

## OBSERVING SCHEDULE (Times are in U.T.)

Date	Satellite	Start	End	Elev	Direction	Observer
Oct 1 Fri	ajisai	0422	0432	43	192 83 S -E	CP
Oct 1 Fri	saral	0422	0427	40	108 6 E -N	
Oct 1 Fri	gracefol	0432	0437	54	208 348 SW-N	
Oct 1 Fri	kompsat5	0447	0451	47	128 3 SE-N	
Oct 1 Fri	envisat	0517	0522	74	25 187 NE-S	
Oct 1 Fri	starlette	0536	0541	32	181 102 S -E	
Oct 1 Fri	saral	0602	0605	34	235 315 SW-NW	
Oct 1 Fri	terrasarx	0617	0621	56	32 172 NE-S	
Oct 1 Fri	tandemx	0617	0621	56	32 172 NE-S	
Oct 1 Fri	stella	0617	0621	47	48 162 NE-S	
Oct 1 Fri	ajisai	0621	0634	77	247 82 SW-E	
Oct 1 Fri	lageos1	0644	0719	43	43 156 NE-SE	
Oct 1 Fri	hy2b	0657	0705	76	11 205 N -SW	
Oct 1 Fri	geoik2	0702	0709	84	19 194 N -S	
Oct 1 Fri	starlette	0724	0731	69	238 85 SW-E	
Oct 1 Fri	sentinel6a	0734	0744	50	177 51 S -NE	
Oct 1 Fri	jason3	0734	0743	50	174 53 S -NE	
Oct 1 Fri	stella	0757	0801	31	329 254 NW-W	
Oct 1 Fri	lares	0809	0820	67	336 130 NW-SE	
Oct 1 Fri	technosat	0811	0815	55	199 333 S -NW	
Oct 1 Fri	ajisai	0823	0836	82	274 105 W -E	
Oct 1 Fri	swarma	0830	0833	60	346 191 N -S	
Oct 1 Fri	swarmc	0830	0833	59	345 191 N -S	
Oct 1 Fri	starlette	0913	0920	80	269 101 W -E	
Oct 1 Fri	swarmb	0918	0921	33	234 324 SW-NW	
Oct 1 Fri	jason3	0929	0939	56	251 29 W -NE	
Oct 1 Fri	sentinel6a	0930	0940	56	253 31 W -NE	
Oct 1 Fri	sentinel3b	1002	1006	46	46 161 NE-S	
Oct 1 Fri	lares	1008	1016	38	297 206 NW-SW	
Oct 1 Fri	lageos1	1016	1059	76	33 240 NE-SW	
Oct 1 Fri	ajisai	1026	1035	51	273 151 W -SE	
Oct 1 Fri	snet1	1027	1032	69	153 353 SE-N	
Oct 1 Fri	sentinel3a	1040	1047	85	15 198 N -S	
Oct 1 Fri	elsadchs	1057	1100	34	230 314 SW-NW	
Oct 1 Fri	starlette	1101	1108	47	265 144 W -SE	
Oct 1 Fri	jason3	1129	1135	30	316 23 NW-NE	
Oct 1 Fri	sentinel6a	1130	1136	30	321 27 NW-NE	
Oct 1 Fri	sentinel3b	1142	1146	31	332 256 NW-W	
Oct 1 Fri	icesat2	1146	1151	62	188 349 S -N	
Oct 1 Fri	hy2c	1159	1204	33	143 65 SE-NE	
Oct 1 Fri	cryosat2	1255	1258	30	91 31 E -NE	
Oct 1 Fri	sentinel6a	1328	1334	31	344 53 N -NE	
Oct 1 Fri	jason3	1328	1334	31	349 57 N -NE	
Oct 1 Fri	hy2c	1344	1352	61	241 32 SW-NE	
Oct 1 Fri	lageos1	1346	1422	52	58 303 NE-NW	
Oct 1 Fri	cryosat2	1432	1437	38	233 327 SW-NW	
Oct 1 Fri	larets	1511	1516	45	349 230 N -SW	
Oct 1 Fri	jason3	1523	1534	63	330 121 NW-SE	
Oct 1 Fri	sentinel6a	1524	1534	63	332 120 NW-SE	
Oct 1 Fri	beaconc	1545	1550	35	199 117 S -SE	

## OBSERVING SCHEDULE (Times are in U.T.)

Date	Satellite	Start	End	Elev	Direction	Observer
Oct 1 Fri	gracefol	1555	1559	69	10 170 N -S	TS

Oct	1	Fri	envisat	1635	1641	51	195	331	S	-NW
Oct	1	Fri	lageos2	1658	1725	33	141	72	SE	-E
Oct	1	Fri	terrasarx	1700	1705	48	133	1	SE	-N
Oct	1	Fri	tandemx	1700	1705	48	133	1	SE	-N
Oct	1	Fri	hy2b	1701	1709	75	150	349	SE	-N
Oct	1	Fri	geoik2	1704	1711	57	133	356	SE	-N
Oct	1	Fri	lageos1	1710	1752	78	124	327	SE	-NW
Oct	1	Fri	sentinel6a	1720	1729	43	299	189	NW	-S
Oct	1	Fri	jason3	1720	1728	42	295	192	NW	-S
Oct	1	Fri	beaconc	1737	1744	37	230	136	SW	-SE
Oct	1	Fri	stella	1741	1746	64	182	336	S	-NW
Oct	1	Fri	kompsat5	1754	1758	40	55	162	NE	-S
Oct	1	Fri	saral	1807	1813	57	32	173	NE	-S
Oct	1	Fri	hy2d	1828	1835	55	187	52	S	-NE
Oct	1	Fri	geoik2	1849	1852	29	250	299	W	-NW
Oct	1	Fri	hy2c	1912	1916	35	354	76	N	-E
Oct	1	Fri	saral	1948	1950	26	316	279	NW	-W
Oct	1	Fri	hy2d	2016	2022	42	272	19	W	-N
Oct	1	Fri	sentinel3a	2026	2031	39	113	10	SE	-N
Oct	1	Fri	swarma	2036	2039	72	164	9	S	-N
Oct	1	Fri	swarmc	2036	2039	72	163	9	S	-N
Oct	1	Fri	swarmb	2042	2046	45	332	206	NW	-SW
Oct	1	Fri	lageos2	2043	2133	82	231	70	SW	-E
Oct	1	Fri	lageos1	2051	2124	40	214	317	SW	-NW
Oct	1	Fri	hy2c	2059	2105	76	314	153	NW	-SE
Oct	1	Fri	technosat	2124	2129	58	357	213	N	-SW
Oct	1	Fri	sentinel3b	2126	2133	72	176	340	S	-N
Oct	1	Fri	sentinel3a	2206	2211	36	222	318	SW	-NW
Oct	1	Fri	lares	2306	2315	45	159	50	S	-NE
Oct	1	Fri	snet1	2338	2343	62	30	181	NE	-S
Oct	2	Sat	elsadchs	0002	0006	42	343	228	N	-SW
Oct	2	Sat	larets	0042	0047	46	123	2	SE	-N
Oct	2	Sat	icesat2	0043	0044	27	288	258	W	-W
Oct	2	Sat	lageos2	0049	0138	87	286	119	W	-SE
Oct	2	Sat	lares	0103	0114	59	243	26	SW	-NE
Oct	2	Sat	hy2d	0143	0150	48	346	109	N	-E
Oct	2	Sat	cryosat2	0228	0234	60	352	205	N	-SW
Oct	2	Sat	lares	0306	0310	27	323	4	NW	-N
Oct	2	Sat	ajisai	0329	0337	32	172	92	S	-E
Oct	2	Sat	hy2d	0330	0337	46	296	178	NW	-S
Oct	2	Sat	gracefol	0411	0415	71	177	1	S	-N
Oct	2	Sat	envisat	0440	0445	37	50	151	NE	-SE
Oct	2	Sat	kompsat5	0444	0448	46	116	2	SE	-N

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Date	Satellite	Start	End	Elev	Direction	Observer
Oct 2 Sat	lageos2	0455	0528	39	292 202 W -S	VS
Oct 2 Sat	ajisai	0528	0540	69	233 80 SW-E	
Oct 2 Sat	saral	0530	0536	61	192 336 S -NW	
Oct 2 Sat	hy2b	0537	0542	30	62 138 NE-SE	
Oct 2 Sat	starlette	0555	0601	44	198 90 S -E	
Oct 2 Sat	terrasarx	0601	0604	36	70 155 E -SE	
Oct 2 Sat	tandemx	0601	0604	36	69 155 E -SE	
Oct 2 Sat	envisat	0619	0624	36	341 242 N -SW	

Oct	2	Sat	lares	0705	0715	43	346	101	N	-E
Oct	2	Sat	paz	0708	0711	39	326	233	NW	-SW
Oct	2	Sat	geoik2	0717	0724	75	10	207	N	-SW
Oct	2	Sat	hy2b	0719	0726	56	1	224	N	-SW
Oct	2	Sat	stella	0730	0735	48	349	232	N	-SW
Oct	2	Sat	ajisai	0730	0742	86	268	95	W	-E
Oct	2	Sat	starlette	0743	0750	78	253	88	W	-E
Oct	2	Sat	swarmc	0749	0752	39	53	150	NE	-SE
Oct	2	Sat	swarma	0749	0752	39	52	149	NE	-SE
Oct	2	Sat	sentinel6a	0756	0807	72	201	43	S	-NE
Oct	2	Sat	jason3	0756	0806	71	199	44	S	-NE
Oct	2	Sat	technosat	0820	0824	45	208	326	SW	-NW
Oct	2	Sat	lageos1	0853	0937	82	33	211	NE	-SW
Oct	2	Sat	swarmb	0859	0903	48	217	347	SW	-N
Oct	2	Sat	lares	0903	0914	68	319	168	NW	-S
Oct	2	Sat	ajisai	0931	0943	63	278	133	W	-SE
Oct	2	Sat	starlette	0932	0939	72	272	113	W	-SE
Oct	2	Sat	sentinel6a	0953	1002	44	271	25	W	-NE
Oct	2	Sat	jason3	0953	1002	44	274	28	W	-NE
Oct	2	Sat	sentinel3a	1015	1021	58	36	177	NE	-S
Oct	2	Sat	snet1	1031	1036	75	156	350	SE	-N
Oct	2	Sat	elsadchs	1051	1055	38	213	322	SW	-NW
Oct	2	Sat	sentinel3b	1116	1121	48	346	230	N	-SW
Oct	2	Sat	starlette	1122	1126	33	247	171	SW	-S
Oct	2	Sat	icesat2	1122	1125	60	139	8	SE	-N
Oct	2	Sat	hy2c	1216	1223	52	179	51	S	-NE
Oct	2	Sat	lageos1	1226	1304	55	43	282	NE	-W
Oct	2	Sat	cryosat2	1342	1347	81	166	358	S	-N
Oct	2	Sat	jason3	1350	1358	36	341	75	N	-E
Oct	2	Sat	sentinel6a	1351	1358	36	345	71	N	-E
Oct	2	Sat	hy2c	1403	1410	45	265	24	W	-NE
Oct	2	Sat	larets	1410	1416	52	33	174	NE	-S
Oct	2	Sat	beaconc	1501	1506	31	191	122	S	-SE
Oct	2	Sat	gracef01	1533	1537	43	28	150	NE	-SE

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Date	Satellite	Start	End	Elev	Direction	Observer		
Oct	2	Sat	jason3	1546	1557	82	323 140 NW-SE	RS
Oct	2	Sat	sentinel6a	1546	1557	83	323 139 NW-SE	
Oct	2	Sat	lageos1	1550	1630	62	96 323 E -NW	
Oct	2	Sat	envisat	1559	1605	76	156 349 SE-N	
Oct	2	Sat	tandemx	1645	1648	33	88 10 E -N	
Oct	2	Sat	terrasarx	1645	1648	33	88 10 E -N	
Oct	2	Sat	beaconc	1653	1700	38	225 129 SW-SE	
Oct	2	Sat	stella	1714	1721	76	153 348 SE-N	
Oct	2	Sat	geoik2	1719	1726	71	148 351 SE-N	
Oct	2	Sat	hy2b	1724	1731	78	171 339 S -N	
Oct	2	Sat	saral	1737	1741	32	63 141 NE-SE	
Oct	2	Sat	paz	1751	1755	40	208 324 SW-NW	
Oct	2	Sat	kompsat5	1751	1754	37	68 153 E -SE	
Oct	2	Sat	hy2d	1846	1854	79	213 40 SW-NE	
Oct	2	Sat	beaconc	1847	1851	27	220 173 SW-S	

Oct	2	Sat	lageos2	1852	1938	62	197	62	S	-NE
Oct	2	Sat	saral	1916	1921	43	343	235	N	-SW
Oct	2	Sat	lageos1	1921	2004	63	175	327	S	-NW
Oct	2	Sat	hy2c	1930	1937	47	343	104	N	-E
Oct	2	Sat	swarmc	1955	1956	25	87	57	E	-NE
Oct	2	Sat	swarma	1955	1956	25	88	58	E	-NE
Oct	2	Sat	sentinel3a	2002	2004	26	70	34	E	-NE
Oct	2	Sat	swarmb	2022	2026	66	348	190	N	-S
Oct	2	Sat	hy2d	2035	2040	32	291	10	W	-N
Oct	2	Sat	sentinel3b	2100	2107	72	151	350	SE	-N
Oct	2	Sat	hy2c	2117	2124	50	302	177	NW	-S
Oct	2	Sat	technosat	2134	2138	47	335	222	NW	-SW
Oct	2	Sat	sentinel3a	2139	2146	57	188	334	S	-NW
Oct	2	Sat	lageos2	2253	2342	85	267	92	W	-E
Oct	2	Sat	snet1	2342	2346	62	31	182	NE	-S
Oct	2	Sat	elsadchs	2357	0001	48	340	220	N	-SW
Oct	2	Sat	lares	2358	0010	84	207	33	SW	-NE
Oct	3	Sun	hy2d	0015	0018	27	10	54	N	-NE
Oct	3	Sun	icesat2	0016	0020	46	340	210	N	-SW
Oct	3	Sun	larets	0118	0124	71	168	344	S	-N
Oct	3	Sun	cryosat2	0138	0144	51	26	163	NE	-S
Oct	3	Sun	lares	0159	0207	36	288	16	W	-N
Oct	3	Sun	hy2d	0201	0208	69	332	127	NW	-SE
Oct	3	Sun	lageos2	0259	0343	63	296	160	NW	-S
Oct	3	Sun	hy2d	0349	0353	29	277	215	W	-SW
Oct	3	Sun	gracefo1	0349	0353	51	146	13	SE	-N
Oct	3	Sun	ajisai	0434	0445	57	217	82	SW	-E
Oct	3	Sun	kompsat5	0440	0444	42	125	10	SE	-N
Oct	3	Sun	saral	0458	0505	76	154	349	SE	-N
Oct	3	Sun	envisat	0542	0548	65	4	209	N	-SW
Oct	3	Sun	hy2b	0559	0605	42	52	159	NE	-S
Oct	3	Sun	lares	0602	0608	30	2	65	N	-NE

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Date	Satellite	Start	End	Elev	Direction	Observer		
Oct	3	Sun	starlette	0613	0620	57	226 87 SW-E	CP
Oct	3	Sun	ajisai	0635	0647	84	260 88 W -E	
Oct	3	Sun	paz	0650	0654	59	358 215 N -SW	
Oct	3	Sun	stella	0703	0709	75	10 206 N -SW	
Oct	3	Sun	terrasarx	0718	0720	31	311 251 NW-W	
Oct	3	Sun	tandemx	0718	0720	31	312 252 NW-W	
Oct	3	Sun	lageos1	0731	0812	58	37 179 NE-S	
Oct	3	Sun	geoik2	0732	0739	60	4 220 N -SW	
Oct	3	Sun	hy2b	0742	0748	41	342 239 N -SW	
Oct	3	Sun	lares	0759	0810	73	335 137 NW-SE	
Oct	3	Sun	starlette	0802	0809	78	264 94 W -E	
Oct	3	Sun	jason3	0818	0829	83	223 37 SW-NE	
Oct	3	Sun	sentinel6a	0819	0829	78	224 37 SW-NE	
Oct	3	Sun	technosat	0829	0833	38	214 318 SW-NW	
Oct	3	Sun	ajisai	0837	0849	73	278 119 W -SE	
Oct	3	Sun	swarmb	0839	0843	66	193 357 S -N	
Oct	3	Sun	swarma	0840	0843	35	312 216 NW-SW	
Oct	3	Sun	swarmc	0840	0843	35	311 216 NW-SW	
Oct	3	Sun	sentinel3a	0949	0954	37	51 149 NE-SE	
Oct	3	Sun	starlette	0951	0958	59	272 128 W -SE	
Oct	3	Sun	lares	0958	1005	33	291 215 W -SW	
Oct	3	Sun	sentinel6a	1017	1025	36	292 25 W -NE	

Oct	3	Sun	jason3	1017	1024	36	296	21	NW-N
Oct	3	Sun	snet1	1035	1039	71	160	348	S -N
Oct	3	Sun	ajisai	1040	1048	37	262	175	W -S
Oct	3	Sun	elsadchs	1046	1050	44	217	329	SW-NW
Oct	3	Sun	sentinel3b	1050	1056	74	6	206	N -SW
Oct	3	Sun	icesat2	1057	1059	32	91	31	E -NE
Oct	3	Sun	lageos1	1104	1145	65	36	258	NE-W
Oct	3	Sun	sentinel3a	1129	1134	39	340	240	N -SW
Oct	3	Sun	hy2c	1234	1241	79	208	42	SW-NE
Oct	3	Sun	cryosat2	1253	1256	32	94	30	E -NE
Oct	3	Sun	jason3	1413	1422	45	341	95	N -E
Oct	3	Sun	sentinel6a	1413	1422	45	337	92	NW-E
Oct	3	Sun	hy2c	1423	1428	34	297	16	NW-N
Oct	3	Sun	cryosat2	1431	1435	35	234	324	SW-NW
Oct	3	Sun	lageos1	1431	1509	54	73	313	E -NW
Oct	3	Sun	larets	1447	1452	70	5	208	N -SW
Oct	3	Sun	envisat	1523	1528	41	114	8	SE-N

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Date	Satellite	Start	End	Elev	Direction	Observer		
Oct	3	Sun	hy2b	1605	1609	32	87 19 E -N	MW
Oct	3	Sun	sentinel6a	1609	1619	70	314 161 NW-S	
Oct	3	Sun	beaconc	1609	1615	38	219 130 SW-SE	
Oct	3	Sun	jason3	1609	1619	70	313 160 NW-S	
Oct	3	Sun	stella	1648	1654	47	125 1 SE-N	
Oct	3	Sun	envisat	1703	1707	32	240 316 SW-NW	
Oct	3	Sun	lageos2	1707	1741	38	155 67 SE-NE	
Oct	3	Sun	hy2d	1720	1724	31	134 72 SE-E	
Oct	3	Sun	geoik2	1734	1742	78	162 344 S -N	
Oct	3	Sun	paz	1734	1738	57	187 337 S -NW	
Oct	3	Sun	hy2b	1746	1753	55	191 329 S -NW	
Oct	3	Sun	kompsat5	1747	1751	33	55 154 NE-SE	
Oct	3	Sun	lageos1	1757	1841	86	144 328 SE-NW	
Oct	3	Sun	terrasarx	1801	1804	32	222 309 SW-NW	
Oct	3	Sun	beaconc	1802	1807	30	228 164 SW-S	
Oct	3	Sun	tandemx	1802	1804	32	249 309 W -NW	
Oct	3	Sun	stella	1829	1833	29	238 309 SW-NW	
Oct	3	Sun	saral	1844	1851	73	9 206 N -SW	
Oct	3	Sun	hy2d	1905	1912	67	240 31 SW-NE	
Oct	3	Sun	kompsat5	1923	1924	26	299 274 NW-W	
Oct	3	Sun	hy2c	1948	1956	63	331 125 NW-SE	
Oct	3	Sun	swarmb	2002	2006	71	6 172 N -S	
Oct	3	Sun	sentinel3b	2035	2041	46	121 0 SE-N	
Oct	3	Sun	swarmc	2045	2049	57	206 354 SW-N	
Oct	3	Sun	swarma	2045	2049	56	205 354 SW-N	
Oct	3	Sun	hy2d	2056	2058	26	333 2 NW-N	
Oct	3	Sun	lageos2	2057	2147	86	239 73 SW-E	
Oct	3	Sun	sentinel3a	2113	2120	86	163 345 S -N	
Oct	3	Sun	hy2c	2136	2141	32	284 207 W -SW	

Oct	3	Sun	technosat	2143	2147	38	331	231	NW-SW
Oct	3	Sun	lageos1	2151	2206	27	255	298	W -NW
Oct	3	Sun	sentinel3b	2216	2220	30	241	313	SW-NW
Oct	3	Sun	lares	2255	2305	50	169	46	S -NE
Oct	3	Sun	snet1	2345	2350	75	22	187	N -S
Oct	3	Sun	icesat2	2350	2355	87	6	185	N -S
Oct	3	Sun	elsadchs	2351	2356	56	354	213	N -SW
Oct	4	Mon	larets	0019	0022	30	87	23	E -NE
Oct	4	Mon	hy2d	0033	0038	33	1	79	N -E
Oct	4	Mon	lares	0053	0103	54	252	22	W -N
Oct	4	Mon	lageos2	0103	0151	83	290	127	W -SE
Oct	4	Mon	larets	0156	0200	39	226	321	SW-NW
Oct	4	Mon	hy2d	0219	0227	75	318	149	NW-SE
Oct	4	Mon	cryosat2	0227	0232	56	340	209	N -SW
Oct	4	Mon	lares	0257	0259	25	338	358	N -N
Oct	4	Mon	gracefol	0327	0330	33	126	36	SE-NE
Oct	4	Mon	ajisai	0341	0351	45	196	84	S -E
Oct	4	Mon	saral	0428	0433	44	116	6	SE-N
Oct	4	Mon	kompsat5	0437	0441	38	115	8	SE-N
Oct	4	Mon	starlette	0445	0450	35	178	98	S -E
Oct	4	Mon	envisat	0505	0511	58	31	177	NE-S

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Oct	4	Mon	lageos2	0510	0538	34	289 214 W -SW	RS
Oct	4	Mon	ajisai	0541	0553	78	249 83 W -E	
Oct	4	Mon	geoik2	0606	0611	34	61 145 NE-SE	
Oct	4	Mon	saral	0608	0612	30	234 310 SW-NW	
Oct	4	Mon	lageos1	0611	0642	36	48 141 NE-SE	
Oct	4	Mon	hy2b	0620	0628	59	31 179 NE-S	
Oct	4	Mon	starlette	0632	0640	68	243 85 SW-E	
Oct	4	Mon	paz	0633	0637	82	15 193 N -S	
Oct	4	Mon	stella	0637	0643	66	31 183 NE-S	
Oct	4	Mon	jason3	0646	0655	44	167 56 S -NE	
Oct	4	Mon	sentinel6a	0647	0655	44	163 58 S -NE	
Oct	4	Mon	lares	0655	0705	47	347 107 N -E	
Oct	4	Mon	terrasarx	0700	0704	45	347 221 N -SW	
Oct	4	Mon	tandemx	0700	0704	45	347 222 N -SW	
Oct	4	Mon	technosat	0703	0706	31	102 27 E -NE	
Oct	4	Mon	ajisai	0743	0755	79	275 107 W -E	
Oct	4	Mon	geoik2	0748	0754	48	351 233 N -SW	
Oct	4	Mon	swarma	0758	0801	75	10 170 N -S	
Oct	4	Mon	swarmc	0758	0801	75	10 171 N -S	
Oct	4	Mon	hy2b	0805	0809	30	322 260 NW-W	
Oct	4	Mon	swarmb	0819	0823	62	165 8 S -N	
Oct	4	Mon	starlette	0821	0829	74	271 102 W -E	
Oct	4	Mon	technosat	0839	0842	31	238 311 SW-NW	
Oct	4	Mon	jason3	0841	0851	62	245 31 SW-NE	
Oct	4	Mon	sentinel6a	0842	0852	62	247 32 SW-NE	
Oct	4	Mon	lares	0852	0903	60	317 176 NW-S	
Oct	4	Mon	lageos1	0941	1025	82	33 231 NE-SW	
Oct	4	Mon	ajisai	0945	0955	49	273 154 W -SE	
Oct	4	Mon	starlette	1011	1017	45	260 145 W -SE	
Oct	4	Mon	sentinel3b	1024	1030	67	28 184 NE-S	
Oct	4	Mon	snet1	1038	1043	88	166 346 S -N	
Oct	4	Mon	elsadchs	1040	1044	50	199 328 S -NW	
Oct	4	Mon	jason3	1041	1047	31	315 23 NW-NE	
Oct	4	Mon	sentinel6a	1041	1047	31	311 19 NW-N	
Oct	4	Mon	sentinel3a	1103	1109	60	357 216 N -SW	
Oct	4	Mon	icesat2	1205	1208	35	246 331 SW-NW	

Oct	4	Mon	sentinel6a	1240	1246	30	344	51	N	-NE
Oct	4	Mon	jason3	1240	1245	30	350	47	N	-NE
Oct	4	Mon	hy2c	1252	1300	68	234	34	SW	-NE
Oct	4	Mon	lageos1	1312	1349	52	53	297	NE	-NW
Oct	4	Mon	cryosat2	1340	1345	86	172	356	S	-N
Oct	4	Mon	larets	1347	1351	33	62	147	NE	-SE
Oct	4	Mon	jason3	1435	1445	58	332	112	NW	-E
Oct	4	Mon	sentinel6a	1436	1446	57	334	114	NW	-SE
Oct	4	Mon	larets	1524	1528	35	337	246	NW	-SW
Oct	4	Mon	beaconc	1525	1531	37	212	124	SW	-SE

OBSERVING SCHEDULE (Times are in U.T.)

