	25.7%	10.7%	7.1%	5.2%	13.9%	24.6%	14.2%	9.3%	7.8%	45.7%	10.2%	15.5%	9.3%
7839 (532)	Graz	2 kHz	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
7840 (532)	Herstmonceux	1 Hz	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
7841 (532)	Potsdam	2 kHz	0.0%	0.0%	0.0%	0.5%	0.0%	0.0%	0.0%	0.0%	0.5%	0.0%	0.0%	0.0%	1.3%	0.0%
7845 (532)	Grasse	10 Hz	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
7941 (532)	Matera	10 Hz	3.7%	2.2%	3.0%	2.7%	2.4%	3.6%	2.2%	2.6%	3.2%	3.2%	1.3%	3.4%	3.6%	4.8%
8834 (1064)	Wettzell	667 Hz	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
8834 (532)	Wettzell	667 Hz		0.0%	0.0%	0.0%	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

Percentage of Weak NPs (<=3 obs/NP Bin)

Legend	
Min	Max
0.00%	
0.01%	5.00%
5.00%	10.00%
10.00%	25.00%
25.00%	50.00%
50.00%	75.00%
75%	
N/A	
ITRF2020 Core Station	
Infrared System	

Takeaway:
Some stations require a minimum number of Obs/NP Bin to produce a NP and some stations don't