Date	Satellite	Start	End	Elev	Direction	Observer					
Oct	4	Mon	stella	1623	1627	31	87	14	E	-N	AS
Oct	4	Mon	gracefol	1624	1627	37	318	224	NW	-SW	
Oct	4	Mon	envisat	1625	1631	65	188	338	S	-N	
Oct	4	Mon	hy2b	1626	1632	43	113	4	SE	-N	
Oct	4	Mon	jason3	1632	1641	48	299	181	NW	-S	
Oct	4	Mon	sentinel6a	1632	1641	49	302	183	NW	-S	
Oct	4	Mon	lageos1	1636	1718	72	115	326	SE	-NW	
Oct	4	Mon	paz	1717	1721	66	159	349	S	-N	
Oct	4	Mon	beaconc	1718	1723	32	224	156	SW	-SE	
Oct	4	Mon	hy2d	1736	1743	48	179	56	S	-NE	
Oct	4	Mon	kompsat5	1744	1747	32	65	143	NE	-SE	
Oct	4	Mon	tandemx	1744	1748	49	205	333	SW	-NW	
Oct	4	Mon	terrasarx	1744	1748	50	205	333	SW	-NW	
Oct	4	Mon	geoik2	1750	1757	70	179	338	S	-N	
Oct	4	Mon	stella	1801	1807	47	199	326	S	-NW	
Oct	4	Mon	hy2b	1809	1815	39	216	319	SW	-NW	
Oct	4	Mon	saral	1813	1820	64	27	182	NE	-S	
Oct	4	Mon	hy2c	1820	1825	32	356	73	N	-E	
Oct	4	Mon	lageos2	1904	1952	68	206	63	SW	-NE	
Oct	4	Mon	kompsat5	1919	1921	28	316	264	NW	-W	
Oct	4	Mon	hy2d	1924	1931	47	267	28	W	-NE	
Oct	4	Mon	swarmb	1942	1946	50	21	155	N	-SE	
Oct	4	Mon	swarmc	2003	2006	41	141	28	SE	-NE	
Oct	4	Mon	swarma	2003	2006	41	142	29	SE	-NE	
Oct	4	Mon	hy2c	2007	2014	86	320	146	NW	-SE	
Oct	4	Mon	sentinel3b	2010	2014	30	92	19	E	-N	
Oct	4	Mon	lageos1	2013	2051	47	199	322	S	-NW	
Oct	4	Mon	technosat	2017	2020	29	75	144	E	-SE	
Oct	4	Mon	sentinel3a	2048	2054	57	133	356	SE	-N	
Oct	4	Mon	sentinel3b	2149	2155	48	205	330	SW	-NW	
Oct	4	Mon	technosat	2152	2155	31	329	252	NW	-W	
Oct	4	Mon	lares	2154	2159	27	121	70	SE	-E	
Oct	4	Mon	lageos2	2307	2356	86	272	98	W	-E	
Oct	4	Mon	icesat2	2325	2329	45	38	162	NE	-S	
Oct	4	Mon	elsadchs	2346	2350	59	355	210	N	-SW	
Oct	4	Mon	lares	2348	2359	85	215	31	SW	-NE	
Oct	4	Mon	snet1	2349	2353	72	20	190	N	-S	
Oct	5	Tue	hy2d	0051	0057	43	349	98	N	-E	
Oct	5	Tue	larets	0054	0100	56	142	355	SE	-N	
Oct	5	Tue	cryosat2	0136	0142	54	23	166	NE	-S	
Oct	5	Tue	lares	0149	0156	33	294	11	NW	-N	
Oct	5	Tue	hy2d	0238	0245	53	300	171	NW	-S	

Oct	5	Tue	ajisai	0248	0256	34	175	92	S	-E
Oct	5	Tue	lageos2	0313	0355	57	296	169	NW	-S
Oct	5	Tue	saral	0359	0401	27	64	28	NE	-NE
Oct	5	Tue	envisat	0429	0433	30	63	139	NE	-SE
Oct	5	Tue	kompsat5	0434	0437	37	104	17	E	-N

OBSERVING SCHEDULE (Times are in U.T.)

Date	Satellite	Start	End	Elev	Direction	Observer			
Oct	5	Tue	gracefol	0440	0443	31	249 329 W	-NW	TS
Oct	5	Tue	ajisai	0447	0459	70	236 80	SW	-E
Oct	5	Tue	starlette	0503	0510	48	208 87	SW	-E
Oct	5	Tue	saral	0536	0542	54	196 332	S	-NW
Oct	5	Tue	lares	0551	0558	32	355 71	N	-E
Oct	5	Tue	envisat	0608	0613	43	339 230	N	-SW
Oct	5	Tue	stella	0611	0616	40	57 160	NE	-S
Oct	5	Tue	paz	0616	0620	55	33 173	NE	-S
Oct	5	Tue	geoik2	0621	0627	44	51 161	NE	-S
Oct	5	Tue	hy2b	0642	0650	77	19 195	N	-S
Oct	5	Tue	tandemx	0643	0647	65	4 203	N	-SW
Oct	5	Tue	terrasarx	0643	0647	64	4 203	N	-SW
Oct	5	Tue	ajisai	0649	0701	84	270 97	W	-E
Oct	5	Tue	starlette	0651	0659	78	256 88	W	-E
Oct	5	Tue	sentinel6a	0708	0719	64	193 45	S	-NE
Oct	5	Tue	jason3	0708	0718	63	191 46	S	-NE
Oct	5	Tue	technosat	0712	0716	36	111 11	E	-N
Oct	5	Tue	lares	0748	0800	79	331 144	NW	-SE
Oct	5	Tue	stella	0751	0755	35	326 247	NW	-SW
Oct	5	Tue	swarmb	0759	0803	44	143 18	SE	-N
Oct	5	Tue	geoik2	0803	0809	39	347 244	N	-SW
Oct	5	Tue	lageos1	0819	0903	74	33 201	NE	-S
Oct	5	Tue	starlette	0841	0848	70	271 114	W	-SE
Oct	5	Tue	ajisai	0851	0902	61	275 136	W	-SE
Oct	5	Tue	jason3	0905	0914	47	270 29	W	-NE
Oct	5	Tue	sentinel6a	0905	0914	47	266 26	W	-NE
Oct	5	Tue	sentinel3b	0958	1004	43	45 163	NE	-S
Oct	5	Tue	starlette	1031	1035	32	241 171	SW	-S
Oct	5	Tue	elsadchs	1035	1039	57	199 335	S	-NW
Oct	5	Tue	sentinel3a	1037	1043	76	18 195	N	-S
Oct	5	Tue	snet1	1042	1046	71	172 343	S	-N
Oct	5	Tue	hy2c	1124	1131	45	171 55	S	-NE
Oct	5	Tue	icesat2	1138	1142	66	189 345	S	-N
Oct	5	Tue	sentinel3b	1138	1143	34	338 247	N	-SW
Oct	5	Tue	lageos1	1152	1231	57	40 275	NE	-W
Oct	5	Tue	cryosat2	1250	1254	35	117 30	SE	-NE
Oct	5	Tue	jason3	1302	1309	34	342 65	N	-NE
Oct	5	Tue	sentinel6a	1303	1310	34	347 69	N	-E
Oct	5	Tue	hy2c	1311	1318	50	259 26	W	-NE
Oct	5	Tue	larets	1423	1428	69	26 183	NE	-S
Oct	5	Tue	cryosat2	1429	1433	33	236 321	SW	-NW
Oct	5	Tue	beaconc	1441	1446	35	205 128	SW	-SE
Oct	5	Tue	jason3	1458	1508	75	326 132	NW	-SE
Oct	5	Tue	sentinel6a	1458	1509	77	325 133	NW	-SE
Oct	5	Tue	lageos1	1517	1556	59	88 320	E	-NW
Oct	5	Tue	envisat	1548	1554	64	142 353	SE	-N
Oct	5	Tue	gracefol	1602	1606	58	336 197	NW	-S
Oct	5	Tue	geoik2	1624	1628	31	88 21	E	-N
Oct	5	Tue	beaconc	1633	1639	34	232 148	SW	-SE



## OBSERVING SCHEDULE (Times are in U.T.)

Date	Satellite	Start	End	Elev	Direction	Observer
Oct 5 Tue	hy2b	1647	1655	59	138 352 SE-N	MW
Oct 5 Tue	jason3	1655	1702	33	286 207 W -SW	
Oct 5 Tue	sentinel6a	1656	1702	32	281 211 W -SW	
Oct 5 Tue	paz	1700	1704	49	131 0 SE-N	
Oct 5 Tue	lageos2	1717	1756	44	167 64 S -NE	
Oct 5 Tue	tandemx	1727	1731	75	176 343 S -N	
Oct 5 Tue	terrasarx	1727	1731	77	176 344 S -N	
Oct 5 Tue	stella	1734	1741	76	172 340 S -N	
Oct 5 Tue	saral	1743	1748	36	56 153 NE-SE	
Oct 5 Tue	hy2d	1754	1802	72	204 43 SW-NE	
Oct 5 Tue	geoik2	1805	1812	57	192 332 S -NW	
Oct 5 Tue	hy2b	1833	1836	28	253 300 W -NW	
Oct 5 Tue	hy2c	1838	1845	42	346 99 N -E	
Oct 5 Tue	lageos1	1846	1930	71	164 328 S -NW	
Oct 5 Tue	kompsat5	1916	1918	29	308 255 NW-W	
Oct 5 Tue	saral	1922	1927	38	343 242 N -SW	
Oct 5 Tue	swarmb	1923	1926	34	57 140 NE-SE	
Oct 5 Tue	hy2d	1943	1949	35	288 21 W -N	
Oct 5 Tue	sentinel3a	2023	2027	37	100 15 E -N	
Oct 5 Tue	hy2c	2025	2032	57	306 170 NW-S	
Oct 5 Tue	technosat	2026	2029	36	67 149 NE-SE	
Oct 5 Tue	swarmc	2055	2057	33	250 322 W -NW	
Oct 5 Tue	swarma	2055	2057	33	249 321 W -NW	
Oct 5 Tue	lageos2	2111	2201	89	246 77 SW-E	
Oct 5 Tue	sentinel3b	2123	2129	76	175 341 S -N	
Oct 5 Tue	sentinel3a	2202	2207	38	215 316 SW-NW	
Oct 5 Tue	technosat	2202	2204	26	306 260 NW-W	
Oct 5 Tue	lares	2244	2255	57	178 42 S -NE	
Oct 5 Tue	icesat2	2300	2302	25	71 124 E -SE	
Oct 5 Tue	hy2d	2323	2325	25	11 40 N -NE	
Oct 5 Tue	elsadchs	2340	2345	73	5 204 N -SW	
Oct 5 Tue	snet1	2352	2357	79	15 194 N -S	
Oct 6 Wed	icesat2	0034	0036	25	298 246 NW-SW	
Oct 6 Wed	lares	0042	0053	49	254 23 W -NE	
Oct 6 Wed	hy2d	0109	0116	62	336 120 NW-SE	
Oct 6 Wed	lageos2	0117	0205	79	292 134 W -SE	
Oct 6 Wed	larets	0131	0136	65	185 335 S -NW	
Oct 6 Wed	ajisai	0158	0159	25	130 120 SE-SE	
Oct 6 Wed	cryosat2	0225	0230	52	338 213 N -SW	
Oct 6 Wed	hy2d	0257	0302	34	279 199 W -S	
Oct 6 Wed	starlette	0336	0338	26	148 119 SE-SE	
Oct 6 Wed	ajisai	0353	0405	59	221 79 SW-E	
Oct 6 Wed	gracefol	0417	0421	48	211 340 SW-N	
Oct 6 Wed	kompsat5	0431	0434	34	92 14 E -N	
Oct 6 Wed	lares	0448	0450	25	10 30 N -NE	

## OBSERVING SCHEDULE (Times are in U.T.)

Date	Satellite	Start	End	Elev	Direction	Observer
Oct 6 Wed	saral	0505	0511	82	159 346 S -N	RS
Oct 6 Wed	starlette	0522	0529	61	227 86 SW-E	
Oct 6 Wed	lageos2	0527	0546	28	280 230 W -SW	
Oct 6 Wed	envisat	0530	0537	84	13 199 N -S	
Oct 6 Wed	ajisai	0554	0607	85	262 89 W -E	
Oct 6 Wed	paz	0600	0603	35	74 157 E -SE	
Oct 6 Wed	tandemx	0626	0630	62	26 184 NE-S	
Oct 6 Wed	terrasarx	0626	0630	61	26 184 NE-S	
Oct 6 Wed	geoik2	0636	0642	55	40 171 NE-S	
Oct 6 Wed	lares	0644	0655	51	342 114 N -SE	
Oct 6 Wed	lageos1	0657	0736	51	39 168 NE-S	
Oct 6 Wed	hy2b	0704	0712	69	9 211 N -SW	
Oct 6 Wed	starlette	0711	0718	82	265 95 W -E	
Oct 6 Wed	technosat	0721	0725	44	122 7 SE-N	
Oct 6 Wed	stella	0723	0729	55	359 224 N -SW	
Oct 6 Wed	jason3	0730	0741	88	216 39 SW-NE	
Oct 6 Wed	sentinel6a	0731	0741	81	216 39 SW-NE	
Oct 6 Wed	swarmb	0740	0742	32	104 42 E -NE	
Oct 6 Wed	ajisai	0756	0808	72	278 122 W -SE	
Oct 6 Wed	swarmc	0807	0811	54	337 194 NW-S	
Oct 6 Wed	swarma	0807	0811	54	338 194 N -S	
Oct 6 Wed	geoik2	0819	0823	32	332 264 NW-W	
Oct 6 Wed	lares	0842	0853	54	313 181 NW-S	
Oct 6 Wed	starlette	0900	0907	58	269 129 W -SE	
Oct 6 Wed	jason3	0928	0936	38	285 22 W -N	
Oct 6 Wed	sentinel6a	0929	0937	38	289 26 W -NE	
Oct 6 Wed	ajisai	0959	1007	35	263 178 W -S	
Oct 6 Wed	sentinel3a	1011	1017	53	36 172 NE-S	
Oct 6 Wed	elsadchs	1029	1034	66	183 340 S -N	
Oct 6 Wed	lageos1	1030	1112	70	34 249 NE-W	
Oct 6 Wed	snet1	1045	1050	72	175 341 S -N	
Oct 6 Wed	sentinel3b	1112	1118	51	352 223 N -SW	
Oct 6 Wed	icesat2	1113	1117	62	151 3 SE-N	
Oct 6 Wed	hy2c	1142	1149	69	198 46 S -NE	
Oct 6 Wed	jason3	1325	1333	41	343 85 N -E	
Oct 6 Wed	sentinel6a	1325	1334	41	338 88 N -E	
Oct 6 Wed	hy2c	1330	1336	37	281 18 W -N	
Oct 6 Wed	cryosat2	1338	1344	83	178 354 S -N	
Oct 6 Wed	beaconc	1357	1402	32	198 124 S -SE	
Oct 6 Wed	lageos1	1359	1436	52	64 308 NE-NW	
Oct 6 Wed	larets	1500	1505	56	352 218 N -SW	
Oct 6 Wed	envisat	1512	1516	33	98 17 E -N	
Oct 6 Wed	jason3	1520	1531	77	318 153 NW-SE	
Oct 6 Wed	sentinel6a	1521	1532	78	317 152 NW-SE	
Oct 6 Wed	gracefol	1540	1544	78	5 179 N -S	
Oct 6 Wed	beaconc	1549	1555	35	228 140 SW-SE	

## OBSERVING SCHEDULE (Times are in U.T.)

Date	Satellite	Start	End	Elev	Direction	Observer
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Oct	6	Wed	geoik2	1638	1644	39	110	8	E	-N	TS
Oct	6	Wed	paz	1643	1646	33	111	22	E	-N	
Oct	6	Wed	envisat	1651	1655	39	224	316	SW	-NW	
Oct	6	Wed	stella	1708	1714	66	145	353	SE	-N	
Oct	6	Wed	hy2b	1709	1717	76	157	345	SE	-N	
Oct	6	Wed	terrasarx	1710	1714	65	140	354	SE	-N	
Oct	6	Wed	tandemx	1710	1714	64	141	354	SE	-N	
Oct	6	Wed	lageos1	1723	1807	85	134	328	SE	-NW	
Oct	6	Wed	hy2d	1813	1820	75	231	34	SW	-NE	
Oct	6	Wed	geoik2	1821	1827	44	213	324	SW	-NW	
Oct	6	Wed	saral	1851	1857	64	1	212	N	-SW	
Oct	6	Wed	hy2c	1856	1904	57	334	119	NW	-SE	
Oct	6	Wed	kompsat5	1912	1915	32	325	247	NW	-SW	
Oct	6	Wed	lageos2	1917	2005	73	214	65	SW	-NE	
Oct	6	Wed	sentinel3a	1959	2000	25	57	40	NE	-NE	
Oct	6	Wed	hy2d	2003	2006	28	317	3	NW	-N	
Oct	6	Wed	swarma	2012	2016	69	176	5	S	-N	
Oct	6	Wed	swarmc	2012	2016	67	176	5	S	-N	
Oct	6	Wed	technosat	2035	2039	45	56	166	NE	-S	
Oct	6	Wed	swarmb	2038	2040	28	290	236	W	-SW	
Oct	6	Wed	hy2c	2044	2050	37	287	192	W	-S	
Oct	6	Wed	sentinel3b	2057	2103	65	144	352	SE	-N	
Oct	6	Wed	lageos1	2109	2136	33	230	310	SW	-NW	
Oct	6	Wed	sentinel3a	2136	2142	60	190	335	S	-NW	
Oct	6	Wed	lares	2143	2149	31	129	64	SE	-NE	
Oct	6	Wed	lageos2	2321	0011	87	277	105	W	-E	
Oct	6	Wed	elsadchs	2335	2339	71	9	199	N	-S	
Oct	6	Wed	lares	2337	2349	75	221	30	SW	-NE	
Oct	6	Wed	hy2d	2341	2345	30	3	66	N	-NE	
Oct	6	Wed	snet1	2356	0001	81	11	198	N	-S	
Oct	7	Thu	icesat2	0008	0011	45	322	216	NW	-SW	
Oct	7	Thu	larets	0031	0035	36	107	13	E	-N	
Oct	7	Thu	hy2d	0127	0135	78	322	142	NW	-SE	
Oct	7	Thu	cryosat2	0134	0140	59	19	169	N	-S	
Oct	7	Thu	lares	0139	0146	31	300	14	NW	-N	
Oct	7	Thu	larets	0209	0212	31	241	307	SW	-NW	
Oct	7	Thu	ajisai	0300	0310	47	200	84	S	-E	
Oct	7	Thu	lageos2	0327	0407	51	296	179	NW	-S	
Oct	7	Thu	starlette	0353	0359	37	188	93	S	-E	
Oct	7	Thu	gracefol	0355	0359	73	187	355	S	-N	
Oct	7	Thu	kompsat5	0427	0430	31	105	25	E	-NE	
Oct	7	Thu	saral	0434	0440	49	124	358	SE	-N	
Oct	7	Thu	envisat	0454	0459	49	44	164	NE	-S	
Oct	7	Thu	ajisai	0500	0512	80	252	84	W	-E	

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Date	Satellite	Start	End	Elev	Direction	Observer		
Oct	7	Thu	lageos1	0539	0602	30	55 121 NE-SE	AS
Oct	7	Thu	starlette	0541	0548	73	245 86 SW-E	
Oct	7	Thu	lares	0541	0548	35	358 77 N -E	
Oct	7	Thu	hy2b	0544	0549	33	55 138 NE-SE	
Oct	7	Thu	jason3	0559	0607	39	153 58 SE-NE	
Oct	7	Thu	sentinel6a	0559	0607	39	158 61 S -NE	
Oct	7	Thu	tandemx	0609	0613	42	45 167 NE-S	

Oct	7	Thu	terrasarx	0609	0613	43	46	167	NE-S
Oct	7	Thu	geoik2	0651	0658	71	28	186	NE-S
Oct	7	Thu	stella	0657	0703	74	14	199	N -S
Oct	7	Thu	ajisai	0702	0714	79	276	109	W -E
Oct	7	Thu	paz	0717	0719	31	306	248	NW-W
Oct	7	Thu	swarmc	0725	0728	44	29	146	NE-SE
Oct	7	Thu	swarma	0725	0728	43	28	145	NE-SE
Oct	7	Thu	hy2b	0727	0734	50	352	226	N -SW
Oct	7	Thu	technosat	0730	0734	55	135	2	SE-N
Oct	7	Thu	starlette	0730	0737	77	271	105	W -E
Oct	7	Thu	lares	0738	0749	88	328	150	NW-SE
Oct	7	Thu	sentinel6a	0753	0804	68	237	34	SW-NE
Oct	7	Thu	jason3	0753	0803	68	238	33	SW-NE
Oct	7	Thu	swarmb	0855	0857	30	267	323	W -NW
Oct	7	Thu	ajisai	0904	0914	46	273	158	W -S
Oct	7	Thu	lageos1	0907	0952	89	32	221	NE-SW
Oct	7	Thu	starlette	0919	0925	43	266	153	W -SE
Oct	7	Thu	sentinel3a	0946	0950	34	63	143	NE-SE
Oct	7	Thu	jason3	0952	0959	32	305	24	NW-NE
Oct	7	Thu	sentinel6a	0953	0959	32	309	20	NW-N
Oct	7	Thu	elsadchs	1024	1028	68	178	341	S -N
Oct	7	Thu	sentinel3b	1046	1052	72	10	203	N -SW
Oct	7	Thu	icesat2	1048	1051	34	103	20	E -N
Oct	7	Thu	snet1	1049	1054	68	182	340	S -N
Oct	7	Thu	sentinel3a	1125	1130	41	346	240	N -SW
Oct	7	Thu	hy2c	1200	1208	75	226	36	SW-NE
Oct	7	Thu	lageos1	1239	1316	53	48	291	NE-W
Oct	7	Thu	cryosat2	1248	1253	37	121	18	SE-N
Oct	7	Thu	jason3	1347	1357	52	334	107	NW-E
Oct	7	Thu	sentinel6a	1348	1358	53	337	109	NW-E
Oct	7	Thu	larets	1359	1404	43	44	160	NE-S
Oct	7	Thu	cryosat2	1428	1431	31	256	318	W -NW
Oct	7	Thu	beaconc	1505	1511	36	224	134	SW-SE
Oct	7	Thu	gracefol	1518	1522	52	32	161	NE-S
Oct	7	Thu	jason3	1543	1553	55	308	175	NW-S
Oct	7	Thu	sentinel6a	1544	1554	55	306	173	NW-S

OBSERVING SCHEDULE (Times are in U.T.)

Date	Satellite	Start	End	Elev	Direction	Observer		
Oct	7	Thu	lageos1	1603	1644	67	106 325 E -NW	MW
Oct	7	Thu	envisat	1613	1619	72	172 342 S -N	
Oct	7	Thu	stella	1642	1647	42	116 9 SE-N	
Oct	7	Thu	hy2d	1645	1651	41	163 59 S -NE	
Oct	7	Thu	tandemx	1653	1656	42	115 13 SE-N	
Oct	7	Thu	geoik2	1653	1700	48	123 358 SE-N	
Oct	7	Thu	terrasarx	1653	1656	42	114 12 SE-N	
Oct	7	Thu	hy2c	1728	1733	30	357 70 N -E	
Oct	7	Thu	lageos2	1729	1810	50	176 63 S -NE	
Oct	7	Thu	hy2b	1731	1739	68	177 337 S -NW	
Oct	7	Thu	paz	1800	1803	33	226 312 SW-NW	
Oct	7	Thu	saral	1820	1826	70	27 186 NE-S	
Oct	7	Thu	stella	1822	1827	33	223 315 SW-NW	
Oct	7	Thu	hy2d	1831	1839	52	252 29 W -NE	

Oct	7	Thu	geoik2	1837	1842	34	234	317	SW-NW
Oct	7	Thu	kompsat5	1909	1912	34	318	239	NW-SW
Oct	7	Thu	hy2c	1915	1922	83	325	138	NW-SE
Oct	7	Thu	swarmc	1931	1933	27	108	47	E -NE
Oct	7	Thu	swarma	1932	1933	27	76	47	E -NE
Oct	7	Thu	lageos1	1937	2018	55	187	325	S -NW
Oct	7	Thu	swarmb	2017	2021	39	325	211	NW-SW
Oct	7	Thu	sentinel3b	2031	2037	43	121	3	SE-N
Oct	7	Thu	technosat	2044	2048	54	43	173	NE-S
Oct	7	Thu	sentinel3a	2110	2116	76	159	346	S -N
Oct	7	Thu	lageos2	2125	2215	87	253	81	W -E
Oct	7	Thu	sentinel3b	2212	2216	32	234	311	SW-NW
Oct	7	Thu	lares	2233	2244	63	187	41	S -NE
Oct	7	Thu	elsadchs	2329	2334	81	15	193	N -S
Oct	7	Thu	icesat2	2342	2346	75	2	188	N -S
Oct	7	Thu	hy2d	2359	0005	40	352	93	N -E
Oct	8	Fri	snet1	0000	0004	68	5	202	N -S
Oct	8	Fri	lares	0032	0042	45	261	19	W -N
Oct	8	Fri	cryosat2	0046	0047	25	85	104	E -E
Oct	8	Fri	larets	0107	0112	76	154	350	SE-N
Oct	8	Fri	lageos2	0131	0218	74	294	143	NW-SE
Oct	8	Fri	hy2d	0146	0153	61	305	164	NW-S
Oct	8	Fri	ajisai	0207	0215	36	179	93	S -E
Oct	8	Fri	cryosat2	0223	0228	48	336	217	NW-SW
Oct	8	Fri	gracefol	0333	0337	63	161	10	S -N
Oct	8	Fri	saral	0404	0408	29	89	17	E -N
Oct	8	Fri	ajisai	0406	0418	72	239	81	SW-E
Oct	8	Fri	starlette	0411	0418	50	215	90	SW-E
Oct	8	Fri	envisat	0419	0420	25	94	112	E -E
Oct	8	Fri	kompsat5	0424	0427	30	95	21	E -N
Oct	8	Fri	lares	0437	0441	26	4	44	N -NE

OBSERVING SCHEDULE (Times are in U.T.)

Date	Satellite	Start	End	Elev	Direction	Observer		
Oct	8	Fri	saral	0542	0548	47	200 328 S -NW	RS
Oct	8	Fri	envisat	0556	0602	53	352 219 N -SW	
Oct	8	Fri	starlette	0600	0608	76	258 89 W -E	
Oct	8	Fri	hy2b	0606	0612	47	44 161 NE-S	
Oct	8	Fri	ajisai	0608	0620	81	271 99 W -E	
Oct	8	Fri	jason3	0620	0630	56	184 49 S -NE	
Oct	8	Fri	sentinel6a	0621	0630	57	181 50 S -NE	
Oct	8	Fri	stella	0630	0636	59	31 174 NE-S	
Oct	8	Fri	lares	0634	0644	56	342 117 N -SE	
Oct	8	Fri	paz	0659	0703	46	344 220 N -SW	
Oct	8	Fri	geoik2	0706	0713	89	17 198 N -S	
Oct	8	Fri	technosat	0739	0744	69	149 353 SE-N	
Oct	8	Fri	lageos1	0745	0828	66	35 191 NE-S	
Oct	8	Fri	hy2b	0749	0755	37	344 246 N -SW	
Oct	8	Fri	starlette	0749	0756	66	273 119 W -SE	
Oct	8	Fri	ajisai	0810	0821	59	276 139 W -SE	
Oct	8	Fri	jason3	0816	0826	51	259 30 W -NE	
Oct	8	Fri	swarma	0817	0819	31	298 230 NW-SW	
Oct	8	Fri	swarmc	0817	0819	31	297 229 NW-SW	
Oct	8	Fri	sentinel6a	0817	0826	52	262 27 W -NE	
Oct	8	Fri	lares	0832	0842	48	307 189 NW-S	

Oct	8	Fri	swarmb	0834	0838	43	227	345	SW-N
Oct	8	Fri	starlette	0939	0943	30	250	181	W -S
Oct	8	Fri	elsadchs	1018	1023	86	168	345	S -N
Oct	8	Fri	sentinel3b	1020	1026	63	29	180	NE-S
Oct	8	Fri	hy2c	1032	1038	39	165	65	S -NE
Oct	8	Fri	snet1	1053	1057	59	192	336	S -NW
Oct	8	Fri	sentinel3a	1059	1105	62	2	214	N -SW
Oct	8	Fri	lageos1	1118	1158	61	38	267	NE-W
Oct	8	Fri	icesat2	1156	1159	33	240	326	SW-NW
Oct	8	Fri	jason3	1214	1221	32	343	63	N -NE
Oct	8	Fri	sentinel6a	1215	1221	32	348	58	N -NE
Oct	8	Fri	hy2c	1219	1226	56	253	28	W -NE
Oct	8	Fri	cryosat2	1336	1342	77	183	352	S -N
Oct	8	Fri	jason3	1410	1420	68	329	126	NW-SE
Oct	8	Fri	sentinel6a	1410	1421	70	328	127	NW-SE
Oct	8	Fri	beaconc	1421	1427	36	218	128	SW-SE
Oct	8	Fri	larets	1436	1441	86	15	196	N -S
Oct	8	Fri	lageos1	1444	1523	56	80	316	E -NW
Oct	8	Fri	gracefol	1456	1459	33	49	135	NE-SE
Oct	8	Fri	envisat	1536	1542	52	134	0	SE-N
Oct	8	Fri	jason3	1607	1614	37	288	202	W -S
Oct	8	Fri	sentinel6a	1607	1615	37	293	198	NW-S
Oct	8	Fri	hy2b	1612	1617	36	95	11	E -N

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Date	Satellite	Start	End	Elev	Direction	Observer		
Oct	8	Fri	hy2d	1702	1710	63	196 46 S -NE	TS
Oct	8	Fri	geoik2	1708	1715	61	136 354 SE-N	
Oct	8	Fri	paz	1743	1746	51	210 326 SW-NW	
Oct	8	Fri	hy2c	1746	1752	38	348 87 N -E	
Oct	8	Fri	saral	1749	1754	40	49 155 NE-SE	
Oct	8	Fri	hy2b	1754	1801	49	202 329 S -NW	
Oct	8	Fri	stella	1755	1801	53	196 331 S -NW	
Oct	8	Fri	lageos1	1811	1855	78	154 328 SE-NW	
Oct	8	Fri	hy2d	1851	1857	39	285 23 W -NE	
Oct	8	Fri	geoik2	1853	1856	27	252 299 W -NW	
Oct	8	Fri	kompsat5	1905	1909	36	335 232 NW-SW	
Oct	8	Fri	saral	1929	1933	34	329 248 NW-W	
Oct	8	Fri	lageos2	1930	2019	78	223 67 SW-NE	
Oct	8	Fri	hy2c	1933	1941	66	311 159 NW-S	
Oct	8	Fri	swarmb	1957	2001	55	340 196 N -S	
Oct	8	Fri	sentinel3b	2007	2010	29	79 24 E -NE	
Oct	8	Fri	swarma	2022	2025	54	219 347 SW-N	
Oct	8	Fri	swarmc	2022	2025	54	220 347 SW-N	
Oct	8	Fri	sentinel3a	2044	2050	53	132 359 SE-N	
Oct	8	Fri	technosat	2053	2057	62	29 182 NE-S	
Oct	8	Fri	lares	2131	2139	36	146 59 SE-NE	
Oct	8	Fri	sentinel3b	2145	2151	50	198 330 S -NW	
Oct	8	Fri	sentinel3a	2226	2228	26	255 291 W -W	
Oct	8	Fri	icesat2	2316	2320	47	30 162 NE-S	
Oct	8	Fri	elsadchs	2324	2329	72	22 189 N -S	
Oct	8	Fri	lares	2327	2338	71	229 27 SW-NE	
Oct	8	Fri	lageos2	2335	0024	89	282 111 W -E	
Oct	9	Sat	snet1	0003	0008	72	5 205 N -SW	

Oct	9	Sat	hy2d	0017	0024	55	340	114	N	-SE
Oct	9	Sat	ajisai	0116	0120	26	142	104	SE-E	
Oct	9	Sat	lares	0129	0135	29	306	9	NW-N	
Oct	9	Sat	cryosat2	0132	0138	65	16	172	N	-S
Oct	9	Sat	larets	0144	0149	50	203	330	SW-NW	
Oct	9	Sat	hy2d	0204	0210	40	295	193	NW-S	
Oct	9	Sat	starlette	0244	0248	29	157	101	SE-E	
Oct	9	Sat	gracefol	0312	0315	40	116	23	SE-NE	
Oct	9	Sat	ajisai	0312	0324	62	224	80	SW-E	
Oct	9	Sat	lageos2	0341	0418	46	295	190	NW-S	
Oct	9	Sat	kompsat5	0421	0423	27	84	33	E	-NE
Oct	9	Sat	starlette	0430	0438	63	233	84	SW-E	

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Date	Satellite	Start	End	Elev	Direction	Observer
Oct 9 Sat	saral	0511	0517	75	167 343 S -N	AS
Oct 9 Sat	ajisai	0514	0526	84	264 91 W -E	
Oct 9 Sat	envisat	0519	0525	72	21 190 N -S	
Oct 9 Sat	lares	0530	0538	37	352 84 N -E	
Oct 9 Sat	kompsat5	0556	0558	31	250 306 W -NW	
Oct 9 Sat	stella	0604	0609	36	50 148 NE-SE	
Oct 9 Sat	starlette	0619	0627	78	267 96 W -E	
Oct 9 Sat	lageos1	0624	0700	43	43 156 NE-SE	
Oct 9 Sat	hy2b	0628	0635	67	30 183 NE-S	
Oct 9 Sat	jason3	0642	0653	80	208 41 SW-NE	
Oct 9 Sat	paz	0642	0646	67	3 202 N -S	
Oct 9 Sat	sentinel6a	0643	0653	78	208 41 SW-NE	
Oct 9 Sat	tandemx	0709	0712	38	334 238 NW-SW	
Oct 9 Sat	terrasarx	0709	0712	38	333 237 NW-SW	
Oct 9 Sat	ajisai	0716	0727	70	277 125 W -SE	
Oct 9 Sat	geoik2	0721	0728	72	8 210 N -SW	
Oct 9 Sat	lares	0727	0739	79	325 156 NW-SE	
Oct 9 Sat	swarmc	0734	0738	68	1 176 N -S	
Oct 9 Sat	swarma	0734	0738	70	1 176 N -S	
Oct 9 Sat	stella	0744	0749	39	341 240 N -SW	
Oct 9 Sat	technosat	0748	0753	85	162 348 S -N	
Oct 9 Sat	starlette	0809	0815	54	265 136 W -SE	
Oct 9 Sat	swarmb	0814	0818	62	204 354 SW-N	
Oct 9 Sat	jason3	0840	0848	41	282 23 W -NE	
Oct 9 Sat	sentinel6a	0840	0849	41	278 27 W -NE	
Oct 9 Sat	ajisai	0919	0926	33	255 182 W -S	
Oct 9 Sat	sentinel3b	0955	1000	40	57 158 NE-S	
Oct 9 Sat	lageos1	0956	1039	76	33 240 NE-SW	
Oct 9 Sat	elsadchs	1013	1017	68	159 349 S -N	
Oct 9 Sat	sentinel3a	1033	1039	78	20 191 N -S	
Oct 9 Sat	hy2c	1050	1057	60	190 50 S -NE	
Oct 9 Sat	snet1	1056	1101	58	190 335 S -NW	
Oct 9 Sat	icesat2	1130	1134	61	202 347 S -N	
Oct 9 Sat	sentinel3b	1135	1139	35	327 247 NW-SW	

Oct	9	Sat	jason3	1237	1245	38	344	82	N	-E
Oct	9	Sat	sentinel6a	1237	1245	39	340	78	N	-E
Oct	9	Sat	hy2c	1238	1244	40	277	20	W	-N
Oct	9	Sat	cryosat2	1246	1251	40	125	17	SE	-N
Oct	9	Sat	lageos1	1326	1402	52	58	303	NE	-NW
Oct	9	Sat	beaconc	1337	1343	35	212	123	SW	-SE
Oct	9	Sat	jason3	1432	1443	84	320	146	NW	-SE
Oct	9	Sat	sentinel6a	1433	1444	84	320	146	NW	-SE
Oct	9	Sat	larets	1513	1517	43	337	233	NW	-SW
Oct	9	Sat	beaconc	1530	1535	31	224	153	SW	-SE
Oct	9	Sat	gracefol	1609	1611	30	295	236	NW	-SW
Oct	9	Sat	hy2b	1633	1640	49	122	358	SE	-N
Oct	9	Sat	envisat	1639	1644	49	206	327	SW	-NW

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Date	Satellite	Start	End	Elev	Direction	Observer		
Oct	9	Sat	lageos1	1650	1733	78	124 327 SE-NW	RS
Oct	9	Sat	hy2d	1721	1728	85	222 37 SW-NE	
Oct	9	Sat	geoik2	1723	1730	76	151 349 SE-N	
Oct	9	Sat	paz	1725	1730	80	172 344 S -N	
Oct	9	Sat	stella	1728	1735	84	165 343 S -N	
Oct	9	Sat	lageos2	1740	1824	56	187 62 S -NE	
Oct	9	Sat	terrasarx	1753	1756	40	225 321 SW-NW	
Oct	9	Sat	tandemx	1753	1756	40	223 320 SW-NW	
Oct	9	Sat	hy2c	1804	1811	51	337 108 NW-E	
Oct	9	Sat	hy2b	1817	1822	35	228 313 SW-NW	
Oct	9	Sat	saral	1857	1903	56	358 218 N -SW	
Oct	9	Sat	kompsat5	1902	1905	40	329 237 NW-SW	
Oct	9	Sat	hy2d	1910	1915	30	302 16 NW-N	
Oct	9	Sat	swarmb	1937	1941	69	359 179 N -S	
Oct	9	Sat	swarmc	1940	1943	48	136 20 SE-N	
Oct	9	Sat	swarma	1940	1943	48	137 20 SE-N	
Oct	9	Sat	hy2c	1952	1958	42	291 186 W -S	
Oct	9	Sat	sentinel3a	2019	2024	35	103 10 E -N	
Oct	9	Sat	lageos1	2031	2104	40	215 317 SW-NW	
Oct	9	Sat	technosat	2102	2107	73	16 193 N -S	
Oct	9	Sat	sentinel3b	2119	2125	73	170 342 S -N	
Oct	9	Sat	lageos2	2139	2229	86	260 86 W -E	
Oct	9	Sat	sentinel3a	2159	2204	40	223 324 SW-NW	
Oct	9	Sat	lares	2223	2234	72	193 38 S -NE	
Oct	9	Sat	hy2d	2249	2253	28	5 64 N -NE	
Oct	9	Sat	icesat2	2251	2253	27	63 121 NE-SE	
Oct	9	Sat	elsadchs	2319	2323	64	33 182 NE-S	
Oct	10	Sun	snet1	0007	0011	61	358 211 N -SW	
Oct	10	Sun	lares	0022	0032	41	268 20 W -N	
Oct	10	Sun	hy2d	0035	0043	74	326 135 NW-SE	
Oct	10	Sun	larets	0043	0048	47	127 4 SE-N	
Oct	10	Sun	cryosat2	0043	0046	27	63 120 NE-SE	
Oct	10	Sun	lageos2	0145	0231	69	296 151 NW-SE	
Oct	10	Sun	ajisai	0219	0229	50	204 84 SW-E	
Oct	10	Sun	cryosat2	0221	0226	44	335 221 NW-SW	
Oct	10	Sun	hy2d	0225	0226	25	250 235 W -SW	
Oct	10	Sun	gracefol	0251	0252	27	76 50 E -NE	
Oct	10	Sun	starlette	0301	0308	40	197 90 S -E	
Oct	10	Sun	kompsat5	0418	0420	26	74 28 E -NE	
Oct	10	Sun	ajisai	0420	0431	82	253 85 W -E	
Oct	10	Sun	gracefol	0425	0427	26	269 319 W -NW	



Oct 10 Sun	lares	0427	0431	27	7	49	N -NE
Oct 10 Sun	saral	0440	0446	53	132	357	SE-N
Oct 10 Sun	envisat	0443	0447	39	59	151	NE-SE
Oct 10 Sun	starlette	0449	0457	75	249	86	W -E
Oct 10 Sun	jason3	0511	0518	34	148	67	SE-NE
Oct 10 Sun	sentinel6a	0512	0519	34	144	63	SE-NE
Oct 10 Sun	kompsat5	0552	0555	34	231	314	SW-NW

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Date	Satellite	Start	End	Elev	Direction	Observer
Oct 10 Sun	ajisai	0621	0633	79	277 112 W -E	VS
Oct 10 Sun	envisat	0622	0626	34	328 247 NW-SW	
Oct 10 Sun	lares	0623	0634	62	337 124 NW-SE	
Oct 10 Sun	paz	0625	0629	67	29 185 NE-S	
Oct 10 Sun	starlette	0638	0646	77	273 107 W -E	
Oct 10 Sun	hy2b	0650	0657	86	15 200 N -S	
Oct 10 Sun	terrasarx	0652	0656	58	349 211 N -SW	
Oct 10 Sun	tandemx	0652	0656	57	350 211 N -SW	
Oct 10 Sun	jason3	0705	0715	73	231 35 SW-NE	
Oct 10 Sun	sentinel6a	0705	0716	75	230 36 SW-NE	
Oct 10 Sun	stella	0717	0723	60	1 217 N -SW	
Oct 10 Sun	geoik2	0736	0743	57	2 223 N -SW	
Oct 10 Sun	swarmb	0754	0758	74	175 4 S -N	
Oct 10 Sun	technosat	0757	0802	76	175 342 S -N	
Oct 10 Sun	lares	0822	0831	42	301 197 NW-S	
Oct 10 Sun	ajisai	0824	0833	44	267 162 W -S	
Oct 10 Sun	starlette	0828	0834	41	261 153 W -SE	
Oct 10 Sun	lageos1	0833	0917	82	33 211 NE-SW	
Oct 10 Sun	sentinel6a	0904	0911	34	298 20 NW-N	
Oct 10 Sun	jason3	0904	0911	34	303 24 NW-NE	
Oct 10 Sun	elsadchs	1007	1012	72	153 352 SE-N	
Oct 10 Sun	sentinel3a	1007	1013	51	36 168 NE-S	
Oct 10 Sun	snet1	1100	1104	51	199 329 S -NW	
Oct 10 Sun	icesat2	1104	1108	59	158 2 S -N	
Oct 10 Sun	sentinel3b	1108	1114	53	357 222 N -SW	
Oct 10 Sun	hy2c	1108	1116	79	217 39 SW-NE	
Oct 10 Sun	lageos1	1206	1244	55	43 282 NE-W	
Oct 10 Sun	beaconc	1253	1258	33	206 127 SW-SE	
Oct 10 Sun	hy2c	1258	1302	31	309 12 NW-N	
Oct 10 Sun	jason3	1259	1309	48	336 102 NW-E	
Oct 10 Sun	sentinel6a	1300	1309	48	339 99 N -E	
Oct 10 Sun	cryosat2	1334	1340	70	187 350 S -N	
Oct 10 Sun	larets	1412	1417	55	40 174 NE-S	
Oct 10 Sun	beaconc	1446	1451	33	220 146 SW-SE	
Oct 10 Sun	jason3	1455	1505	62	311 168 NW-S	
Oct 10 Sun	sentinel6a	1456	1506	62	309 166 NW-S	

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Date	Satellite	Start	End	Elev	Direction	Observer
Oct 10 Sun	lageos1	1530	1610	63	97 323 E -NW	TS
Oct 10 Sun	gracefol	1546	1550	46	334 206 NW-SW	
Oct 10 Sun	hy2d	1553	1559	35	157 63 SE-NE	
Oct 10 Sun	lageos2	1559	1626	33	139 71 SE-E	
Oct 10 Sun	envisat	1601	1608	84	160 347 S -N	
Oct 10 Sun	hy2b	1655	1702	67	141 351 SE-N	
Oct 10 Sun	stella	1702	1708	58	136 355 SE-N	
Oct 10 Sun	paz	1708	1712	64	148 357 SE-N	
Oct 10 Sun	terrasarx	1735	1739	63	184 335 S -NW	
Oct 10 Sun	tandemx	1735	1739	63	184 334 S -NW	
Oct 10 Sun	geoik2	1738	1746	79	166 343 S -N	
Oct 10 Sun	hy2d	1739	1747	58	245 31 SW-NE	
Oct 10 Sun	hy2c	1823	1830	74	330 131 NW-SE	
Oct 10 Sun	saral	1826	1832	72	21 191 N -S	
Oct 10 Sun	hy2b	1841	1842	25	264 279 W -W	
Oct 10 Sun	kompsat5	1858	1902	42	344 229 N -SW	
Oct 10 Sun	lageos1	1901	1944	62	175 327 S -NW	
Oct 10 Sun	swarmb	1917	1921	55	18 162 N -S	
Oct 10 Sun	hy2d	1931	1932	25	343 357 N -N	
Oct 10 Sun	lageos2	1944	2033	82	231 70 SW-E	
Oct 10 Sun	hy2c	2011	2015	27	273 215 W -SW	
Oct 10 Sun	swarmc	2032	2034	30	268 328 W -NW	
Oct 10 Sun	swarma	2032	2034	30	266 327 W -NW	
Oct 10 Sun	sentinel3b	2053	2059	62	142 355 SE-N	
Oct 10 Sun	technosat	2111	2116	73	6 201 N -S	
Oct 10 Sun	lares	2120	2129	40	155 53 SE-NE	
Oct 10 Sun	sentinel3a	2132	2138	63	184 335 S -NW	
Oct 10 Sun	hy2d	2307	2312	36	355 80 N -E	
Oct 10 Sun	elsadchs	2313	2318	58	32 178 NE-S	
Oct 10 Sun	lares	2317	2328	64	237 26 SW-NE	
Oct 10 Sun	lageos2	2350	0038	87	286 119 W -SE	
Oct 10 Sun	icesat2	2359	0002	42	325 222 NW-SW	
Oct 11 Mon	snet1	0010	0015	60	360 212 N -SW	
Oct 11 Mon	hy2d	0053	0101	71	314 157 NW-SE	
Oct 11 Mon	larets	0120	0125	78	171 343 S -N	
Oct 11 Mon	lares	0120	0124	28	321 3 NW-N	
Oct 11 Mon	ajisai	0126	0135	39	183 87 S -E	
Oct 11 Mon	cryosat2	0130	0136	71	13 176 N -S	
Oct 11 Mon	starlette	0320	0327	54	215 87 SW-E	
Oct 11 Mon	ajisai	0325	0337	75	242 82 SW-E	

## OBSERVING SCHEDULE (Times are in U.T.)

Date	Satellite	Start	End	Elev	Direction	Observer
Oct 11 Mon	lageos2	0400	0429	40	291 200 W -S	CP
Oct 11 Mon	gracefol	0402	0405	40	231 331 SW-NW	
Oct 11 Mon	saral	0410	0414	32	95 17 E -N	
Oct 11 Mon	starlette	0508	0516	82	261 91 W -E	
Oct 11 Mon	lares	0519	0528	40	346 90 N -E	
Oct 11 Mon	ajisai	0527	0539	82	272 101 W -E	
Oct 11 Mon	hy2b	0531	0533	26	83 115 E -SE	
Oct 11 Mon	jason3	0532	0542	50	177 51 S -NE	
Oct 11 Mon	sentinel6a	0533	0542	50	174 53 S -NE	
Oct 11 Mon	envisat	0544	0550	64	3 213 N -SW	
Oct 11 Mon	kompsat5	0548	0552	36	215 320 SW-NW	
Oct 11 Mon	saral	0549	0554	43	215 324 SW-NW	
Oct 11 Mon	paz	0608	0611	44	52 159 NE-S	
Oct 11 Mon	geoik2	0610	0615	37	60 148 NE-SE	
Oct 11 Mon	tandemx	0635	0639	76	15 194 N -S	
Oct 11 Mon	terrasarx	0635	0639	80	15 194 N -S	
Oct 11 Mon	stella	0650	0657	81	19 194 N -S	
Oct 11 Mon	starlette	0658	0705	67	271 120 W -SE	
Oct 11 Mon	lageos1	0711	0753	59	37 181 NE-S	
Oct 11 Mon	hy2b	0712	0719	63	2 217 N -SW	
Oct 11 Mon	lares	0717	0728	74	322 163 NW-S	
Oct 11 Mon	sentinel6a	0728	0738	56	251 29 W -NE	
Oct 11 Mon	jason3	0728	0738	56	253 31 W -NE	
Oct 11 Mon	ajisai	0729	0740	56	276 142 W -SE	
Oct 11 Mon	swarmb	0734	0738	53	148 14 SE-N	
Oct 11 Mon	swarma	0744	0747	52	323 201 NW-S	
Oct 11 Mon	swarmc	0744	0747	52	322 201 NW-S	
Oct 11 Mon	geoik2	0752	0758	45	348 235 N -SW	
Oct 11 Mon	technosat	0806	0811	60	185 336 S -NW	
Oct 11 Mon	sentinel6a	0928	0934	30	316 23 NW-NE	
Oct 11 Mon	jason3	0928	0934	30	321 27 NW-NE	
Oct 11 Mon	hy2c	0941	0946	33	148 68 SE-E	
Oct 11 Mon	sentinel3a	0942	0946	32	59 137 NE-SE	
Oct 11 Mon	elsadchs	1002	1006	61	143 358 SE-N	
Oct 11 Mon	icesat2	1039	1042	37	112 20 E -N	
Oct 11 Mon	sentinel3b	1042	1049	82	13 199 N -S	
Oct 11 Mon	lageos1	1044	1125	65	36 258 NE-W	
Oct 11 Mon	snet1	1104	1108	48	211 330 SW-NW	
Oct 11 Mon	sentinel3a	1121	1127	43	351 232 N -SW	
Oct 11 Mon	jason3	1126	1132	31	344 53 N -NE	
Oct 11 Mon	hy2c	1127	1134	63	245 31 SW-NE	
Oct 11 Mon	sentinel6a	1127	1133	31	348 57 N -NE	
Oct 11 Mon	beaconc	1209	1214	31	199 124 S -SE	
Oct 11 Mon	cryosat2	1244	1249	44	129 15 SE-N	
Oct 11 Mon	jason3	1322	1332	63	332 120 NW-SE	
Oct 11 Mon	sentinel6a	1322	1333	63	330 121 NW-SE	
Oct 11 Mon	beaconc	1402	1407	34	216 139 SW-SE	
Oct 11 Mon	lageos1	1411	1449	54	73 313 E -NW	
Oct 11 Mon	larets	1448	1454	65	6 207 N -SW	
Oct 11 Mon	jason3	1518	1527	43	299 189 NW-S	
Oct 11 Mon	sentinel6a	1519	1527	43	296 193 NW-S	
Oct 11 Mon	gracefol	1524	1528	66	355 186 N -S	
Oct 11 Mon	envisat	1525	1530	43	120 9 SE-N	
Oct 11 Mon	hy2d	1611	1618	55	181 49 S -NE	

## OBSERVING SCHEDULE (Times are in U.T.)

Date	Satellite	Start	End	Elev	Direction	Observer
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Oct 11 Mon	stella	1636	1641	38	108	9	E -N	AS
Oct 11 Mon	paz	1652	1655	42	105	9	E -N	
Oct 11 Mon	hy2c	1654	1700	34	350	83	N -E	
Oct 11 Mon	envisat	1705	1709	30	236	312	SW-NW	
Oct 11 Mon	hy2b	1717	1724	85	165	343	S -N	
Oct 11 Mon	tandemx	1718	1723	80	160	349	S -N	
Oct 11 Mon	terrasarx	1718	1722	77	160	350	S -N	
Oct 11 Mon	lageos1	1737	1821	86	144	328	SE-NW	
Oct 11 Mon	lageos2	1752	1838	62	196	63	S -NE	
Oct 11 Mon	geoik2	1754	1801	66	184	337	S -NW	
Oct 11 Mon	saral	1755	1801	45	43	166	NE-S	
Oct 11 Mon	hy2d	1758	1805	43	269	24	W -NE	
Oct 11 Mon	stella	1816	1821	37	223	321	SW-NW	
Oct 11 Mon	hy2c	1841	1849	74	315	152	NW-SE	
Oct 11 Mon	kompsat5	1855	1859	45	340	223	N -SW	
Oct 11 Mon	swarmb	1857	1901	38	32	147	NE-SE	
Oct 11 Mon	saral	1935	1939	31	331	255	NW-W	
Oct 11 Mon	swarma	1949	1953	77	181	3	S -N	
Oct 11 Mon	swarmc	1949	1953	79	181	3	S -N	
Oct 11 Mon	sentinel3b	2028	2033	41	110	7	E -N	
Oct 11 Mon	sentinel3a	2106	2112	76	155	349	SE-N	
Oct 11 Mon	technosat	2120	2125	62	358	210	N -SW	
Oct 11 Mon	lageos1	2131	2146	27	255	298	W -NW	
Oct 11 Mon	lageos2	2153	2243	86	266	92	W -E	
Oct 11 Mon	sentinel3b	2208	2212	35	227	309	SW-NW	
Oct 11 Mon	lares	2212	2224	77	201	35	S -NE	
Oct 11 Mon	elsadchs	2308	2312	49	44	170	NE-S	
Oct 11 Mon	hy2d	2325	2332	49	343	108	N -E	
Oct 11 Mon	icesat2	2333	2337	65	359	191	N -S	
Oct 12 Tue	lares	0012	0021	38	275	16	W -N	
Oct 12 Tue	snet1	0014	0018	55	353	220	N -SW	
Oct 12 Tue	larets	0020	0023	30	93	26	E -NE	
Oct 12 Tue	ajisai	0034	0039	28	155	105	SE-E	
Oct 12 Tue	cryosat2	0041	0044	29	61	121	NE-SE	
Oct 12 Tue	hy2d	0112	0119	46	298	179	NW-S	
Oct 12 Tue	starlette	0152	0156	31	166	106	S -E	
Oct 12 Tue	larets	0157	0201	38	221	318	SW-NW	
Oct 12 Tue	lageos2	0159	0244	64	297	159	NW-S	
Oct 12 Tue	cryosat2	0219	0224	41	333	224	NW-SW	
Oct 12 Tue	ajisai	0232	0243	64	225	80	SW-E	
Oct 12 Tue	starlette	0339	0347	67	234	83	SW-E	
Oct 12 Tue	gracefol	0340	0344	64	206	352	SW-N	
Oct 12 Tue	lares	0416	0421	29	1	54	N -NE	
Oct 12 Tue	ajisai	0433	0445	82	265	92	W -E	
Oct 12 Tue	envisat	0507	0513	64	26	178	NE-S	

OBSERVING SCHEDULE (Times are in U.T.)

Date	Satellite	Start	End	Elev	Direction	Observer
Oct 12 Tue	saral	0517	0523	73	174 340 S -N	MW
Oct 12 Tue	starlette	0528	0536	79	268 98 W -E	
Oct 12 Tue	kompsat5	0545	0549	40	219 326 SW-NW	
Oct 12 Tue	lageos1	0551	0622	36	48 141 NE-SE	
Oct 12 Tue	hy2b	0551	0557	38	47 149 NE-SE	
Oct 12 Tue	jason3	0554	0605	72	201 43 S -NE	

Oct 12 Tue	sentinel6a	0555	0605	71	199	44	S -NE
Oct 12 Tue	lares	0613	0624	68	337	131	NW-SE
Oct 12 Tue	terrasarx	0618	0622	56	43	177	NE-S
Oct 12 Tue	tandemx	0618	0622	55	41	177	NE-S
Oct 12 Tue	geoik2	0624	0631	47	39	164	NE-S
Oct 12 Tue	stella	0624	0630	51	37	170	NE-S
Oct 12 Tue	ajisai	0635	0646	68	277	128	W -SE
Oct 12 Tue	swarma	0702	0705	50	36	155	NE-SE
Oct 12 Tue	swarmc	0702	0705	50	37	155	NE-SE
Oct 12 Tue	swarmb	0714	0717	36	130	35	SE-NE
Oct 12 Tue	starlette	0717	0724	53	269	137	W -SE
Oct 12 Tue	hy2b	0734	0741	46	353	233	N -SW
Oct 12 Tue	jason3	0751	0800	43	271	25	W -NE
Oct 12 Tue	sentinel6a	0752	0801	44	274	27	W -NE
Oct 12 Tue	geoik2	0807	0813	37	345	246	N -SW
Oct 12 Tue	lares	0812	0820	37	295	205	NW-SW
Oct 12 Tue	technosat	0816	0820	47	207	329	SW-NW
Oct 12 Tue	ajisai	0838	0845	31	256	185	W -S
Oct 12 Tue	lageos1	0921	1005	82	33	231	NE-SW
Oct 12 Tue	elsadchs	0957	1001	55	129	359	SE-N
Oct 12 Tue	hy2c	0958	1005	52	181	53	S -NE
Oct 12 Tue	sentinel3b	1016	1022	61	30	175	NE-S
Oct 12 Tue	sentinel3a	1055	1102	68	6	209	N -SW
Oct 12 Tue	snet1	1107	1111	44	205	322	SW-NW
Oct 12 Tue	hy2c	1146	1152	44	272	22	W -N
Oct 12 Tue	icesat2	1147	1150	31	237	322	SW-NW
Oct 12 Tue	jason3	1149	1156	36	345	71	N -E
Oct 12 Tue	sentinel6a	1149	1157	36	341	75	N -E
Oct 12 Tue	lageos1	1252	1329	52	54	297	NE-NW
Oct 12 Tue	beaconc	1317	1323	34	224	133	SW-SE
Oct 12 Tue	cryosat2	1332	1338	64	192	348	S -N
Oct 12 Tue	jason3	1344	1355	83	323	139	NW-SE
Oct 12 Tue	sentinel6a	1345	1356	83	323	140	NW-SE
Oct 12 Tue	larets	1348	1352	34	56	145	NE-SE
Oct 12 Tue	gracefol	1502	1506	56	18	166	N -S
Oct 12 Tue	larets	1526	1529	35	323	251	NW-W

OBSERVING SCHEDULE (Times are in U.T.)

Date	Satellite	Start	End	Elev	Direction	Observer
Oct 12 Tue	lageos2	1608	1641	38	153 67	SE-NE RS
Oct 12 Tue	lageos1	1616	1659	73	115 326	SE-NW
Oct 12 Tue	envisat	1627	1633	59	189 335	S -NW
Oct 12 Tue	geoik2	1628	1632	33	88 19	E -N
Oct 12 Tue	hy2d	1629	1636	84	212 40	SW-NE
Oct 12 Tue	tandemx	1701	1705	53	138 4	SE-N
Oct 12 Tue	terrasarx	1701	1705	52	137 3	SE-N
Oct 12 Tue	hy2c	1712	1719	46	340 102	N -E
Oct 12 Tue	hy2b	1739	1746	63	187 333	S -NW
Oct 12 Tue	stella	1749	1755	61	192 335	S -NW
Oct 12 Tue	geoik2	1809	1816	53	196 330	S -NW
Oct 12 Tue	paz	1809	1811	27	244 298	SW-NW
Oct 12 Tue	hy2d	1818	1823	32	300 17	NW-N

Oct 12 Tue	swarmb	1838	1840	27	66	120	NE-SE
Oct 12 Tue	kompsat5	1851	1856	50	353	218	N -SW
Oct 12 Tue	hy2c	1900	1907	49	296	174	NW-S
Oct 12 Tue	saral	1903	1909	52	357	224	N -SW
Oct 12 Tue	swarma	1908	1910	29	95	36	E -NE
Oct 12 Tue	swarmc	1908	1910	30	94	35	E -NE
Oct 12 Tue	lageos1	1953	2031	47	199	321	S -NW
Oct 12 Tue	lageos2	1957	2047	86	238	73	SW-E
Oct 12 Tue	sentinel3b	2004	2006	27	65	29	NE-NE
Oct 12 Tue	swarmb	2013	2014	25	284	257	W -W
Oct 12 Tue	sentinel3a	2041	2046	51	122	2	SE-N
Oct 12 Tue	lares	2109	2119	46	164	49	S -NE
Oct 12 Tue	technosat	2129	2134	50	352	219	N -SW
Oct 12 Tue	sentinel3b	2141	2147	55	192	330	S -NW
Oct 12 Tue	hy2d	2157	2200	27	6	50	N -NE
Oct 12 Tue	sentinel3a	2222	2225	28	249	303	W -NW
Oct 12 Tue	elsadchs	2302	2306	45	40	159	NE-S
Oct 12 Tue	lares	2306	2317	58	241	23	SW-NE
Oct 12 Tue	icesat2	2307	2311	52	25	164	NE-S
Oct 12 Tue	hy2d	2343	2351	68	330	129	NW-SE
Oct 13 Wed	lageos2	0004	0052	84	289	126	W -SE
Oct 13 Wed	snet1	0018	0022	49	343	220	N -SW
Oct 13 Wed	larets	0056	0101	60	136	355	SE-N
Oct 13 Wed	lares	0110	0114	26	326	6	NW-N
Oct 13 Wed	cryosat2	0128	0134	77	10	179	N -S
Oct 13 Wed	hy2d	0132	0136	29	266	207	W -SW
Oct 13 Wed	ajisai	0138	0149	53	208	81	SW-E
Oct 13 Wed	starlette	0209	0216	43	204	93	SW-E
Oct 13 Wed	gracefol	0318	0322	77	167	3	S -N
Oct 13 Wed	ajisai	0339	0351	82	256	86	W -E
Oct 13 Wed	starlette	0358	0406	74	250	86	W -E

OBSERVING SCHEDULE (Times are in U.T.)

Date	Satellite	Start	End	Elev	Direction	Observer
Oct 13 Wed	lageos2	0411	0439	34	288 213 W -SW	TS
Oct 13 Wed	jason3	0424	0430	29	135 69 SE-E	
Oct 13 Wed	sentinel6a	0425	0430	29	130 74 SE-E	
Oct 13 Wed	envisat	0431	0435	32	56 137 NE-SE	
Oct 13 Wed	saral	0446	0452	60	140 356 SE-N	
Oct 13 Wed	lares	0509	0518	44	348 97 N -E	
Oct 13 Wed	ajisai	0541	0552	77	276 114 W -SE	
Oct 13 Wed	kompsat5	0541	0545	44	204 322 SW-NW	
Oct 13 Wed	starlette	0547	0555	72	272 108 W -E	
Oct 13 Wed	stella	0558	0602	32	57 135 NE-SE	
Oct 13 Wed	tandemx	0601	0604	36	59 151 NE-SE	
Oct 13 Wed	terrasarx	0601	0604	36	62 152 NE-SE	
Oct 13 Wed	envisat	0610	0615	41	342 235 N -SW	
Oct 13 Wed	hy2b	0613	0620	54	36 171 NE-S	
Oct 13 Wed	sentinel6a	0617	0628	83	223 37 SW-NE	
Oct 13 Wed	jason3	0617	0627	79	224 37 SW-NE	
Oct 13 Wed	geoik2	0639	0646	58	30 174 NE-S	
Oct 13 Wed	lares	0707	0718	66	317 169 NW-S	
Oct 13 Wed	paz	0708	0711	39	324 232 NW-SW	
Oct 13 Wed	starlette	0737	0742	39	256 162 W -S	

Oct 13	Wed	stella	0738	0743	44	340	233	N	-SW
Oct 13	Wed	ajisai	0743	0752	42	268	166	W	-S
Oct 13	Wed	hy2b	0757	0802	34	334	253	NW	-W
Oct 13	Wed	lageos1	0759	0843	74	33	202	NE	-S
Oct 13	Wed	jason3	0815	0823	36	292	25	W	-NE
Oct 13	Wed	sentinel6a	0816	0823	36	296	21	NW	-N
Oct 13	Wed	geoik2	0823	0827	30	330	265	NW	-W
Oct 13	Wed	technosat	0825	0829	39	214	321	SW	-NW
Oct 13	Wed	elsadchs	0951	0955	49	131	6	SE	-N
Oct 13	Wed	sentinel3b	0951	0956	38	54	153	NE	-SE
Oct 13	Wed	hy2c	1016	1024	75	208	42	SW	-NE
Oct 13	Wed	sentinel3a	1029	1036	76	21	189	N	-S
Oct 13	Wed	snet1	1111	1115	39	215	324	SW	-NW
Oct 13	Wed	icesat2	1121	1125	54	204	344	SW	-N
Oct 13	Wed	sentinel3b	1131	1136	37	334	239	NW	-SW
Oct 13	Wed	lageos1	1132	1211	57	41	275	NE	-W
Oct 13	Wed	hy2c	1205	1210	34	292	13	W	-N
Oct 13	Wed	jason3	1211	1220	44	337	92	NW	-E
Oct 13	Wed	sentinel6a	1212	1221	45	340	95	N	-E
Oct 13	Wed	beaconc	1233	1239	34	219	128	SW	-SE
Oct 13	Wed	cryosat2	1242	1247	47	134	14	SE	-N
Oct 13	Wed	jason3	1407	1417	70	314	161	NW	-S
Oct 13	Wed	sentinel6a	1408	1418	69	313	160	NW	-S
Oct 13	Wed	larets	1424	1430	65	24	186	NE	-S
Oct 13	Wed	gracefo1	1440	1444	37	36	149	NE	-SE
Oct 13	Wed	lageos1	1457	1536	59	88	320	E	-NW
Oct 13	Wed	hy2d	1502	1506	31	139	75	SE	-E
Oct 13	Wed	envisat	1550	1556	64	147	353	SE	-N
Oct 13	Wed	hy2b	1619	1625	40	104	4	E	-N

OBSERVING SCHEDULE (Times are in U.T.)

Date	Satellite	Start	End	Elev	Direction	Observer	
Oct 13	Wed	geoik2	1642	1648	41	112 7 E -N	VS
Oct 13	Wed	tandemx	1645	1648	35	100 14 E -N	
Oct 13	Wed	terrasarx	1645	1648	35	97 13 E -N	
Oct 13	Wed	hy2d	1647	1655	66	238 33 SW-NE	
Oct 13	Wed	stella	1722	1728	75	158 346 S -N	
Oct 13	Wed	hy2c	1731	1738	65	335 124 NW-SE	
Oct 13	Wed	paz	1751	1755	39	209 326 SW-NW	
Oct 13	Wed	hy2b	1801	1808	44	204 324 SW-NW	
Oct 13	Wed	lageos2	1805	1852	67	205 63 SW-NE	
Oct 13	Wed	geoik2	1825	1831	42	217 323 SW-NW	
Oct 13	Wed	lageos1	1826	1910	70	164 328 S -NW	
Oct 13	Wed	saral	1832	1838	82	16 196 N -S	
Oct 13	Wed	hy2d	1838	1840	26	328 358 NW-N	
Oct 13	Wed	kompsat5	1848	1852	52	351 219 N -SW	
Oct 13	Wed	hy2c	1919	1923	32	275 210 W -SW	
Oct 13	Wed	swarmb	1952	1955	35	317 226 NW-SW	
Oct 13	Wed	swarma	1958	2002	44	214 348 SW-N	
Oct 13	Wed	swarmc	1958	2002	45	215 349 SW-N	
Oct 13	Wed	sentinel3a	2016	2020	33	89 14 E -N	
Oct 13	Wed	sentinel3b	2115	2121	82	165 344 S -N	
Oct 13	Wed	technosat	2139	2143	41	329 227 NW-SW	
Oct 13	Wed	sentinel3a	2155	2200	44	214 323 SW-NW	
Oct 13	Wed	lares	2202	2213	87	208 33 SW-NE	
Oct 13	Wed	lageos2	2207	2257	86	272 98 W -E	
Oct 13	Wed	hy2d	2215	2220	33	357 77 N -E	
Oct 13	Wed	icesat2	2242	2245	29	58 138 NE-SE	
Oct 13	Wed	elsadchs	2257	2301	38	51 159 NE-S	

Oct 14 Thu	hy2d	0001	0009	80	318 149	NW-SE
Oct 14 Thu	lares	0002	0011	36	282 18	W -N
Oct 14 Thu	snet1	0021	0026	47	349 220	N -SW
Oct 14 Thu	cryosat2	0039	0042	31	58 122	NE-SE
Oct 14 Thu	ajisai	0045	0054	41	187 87	S -E
Oct 14 Thu	larets	0132	0138	61	184 338	S -N
Oct 14 Thu	lageos2	0213	0256	58	297 168	NW-S
Oct 14 Thu	cryosat2	0217	0222	38	332 228	NW-SW
Oct 14 Thu	starlette	0228	0236	56	222 85	SW-E
Oct 14 Thu	ajisai	0245	0256	76	243 82	SW-E
Oct 14 Thu	gracefol	0256	0300	48	134 13	SE-N

OBSERVING SCHEDULE (Times are in U.T.)

Date	Satellite	Start	End	Elev	Direction	Observer
Oct 14 Thu	lares	0405	0412	31	355 68 N -E	CP
Oct 14 Thu	saral	0416	0421	36	102 8 E -N	
Oct 14 Thu	starlette	0417	0425	78	262 92 W -E	
Oct 14 Thu	sentinel6a	0445	0454	44	167 56 S -NE	
Oct 14 Thu	jason3	0445	0453	44	164 58 S -NE	
Oct 14 Thu	ajisai	0446	0458	83	273 103 W -E	
Oct 14 Thu	envisat	0533	0539	76	9 202 N -S	
Oct 14 Thu	kompsat5	0538	0542	45	206 328 SW-NW	
Oct 14 Thu	saral	0555	0600	39	216 319 SW-NW	
Oct 14 Thu	lares	0602	0614	73	333 138 NW-SE	
Oct 14 Thu	starlette	0606	0614	64	274 122 W -SE	
Oct 14 Thu	hy2b	0635	0643	74	24 190 NE-S	
Oct 14 Thu	lageos1	0637	0717	51	39 169 NE-S	
Oct 14 Thu	jason3	0640	0650	62	247 32 SW-NE	
Oct 14 Thu	sentinel6a	0640	0651	62	245 34 SW-NE	
Oct 14 Thu	ajisai	0648	0659	54	276 146 W -SE	
Oct 14 Thu	paz	0650	0654	59	358 214 N -SW	
Oct 14 Thu	geoik2	0655	0702	74	25 189 NE-S	
Oct 14 Thu	swarmc	0711	0714	82	356 180 N -S	
Oct 14 Thu	swarma	0711	0714	80	356 180 N -S	
Oct 14 Thu	stella	0711	0717	67	4 210 N -SW	
Oct 14 Thu	terrasarx	0718	0721	32	320 240 NW-SW	
Oct 14 Thu	tandemx	0718	0721	32	322 242 NW-SW	
Oct 14 Thu	lares	0802	0809	33	288 213 W -SW	
Oct 14 Thu	swarmb	0809	0812	38	237 332 SW-NW	
Oct 14 Thu	technosat	0835	0838	32	240 314 SW-NW	
Oct 14 Thu	jason3	0839	0845	31	310 19 NW-N	
Oct 14 Thu	sentinel6a	0840	0846	31	315 23 NW-NE	
Oct 14 Thu	elsadchs	0946	0950	42	118 6 SE-N	
Oct 14 Thu	sentinel3a	1004	1009	48	45 162 NE-S	
Oct 14 Thu	lageos1	1010	1052	70	34 249 NE-W	
Oct 14 Thu	hy2c	1034	1042	70	232 33 SW-NE	
Oct 14 Thu	jason3	1038	1044	30	344 51 N -NE	
Oct 14 Thu	sentinel6a	1039	1044	30	349 47 N -NE	



Oct 14 Thu	icesat2	1055	1059	65	163	0	S -N
Oct 14 Thu	sentinel3b	1104	1110	58	1	221	N -SW
Oct 14 Thu	snet1	1115	1118	38	228	315	SW-NW
Oct 14 Thu	sentinel3a	1144	1148	31	331	257	NW-W
Oct 14 Thu	beaconc	1149	1154	33	213	132	SW-SE
Oct 14 Thu	sentinel6a	1234	1244	58	332	112	NW-E
Oct 14 Thu	jason3	1234	1244	57	334	114	NW-SE
Oct 14 Thu	cryosat2	1330	1336	59	196	346	S -N
Oct 14 Thu	lageos1	1339	1416	52	64	308	NE-NW
Oct 14 Thu	beaconc	1342	1347	30	225	152	SW-SE
Oct 14 Thu	jason3	1430	1439	49	302	183	NW-S
Oct 14 Thu	sentinel6a	1431	1440	48	299	181	NW-S
Oct 14 Thu	larets	1501	1506	55	354	220	N -SW
Oct 14 Thu	envisat	1514	1519	36	105	9	E -N
Oct 14 Thu	hy2d	1519	1526	48	173	52	S -NE
Oct 14 Thu	hy2c	1602	1607	32	351	70	N -E

OBSERVING SCHEDULE (Times are in U.T.)

Date	Satellite	Start	End	Elev	Direction	Observer
Oct 14 Thu	lageos2	1618	1656	44	166 64	S -NE MW
Oct 14 Thu	hy2b	1640	1647	54	131 357	SE-N
Oct 14 Thu	envisat	1653	1658	37	221 322	SW-NW
Oct 14 Thu	stella	1656	1702	53	126 356	SE-N
Oct 14 Thu	geoik2	1657	1704	51	125 357	SE-N
Oct 14 Thu	lageos1	1703	1747	85	134 328	SE-NW
Oct 14 Thu	hy2d	1706	1713	47	264 26	W -NE
Oct 14 Thu	paz	1734	1738	58	188 337	S -NW
Oct 14 Thu	hy2c	1749	1757	81	320 145	NW-SE
Oct 14 Thu	saral	1801	1807	50	37 169	NE-S
Oct 14 Thu	terrasarx	1802	1805	32	240 319	SW-NW
Oct 14 Thu	tandemx	1802	1805	32	237 318	SW-NW
Oct 14 Thu	hy2b	1825	1829	31	240 306	SW-NW
Oct 14 Thu	stella	1837	1840	27	246 300	SW-NW
Oct 14 Thu	geoik2	1841	1845	32	237 306	SW-NW
Oct 14 Thu	kompsat5	1845	1849	57	349 213	N -SW
Oct 14 Thu	swarmc	1916	1920	49	152 14	SE-N
Oct 14 Thu	swarma	1916	1920	48	153 14	SE-N
Oct 14 Thu	swarmb	1932	1936	50	331 201	NW-S
Oct 14 Thu	saral	1942	1945	28	315 261	NW-W
Oct 14 Thu	lageos2	2011	2101	89	246 76	SW-E
Oct 14 Thu	technosat	2013	2015	27	80 129	E -SE
Oct 14 Thu	sentinel3b	2049	2055	59	140 358	SE-N
Oct 14 Thu	lageos1	2049	2116	33	230 310	SW-NW
Oct 14 Thu	lares	2059	2109	52	168 44	S -NE
Oct 14 Thu	sentinel3a	2128	2135	70	178 339	S -N
Oct 14 Thu	technosat	2148	2151	33	327 248	NW-W
Oct 14 Thu	hy2d	2233	2240	44	346 103	N -E
Oct 14 Thu	elsadchs	2252	2255	35	65 148	NE-SE
Oct 14 Thu	lares	2256	2307	53	249 23	W -NE
Oct 14 Thu	icesat2	2350	2353	39	326 226	NW-SW
Oct 14 Thu	ajisai	2353	2359	30	158 97	S -E
Oct 15 Fri	lageos2	0018	0105	80	292 134	W -SE
Oct 15 Fri	hy2d	0020	0027	54	303 172	NW-S
Oct 15 Fri	snet1	0025	0029	41	340 228	N -SW
Oct 15 Fri	elsadchs	0027	0029	25	310 262	NW-W
Oct 15 Fri	larets	0032	0036	38	112 16	E -N
Oct 15 Fri	lares	0100	0103	25	330 0	NW-N
Oct 15 Fri	starlette	0100	0105	34	175 101	S -E
Oct 15 Fri	cryosat2	0126	0132	84	7 183	N -S

Oct 15	Fri	ajisai	0151	0202	67	228	81	SW-E
Oct 15	Fri	larets	0210	0213	30	236	303	SW-NW
Oct 15	Fri	gracefol	0234	0237	31	116	34	SE-NE
Oct 15	Fri	starlette	0247	0255	69	239	85	SW-E
Oct 15	Fri	ajisai	0352	0404	83	267	94	W -E

OBSERVING SCHEDULE (Times are in U.T.)

Date	Satellite	Start	End	Elev	Direction	Observer	
Oct 15	Fri	lageos2	0427	0447	29	281 229 W -SW	AS
Oct 15	Fri	starlette	0436	0444	81	270 100 W -E	
Oct 15	Fri	envisat	0456	0502	51	38 171 NE-S	
Oct 15	Fri	lares	0458	0508	48	343 104 N -E	
Oct 15	Fri	jason3	0506	0517	64	193 45 S -NE	
Oct 15	Fri	sentinel6a	0507	0517	63	192 46 S -NE	
Oct 15	Fri	lageos1	0519	0542	30	55 121 NE-SE	
Oct 15	Fri	saral	0523	0530	69	179 339 S -N	
Oct 15	Fri	kompsat5	0535	0539	51	209 333 SW-NW	
Oct 15	Fri	ajisai	0554	0606	65	278 129 W -SE	
Oct 15	Fri	starlette	0626	0633	51	266 138 W -SE	
Oct 15	Fri	swarmc	0629	0632	31	47 136 NE-SE	
Oct 15	Fri	swarma	0629	0632	31	46 135 NE-SE	
Oct 15	Fri	paz	0633	0637	77	15 193 N -S	
Oct 15	Fri	stella	0644	0651	74	24 189 NE-S	
Oct 15	Fri	lares	0656	0707	60	316 176 NW-S	
Oct 15	Fri	hy2b	0657	0705	75	11 205 N -SW	
Oct 15	Fri	terrasarx	0701	0704	47	331 225 NW-SW	
Oct 15	Fri	tandemx	0701	0704	47	334 226 NW-SW	
Oct 15	Fri	jason3	0703	0712	47	266 26 W -NE	
Oct 15	Fri	sentinel6a	0704	0713	47	270 28 W -NE	
Oct 15	Fri	technosat	0708	0712	35	106 10 E -N	
Oct 15	Fri	geoik2	0710	0717	85	14 201 N -S	
Oct 15	Fri	swarmb	0749	0753	56	218 351 SW-N	
Oct 15	Fri	lageos1	0847	0932	89	32 221 NE-SW	
Oct 15	Fri	hy2c	0906	0913	45	174 56 S -NE	
Oct 15	Fri	sentinel3a	0939	0942	30	73 131 E -SE	
Oct 15	Fri	elsadchs	0941	0944	38	103 15 E -N	
Oct 15	Fri	icesat2	1030	1033	40	117 20 SE-N	
Oct 15	Fri	sentinel3b	1038	1045	86	16 196 N -S	
Oct 15	Fri	hy2c	1053	1100	49	256 24 W -NE	
Oct 15	Fri	jason3	1101	1108	34	347 69 N -E	
Oct 15	Fri	sentinel6a	1101	1109	34	342 72 N -E	
Oct 15	Fri	beaconc	1105	1110	32	207 128 SW-SE	
Oct 15	Fri	sentinel3a	1118	1123	47	345 232 N -SW	
Oct 15	Fri	snet1	1119	1122	34	242 319 SW-NW	
Oct 15	Fri	lageos1	1219	1256	53	48 291 NE-W	
Oct 15	Fri	cryosat2	1240	1245	51	139 13 SE-N	
Oct 15	Fri	jason3	1256	1307	77	325 133 NW-SE	
Oct 15	Fri	sentinel6a	1257	1307	76	326 132 NW-SE	
Oct 15	Fri	beaconc	1258	1303	32	221 145 SW-SE	
Oct 15	Fri	larets	1401	1405	43	55 159 NE-S	
Oct 15	Fri	sentinel6a	1454	1501	33	286 207 W -SW	
Oct 15	Fri	jason3	1454	1500	32	281 211 W -SW	

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Date	Satellite	Start	End	Elev	Direction	Observer
Oct 15 Fri	gracefol	1531	1534	41	312 216 NW-SW	RS
Oct 15 Fri	hy2d	1537	1544	74	202 44 S -NE	
Oct 15 Fri	lageos1	1543	1624	67	106 325 E -NW	
Oct 15 Fri	envisat	1615	1621	74	175 339 S -N	
Oct 15 Fri	hy2c	1620	1627	42	342 97 N -E	
Oct 15 Fri	stella	1630	1634	34	100 19 E -N	
Oct 15 Fri	hy2b	1702	1709	75	150 349 SE-N	
Oct 15 Fri	geoik2	1712	1719	64	140 353 SE-N	
Oct 15 Fri	paz	1717	1721	71	158 349 S -N	
Oct 15 Fri	hy2d	1725	1731	35	284 19 W -N	
Oct 15 Fri	tandemx	1744	1748	49	198 329 S -NW	
Oct 15 Fri	terrasarx	1744	1748	47	200 330 S -NW	
Oct 15 Fri	hy2c	1807	1815	56	308 167 NW-S	
Oct 15 Fri	stella	1809	1815	42	208 326 SW-NW	
Oct 15 Fri	lageos2	1818	1906	73	213 65 SW-NE	
Oct 15 Fri	kompsat5	1841	1846	64	0 208 N -SW	
Oct 15 Fri	geoik2	1857	1859	26	254 285 W -W	
Oct 15 Fri	saral	1910	1915	47	345 230 N -SW	
Oct 15 Fri	swarmb	1912	1916	68	351 185 N -S	
Oct 15 Fri	lageos1	1917	1958	54	187 325 S -NW	
Oct 15 Fri	lares	1958	2003	28	118 68 SE-E	
Oct 15 Fri	swarma	2008	2010	28	253 316 W -NW	
Oct 15 Fri	swarmc	2008	2010	27	255 317 W -NW	
Oct 15 Fri	technosat	2022	2025	34	73 149 E -SE	
Oct 15 Fri	sentinel3b	2024	2029	38	111 11 E -N	
Oct 15 Fri	sentinel3a	2102	2109	75	152 349 SE-N	
Oct 15 Fri	hy2d	2106	2107	25	22 36 N -NE	
Oct 15 Fri	lares	2151	2203	81	215 31 SW-NE	
Oct 15 Fri	technosat	2158	2200	28	303 256 NW-W	
Oct 15 Fri	sentinel3b	2204	2209	37	220 319 SW-NW	
Oct 15 Fri	lageos2	2222	2311	87	277 104 W -E	
Oct 15 Fri	elsadchs	2247	2249	30	79 134 E -SE	
Oct 15 Fri	hy2d	2251	2259	61	334 122 NW-SE	
Oct 15 Fri	icesat2	2324	2328	63	356 194 N -S	
Oct 15 Fri	lares	2353	0000	33	297 13 NW-N	
Oct 16 Sat	elsadchs	0021	0024	29	325 251 NW-W	
Oct 16 Sat	snet1	0029	0032	40	329 238 NW-SW	
Oct 16 Sat	cryosat2	0037	0041	33	54 137 NE-SE	
Oct 16 Sat	hy2d	0039	0044	34	283 202 W -S	
Oct 16 Sat	ajisai	0057	0108	55	212 81 SW-E	
Oct 16 Sat	larets	0108	0114	72	156 349 SE-N	
Oct 16 Sat	starlette	0118	0125	46	203 89 SW-E	
Oct 16 Sat	cryosat2	0216	0220	35	315 232 NW-SW	
Oct 16 Sat	lageos2	0227	0308	52	296 178 NW-S	
Oct 16 Sat	ajisai	0258	0310	81	258 87 W -E	
Oct 16 Sat	starlette	0306	0314	79	253 88 W -E	
Oct 16 Sat	jason3	0338	0340	25	111 89 E -E	
Oct 16 Sat	sentinel6a	0338	0341	25	117 85 SE-E	
Oct 16 Sat	gracefol	0347	0350	33	255 335 W -NW	
Oct 16 Sat	lares	0355	0402	33	358 73 N -E	
Oct 16 Sat	envisat	0421	0423	26	88 124 E -SE	

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Date	Satellite	Start	End	Elev	Direction	Observer
Oct 16 Sat	saral	0452	0458	68	148 353 SE-N	VS
Oct 16 Sat	starlette	0456	0503	75	272 112 W -E	
Oct 16 Sat	ajisai	0500	0512	75	277 116 W -SE	
Oct 16 Sat	jason3	0529	0539	81	216 39 SW-NE	
Oct 16 Sat	sentinel6a	0529	0540	88	216 39 SW-NE	
Oct 16 Sat	kompsat5	0531	0535	55	193 330 S -NW	
Oct 16 Sat	hy2b	0537	0542	30	61 137 NE-SE	
Oct 16 Sat	lares	0552	0603	82	331 144 NW-SE	
Oct 16 Sat	envisat	0558	0604	48	353 223 N -SW	
Oct 16 Sat	paz	0616	0620	53	35 174 NE-S	
Oct 16 Sat	stella	0618	0624	45	45 166 NE-S	
Oct 16 Sat	terrasarx	0643	0647	73	6 205 N -SW	
Oct 16 Sat	tandemx	0643	0648	73	6 202 N -S	
Oct 16 Sat	starlette	0645	0651	38	262 162 W -S	
Oct 16 Sat	ajisai	0702	0711	40	268 170 W -S	
Oct 16 Sat	technosat	0717	0721	41	117 7 SE-N	
Oct 16 Sat	hy2b	0719	0726	56	1 225 N -SW	
Oct 16 Sat	swarma	0720	0723	45	330 210 NW-SW	
Oct 16 Sat	swarmc	0720	0723	45	329 210 NW-SW	
Oct 16 Sat	geoik2	0725	0732	68	6 213 N -SW	
Oct 16 Sat	lageos1	0725	0808	67	35 191 NE-S	
Oct 16 Sat	sentinel6a	0727	0735	38	285 22 W -N	
Oct 16 Sat	jason3	0727	0735	38	289 26 W -NE	
Oct 16 Sat	swarmb	0729	0733	82	187 0 S -N	
Oct 16 Sat	stella	0758	0802	32	334 257 NW-W	
Oct 16 Sat	hy2c	0924	0932	67	200 44 S -NE	
Oct 16 Sat	elsadchs	0936	0939	33	87 12 E -N	
Oct 16 Sat	sentinel3b	1013	1019	56	38 175 NE-S	
Oct 16 Sat	beaconc	1022	1026	30	187 125 S -SE	
Oct 16 Sat	sentinel3a	1052	1058	72	5 207 N -SW	
Oct 16 Sat	lageos1	1058	1138	61	38 267 NE-W	
Oct 16 Sat	hy2c	1113	1118	37	289 15 W -N	
Oct 16 Sat	snet1	1122	1125	32	229 308 SW-NW	
Oct 16 Sat	jason3	1123	1132	41	339 88 N -E	
Oct 16 Sat	sentinel6a	1124	1132	41	342 85 N -E	
Oct 16 Sat	beaconc	1214	1219	33	217 139 SW-SE	
Oct 16 Sat	sentinel6a	1319	1330	77	318 153 NW-SE	
Oct 16 Sat	jason3	1319	1330	78	317 152 NW-SE	
Oct 16 Sat	cryosat2	1328	1334	55	199 344 S -N	
Oct 16 Sat	lageos1	1424	1503	56	80 316 E -NW	
Oct 16 Sat	larets	1437	1442	83	14 197 N -S	
Oct 16 Sat	gracefol	1508	1512	66	349 196 N -S	
Oct 16 Sat	envisat	1539	1544	56	131 0 SE-N	
Oct 16 Sat	hy2d	1555	1603	74	230 35 SW-NE	

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Date	Satellite	Start	End	Elev	Direction	Observer
Oct 16 Sat	lageos2	1629	1710	50	176 63 S -NE	TS
Oct 16 Sat	hy2c	1639	1646	58	339 117 N -SE	
Oct 16 Sat	paz	1700	1704	50	128 360 SE-N	
Oct 16 Sat	hy2b	1724	1732	77	171 341 S -N	
Oct 16 Sat	geoik2	1727	1734	80	155 347 SE-N	
Oct 16 Sat	terrasarx	1727	1731	64	174 343 S -N	
Oct 16 Sat	tandemx	1727	1731	70	174 342 S -N	
Oct 16 Sat	stella	1742	1748	69	179 336 S -NW	
Oct 16 Sat	lageos1	1751	1835	78	154 328 SE-NW	
Oct 16 Sat	hy2c	1826	1832	37	291 195 W -S	
Oct 16 Sat	kompsat5	1838	1842	63	1 207 N -SW	
Oct 16 Sat	saral	1838	1845	82	12 201 N -S	
Oct 16 Sat	swarmb	1852	1856	63	13 169 N -S	
Oct 16 Sat	swarma	1925	1929	68	187 360 S -N	
Oct 16 Sat	swarmc	1925	1929	66	187 360 S -N	
Oct 16 Sat	sentinel3b	2000	2002	25	70 34 E -NE	
Oct 16 Sat	lageos2	2025	2115	88	253 81 W -E	
Oct 16 Sat	technosat	2030	2034	42	42 155 NE-SE	
Oct 16 Sat	sentinel3a	2037	2043	47	122 360 SE-N	
Oct 16 Sat	lares	2048	2059	58	178 41 S -NE	
Oct 16 Sat	hy2d	2123	2128	31	359 74 N -E	
Oct 16 Sat	sentinel3b	2137	2144	60	187 335 S -NW	
Oct 16 Sat	sentinel3a	2218	2221	29	242 299 SW-NW	
Oct 16 Sat	elsadchs	2242	2243	27	93 119 E -SE	
Oct 16 Sat	lares	2246	2256	49	256 19 W -N	
Oct 16 Sat	icesat2	2258	2302	57	22 166 N -S	
Oct 16 Sat	snet1	2258	2259	25	86 110 E -E	
Oct 16 Sat	hy2d	2309	2317	83	322 142 NW-SE	
Oct 16 Sat	starlette	2351	2353	25	147 120 SE-SE	
Oct 17 Sun	ajisai	0004	0013	43	191 88 S -E	
Oct 17 Sun	larets	0010	0011	25	61 41 NE-NE	
Oct 17 Sun	elsadchs	0016	0019	32	316 241 NW-SW	
Oct 17 Sun	lageos2	0031	0119	75	294 142 NW-SE	
Oct 17 Sun	snet1	0032	0036	37	339 236 N -SW	
Oct 17 Sun	cryosat2	0125	0130	88	4 187 N -S	
Oct 17 Sun	starlette	0136	0145	60	228 83 SW-E	
Oct 17 Sun	larets	0145	0150	49	201 328 S -NW	
Oct 17 Sun	ajisai	0204	0216	77	246 82 SW-E	
Oct 17 Sun	lares	0252	0254	25	12 32 N -NE	
Oct 17 Sun	gracefo1	0324	0328	49	211 346 SW-N	
Oct 17 Sun	starlette	0325	0334	81	264 93 W -E	
Oct 17 Sun	jason3	0357	0405	38	158 61 S -NE	
Oct 17 Sun	sentinel6a	0358	0406	39	154 58 SE-NE	
Oct 17 Sun	ajisai	0406	0418	83	274 104 W -E	
Oct 17 Sun	saral	0422	0427	40	110 7 E -N	

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Date	Satellite	Start	End	Elev	Direction	Observer
Oct 17 Sun	lares	0448	0458	52	343 112 N -E	MW
Oct 17 Sun	starlette	0515	0522	63	272 127 W -SE	
Oct 17 Sun	envisat	0521	0527	80	18 192 N -S	
Oct 17 Sun	kompsat5	0528	0532	57	194 335 S -NW	
Oct 17 Sun	jason3	0551	0602	68	237 34 SW-NE	

Oct 17 Sun	sentinel6a	0552	0603	68	238	35	SW-NE
Oct 17 Sun	paz	0559	0603	34	51	158	NE-S
Oct 17 Sun	geoik2	0559	0603	30	69	134	E -SE
Oct 17 Sun	hy2b	0559	0605	42	51	158	NE-S
Oct 17 Sun	saral	0602	0606	34	233	314	SW-NW
Oct 17 Sun	lageos1	0604	0640	44	43	156	NE-SE
Oct 17 Sun	ajisai	0608	0618	51	272	150	W -SE
Oct 17 Sun	tandemx	0626	0631	72	22	186	N -S
Oct 17 Sun	terrasarx	0626	0630	70	23	183	NE-S
Oct 17 Sun	swarmc	0638	0641	54	22	155	N -SE
Oct 17 Sun	swarma	0638	0642	53	21	162	N -S
Oct 17 Sun	larsa	0646	0656	53	311	184	NW-S
Oct 17 Sun	swarmb	0709	0713	64	154	9	SE-N
Oct 17 Sun	technosat	0726	0730	50	130	3	SE-N
Oct 17 Sun	stella	0731	0737	48	353	226	N -SW
Oct 17 Sun	geoik2	0740	0747	54	360	225	N -SW
Oct 17 Sun	hy2b	0742	0748	41	343	240	N -SW
Oct 17 Sun	jason3	0751	0757	32	309	20	NW-N
Oct 17 Sun	sentinel6a	0751	0758	32	304	23	NW-NE
Oct 17 Sun	elsadchs	0930	0933	30	99	22	E -N
Oct 17 Sun	lageos1	0936	1019	75	33	240	NE-SW
Oct 17 Sun	hy2c	0942	0950	78	225	36	SW-NE
Oct 17 Sun	sentinel3b	0947	0952	35	52	148	NE-SE
Oct 17 Sun	snet1	0951	0953	30	84	30	E -NE
Oct 17 Sun	sentinel3a	1026	1032	69	27	185	NE-S
Oct 17 Sun	icesat2	1112	1116	50	207	342	SW-N
Oct 17 Sun	sentinel3b	1127	1132	40	340	239	N -SW
Oct 17 Sun	beaconc	1130	1135	34	213	133	SW-SE
Oct 17 Sun	jason3	1146	1156	53	337	109	NW-E
Oct 17 Sun	sentinel6a	1146	1156	53	334	106	NW-E
Oct 17 Sun	cryosat2	1238	1243	55	144	11	SE-N
Oct 17 Sun	lageos1	1306	1342	52	58	304	NE-NW
Oct 17 Sun	jason3	1342	1352	55	305	173	NW-S
Oct 17 Sun	sentinel6a	1342	1352	55	308	175	NW-S
Oct 17 Sun	hy2d	1427	1433	42	166	62	S -NE
Oct 17 Sun	gracefol	1446	1450	74	7	173	N -S
Oct 17 Sun	envisat	1503	1507	30	91	17	E -N
Oct 17 Sun	hy2c	1511	1515	30	6	67	N -NE
Oct 17 Sun	larets	1514	1519	43	341	228	N -SW
Oct 17 Sun	hy2b	1605	1609	32	88	20	E -N
Oct 17 Sun	hy2d	1614	1621	53	257	28	W -NE

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Date	Satellite	Start	End	Elev	Direction	Observer
Oct 17 Sun	lageos1	1630	1713	79	124 327	SE-NW AS
Oct 17 Sun	envisat	1641	1646	46	206 323	SW-NW
Oct 17 Sun	paz	1643	1646	34	108 20	E -N
Oct 17 Sun	hy2c	1657	1705	80	324 139	NW-SE
Oct 17 Sun	tandemx	1710	1714	61	147 355	SE-N
Oct 17 Sun	terrasarx	1710	1714	58	145 355	SE-N
Oct 17 Sun	stella	1716	1722	72	149 349	SE-N
Oct 17 Sun	geoik2	1742	1750	77	169 341	S -N
Oct 17 Sun	hy2b	1746	1753	55	190 328	S -NW
Oct 17 Sun	saral	1807	1813	57	31 173	NE-S
Oct 17 Sun	lageos2	1831	1920	78	222 67	SW-NE
Oct 17 Sun	swarmb	1832	1836	45	31 153	NE-SE

Oct 17 Sun	kompsat5	1834	1839	72	8	203	N	-SW
Oct 17 Sun	swarma	1844	1846	32	111	41	E	-NE
Oct 17 Sun	swarmc	1844	1846	32	109	40	E	-NE
Oct 17 Sun	lares	1946	1953	32	136	62	SE	-NE
Oct 17 Sun	saral	1949	1950	26	300	282	NW	-W
Oct 17 Sun	lageos1	2011	2044	40	215	317	SW	-NW
Oct 17 Sun	sentinel3a	2012	2016	31	93	19	E	-N
Oct 17 Sun	technosat	2039	2044	52	34	172	NE	-S
Oct 17 Sun	sentinel3b	2111	2118	86	161	346	S	-N
Oct 17 Sun	lares	2141	2152	76	222	28	SW	-NE
Oct 17 Sun	hy2d	2141	2147	39	349	91	N	-E
Oct 17 Sun	sentinel3a	2151	2156	47	207	322	SW	-NW
Oct 17 Sun	icesat2	2233	2236	31	56	140	NE	-SE
Oct 17 Sun	lageos2	2236	2325	88	282	111	W	-E
Oct 17 Sun	snet1	2302	2303	27	97	121	E	-SE
Oct 17 Sun	ajisai	2311	2318	32	170	98	S	-E
Oct 17 Sun	hy2d	2328	2335	62	307	165	NW	-S
Oct 17 Sun	lares	2343	2349	31	303	8	NW	-N
Oct 18 Mon	starlette	0008	0014	36	184	96	S	-E
Oct 18 Mon	elsadchs	0010	0014	36	333	232	NW	-SW
Oct 18 Mon	cryosat2	0035	0039	35	51	139	NE	-SE
Oct 18 Mon	snet1	0036	0039	34	328	246	NW	-SW
Oct 18 Mon	larets	0044	0049	47	130	5	SE	-N
Oct 18 Mon	ajisai	0110	0121	69	232	81	SW	-E
Oct 18 Mon	starlette	0156	0204	71	240	84	SW	-E
Oct 18 Mon	cryosat2	0214	0218	33	315	235	NW	-SW
Oct 18 Mon	lageos2	0241	0319	46	295	188	NW	-S
Oct 18 Mon	gracefol	0302	0306	69	182	359	S	-N
Oct 18 Mon	ajisai	0311	0323	85	268	95	W	-E
Oct 18 Mon	lares	0344	0352	35	351	79	N	-E
Oct 18 Mon	starlette	0345	0353	75	270	101	W	-E
Oct 18 Mon	sentinel6a	0419	0429	56	184	49	S	-NE
Oct 18 Mon	jason3	0419	0428	57	181	50	S	-NE
Oct 18 Mon	envisat	0445	0450	42	52	160	NE	-S
Oct 18 Mon	ajisai	0513	0525	63	278	132	W	-SE
Oct 18 Mon	kompsat5	0524	0529	66	182	339	S	-N

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Date	Satellite	Start	End	Elev	Direction	Observer
Oct 18 Mon	saral	0530	0536	61	191 336	S -NW CP
Oct 18 Mon	starlette	0534	0541	49	269 145	W -SE
Oct 18 Mon	lares	0541	0553	85	328 150	NW-SE
Oct 18 Mon	terrasarx	0609	0613	45	40 164	NE-S
Oct 18 Mon	tandemx	0610	0613	45	57 162	NE-S
Oct 18 Mon	geoik2	0613	0619	39	47 151	NE-SE
Oct 18 Mon	jason3	0615	0624	52	262 27	W -NE
Oct 18 Mon	sentinel6a	0615	0625	51	258 29	W -NE
Oct 18 Mon	hy2b	0620	0628	58	30 179	NE-S
Oct 18 Mon	envisat	0624	0628	32	332 253	NW-W
Oct 18 Mon	swarmb	0649	0652	43	131 28	SE-NE
Oct 18 Mon	stella	0704	0711	78	11 204	N -SW
Oct 18 Mon	paz	0716	0719	32	330 246	NW-SW
Oct 18 Mon	technosat	0735	0740	62	144 354	SE-N
Oct 18 Mon	geoik2	0756	0802	43	346 237	N -SW
Oct 18 Mon	hy2b	0805	0809	30	323 261	NW-W
Oct 18 Mon	lageos1	0813	0857	82	33 212	NE-SW
Oct 18 Mon	hy2c	0815	0821	39	157 60	SE-NE
Oct 18 Mon	snet1	0954	0957	33	101 21	E -N

Oct 18 Mon	sentinel3a	1000	1006	44	44	164	NE-S
Oct 18 Mon	hy2c	1001	1008	56	250	26	W -NE
Oct 18 Mon	jason3	1013	1019	32	348	59	N -NE
Oct 18 Mon	sentinel6a	1013	1020	32	342	62	N -NE
Oct 18 Mon	beaconc	1046	1051	34	208	128	SW-SE
Oct 18 Mon	icesat2	1046	1050	68	167	358	S -N
Oct 18 Mon	elsadchs	1059	1102	32	226	308	SW-NW
Oct 18 Mon	sentinel3b	1101	1107	62	358	214	N -SW
Oct 18 Mon	sentinel3a	1140	1145	33	337	248	NW-W
Oct 18 Mon	lageos1	1146	1224	55	44	283	NE-W
Oct 18 Mon	jason3	1208	1219	70	328	127	NW-SE
Oct 18 Mon	sentinel6a	1209	1219	69	329	125	NW-SE
Oct 18 Mon	cryosat2	1326	1332	52	203	341	SW-N
Oct 18 Mon	jason3	1405	1413	37	293	198	NW-S
Oct 18 Mon	sentinel6a	1406	1413	37	289	202	W -S
Oct 18 Mon	larets	1413	1418	56	35	173	NE-S
Oct 18 Mon	gracefol	1424	1428	46	25	153	NE-SE
Oct 18 Mon	hy2d	1445	1452	65	193	47	S -NE
Oct 18 Mon	lageos1	1510	1550	63	97	323	E -NW
Oct 18 Mon	hy2c	1529	1535	38	356	92	N -E
Oct 18 Mon	envisat	1604	1610	79	164	346	S -N

OBSERVING SCHEDULE (Times are in U.T.)

Date	Satellite	Start	End	Elev	Direction	Observer
Oct 18 Mon	hy2b	1626	1632	43	114 4	SE-N TS
Oct 18 Mon	hy2d	1633	1639	38	281 20	W -N
Oct 18 Mon	lageos2	1641	1724	56	186 63	S -NE
Oct 18 Mon	stella	1650	1655	47	116 3	SE-N
Oct 18 Mon	tandemx	1653	1657	42	126 7	SE-N
Oct 18 Mon	terrasarx	1653	1657	40	123 5	SE-N
Oct 18 Mon	hy2c	1715	1723	65	312 160	NW-S
Oct 18 Mon	saral	1737	1741	32	61 139	NE-SE
Oct 18 Mon	geoik2	1758	1805	62	188 336	S -NW
Oct 18 Mon	paz	1800	1803	33	229 314	SW-NW
Oct 18 Mon	hy2b	1809	1815	39	215 318	SW-NW
Oct 18 Mon	swarmb	1812	1815	31	43 127	NE-SE
Oct 18 Mon	stella	1830	1834	30	232 306	SW-NW
Oct 18 Mon	kompsat5	1831	1836	79	10 199	N -S
Oct 18 Mon	lageos1	1841	1924	62	175 327	S -NW
Oct 18 Mon	saral	1916	1921	42	345 237	N -SW
Oct 18 Mon	swarma	1935	1938	44	234 343	SW-N
Oct 18 Mon	swarmc	1935	1938	44	235 343	SW-N
Oct 18 Mon	lares	2037	2048	65	187 40	S -NE
Oct 18 Mon	lageos2	2039	2129	86	260 86	W -E
Oct 18 Mon	sentinel3b	2046	2052	55	131 356	SE-N
Oct 18 Mon	technosat	2048	2053	63	25 180	NE-S
Oct 18 Mon	sentinel3a	2125	2131	74	177 340	S -N
Oct 18 Mon	hy2d	2159	2206	54	337 112	NW-E
Oct 18 Mon	sentinel3b	2228	2229	25	262 280	W -W
Oct 18 Mon	lares	2236	2246	44	263 20	W -N



Oct 18 Mon	snet1	2305	2307	28	81 131	E -SE
Oct 18 Mon	icesat2	2341	2344	37	324 228	NW-SW
Oct 18 Mon	hy2d	2347	2353	40	287 188	W -S
Oct 19 Tue	elsadchs	0005	0008	41	325 234	NW-SW
Oct 19 Tue	ajisai	0016	0027	57	216 81	SW-E
Oct 19 Tue	starlette	0026	0034	48	210 86	SW-E
Oct 19 Tue	snet1	0040	0043	32	316 243	NW-SW
Oct 19 Tue	lageos2	0045	0132	70	296 150	NW-SE
Oct 19 Tue	larets	0121	0126	81	172 342	S -N
Oct 19 Tue	cryosat2	0123	0128	82	0 191	N -S
Oct 19 Tue	starlette	0215	0223	76	255 88	W -E
Oct 19 Tue	ajisai	0217	0229	82	260 88	W -E
Oct 19 Tue	gracefol	0240	0244	54	150 11	SE-N
Oct 19 Tue	lares	0241	0245	26	6 46	N -NE

OBSERVING SCHEDULE (Times are in U.T.)

Date	Satellite	Start	End	Elev	Direction	Observer
Oct 19 Tue	starlette	0404	0412	73	273 114	W -SE MW
Oct 19 Tue	ajisai	0419	0431	73	277 118	W -SE
Oct 19 Tue	lares	0437	0448	57	338 119	N -SE
Oct 19 Tue	sentinel6a	0441	0452	80	208 41	SW-NE
Oct 19 Tue	jason3	0441	0451	78	208 41	SW-NE
Oct 19 Tue	saral	0458	0505	76	154 349	SE-N
Oct 19 Tue	kompsat5	0521	0525	66	180 339	S -N
Oct 19 Tue	envisat	0547	0552	61	356 217	N -SW
Oct 19 Tue	tandemx	0553	0556	30	70 147	E -SE
Oct 19 Tue	starlette	0554	0600	36	256 162	W -S
Oct 19 Tue	ajisai	0622	0630	37	261 173	W -S
Oct 19 Tue	geoik2	0628	0635	50	38 167	NE-S
Oct 19 Tue	swarmb	0630	0632	30	91 38	E -NE
Oct 19 Tue	lares	0636	0645	47	305 193	NW-S
Oct 19 Tue	jason3	0638	0647	41	278 27	W -NE
Oct 19 Tue	stella	0638	0644	62	30 181	NE-S
Oct 19 Tue	sentinel6a	0639	0648	41	281 29	W -NE
Oct 19 Tue	hy2b	0642	0650	79	19 195	N -S
Oct 19 Tue	swarmc	0647	0651	62	352 184	N -S
Oct 19 Tue	swarma	0647	0651	62	352 184	N -S
Oct 19 Tue	lageos1	0651	0733	59	37 181	NE-S
Oct 19 Tue	paz	0659	0703	47	341 219	N -SW
Oct 19 Tue	technosat	0744	0749	77	158 349	S -N
Oct 19 Tue	geoik2	0811	0817	34	343 247	N -SW
Oct 19 Tue	hy2c	0832	0840	59	192 47	S -NE
Oct 19 Tue	snet1	0958	1001	35	92 13	E -N
Oct 19 Tue	beaconc	1002	1006	33	202 134	S -SE
Oct 19 Tue	hy2c	1020	1027	41	273 25	W -NE
Oct 19 Tue	icesat2	1021	1024	42	119 18	SE-N
Oct 19 Tue	lageos1	1024	1105	65	36 258	NE-W
Oct 19 Tue	jason3	1035	1043	39	340 78	N -E
Oct 19 Tue	sentinel3b	1035	1041	76	19 193	N -S
Oct 19 Tue	sentinel6a	1036	1044	38	343 81	N -E

Oct 19 Tue	elsadchs	1054	1057	37	233	318	SW-NW
Oct 19 Tue	sentinel3a	1114	1120	49	351	225	N -SW
Oct 19 Tue	sentinel6a	1231	1242	83	320	146	NW-SE
Oct 19 Tue	jason3	1231	1242	84	320	146	NW-SE
Oct 19 Tue	cryosat2	1236	1242	59	149	4	SE-N
Oct 19 Tue	lageos1	1351	1429	54	73	313	E -NW
Oct 19 Tue	larets	1450	1455	69	1	208	N -SW
Oct 19 Tue	lageos2	1459	1526	32	140	72	SE-E
Oct 19 Tue	hy2d	1503	1511	82	222	38	SW-NE
Oct 19 Tue	envisat	1527	1533	45	126	2	SE-N
Oct 19 Tue	hy2c	1547	1554	52	343	111	N -E
Oct 19 Tue	stella	1624	1628	30	92	18	E -N
Oct 19 Tue	geoik2	1631	1637	34	103	8	E -N

OBSERVING SCHEDULE (Times are in U.T.)

Date	Satellite	Start	End	Elev	Direction	Observer
Oct 19 Tue	hy2b	1647	1655	59	139 353	SE-N RS
Oct 19 Tue	hy2d	1653	1657	30	312 13	NW-N
Oct 19 Tue	lageos1	1717	1801	86	144 328	SE-NW
Oct 19 Tue	hy2c	1734	1741	43	295 182	NW-S
Oct 19 Tue	paz	1742	1746	51	194 328	S -NW
Oct 19 Tue	stella	1803	1808	48	206 324	SW-NW
Oct 19 Tue	tandemx	1811	1813	26	247 300	SW-NW
Oct 19 Tue	terrasarx	1811	1813	26	252 303	W -NW
Oct 19 Tue	geoik2	1813	1820	50	200 329	S -NW
Oct 19 Tue	kompsat5	1828	1832	67	13 196	N -S
Oct 19 Tue	hy2b	1833	1836	28	252 299	W -NW
Oct 19 Tue	lageos2	1844	1934	82	230 69	SW-E
Oct 19 Tue	saral	1845	1851	72	5 207	N -SW
Oct 19 Tue	swarmc	1853	1856	57	142 13	SE-N
Oct 19 Tue	swarma	1853	1856	57	144 14	SE-N
Oct 19 Tue	swarmb	1927	1930	31	309 228	NW-SW
Oct 19 Tue	lares	1935	1943	36	145 57	SE-NE
Oct 19 Tue	sentinel3b	2021	2025	36	98 16	E -N
Oct 19 Tue	hy2d	2031	2035	28	0 61	N -NE
Oct 19 Tue	technosat	2058	2102	69	21 190	N -S
Oct 19 Tue	sentinel3a	2059	2105	67	146 351	SE-N
Oct 19 Tue	lageos1	2111	2126	27	255 298	W -NW
Oct 19 Tue	lares	2131	2142	70	230 27	SW-NE
Oct 19 Tue	sentinel3b	2200	2205	39	214 317	SW-NW
Oct 19 Tue	hy2d	2217	2225	77	326 135	NW-SE
Oct 19 Tue	lageos2	2250	2339	87	286 118	W -SE
Oct 19 Tue	starlette	2259	2302	28	155 114	SE-SE
Oct 19 Tue	snet1	2308	2311	31	65 141	NE-SE
Oct 19 Tue	icesat2	2315	2319	59	353 196	N -S
Oct 19 Tue	ajisai	2323	2333	45	195 83	S -E
Oct 19 Tue	lares	2333	2339	29	308 10	NW-N
Oct 19 Tue	elsadchs	2359	0003	43	343 224	N -SW
Oct 20 Wed	hy2d	0007	0009	25	255 226	W -SW
Oct 20 Wed	larets	0021	0025	30	98 16	E -N
Oct 20 Wed	cryosat2	0033	0037	38	47 141	NE-SE
Oct 20 Wed	snet1	0044	0046	30	304 254	NW-W
Oct 20 Wed	starlette	0045	0053	62	228 85	SW-E
Oct 20 Wed	ajisai	0123	0135	77	249 83	W -E
Oct 20 Wed	larets	0158	0202	38	217 314	SW-NW

Oct 20	Wed	cryosat2	0212	0215	30	315	251	NW-W
Oct 20	Wed	gracefo1	0218	0222	35	128	22	SE-N
Oct 20	Wed	starlette	0234	0242	82	265	94	W -E
Oct 20	Wed	lageos2	0256	0330	40	292	199	W -S
Oct 20	Wed	sentinel6a	0310	0317	34	149	67	SE-NE
Oct 20	Wed	jason3	0310	0317	34	144	63	SE-NE
Oct 20	Wed	ajisai	0325	0337	80	275	107	W -E
Oct 20	Wed	lares	0334	0342	37	354	86	N -E
Oct 20	Wed	starlette	0423	0431	61	274	129	W -SE
Oct 20	Wed	saral	0428	0433	44	118	7	SE-N

OBSERVING SCHEDULE (Times are in U.T.)

Date	Satellite	Start	End	Elev	Direction	Observer	
Oct 20	Wed	jason3	0503	0514	75	230 36 SW-NE	VS
Oct 20	Wed	sentinel6a	0504	0515	74	231 36 SW-NE	
Oct 20	Wed	envisat	0510	0516	68	28 184 NE-S	
Oct 20	Wed	kompsat5	0518	0522	73	177 342 S -N	
Oct 20	Wed	ajisai	0527	0537	49	272 153 W -SE	
Oct 20	Wed	lares	0531	0542	80	325 157 NW-SE	
Oct 20	Wed	lageos1	0531	0602	37	48 141 NE-SE	
Oct 20	Wed	swarmc	0606	0608	33	68 134 E -SE	
Oct 20	Wed	swarma	0606	0608	33	66 133 NE-SE	
Oct 20	Wed	saral	0608	0612	31	232 308 SW-NW	
Oct 20	Wed	stella	0612	0617	40	53 156 NE-SE	
Oct 20	Wed	paz	0642	0646	72	2 202 N -S	
Oct 20	Wed	geoik2	0643	0650	62	29 178 NE-S	
Oct 20	Wed	jason3	0702	0709	34	298 20 NW-N	
Oct 20	Wed	sentinel6a	0703	0710	34	302 24 NW-NE	
Oct 20	Wed	hy2b	0704	0712	69	9 211 N -SW	
Oct 20	Wed	terrasarx	0709	0713	37	341 230 N -SW	
Oct 20	Wed	tandemx	0710	0713	38	321 232 NW-SW	
Oct 20	Wed	swarmb	0744	0747	33	247 331 SW-NW	
Oct 20	Wed	stella	0752	0756	35	332 250 NW-W	
Oct 20	Wed	technosat	0753	0758	81	172 344 S -N	
Oct 20	Wed	hy2c	0850	0858	83	217 39 SW-NE	
Oct 20	Wed	lageos1	0901	0945	82	33 231 NE-SW	
Oct 20	Wed	beaconc	0918	0922	31	195 130 S -SE	
Oct 20	Wed	snet1	1001	1005	38	110 7 E -N	
Oct 20	Wed	sentinel3b	1009	1015	51	38 171 NE-S	
Oct 20	Wed	hy2c	1040	1044	31	304 8 NW-N	
Oct 20	Wed	sentinel3a	1048	1054	71	9 204 N -SW	
Oct 20	Wed	elsadchs	1048	1052	41	214 326 SW-NW	
Oct 20	Wed	sentinel6a	1058	1108	48	335 102 NW-E	
Oct 20	Wed	jason3	1058	1107	48	339 99 N -E	
Oct 20	Wed	beaconc	1110	1115	31	224 146 SW-SE	
Oct 20	Wed	lageos1	1232	1309	52	54 298 NE-NW	
Oct 20	Wed	jason3	1254	1304	62	309 166 NW-S	
Oct 20	Wed	sentinel6a	1254	1304	62	311 168 NW-S	
Oct 20	Wed	cryosat2	1325	1330	48	218 339 SW-N	
Oct 20	Wed	hy2d	1336	1341	36	147 65 SE-NE	
Oct 20	Wed	larets	1350	1353	35	70 142 E -SE	
Oct 20	Wed	gracefo1	1515	1518	34	315 226 NW-SW	
Oct 20	Wed	hy2d	1521	1529	59	244 30 SW-NE	
Oct 20	Wed	larets	1527	1531	34	328 242 NW-SW	

## OBSERVING SCHEDULE (Times are in U.T.)

Date	Satellite	Start	End	Elev	Direction	Observer
Oct 20 Wed	lageos1	1556	1639	73	115 326 SE-NW	AS
Oct 20 Wed	hy2c	1605	1613	73	329 132 NW-SE	
Oct 20 Wed	envisat	1629	1635	56	191 332 S -NW	
Oct 20 Wed	geoik2	1646	1652	43	114 5 SE-N	
Oct 20 Wed	lageos2	1653	1738	61	195 63 S -NE	
Oct 20 Wed	hy2b	1709	1717	76	157 345 SE-N	
Oct 20 Wed	paz	1725	1729	76	172 343 S -N	
Oct 20 Wed	stella	1736	1742	71	172 340 S -N	
Oct 20 Wed	terrasarx	1753	1757	39	215 327 SW-NW	
Oct 20 Wed	tandemx	1753	1757	38	211 325 SW-NW	
Oct 20 Wed	hy2c	1754	1757	27	263 219 W -SW	
Oct 20 Wed	saral	1814	1820	64	33 181 NE-S	
Oct 20 Wed	kompsat5	1824	1829	82	16 193 N -S	
Oct 20 Wed	geoik2	1829	1835	39	220 322 SW-NW	
Oct 20 Wed	swarmb	1907	1910	45	320 214 NW-SW	
Oct 20 Wed	lageos1	1934	2011	47	201 321 S -NW	
Oct 20 Wed	swarma	1945	1946	25	276 306 W -NW	
Oct 20 Wed	swarmc	1945	1946	26	277 308 W -NW	
Oct 20 Wed	lares	2027	2038	72	193 37 S -NE	
Oct 20 Wed	sentinel3a	2033	2039	44	123 3 SE-N	
Oct 20 Wed	hy2d	2049	2055	36	351 87 N -E	
Oct 20 Wed	lageos2	2054	2143	85	266 91 W -E	
Oct 20 Wed	technosat	2107	2111	70	8 200 N -S	
Oct 20 Wed	sentinel3b	2134	2140	63	188 336 S -NW	
Oct 20 Wed	sentinel3a	2214	2218	31	235 310 SW-NW	
Oct 20 Wed	lares	2226	2235	41	271 16 W -N	
Oct 20 Wed	ajisai	2230	2238	34	174 91 S -E	
Oct 20 Wed	hy2d	2236	2243	71	312 157 NW-SE	
Oct 20 Wed	icesat2	2249	2253	60	20 169 N -S	
Oct 20 Wed	snet1	2312	2315	33	74 149 E -SE	
Oct 20 Wed	starlette	2316	2323	39	192 91 S -E	
Oct 20 Wed	elsadchs	2353	2358	52	355 216 N -SW	
Oct 21 Thu	ajisai	0029	0041	70	235 80 SW-E	
Oct 21 Thu	snet1	0047	0049	28	318 267 NW-W	
Oct 21 Thu	larets	0057	0102	63	140 356 SE-N	
Oct 21 Thu	lageos2	0059	0144	64	297 159 NW-S	
Oct 21 Thu	starlette	0104	0113	74	245 84 SW-E	
Oct 21 Thu	cryosat2	0121	0127	75	357 194 N -S	
Oct 21 Thu	lares	0230	0235	27	360 51 N -NE	
Oct 21 Thu	ajisai	0231	0243	85	269 97 W -E	
Oct 21 Thu	starlette	0253	0302	80	272 103 W -E	
Oct 21 Thu	jason3	0331	0340	50	174 53 S -NE	
Oct 21 Thu	gracefo1	0331	0334	29	250 327 W -NW	
Oct 21 Thu	sentinel6a	0331	0341	50	177 51 S -NE	
Oct 21 Thu	saral	0359	0401	27	67 30 NE-NE	

## OBSERVING SCHEDULE (Times are in U.T.)

Date	Satellite	Start	End	Elev	Direction	Observer
Oct 21 Thu	lares	0427	0438	63	338 126 N -SE	MW
Oct 21 Thu	ajisai	0433	0444	61	275 135 W -SE	
Oct 21 Thu	envisat	0434	0438	34	67 147 NE-SE	
Oct 21 Thu	starlette	0443	0450	48	265 145 W -SE	
Oct 21 Thu	kompsat5	0514	0519	83	169 345 S -N	
Oct 21 Thu	jason3	0526	0536	56	251 29 W -NE	
Oct 21 Thu	sentinel6a	0527	0537	56	253 31 W -NE	
Oct 21 Thu	saral	0536	0542	53	195 332 S -NW	
Oct 21 Thu	hy2b	0544	0549	33	54 137 NE-SE	
Oct 21 Thu	stella	0547	0548	25	89 107 E -E	
Oct 21 Thu	envisat	0612	0617	39	344 240 N -SW	
Oct 21 Thu	paz	0625	0629	69	32 185 NE-S	
Oct 21 Thu	lares	0626	0635	41	299 196 NW-S	
Oct 21 Thu	terrasarx	0652	0656	55	355 213 N -SW	
Oct 21 Thu	tandemx	0652	0656	58	357 215 N -SW	
Oct 21 Thu	swarma	0657	0700	41	306 206 NW-SW	
Oct 21 Thu	swarmc	0657	0700	40	304 206 NW-SW	
Oct 21 Thu	geoik2	0658	0706	77	20 192 N -S	
Oct 21 Thu	hy2c	0723	0728	33	152 72 SE-E	
Oct 21 Thu	swarmb	0724	0727	48	232 342 SW-N	
Oct 21 Thu	stella	0725	0731	55	354 220 N -SW	
Oct 21 Thu	jason3	0726	0732	30	316 23 NW-NE	
Oct 21 Thu	sentinel6a	0727	0733	30	320 26 NW-NE	
Oct 21 Thu	hy2b	0727	0734	50	353 227 N -SW	
Oct 21 Thu	lageos1	0739	0823	75	33 202 NE-S	
Oct 21 Thu	technosat	0802	0807	66	183 338 S -N	
Oct 21 Thu	beaconc	0834	0838	30	188 127 S -SE	
Oct 21 Thu	hy2c	0909	0917	63	243 33 SW-NE	
Oct 21 Thu	sentinel6a	0925	0932	31	343 60 N -NE	
Oct 21 Thu	jason3	0925	0931	31	349 57 N -NE	
Oct 21 Thu	sentinel3b	0944	0948	33	65 142 NE-SE	
Oct 21 Thu	snet1	1004	1008	41	123 11 SE-N	
Oct 21 Thu	sentinel3a	1022	1028	65	28 181 NE-S	
Oct 21 Thu	beaconc	1026	1031	33	220 140 SW-SE	
Oct 21 Thu	elsadchs	1042	1046	48	199 324 S -NW	
Oct 21 Thu	icesat2	1103	1107	48	212 341 SW-N	
Oct 21 Thu	lageos1	1112	1151	57	41 275 NE-W	
Oct 21 Thu	jason3	1120	1131	63	330 121 NW-SE	
Oct 21 Thu	sentinel6a	1121	1131	62	332 119 NW-SE	
Oct 21 Thu	sentinel3b	1123	1128	42	346 239 N -SW	
Oct 21 Thu	cryosat2	1234	1240	63	154 3 SE-N	
Oct 21 Thu	jason3	1317	1325	42	296 192 NW-S	
Oct 21 Thu	sentinel6a	1317	1326	43	300 190 NW-S	
Oct 21 Thu	hy2d	1353	1400	56	184 50 S -NE	
Oct 21 Thu	larets	1426	1431	72	27 186 NE-S	
Oct 21 Thu	lageos1	1437	1516	59	88 320 E -NW	
Oct 21 Thu	hy2c	1437	1442	35	358 80 N -E	
Oct 21 Thu	gracefol	1453	1457	55	331 199 NW-S	
Oct 21 Thu	lageos2	1508	1542	38	154 66 SE-NE	
Oct 21 Thu	hy2d	1541	1547	42	277 22 W -N	
Oct 21 Thu	envisat	1552	1558	72	152 352 SE-N	
Oct 21 Thu	hy2c	1623	1631	73	316 153 NW-SE	

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Date	Satellite	Start	End	Elev	Direction	Observer
Oct 21 Thu	geoik2	1701	1708	54	128 355 SE-N	TS
Oct 21 Thu	paz	1708	1712	62	147 357 SE-N	
Oct 21 Thu	stella	1709	1716	66	145 351 SE-N	
Oct 21 Thu	hy2b	1731	1739	69	177 337 S -NW	
Oct 21 Thu	terrasarx	1736	1740	61	192 338 S -N	
Oct 21 Thu	tandemx	1736	1740	56	189 337 S -NW	
Oct 21 Thu	saral	1743	1748	36	54 152 NE-SE	
Oct 21 Thu	lageos1	1806	1850	70	165 328 S -NW	
Oct 21 Thu	komsat5	1821	1826	74	21 190 N -S	
Oct 21 Thu	geoik2	1845	1849	30	239 305 SW-NW	
Oct 21 Thu	swarmb	1847	1851	67	340 190 N -S	
Oct 21 Thu	lageos2	1858	1948	85	238 73 SW-E	
Oct 21 Thu	swarmc	1902	1905	73	200 356 S -N	
Oct 21 Thu	swarma	1902	1905	74	199 356 S -N	
Oct 21 Thu	saral	1922	1927	38	345 243 N -SW	
Oct 21 Thu	lares	1924	1933	41	154 52 SE-NE	
Oct 21 Thu	sentinel3a	2009	2012	30	80 24 E -NE	
Oct 21 Thu	hy2d	2107	2114	49	340 106 N -E	
Oct 21 Thu	sentinel3b	2108	2114	76	156 347 SE-N	
Oct 21 Thu	technosat	2116	2121	63	358 207 N -SW	
Oct 21 Thu	lares	2120	2132	62	235 27 SW-NE	
Oct 21 Thu	ajisai	2140	2141	25	129 119 SE-SE	
Oct 21 Thu	sentinel3a	2147	2153	49	200 329 S -NW	
Oct 21 Thu	icesat2	2224	2227	33	57 143 NE-SE	
Oct 21 Thu	hy2d	2254	2301	46	301 181 NW-S	
Oct 21 Thu	lageos2	2304	2352	84	289 126 W -SE	
Oct 21 Thu	snet1	2315	2319	36	57 157 NE-SE	
Oct 21 Thu	lares	2323	2328	28	313 5 NW-N	
Oct 21 Thu	starlette	2335	2343	52	210 84 SW-E	
Oct 21 Thu	ajisai	2335	2346	59	220 82 SW-E	
Oct 21 Thu	elsadchs	2348	2352	57	355 214 N -SW	
Oct 22 Fri	cryosat2	0031	0036	42	43 152 NE-SE	
Oct 22 Fri	snet1	0051	0053	26	307 261 NW-W	
Oct 22 Fri	starlette	0123	0132	81	258 88 W -E	
Oct 22 Fri	larets	0134	0139	61	192 336 S -NW	
Oct 22 Fri	ajisai	0136	0148	85	262 89 W -E	
Oct 22 Fri	cryosat2	0210	0213	28	315 254 NW-W	
Oct 22 Fri	gracefol	0308	0312	44	215 339 SW-N	
Oct 22 Fri	lageos2	0311	0339	35	289 213 W -SW	
Oct 22 Fri	starlette	0313	0321	71	272 115 W -SE	
Oct 22 Fri	lares	0323	0332	41	348 92 N -E	
Oct 22 Fri	ajisai	0338	0350	72	278 121 W -SE	
Oct 22 Fri	sentinel6a	0353	0404	72	201 43 S -NE	
Oct 22 Fri	jason3	0353	0403	71	199 44 S -NE	

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Date	Satellite	Start	End	Elev	Direction	Observer
Oct 22 Fri	starlette	0503	0508	34	250 170 W -S	CP
Oct 22 Fri	saral	0505	0511	78	160 346 S -N	
Oct 22 Fri	komsat5	0511	0515	69	164 347 S -N	
Oct 22 Fri	lares	0521	0532	73	321 163 NW-S	

Oct 22 Fri	envisat	0535	0541	70	7	205	N	-SW
Oct 22 Fri	ajisai	0541	0549	35	262	177	W	-S
Oct 22 Fri	jason3	0550	0559	44	274	28	W	-NE
Oct 22 Fri	sentinel6a	0551	0600	43	278	30	W	-NE
Oct 22 Fri	hy2b	0606	0613	47	43	167	NE	-S
Oct 22 Fri	paz	0608	0611	44	57	161	NE	-S
Oct 22 Fri	swarmc	0614	0618	54	14	165	N	-S
Oct 22 Fri	swarma	0614	0618	55	13	164	N	-S
Oct 22 Fri	lageos1	0617	0657	51	39	170	NE	-S
Oct 22 Fri	terrasarx	0635	0639	71	14	194	N	-S
Oct 22 Fri	tandemx	0635	0639	82	14	194	N	-S
Oct 22 Fri	stella	0658	0704	82	15	198	N	-S
Oct 22 Fri	swarmb	0703	0707	72	193	354	S	-N
Oct 22 Fri	geoik2	0714	0721	80	12	204	N	-SW
Oct 22 Fri	hy2c	0740	0748	51	184	50	S	-NE
Oct 22 Fri	hy2b	0749	0755	37	345	247	N	-SW
Oct 22 Fri	technosat	0812	0816	52	207	332	SW	-NW
Oct 22 Fri	hy2c	0928	0935	45	268	26	W	-NE
Oct 22 Fri	beaconc	0942	0947	34	215	134	SW	-SE
Oct 22 Fri	jason3	0947	0955	36	341	75	N	-E
Oct 22 Fri	sentinel6a	0948	0956	36	345	78	N	-E
Oct 22 Fri	lageos1	0950	1032	70	34	249	NE	-W
Oct 22 Fri	sentinel3a	0957	1002	41	55	159	NE	-S
Oct 22 Fri	snet1	1008	1012	43	120	5	SE	-N
Oct 22 Fri	elsadchs	1037	1041	51	199	332	S	-NW
Oct 22 Fri	icesat2	1037	1041	65	171	357	S	-N
Oct 22 Fri	sentinel3b	1057	1103	63	3	212	N	-SW
Oct 22 Fri	sentinel3a	1137	1141	34	327	249	NW	-W
Oct 22 Fri	sentinel6a	1143	1154	82	323	139	NW	-SE
Oct 22 Fri	jason3	1143	1154	82	323	140	NW	-SE
Oct 22 Fri	lageos1	1319	1356	52	65	308	NE	-NW
Oct 22 Fri	cryosat2	1323	1328	45	220	336	SW	-NW
Oct 22 Fri	hy2d	1411	1419	82	213	40	SW	-NE
Oct 22 Fri	gracefol	1431	1435	83	0	182	N	-S
Oct 22 Fri	hy2c	1455	1502	46	346	106	N	-E
Oct 22 Fri	larets	1502	1508	52	356	217	N	-SW
Oct 22 Fri	envisat	1516	1521	38	112	10	E	-N
Oct 22 Fri	hy2d	1600	1605	32	296	14	NW	-N
Oct 22 Fri	hy2b	1612	1617	36	96	12	E	-N

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Date	Satellite	Start	End	Elev	Direction	Observer
Oct 22 Fri	hy2c	1642	1649	50	299 175	NW-S VS
Oct 22 Fri	lageos1	1643	1727	85	134 328	SE-NW
Oct 22 Fri	stella	1644	1649	41	106 4	E -N
Oct 22 Fri	paz	1651	1655	41	125 8	SE-N
Oct 22 Fri	envisat	1656	1700	35	236 317	SW-NW
Oct 22 Fri	lageos2	1705	1752	67	205 63	SW-NE
Oct 22 Fri	geoik2	1716	1723	68	143 351	SE-N
Oct 22 Fri	tandemx	1719	1723	67	160 349	S -N
Oct 22 Fri	terrasarx	1719	1723	76	159 349	S -N
Oct 22 Fri	hy2b	1754	1801	50	201 329	S -NW
Oct 22 Fri	komsat5	1818	1822	65	28 185	NE-S

Oct 22 Fri	swarma	1820	1823	36	122	27	SE-NE
Oct 22 Fri	swarmc	1820	1823	36	121	26	SE-NE
Oct 22 Fri	stella	1824	1828	34	233	312	SW-NW
Oct 22 Fri	swarmb	1827	1831	77	6	175	N -S
Oct 22 Fri	saral	1851	1857	62	2	212	N -SW
Oct 22 Fri	hy2d	1940	1942	26	16	46	N -NE
Oct 22 Fri	lares	2016	2027	80	202	35	S -NE
Oct 22 Fri	lageos1	2030	2056	33	233	310	SW-NW
Oct 22 Fri	sentinel3b	2042	2048	51	130	359	SE-N
Oct 22 Fri	lageos2	2108	2157	85	272	97	W -E
Oct 22 Fri	sentinel3a	2121	2127	72	172	341	S -N
Oct 22 Fri	technosat	2125	2130	53	351	216	N -SW
Oct 22 Fri	hy2d	2125	2133	68	329	128	NW-SE
Oct 22 Fri	starlette	2207	2211	30	162	108	S -E
Oct 22 Fri	lares	2216	2225	38	277	17	W -N
Oct 22 Fri	sentinel3b	2224	2226	27	256	293	W -NW
Oct 22 Fri	ajisai	2242	2252	47	199	83	S -E
Oct 22 Fri	hy2d	2314	2318	29	271	210	W -SW
Oct 22 Fri	snet1	2319	2322	40	65	153	NE-SE
Oct 22 Fri	icesat2	2332	2335	35	319	229	NW-SW
Oct 22 Fri	elsadchs	2342	2347	67	4	206	N -SW
Oct 22 Fri	starlette	2353	0002	65	233	84	SW-E
Oct 23 Sat	larets	0033	0038	39	117	7	SE-N
Oct 23 Sat	ajisai	0042	0054	79	251	84	W -E
Oct 23 Sat	lageos2	0113	0156	58	297	169	NW-S
Oct 23 Sat	cryosat2	0119	0125	69	353	197	N -S
Oct 23 Sat	starlette	0142	0151	78	267	96	W -E
Oct 23 Sat	larets	0212	0215	29	252	312	W -NW
Oct 23 Sat	lares	0220	0225	29	3	56	N -NE
Oct 23 Sat	jason3	0223	0228	29	130	73	SE-E
Oct 23 Sat	sentinel6a	0223	0229	29	135	70	SE-E
Oct 23 Sat	ajisai	0244	0256	78	276	109	W -E
Oct 23 Sat	gracefol	0246	0250	68	192	353	S -N
Oct 23 Sat	starlette	0332	0340	58	272	130	W -SE

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Date	Satellite	Start	End	Elev	Direction	Observer
Oct 23 Sat	jason3	0415	0426	83	223 37	SW-NE RS
Oct 23 Sat	lares	0416	0428	68	334 133	NW-SE
Oct 23 Sat	sentinel6a	0416	0426	80	224 37	SW-NE
Oct 23 Sat	saral	0434	0440	49	126 359	SE-N
Oct 23 Sat	ajisai	0446	0456	47	273 157	W -SE
Oct 23 Sat	envisat	0458	0504	55	33 172	NE-S
Oct 23 Sat	lageos1	0459	0522	30	55 121	NE-SE
Oct 23 Sat	komsat5	0507	0512	78	160 349	S -N
Oct 23 Sat	geoik2	0549	0550	26	91 107	E -E
Oct 23 Sat	paz	0551	0553	29	71 129	E -SE
Oct 23 Sat	jason3	0614	0621	36	296 21	NW-N
Oct 23 Sat	sentinel6a	0614	0622	36	291 24	W -NE
Oct 23 Sat	lares	0615	0623	37	300 211	NW-SW
Oct 23 Sat	tandemx	0618	0622	57	32 174	NE-S
Oct 23 Sat	terrasarx	0618	0622	53	35 175	NE-S
Oct 23 Sat	hy2b	0628	0635	68	30 183	NE-S
Oct 23 Sat	stella	0632	0638	57	37 177	NE-S
Oct 23 Sat	swarmb	0643	0647	74	171 8	S -N



Oct 23 Sat	geoik2	0729	0736	65	3	216	N -SW
Oct 23 Sat	hy2c	0758	0806	78	209	42	SW-NE
Oct 23 Sat	technosat	0821	0825	41	215	325	SW-NW
Oct 23 Sat	lageos1	0827	0912	89	32	222	NE-SW
Oct 23 Sat	beaconc	0858	0903	34	209	129	SW-SE
Oct 23 Sat	hy2c	0947	0953	33	288	19	W -N
Oct 23 Sat	sentinel6a	1010	1019	44	337	92	NW-E
Oct 23 Sat	jason3	1010	1019	45	341	95	N -E
Oct 23 Sat	snet1	1011	1016	49	132	0	SE-N
Oct 23 Sat	icesat2	1012	1015	44	117	15	SE-N
Oct 23 Sat	elsadchs	1031	1036	63	185	338	S -N
Oct 23 Sat	sentinel3b	1031	1037	75	21	189	N -S
Oct 23 Sat	sentinel3a	1110	1116	52	356	224	N -SW
Oct 23 Sat	lageos1	1159	1236	53	48	291	NE-W
Oct 23 Sat	sentinel6a	1206	1217	70	314	159	NW-S
Oct 23 Sat	jason3	1206	1216	70	313	160	NW-S
Oct 23 Sat	cryosat2	1232	1238	67	159	1	S -N
Oct 23 Sat	hy2d	1244	1249	31	143	68	SE-E
Oct 23 Sat	larets	1402	1407	44	49	165	NE-S
Oct 23 Sat	gracefol	1409	1412	56	31	157	NE-SE
Oct 23 Sat	hy2d	1429	1437	65	237	32	SW-NE
Oct 23 Sat	hy2c	1513	1521	65	333	126	NW-SE

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Date	Satellite	Start	End	Elev	Direction	Observer
Oct 23 Sat	lageos2	1518	1556	44	166 65 S -NE	AS
Oct 23 Sat	lageos1	1523	1604	67	106 325 E -NW	
Oct 23 Sat	envisat	1618	1624	70	182 339 S -N	
Oct 23 Sat	hy2b	1633	1640	49	122 358 SE-N	
Oct 23 Sat	hy2c	1701	1706	32	280 204 W -SW	
Oct 23 Sat	terrasarx	1702	1706	52	129 359 SE-N	
Oct 23 Sat	tandemx	1702	1706	49	133 0 SE-N	
Oct 23 Sat	geoik2	1731	1738	85	159 345 S -N	
Oct 23 Sat	stella	1756	1802	54	192 329 S -NW	
Oct 23 Sat	swarmb	1807	1811	53	30 160 NE-S	
Oct 23 Sat	paz	1809	1811	27	248 302 W -NW	
Oct 23 Sat	komsat5	1814	1819	67	26 183 NE-S	
Oct 23 Sat	hy2b	1817	1822	35	227 312 SW-NW	
Oct 23 Sat	saral	1820	1826	68	26 186 NE-S	
Oct 23 Sat	lageos1	1857	1938	54	187 325 S -NW	
Oct 23 Sat	swarmc	1911	1914	40	232 338 SW-N	
Oct 23 Sat	swarma	1911	1914	40	230 337 SW-NW	
Oct 23 Sat	lageos2	1912	2002	88	245 76 SW-E	
Oct 23 Sat	lares	1913	1923	46	164 47 S -NE	
Oct 23 Sat	hy2d	1957	2002	33	353 74 N -E	
Oct 23 Sat	sentinel3b	2017	2022	34	101 10 E -N	
Oct 23 Sat	sentinel3a	2055	2101	64	144 354 SE-N	
Oct 23 Sat	lares	2110	2121	58	243 24 SW-NE	
Oct 23 Sat	technosat	2134	2138	43	346 233 N -SW	
Oct 23 Sat	hy2d	2144	2151	81	317 150 NW-SE	

Oct 23 Sat	ajisai	2149	2157	36	178	92	S -E
Oct 23 Sat	sentinel3b	2156	2202	41	207	325	SW-NW
Oct 23 Sat	starlette	2224	2232	41	199	88	S -E
Oct 23 Sat	icesat2	2306	2310	60	349	198	N -S
Oct 23 Sat	lares	2314	2317	26	328	359	NW-N
Oct 23 Sat	lageos2	2318	0006	80	292	133	W -SE
Oct 23 Sat	snet1	2322	2326	41	49	161	NE-S
Oct 23 Sat	elsadchs	2337	2341	73	7	202	N -S
Oct 23 Sat	ajisai	2348	0000	71	238	81	SW-E
Oct 24 Sun	starlette	0012	0021	73	248	85	W -E
Oct 24 Sun	cryosat2	0029	0034	45	39	155	NE-SE
Oct 24 Sun	larets	0109	0115	73	158	348	S -N
Oct 24 Sun	ajisai	0150	0202	83	271	99	W -E
Oct 24 Sun	starlette	0202	0210	77	272	106	W -E
Oct 24 Sun	cryosat2	0209	0211	26	296	257	NW-W
Oct 24 Sun	gracefol	0224	0228	65	164	8	S -N
Oct 24 Sun	jason3	0243	0252	44	167	56	S -NE
Oct 24 Sun	sentinel6a	0244	0253	44	164	54	S -NE
Oct 24 Sun	lares	0313	0322	44	349	99	N -E
Oct 24 Sun	lageos2	0327	0348	29	282	227	W -SW
Oct 24 Sun	starlette	0351	0358	45	269	153	W -SE
Oct 24 Sun	ajisai	0352	0403	59	275	138	W -SE
Oct 24 Sun	saral	0404	0408	29	91	18	E -N
Oct 24 Sun	envisat	0423	0425	28	81	121	E -SE
Oct 24 Sun	jason3	0438	0448	62	245	31	SW-NE
Oct 24 Sun	sentinel6a	0439	0449	61	247	32	SW-NE
Oct 24 Sun	kompsat5	0504	0509	74	154	350	SE-N

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Date	Satellite	Start	End	Elev	Direction	Observer
Oct 24 Sun	lares	0510	0521	65	319 171	NW-S TS
Oct 24 Sun	saral	0542	0548	48	198 327	S -NW
Oct 24 Sun	terrasarx	0601	0605	35	51 159	NE-S
Oct 24 Sun	envisat	0601	0606	47	343 228	N -SW
Oct 24 Sun	tandemx	0602	0605	36	69 156	E -SE
Oct 24 Sun	geoik2	0603	0607	32	68 137	E -SE
Oct 24 Sun	stella	0606	0610	35	61 144	NE-SE
Oct 24 Sun	swarma	0623	0627	67	350 188	N -S
Oct 24 Sun	swarmc	0623	0627	65	349 188	N -S
Oct 24 Sun	swarmb	0624	0627	50	132 20	SE-N
Oct 24 Sun	sentinel6a	0638	0645	31	310 27	NW-NE
Oct 24 Sun	jason3	0638	0644	31	315 23	NW-NE
Oct 24 Sun	hy2b	0650	0657	87	15 200	N -S
Oct 24 Sun	lageos1	0705	0748	67	35 192	NE-S
Oct 24 Sun	paz	0708	0711	38	319 230	NW-SW
Oct 24 Sun	geoik2	0744	0751	51	358 228	N -SW
Oct 24 Sun	stella	0745	0750	40	346 242	N -SW
Oct 24 Sun	beaconc	0813	0819	34	215 125	SW-SE
Oct 24 Sun	hy2c	0817	0825	71	235 35	SW-NE
Oct 24 Sun	technosat	0830	0834	34	221 318	SW-NW
Oct 24 Sun	jason3	0837	0842	30	350 47	N -NE
Oct 24 Sun	sentinel6a	0837	0843	30	344 51	N -NE
Oct 24 Sun	sentinel3b	1005	1011	49	37 166	NE-S
Oct 24 Sun	beaconc	1007	1011	30	215 153	SW-SE
Oct 24 Sun	snet1	1015	1019	50	131 2	SE-N
Oct 24 Sun	elsadchs	1026	1030	64	181 339	S -N
Oct 24 Sun	jason3	1032	1042	58	332 112	NW-E
Oct 24 Sun	sentinel6a	1033	1043	57	334 114	NW-SE
Oct 24 Sun	lageos1	1038	1118	60	38 267	NE-W
Oct 24 Sun	sentinel3a	1044	1051	81	12 201	N -S
Oct 24 Sun	sentinel3b	1146	1150	30	325 254	NW-W

Oct 24 Sun	jason3	1229	1238	48	299	181	NW-S
Oct 24 Sun	sentinel6a	1229	1238	48	303	184	NW-S
Oct 24 Sun	hy2d	1301	1308	48	176	54	S -NE
Oct 24 Sun	cryosat2	1321	1326	42	223	334	SW-NW
Oct 24 Sun	hy2c	1345	1350	32	360	76	N -E
Oct 24 Sun	gracefol	1347	1350	35	51	139	NE-SE
Oct 24 Sun	lageos1	1404	1443	56	80	316	E -NW
Oct 24 Sun	larets	1438	1444	73	13	198	N -S
Oct 24 Sun	hy2d	1448	1455	47	261	24	W -NE
Oct 24 Sun	hy2c	1531	1539	80	320	146	NW-SE
Oct 24 Sun	envisat	1541	1547	59	138	355	SE-N

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Date	Satellite	Start	End	Elev	Direction	Observer
Oct 24 Sun	terrasarx	1645	1648	35	109 20 E -N	RS
Oct 24 Sun	tandemx	1646	1649	34	89 10 E -N	
Oct 24 Sun	hy2b	1655	1702	68	142 351 SE-N	
Oct 24 Sun	lageos2	1718	1806	72	213 65 SW-NE	
Oct 24 Sun	stella	1730	1736	84	164 344 S -N	
Oct 24 Sun	lageos1	1731	1815	78	154 328 SE-NW	
Oct 24 Sun	geoik2	1746	1753	74	173 338 S -N	
Oct 24 Sun	swarmb	1747	1750	36	45 136 NE-SE	
Oct 24 Sun	saral	1749	1754	40	47 154 NE-SE	
Oct 24 Sun	paz	1751	1755	40	212 327 SW-NW	
Oct 24 Sun	kompsat5	1811	1815	58	33 176 NE-S	
Oct 24 Sun	lares	1814	1815	25	99 89 E -E	
Oct 24 Sun	swarmc	1829	1832	65	155 12 SE-N	
Oct 24 Sun	swarma	1829	1832	65	156 12 SE-N	
Oct 24 Sun	hy2b	1841	1842	25	263 278 W -W	
Oct 24 Sun	saral	1929	1933	34	331 250 NW-W	
Oct 24 Sun	lares	2006	2017	86	209 33 SW-NE	
Oct 24 Sun	technosat	2009	2011	26	86 131 E -SE	
Oct 24 Sun	hy2d	2015	2022	44	343 101 N -E	
Oct 24 Sun	sentinel3a	2030	2035	42	112 7 E -N	
Oct 24 Sun	ajisai	2058	2101	26	141 111 SE-E	
Oct 24 Sun	lageos2	2122	2211	87	277 104 W -E	
Oct 24 Sun	sentinel3b	2130	2136	64	182 336 S -NW	
Oct 24 Sun	technosat	2144	2147	36	324 243 NW-SW	
Oct 24 Sun	hy2d	2202	2209	53	305 174 NW-S	
Oct 24 Sun	lares	2206	2214	35	284 12 W -N	
Oct 24 Sun	sentinel3a	2210	2214	33	228 308 SW-NW	
Oct 24 Sun	icesat2	2240	2244	59	20 173 N -S	
Oct 24 Sun	starlette	2243	2251	54	217 86 SW-E	
Oct 24 Sun	ajisai	2254	2306	61	223 80 SW-E	
Oct 24 Sun	snet1	2326	2330	47	55 168 NE-S	
Oct 24 Sun	elsadchs	2332	2336	76	13 196 N -S	
Oct 25 Mon	larets	0011	0013	26	67 28 NE-NE	
Oct 25 Mon	starlette	0032	0040	79	259 90 W -E	
Oct 25 Mon	ajisai	0056	0108	85	263 91 W -E	
Oct 25 Mon	cryosat2	0117	0123	64	351 201 N -S	
Oct 25 Mon	lageos2	0127	0208	52	297 178 NW-S	
Oct 25 Mon	larets	0146	0151	47	199 325 S -NW	
Oct 25 Mon	gracefol	0202	0206	42	140 20 SE-N	

Oct 25 Mon	lares	0209	0216	31	357	70	N	-E
Oct 25 Mon	starlette	0221	0229	70	274	119	W	-SE
Oct 25 Mon	ajisai	0257	0309	70	279	124	W	-SE
Oct 25 Mon	jason3	0305	0315	63	191	46	S	-NE
Oct 25 Mon	sentinel6a	0305	0316	64	194	45	S	-NE
Oct 25 Mon	lares	0406	0417	75	333	138	NW	-SE
Oct 25 Mon	starlette	0411	0416	33	256	179	W	-S

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Date	Satellite	Start	End	Elev	Direction	Observer
Oct 25 Mon	ajisai	0500	0508	33	263 181 W	-S CP
Oct 25 Mon	kompsat5	0501	0505	62	147 354 SE	-N
Oct 25 Mon	sentinel6a	0502	0512	47	266 30 W	-NE
Oct 25 Mon	jason3	0502	0511	47	270 29 W	-NE
Oct 25 Mon	saral	0511	0517	75	167 343 S	-N
Oct 25 Mon	envisat	0523	0530	87	15 196 N	-S
Oct 25 Mon	hy2b	0531	0533	27	82 114 E	-SE
Oct 25 Mon	swarmc	0542	0544	35	58 133 NE	-SE
Oct 25 Mon	swarma	0542	0544	35	56 132 NE	-SE
Oct 25 Mon	lageos1	0544	0620	44	43 156 NE	-SE
Oct 25 Mon	swarmb	0604	0607	34	116 31 SE	-NE
Oct 25 Mon	lares	0606	0612	32	286 219 W	-SW
Oct 25 Mon	geoik2	0617	0623	41	46 154 NE	-SE
Oct 25 Mon	hy2c	0649	0655	44	168 59 S	-NE
Oct 25 Mon	paz	0650	0654	57	356 212 N	-SW
Oct 25 Mon	technosat	0704	0707	33	100 21 E	-N
Oct 25 Mon	hy2b	0712	0719	63	3 218 N	-SW
Oct 25 Mon	stella	0718	0724	63	4 217 N	-SW
Oct 25 Mon	terrasarx	0719	0721	31	304 248 NW	-W
Oct 25 Mon	tandemx	0719	0721	30	312 253 NW	-W
Oct 25 Mon	beaconc	0729	0734	32	209 132 SW	-SE
Oct 25 Mon	geoik2	0800	0806	41	344 239 N	-SW
Oct 25 Mon	hy2c	0836	0843	50	262 28 W	-NE
Oct 25 Mon	jason3	0859	0906	34	342 65 N	-NE
Oct 25 Mon	sentinel6a	0900	0907	34	346 68 N	-E
Oct 25 Mon	lageos1	0916	0959	75	33 240 NE	-SW
Oct 25 Mon	beaconc	0922	0927	32	225 147 SW	-SE
Oct 25 Mon	sentinel3b	0940	0944	31	61 137 NE	-SE
Oct 25 Mon	snet1	1018	1023	58	142 357 SE	-N
Oct 25 Mon	sentinel3a	1018	1025	63	28 181 NE	-S
Oct 25 Mon	elsadchs	1020	1025	81	171 344 S	-N
Oct 25 Mon	icesat2	1054	1057	47	219 332 SW	-NW
Oct 25 Mon	sentinel6a	1055	1106	76	325 133 NW	-SE
Oct 25 Mon	jason3	1055	1105	75	326 132 NW	-SE
Oct 25 Mon	sentinel3b	1119	1125	44	351 230 N	-SW
Oct 25 Mon	cryosat2	1230	1236	69	164 359 S	-N
Oct 25 Mon	lageos1	1246	1322	52	58 304 NE	-NW
Oct 25 Mon	jason3	1252	1259	33	286 207 W	-SW
Oct 25 Mon	sentinel6a	1253	1259	32	282 211 W	-SW
Oct 25 Mon	hy2d	1319	1327	74	203 43 SW	-NE
Oct 25 Mon	hy2c	1403	1409	41	349 94 N	-E
Oct 25 Mon	envisat	1505	1509	31	98 19 E	-N
Oct 25 Mon	hy2d	1508	1513	35	293 16 NW	-N
Oct 25 Mon	laretts	1515	1520	43	345 231 N	-SW
Oct 25 Mon	lageos2	1529	1611	49	176 63 S	-NE
Oct 25 Mon	hy2c	1550	1557	58	304 168 NW	-S

## OBSERVING SCHEDULE (Times are in U.T.)

Date	Satellite	Start	End	Elev	Direction	Observer
Oct 25 Mon	lageos1	1610	1653	79	125 327 SE-NW	MW
Oct 25 Mon	geoik2	1621	1625	30	81 17 E -N	
Oct 25 Mon	envisat	1644	1649	42	219 327 SW-NW	
Oct 25 Mon	stella	1703	1709	57	137 357 SE-N	
Oct 25 Mon	hy2b	1717	1724	86	164 343 S -N	
Oct 25 Mon	paz	1734	1738	62	190 338 S -N	
Oct 25 Mon	terrasarx	1802	1805	32	227 312 SW-NW	
Oct 25 Mon	geoik2	1802	1809	58	192 334 S -NW	
Oct 25 Mon	tandemx	1803	1805	31	248 307 W -NW	
Oct 25 Mon	kompsat5	1808	1812	54	42 175 NE-S	
Oct 25 Mon	hy2d	1848	1849	25	17 32 N -NE	
Oct 25 Mon	saral	1857	1903	58	359 218 N -SW	
Oct 25 Mon	swarmb	1902	1904	27	299 245 NW-SW	
Oct 25 Mon	lares	1902	1913	52	173 43 S -NE	
Oct 25 Mon	lageos2	1926	2016	87	253 81 W -E	
Oct 25 Mon	lageos1	1951	2024	40	215 317 SW-NW	
Oct 25 Mon	sentinel3a	2005	2008	28	84 29 E -NE	
Oct 25 Mon	technosat	2017	2021	31	56 149 NE-SE	
Oct 25 Mon	hy2d	2033	2041	60	332 121 NW-SE	
Oct 25 Mon	lares	2100	2111	53	250 24 W -NE	
Oct 25 Mon	sentinel3b	2104	2110	73	153 350 SE-N	
Oct 25 Mon	starlette	2115	2120	32	170 102 S -E	
Oct 25 Mon	sentinel3a	2143	2149	53	194 329 S -NW	
Oct 25 Mon	technosat	2153	2156	30	322 251 NW-W	
Oct 25 Mon	ajisai	2201	2211	50	203 84 SW-E	
Oct 25 Mon	icesat2	2215	2218	34	61 147 NE-SE	
Oct 25 Mon	hy2d	2221	2227	34	287 196 W -S	
Oct 25 Mon	starlette	2302	2311	67	234 83 SW-E	
Oct 25 Mon	lares	2304	2307	25	332 2 NW-N	
Oct 25 Mon	elsadchs	2326	2331	78	19 191 N -S	
Oct 25 Mon	snet1	2329	2333	50	40 167 NE-S	
Oct 25 Mon	lageos2	2332	0019	75	294 142 NW-SE	
Oct 26 Tue	ajisai	0001	0013	82	254 85 W -E	
Oct 26 Tue	cryosat2	0027	0032	49	35 158 NE-S	
Oct 26 Tue	larets	0046	0051	49	122 360 SE-N	
Oct 26 Tue	starlette	0051	0100	83	268 97 W -E	
Oct 26 Tue	jason3	0136	0139	25	117 84 SE-E	
Oct 26 Tue	sentinel6a	0137	0139	25	112 90 E -E	
Oct 26 Tue	gracefol	0141	0143	28	102 46 E -NE	
Oct 26 Tue	ajisai	0203	0215	78	276 111 W -E	
Oct 26 Tue	starlette	0241	0248	58	268 135 W -SE	
Oct 26 Tue	lares	0302	0312	48	344 106 N -E	
Oct 26 Tue	gracefol	0316	0317	25	272 299 W -NW	
Oct 26 Tue	jason3	0327	0338	88	216 39 SW-NE	
Oct 26 Tue	sentinel6a	0328	0338	82	216 39 SW-NE	
Oct 26 Tue	ajisai	0405	0415	45	273 161 W -S	
Oct 26 Tue	saral	0440	0446	53	134 358 SE-N	
Oct 26 Tue	envisat	0447	0452	45	45 160 NE-S	
Oct 26 Tue	kompsat5	0457	0502	64	147 355 SE-N	

## OBSERVING SCHEDULE (Times are in U.T.)

Date	Satellite	Start	End	Elev	Direction	Observer
Oct 26 Tue	lares	0500	0511	59	315 176 NW-S	VS
Oct 26 Tue	jason3	0525	0533	38	285 22 W -N	
Oct 26 Tue	sentinel6a	0526	0534	38	288 25 W -NE	
Oct 26 Tue	hy2b	0552	0557	38	59 148 NE-SE	
Oct 26 Tue	envisat	0627	0630	31	319 259 NW-W	
Oct 26 Tue	geoik2	0632	0639	53	36 170 NE-S	
Oct 26 Tue	swarma	0633	0636	39	310 211 NW-SW	
Oct 26 Tue	paz	0633	0637	69	16 193 N -S	
Oct 26 Tue	swarmc	0633	0636	38	308 211 NW-SW	
Oct 26 Tue	beaconc	0646	0650	30	189 128 S -SE	
Oct 26 Tue	stella	0652	0658	72	21 192 N -S	
Oct 26 Tue	tandemx	0701	0705	45	348 223 N -SW	
Oct 26 Tue	terrasarx	0701	0705	45	343 221 N -SW	
Oct 26 Tue	hy2c	0706	0714	69	201 45 S -NE	
Oct 26 Tue	technosat	0713	0717	40	110 7 E -N	
Oct 26 Tue	hy2b	0734	0741	46	353 233 N -SW	
Oct 26 Tue	lageos1	0753	0837	83	33 212 NE-SW	
Oct 26 Tue	geoik2	0816	0820	33	327 258 NW-W	
Oct 26 Tue	beaconc	0838	0843	34	221 140 SW-SE	
Oct 26 Tue	hy2c	0855	0901	37	284 21 W -N	
Oct 26 Tue	jason3	0922	0930	41	342 85 N -E	
Oct 26 Tue	sentinel6a	0922	0931	41	338 88 N -E	
Oct 26 Tue	sentinel3a	0953	0958	39	53 154 NE-SE	
Oct 26 Tue	elsadchs	1015	1019	72	163 347 S -N	
Oct 26 Tue	snet1	1022	1026	60	142 358 SE-N	
Oct 26 Tue	icesat2	1028	1032	73	175 355 S -N	
Oct 26 Tue	sentinel3b	1053	1059	70	6 210 N -SW	
Oct 26 Tue	jason3	1117	1128	77	318 153 NW-SE	
Oct 26 Tue	sentinel6a	1118	1129	78	317 152 NW-SE	
Oct 26 Tue	lageos1	1126	1204	55	44 283 NE-W	
Oct 26 Tue	sentinel3a	1133	1138	36	334 240 NW-SW	
Oct 26 Tue	cryosat2	1141	1144	30	102 38 E -NE	
Oct 26 Tue	cryosat2	1319	1324	39	225 331 SW-NW	
Oct 26 Tue	hy2d	1337	1345	72	229 35 SW-NE	
Oct 26 Tue	larets	1414	1420	56	32 177 NE-S	
Oct 26 Tue	hy2c	1421	1428	58	336 116 NW-SE	
Oct 26 Tue	gracefo1	1437	1441	44	329 207 NW-SW	
Oct 26 Tue	lageos1	1450	1530	63	97 323 E -NW	
Oct 26 Tue	envisat	1606	1612	76	167 344 S -N	
Oct 26 Tue	hy2c	1609	1614	37	283 198 W -S	
Oct 26 Tue	geoik2	1635	1641	36	104 6 E -N	
Oct 26 Tue	stella	1638	1642	37	96 13 E -N	
Oct 26 Tue	paz	1717	1721	77	156 349 SE-N	

## OBSERVING SCHEDULE (Times are in U.T.)

Date	Satellite	Start	End	Elev	Direction	Observer
Oct 26 Tue	lageos2	1731	1820	77	221 67 SW-NE	TS
Oct 26 Tue	hy2b	1739	1746	63	186 333 S -NW	
Oct 26 Tue	tandemx	1745	1749	47	204 331 SW-NW	
Oct 26 Tue	terrasarx	1745	1749	50	210 334 SW-NW	
Oct 26 Tue	lares	1801	1807	28	126 65 SE-NE	
Oct 26 Tue	kompsat5	1804	1809	52	36 174 NE-S	
Oct 26 Tue	geoik2	1817	1824	47	204 328 SW-NW	
Oct 26 Tue	stella	1817	1822	38	217 318 SW-NW	
Oct 26 Tue	lageos1	1821	1904	62	175 327 S -NW	
Oct 26 Tue	saral	1826	1832	76	20 191 N -S	
Oct 26 Tue	swarmc	1838	1841	67	204 353 SW-N	
Oct 26 Tue	swarma	1838	1841	67	203 352 SW-N	
Oct 26 Tue	swarmb	1842	1845	39	308 216 NW-SW	
Oct 26 Tue	hy2d	1905	1910	31	355 71 N -E	
Oct 26 Tue	lares	1955	2007	80	216 31 SW-NE	
Oct 26 Tue	technosat	2026	2030	39	48 155 NE-SE	
Oct 26 Tue	sentinel3b	2039	2044	49	119 3 SE-N	
Oct 26 Tue	hy2d	2052	2059	87	322 142 NW-SE	
Oct 26 Tue	ajisai	2108	2117	38	182 86 S -E	
Oct 26 Tue	sentinel3a	2117	2124	83	167 343 S -N	
Oct 26 Tue	starlette	2133	2140	44	197 90 S -E	
Oct 26 Tue	lageos2	2136	2225	88	282 110 W -E	
Oct 26 Tue	lares	2156	2204	33	290 15 W -N	
Oct 26 Tue	technosat	2203	2204	25	300 277 NW-W	
Oct 26 Tue	sentinel3b	2220	2223	29	249 304 W -NW	
Oct 26 Tue	ajisai	2307	2319	74	241 82 SW-E	
Oct 26 Tue	elsadchs	2321	2325	65	29 184 NE-S	
Oct 26 Tue	starlette	2321	2330	77	250 85 W -E	
Oct 26 Tue	icesat2	2323	2326	33	312 228 NW-SW	
Oct 26 Tue	snet1	2333	2337	54	43 174 NE-S	
Oct 27 Wed	ajisai	0109	0121	81	272 100 W -E	
Oct 27 Wed	starlette	0110	0119	77	273 107 W -E	
Oct 27 Wed	cryosat2	0115	0121	58	348 204 N -SW	
Oct 27 Wed	larets	0122	0128	75	172 343 S -N	
Oct 27 Wed	lageos2	0142	0220	46	295 187 NW-S	
Oct 27 Wed	sentinel6a	0156	0204	39	158 62 S -NE	
Oct 27 Wed	jason3	0156	0204	39	153 58 SE-NE	
Oct 27 Wed	lares	0159	0206	33	360 75 N -E	
Oct 27 Wed	gracefol	0253	0256	38	236 331 SW-NW	
Oct 27 Wed	starlette	0300	0307	44	265 153 W -SE	
Oct 27 Wed	ajisai	0311	0322	57	276 142 W -SE	
Oct 27 Wed	jason3	0350	0400	68	238 33 SW-NE	
Oct 27 Wed	sentinel6a	0351	0401	68	240 34 SW-NE	
Oct 27 Wed	lares	0356	0407	83	331 145 NW-SE	
Oct 27 Wed	saral	0410	0414	32	98 19 E -N	
Oct 27 Wed	kompsat5	0454	0458	58	140 0 SE-N	

## OBSERVING SCHEDULE (Times are in U.T.)

Date	Satellite	Start	End	Elev	Direction	Observer
Oct 27 Wed	saral	0549	0554	43	213 323 SW-NW	AS
Oct 27 Wed	jason3	0549	0556	32	304 24 NW-NE	
Oct 27 Wed	envisat	0549	0555	56	356 217 N -SW	

Oct 27 Wed	swarmc	0550	0554	63	8	168	N	-S
Oct 27 Wed	sentinel6a	0550	0557	32	308	27	NW-NE	
Oct 27 Wed	swarma	0550	0554	64	8	167	N	-S
Oct 27 Wed	lares	0556	0601	28	279	228	W	-SW
Oct 27 Wed	beaconc	0602	0606	28	181	126	S	-SE
Oct 27 Wed	hy2b	0613	0620	54	36	170	NE-S	
Oct 27 Wed	paz	0616	0620	51	38	175	NE-S	
Oct 27 Wed	stella	0626	0631	50	46	167	NE-S	
Oct 27 Wed	lageos1	0631	0713	59	36	181	NE-S	
Oct 27 Wed	terrasarx	0644	0648	64	2	204	N	-SW
Oct 27 Wed	tandemx	0644	0648	68	4	205	N	-SW
Oct 27 Wed	geoik2	0647	0654	66	27	181	NE-S	
Oct 27 Wed	swarmb	0658	0702	41	222	341	SW-N	
Oct 27 Wed	technosat	0722	0726	48	122	3	SE-N	
Oct 27 Wed	hy2c	0725	0733	79	226	37	SW-NE	
Oct 27 Wed	beaconc	0754	0759	35	216	135	SW-SE	
Oct 27 Wed	hy2b	0757	0802	34	335	254	NW-W	
Oct 27 Wed	jason3	0944	0954	52	334	107	NW-E	
Oct 27 Wed	sentinel6a	0945	0955	53	336	108	NW-E	
Oct 27 Wed	icesat2	1002	1006	45	139	11	SE-N	
Oct 27 Wed	lageos1	1004	1045	65	36	259	NE-W	
Oct 27 Wed	elsadchs	1009	1014	75	157	351	SE-N	
Oct 27 Wed	snet1	1025	1030	66	151	354	SE-N	
Oct 27 Wed	sentinel3b	1027	1034	74	23	188	NE-S	
Oct 27 Wed	sentinel3a	1106	1112	57	0	222	N	-SW
Oct 27 Wed	jason3	1140	1150	55	308	175	NW-S	
Oct 27 Wed	sentinel6a	1141	1151	55	306	173	NW-S	
Oct 27 Wed	hy2d	1209	1216	42	169	57	S	-NE
Oct 27 Wed	cryosat2	1228	1234	72	169	357	S	-N
Oct 27 Wed	lageos1	1331	1409	54	73	313	E	-NW
Oct 27 Wed	hy2d	1356	1403	53	255	26	W	-NE
Oct 27 Wed	gracefol	1415	1419	66	350	189	N	-S
Oct 27 Wed	hy2c	1439	1447	79	324	138	NW-SE	
Oct 27 Wed	larets	1451	1456	68	2	210	N	-SW
Oct 27 Wed	envisat	1530	1535	49	121	3	SE-N	
Oct 27 Wed	lageos2	1541	1625	55	186	62	S	-NE
Oct 27 Wed	hy2b	1619	1625	39	105	4	E	-N

OBSERVING SCHEDULE (Times are in U.T.)

Date	Satellite	Start	End	Elev	Direction	Observer
Oct 27 Wed	geoik2	1650	1656	45	116 3	SE-N VS
Oct 27 Wed	lageos1	1657	1741	85	144 328	SE-NW
Oct 27 Wed	paz	1700	1704	51	124 359	SE-N
Oct 27 Wed	terrasarx	1727	1732	78	173 343	S -N
Oct 27 Wed	tandemx	1728	1732	69	177 343	S -N
Oct 27 Wed	stella	1750	1756	60	187 334	S -NW
Oct 27 Wed	saral	1755	1801	44	41 165	NE-S
Oct 27 Wed	swarmc	1756	1759	39	128 26	SE-NE
Oct 27 Wed	swarma	1756	1759	39	130 27	SE-NE
Oct 27 Wed	komsat5	1801	1805	45	44 166	NE-S



Oct 27	Wed	hy2b	1802	1808	44	214	324	SW-NW
Oct 27	Wed	swarmb	1821	1825	58	342	200	N -S
Oct 27	Wed	geoik2	1833	1838	37	223	313	SW-NW
Oct 27	Wed	lares	1852	1902	58	178	43	S -NE
Oct 27	Wed	hy2d	1923	1929	40	346	88	N -E
Oct 27	Wed	saral	1935	1939	31	333	256	NW-W
Oct 27	Wed	lageos2	1940	2030	86	259	86	W -E
Oct 27	Wed	sentinel3b	2014	2018	32	87	14	E -N
Oct 27	Wed	ajisai	2016	2021	28	153	104	SE-E
Oct 27	Wed	technosat	2035	2040	49	39	171	NE-S
Oct 27	Wed	lares	2050	2100	48	258	20	W -N
Oct 27	Wed	sentinel3a	2051	2058	61	142	353	SE-N
Oct 27	Wed	lageos1	2052	2106	26	258	297	W -NW
Oct 27	Wed	hy2d	2110	2118	61	309	163	NW-S
Oct 27	Wed	starlette	2151	2200	57	222	83	SW-E
Oct 27	Wed	sentinel3b	2153	2158	45	214	325	SW-NW
Oct 27	Wed	ajisai	2213	2225	64	227	80	SW-E
Oct 27	Wed	icesat2	2257	2301	61	341	200	N -S
Oct 27	Wed	elsadchs	2315	2320	61	30	180	NE-S
Oct 27	Wed	snet1	2336	2341	61	31	179	NE-S
Oct 27	Wed	starlette	2340	2349	81	261	91	W -E
Oct 27	Wed	lageos2	2346	0032	70	296	150	NW-SE
Oct 28	Thu	ajisai	0015	0027	83	265	92	W -E
Oct 28	Thu	larets	0023	0026	32	84	19	E -N
Oct 28	Thu	cryosat2	0025	0030	54	31	161	NE-S
Oct 28	Thu	lares	0056	0058	25	14	35	N -NE
Oct 28	Thu	starlette	0130	0138	66	272	121	W -SE
Oct 28	Thu	larets	0159	0204	37	214	322	SW-NW
Oct 28	Thu	jason3	0217	0227	56	184	49	S -NE
Oct 28	Thu	ajisai	0217	0228	68	277	127	W -SE
Oct 28	Thu	sentinel6a	0218	0228	57	182	47	S -NE
Oct 28	Thu	gracefol	0231	0235	60	214	351	SW-N
Oct 28	Thu	lares	0252	0302	52	344	113	N -SE
Oct 28	Thu	starlette	0320	0325	31	250	177	W -S

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Date	Satellite	Start	End	Elev	Direction	Observer	
Oct 28	Thu	jason3	0413	0423	51	259 30 W -NE	CP
Oct 28	Thu	sentinel6a	0414	0424	52	261 31 W -NE	
Oct 28	Thu	ajisai	0420	0427	32	255 185 W -S	
Oct 28	Thu	lares	0450	0500	52	309 184 NW-S	
Oct 28	Thu	komsat5	0451	0455	51	130 360 SE-N	
Oct 28	Thu	lageos1	0511	0542	37	48 141 NE-SE	
Oct 28	Thu	envisat	0512	0518	67	24 186 NE-S	
Oct 28	Thu	saral	0517	0523	76	173 339 S -N	
Oct 28	Thu	beaconc	0519	0521	26	161 135 S -SE	
Oct 28	Thu	hy2c	0557	0603	38	161 62 S -NE	
Oct 28	Thu	paz	0559	0602	35	55 147 NE-SE	
Oct 28	Thu	stella	0600	0604	31	69 143 E -SE	
Oct 28	Thu	tandemx	0627	0631	68	23 185 NE-S	
Oct 28	Thu	terrasarx	0627	0631	64	26 185 NE-S	
Oct 28	Thu	hy2b	0635	0643	73	24 189 NE-S	
Oct 28	Thu	swarmb	0638	0642	58	203 351 SW-N	
Oct 28	Thu	geoik2	0702	0710	78	18 195 N -S	

Oct 28 Thu	beaconc	0709	0715	36	221 130	SW-SE
Oct 28 Thu	technosat	0731	0735	57	137 358	SE-N
Oct 28 Thu	stella	0739	0744	45	345 234	N -SW
Oct 28 Thu	hy2c	0743	0751	55	248 30	W -NE
Oct 28 Thu	jason3	0811	0818	32	343 63	N -NE
Oct 28 Thu	sentinel6a	0812	0819	32	346 66	N -NE
Oct 28 Thu	lageos1	0842	0925	82	33 231	NE-SW
Oct 28 Thu	sentinel3b	1002	1007	46	47 161	NE-S
Oct 28 Thu	elsadchs	1004	1008	65	147 356	SE-N
Oct 28 Thu	jason3	1007	1017	68	329 126	NW-SE
Oct 28 Thu	sentinel6a	1007	1018	70	327 126	NW-SE
Oct 28 Thu	snet1	1029	1034	73	153 351	SE-N
Oct 28 Thu	sentinel3a	1040	1047	84	15 198	N -S
Oct 28 Thu	cryosat2	1139	1143	33	106 24	E -NE
Oct 28 Thu	sentinel3b	1142	1146	31	331 255	NW-W
Oct 28 Thu	jason3	1204	1211	37	288 202	W -S
Oct 28 Thu	sentinel6a	1204	1212	37	294 199	NW-S
Oct 28 Thu	lageos1	1212	1249	52	54 298	NE-NW
Oct 28 Thu	hy2d	1227	1234	64	195 48	S -NE
Oct 28 Thu	hy2c	1311	1317	38	351 90	N -E
Oct 28 Thu	cryosat2	1318	1322	36	244 329	SW-NW
Oct 28 Thu	larets	1351	1355	35	63 151	NE-SE
Oct 28 Thu	gracefol	1353	1357	63	17 170	N -S
Oct 28 Thu	lageos2	1400	1426	32	138 73	SE-E
Oct 28 Thu	hy2d	1415	1421	39	277 18	W -N
Oct 28 Thu	hy2c	1458	1505	66	309 161	NW-S
Oct 28 Thu	larets	1528	1532	33	333 246	NW-SW
Oct 28 Thu	lageos1	1536	1619	73	115 326	SE-NW
Oct 28 Thu	envisat	1632	1637	53	201 329	S -NW

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Date	Satellite	Start	End	Elev	Direction	Observer
Oct 28 Thu	hy2b	1640	1647	54	131 358	SE-N RS
Oct 28 Thu	paz	1643	1646	34	104 17	E -N
Oct 28 Thu	geoik2	1705	1712	57	131 354	SE-N
Oct 28 Thu	terrasarx	1710	1715	67	150 353	SE-N
Oct 28 Thu	tandemx	1711	1715	62	145 354	SE-N
Oct 28 Thu	stella	1723	1730	81	157 346	SE-N
Oct 28 Thu	lageos2	1744	1834	82	230 69	SW-E
Oct 28 Thu	lares	1750	1757	32	135 60	SE-NE
Oct 28 Thu	kompsat5	1758	1802	43	55 166	NE-S
Oct 28 Thu	swarmb	1801	1805	83	357 181	N -S
Oct 28 Thu	hy2b	1825	1829	31	239 305	SW-NW
Oct 28 Thu	swarmc	1847	1850	36	233 334	SW-NW
Oct 28 Thu	swarma	1847	1850	36	231 333	SW-NW
Oct 28 Thu	geoik2	1849	1853	28	241 305	SW-NW
Oct 28 Thu	saral	1904	1909	53	348 225	N -SW
Oct 28 Thu	lageos1	1914	1951	47	201 321	S -NW
Oct 28 Thu	hy2d	1941	1949	54	335 115	NW-SE
Oct 28 Thu	lares	1945	1956	76	224 29	SW-NE
Oct 28 Thu	starlette	2023	2029	34	178 96	S -E
Oct 28 Thu	sentinel3a	2026	2031	39	113 11	SE-N
Oct 28 Thu	technosat	2044	2049	62	29 179	NE-S
Oct 28 Thu	ajisai	2120	2131	52	207 80	SW-E
Oct 28 Thu	sentinel3b	2126	2133	72	177 340	S -N
Oct 28 Thu	hy2d	2129	2135	39	290 190	W -S

Oct 28 Thu	lares	2147	2153	31	305	9	NW-N
Oct 28 Thu	lageos2	2150	2239	87	286	118	W -SE
Oct 28 Thu	sentinel3a	2206	2211	36	221	317	SW-NW
Oct 28 Thu	starlette	2210	2219	69	239	84	SW-E
Oct 28 Thu	icesat2	2231	2235	64	20	176	N -S
Oct 28 Thu	elsadchs	2310	2314	51	41	172	NE-S
Oct 28 Thu	ajisai	2321	2333	83	255	86	W -E
Oct 28 Thu	snet1	2340	2344	60	32	180	NE-S
Oct 28 Thu	starlette	2359	0008	77	269	99	W -E
Oct 29 Fri	larets	0058	0103	62	143	357	SE-N
Oct 29 Fri	cryosat2	0113	0119	54	346	208	N -SW
Oct 29 Fri	ajisai	0122	0134	78	277	114	W -SE
Oct 29 Fri	lares	0148	0156	35	353	81	N -E
Oct 29 Fri	starlette	0149	0157	55	271	136	W -SE
Oct 29 Fri	lageos2	0156	0230	41	293	199	NW-S
Oct 29 Fri	gracefol	0208	0213	83	175	2	S -N
Oct 29 Fri	jason3	0239	0250	80	208	41	SW-NE
Oct 29 Fri	sentinel6a	0240	0250	77	208	42	SW-NE
Oct 29 Fri	ajisai	0325	0334	42	267	165	W -S
Oct 29 Fri	lares	0345	0357	82	327	151	NW-SE
Oct 29 Fri	envisat	0436	0440	36	60	147	NE-SE

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Date	Satellite	Start	End	Elev	Direction	Observer
Oct 29 Fri	jason3	0437	0445	41	282 23 W	TS
Oct 29 Fri	sentinel6a	0438	0446	41	285 26 W	
Oct 29 Fri	saral	0446	0452	61	141 356 SE	
Oct 29 Fri	kompsat5	0448	0452	50	118 360 SE	
Oct 29 Fri	lares	0547	0548	25	264 254 W	
Oct 29 Fri	swarmc	0600	0603	63	331 192 NW	
Oct 29 Fri	swarma	0600	0603	64	334 192 NW	
Oct 29 Fri	tandemx	0610	0614	45	41 166 NE	
Oct 29 Fri	terrasarx	0610	0614	44	47 168 NE	
Oct 29 Fri	envisat	0615	0619	36	332 246 NW	
Oct 29 Fri	hy2c	0615	0622	60	188 48 S	
Oct 29 Fri	swarmb	0618	0622	69	179 3 S	
Oct 29 Fri	beaconc	0625	0631	35	215 126 SW	
Oct 29 Fri	hy2b	0657	0705	74	12 205 N	
Oct 29 Fri	stella	0712	0718	69	7 210 N	
Oct 29 Fri	paz	0716	0719	32	326 243 NW	
Oct 29 Fri	geoik2	0718	0725	76	9 207 N	
Oct 29 Fri	lageos1	0719	0803	75	33 202 NE	
Oct 29 Fri	technosat	0740	0744	67	153 352 SE	
Oct 29 Fri	hy2c	0803	0809	40	280 22 W	
Oct 29 Fri	beaconc	0818	0823	31	229 154 SW	
Oct 29 Fri	jason3	0834	0842	38	344 81 N	
Oct 29 Fri	sentinel6a	0834	0843	39	339 84 N	
Oct 29 Fri	elsadchs	0959	1003	57	133 357 SE	
Oct 29 Fri	sentinel3a	1015	1021	58	36 177 NE	
Oct 29 Fri	jason3	1029	1040	84	320 146 NW	
Oct 29 Fri	sentinel6a	1030	1041	86	320 146 NW	
Oct 29 Fri	snet1	1033	1037	70	157 349 SE	
Oct 29 Fri	icesat2	1045	1048	44	230 334 SW	
Oct 29 Fri	lageos1	1052	1131	57	41 275 NE	
Oct 29 Fri	sentinel3b	1116	1121	48	345 230 N	

Oct 29 Fri	cryosat2	1226	1232	76	173 355	S -N
Oct 29 Fri	hy2d	1245	1253	77	221 38	SW-NE
Oct 29 Fri	hy2c	1329	1336	52	340 110	N -E
Oct 29 Fri	gracefol	1331	1334	41	39 142	NE-SE
Oct 29 Fri	lageos1	1417	1456	59	88 320	E -NW
Oct 29 Fri	larets	1427	1432	74	24 186	NE-S
Oct 29 Fri	hy2d	1435	1439	30	308 10	NW-N
Oct 29 Fri	hy2c	1516	1523	43	298 184	NW-S

OBSERVING SCHEDULE (Times are in U.T.)

Date	Satellite	Start	End	Elev	Direction	Observer
Oct 29 Fri	lageos2	1553	1639	61	195 62	S -NE AS
Oct 29 Fri	envisat	1555	1601	77	153 349	SE-N
Oct 29 Fri	tandemx	1654	1658	42	122 4	SE-N
Oct 29 Fri	terrasarx	1654	1657	43	113 11	SE-N
Oct 29 Fri	stella	1657	1703	50	128 358	SE-N
Oct 29 Fri	hy2b	1702	1709	74	150 349	SE-N
Oct 29 Fri	geoik2	1720	1727	72	147 349	SE-N
Oct 29 Fri	swarmb	1741	1745	62	13 162	N -S
Oct 29 Fri	lageos1	1746	1830	70	165 328	S -NW
Oct 29 Fri	kompsat5	1754	1758	40	45 157	NE-SE
Oct 29 Fri	paz	1800	1803	33	234 317	SW-NW
Oct 29 Fri	swarmc	1805	1808	72	164 9	S -N
Oct 29 Fri	swarma	1805	1808	71	165 10	S -N
Oct 29 Fri	hy2d	1814	1817	28	11 57	N -NE
Oct 29 Fri	saral	1832	1839	87	16 197	N -S
Oct 29 Fri	stella	1839	1841	27	259 295	W -NW
Oct 29 Fri	lares	1841	1852	66	187 39	S -NE
Oct 29 Fri	lageos2	1954	2044	85	266 91	W -E
Oct 29 Fri	hy2d	2000	2007	78	327 134	NW-SE
Oct 29 Fri	sentinel3a	2002	2004	26	71 35	E -NE
Oct 29 Fri	ajisai	2027	2036	41	186 87	S -E
Oct 29 Fri	lares	2040	2050	44	265 21	W -N
Oct 29 Fri	starlette	2041	2049	46	204 87	SW-E
Oct 29 Fri	technosat	2053	2058	74	20 187	N -S
Oct 29 Fri	sentinel3b	2100	2107	72	150 350	SE-N
Oct 29 Fri	sentinel3a	2140	2146	57	197 334	S -NW
Oct 29 Fri	hy2d	2149	2151	25	259 230	W -SW
Oct 29 Fri	icesat2	2205	2208	35	42 139	NE-SE
Oct 29 Fri	ajisai	2226	2238	76	244 82	SW-E
Oct 29 Fri	starlette	2229	2238	75	253 87	W -E
Oct 29 Fri	elsadchs	2304	2308	47	38 162	NE-S
Oct 29 Fri	snet1	2343	2348	72	23 186	NE-S
Oct 30 Sat	lageos2	0000	0045	64	296 158	NW-S
Oct 30 Sat	starlette	0019	0028	76	273 109	W -E
Oct 30 Sat	cryosat2	0023	0028	58	26 164	NE-S
Oct 30 Sat	ajisai	0028	0040	83	273 102	W -E
Oct 30 Sat	lares	0045	0048	26	8 39	N -NE
Oct 30 Sat	jason3	0108	0115	34	148 67	SE-NE

Oct 30 Sat	sentinel6a	0109	0116	34	145	64	SE-NE
Oct 30 Sat	larets	0135	0140	62	190	334	S -NW
Oct 30 Sat	gracefol	0147	0150	52	133	18	SE-N
Oct 30 Sat	starlette	0209	0215	42	259	160	W -S
Oct 30 Sat	ajisai	0230	0241	54	276	145	W -SE
Oct 30 Sat	lares	0241	0252	58	339	120	N -SE
Oct 30 Sat	sentinel6a	0302	0313	74	230	35	SW-NE
Oct 30 Sat	jason3	0302	0312	74	231	35	SW-NE
Oct 30 Sat	saral	0416	0421	36	105	9	E -N

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Date	Satellite	Start	End	Elev	Direction	Observer
Oct 30 Sat	lares	0440	0449	46	303 192	NW-S VS
Oct 30 Sat	kompsat5	0444	0448	45	127 7	SE-N
Oct 30 Sat	jason3	0501	0508	34	303 24	NW-NE
Oct 30 Sat	sentinel6a	0501	0509	34	297 27	NW-NE
Oct 30 Sat	swarma	0518	0521	39	50 149	NE-SE
Oct 30 Sat	swarmc	0518	0521	39	52 149	NE-SE
Oct 30 Sat	envisat	0537	0543	70	6 209	N -SW
Oct 30 Sat	hy2b	0538	0542	30	75 137	E -SE
Oct 30 Sat	beaconc	0541	0547	34	207 122	SW-SE
Oct 30 Sat	geoik2	0552	0555	27	75 123	E -SE
Oct 30 Sat	terrasarx	0554	0556	30	88 141	E -SE
Oct 30 Sat	tandemx	0554	0556	30	77 135	E -SE
Oct 30 Sat	saral	0555	0600	38	214 317	SW-NW
Oct 30 Sat	lageos1	0557	0637	51	39 170	NE-S
Oct 30 Sat	swarmb	0558	0602	54	155 14	SE-N
Oct 30 Sat	hy2c	0633	0641	87	217 39	SW-NE
Oct 30 Sat	stella	0646	0652	72	28 187	NE-S
Oct 30 Sat	paz	0659	0702	48	337 226	NW-SW
Oct 30 Sat	hy2b	0719	0726	55	1 225	N -SW
Oct 30 Sat	geoik2	0733	0740	61	1 219	N -SW
Oct 30 Sat	beaconc	0734	0739	34	226 147	SW-SE
Oct 30 Sat	technosat	0749	0754	75	168 346	S -N
Oct 30 Sat	hy2c	0822	0827	31	299 15	NW-N
Oct 30 Sat	jason3	0856	0906	48	336 102	NW-E
Oct 30 Sat	sentinel6a	0857	0906	48	338 99	N -E
Oct 30 Sat	lageos1	0930	1012	69	34 250	NE-W
Oct 30 Sat	sentinel3a	0949	0954	36	50 148	NE-SE
Oct 30 Sat	elsadchs	0953	0957	51	134 5	SE-N
Oct 30 Sat	icesat2	1018	1023	85	177 354	S -N
Oct 30 Sat	snet1	1036	1041	87	164 347	S -N
Oct 30 Sat	sentinel3b	1049	1056	75	10 205	N -SW
Oct 30 Sat	jason3	1052	1102	62	311 168	NW-S
Oct 30 Sat	sentinel6a	1053	1103	62	309 167	NW-S
Oct 30 Sat	hy2d	1118	1123	36	152 68	SE-E
Oct 30 Sat	sentinel3a	1129	1134	39	341 240	N -SW
Oct 30 Sat	cryosat2	1137	1141	35	109 24	E -NE
Oct 30 Sat	lageos1	1259	1336	52	65 308	NE-NW
Oct 30 Sat	hy2d	1304	1311	59	248 29	W -NE
Oct 30 Sat	cryosat2	1316	1320	33	245 326	SW-NW
Oct 30 Sat	hy2c	1347	1355	71	328 131	NW-SE
Oct 30 Sat	lageos2	1409	1442	38	152 67	SE-NE
Oct 30 Sat	larets	1504	1509	52	347 220	N -SW
Oct 30 Sat	envisat	1518	1523	40	118 12	SE-N

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Date	Satellite	Start	End	Elev	Direction	Observer
Oct 30 Sat	lageos1	1623	1707	86	135 328 SE-NW	RS
Oct 30 Sat	stella	1632	1636	33	87 12 E -N	
Oct 30 Sat	envisat	1658	1702	32	232 313 SW-NW	
Oct 30 Sat	swarmb	1722	1725	42	49 145 NE-SE	
Oct 30 Sat	hy2b	1724	1732	76	171 340 S -N	
Oct 30 Sat	geoik2	1735	1742	89	163 344 S -N	
Oct 30 Sat	lares	1739	1747	37	144 55 SE-NE	
Oct 30 Sat	paz	1742	1746	50	196 330 S -NW	
Oct 30 Sat	kompsat5	1751	1755	36	54 158 NE-S	
Oct 30 Sat	lageos2	1758	1848	86	237 72 SW-E	
Oct 30 Sat	saral	1801	1807	51	35 168 NE-S	
Oct 30 Sat	stella	1811	1816	43	217 324 SW-NW	
Oct 30 Sat	tandemx	1812	1814	26	254 304 W -NW	
Oct 30 Sat	terrasarx	1812	1813	26	264 291 W -W	
Oct 30 Sat	hy2d	1831	1837	36	348 84 N -E	
Oct 30 Sat	starlette	1915	1917	25	138 113 SE-SE	
Oct 30 Sat	lares	1935	1946	68	232 28 SW-NE	
Oct 30 Sat	ajisai	1935	1941	30	156 97 SE-E	
Oct 30 Sat	saral	1942	1945	28	318 263 NW-W	
Oct 30 Sat	lageos1	2010	2036	33	233 310 SW-NW	
Oct 30 Sat	hy2d	2018	2026	69	313 156 NW-SE	
Oct 30 Sat	sentinel3b	2035	2040	46	120 7 SE-N	
Oct 30 Sat	starlette	2100	2108	59	223 85 SW-E	
Oct 30 Sat	technosat	2102	2107	75	12 197 N -S	
Oct 30 Sat	sentinel3a	2113	2120	85	163 345 S -N	
Oct 30 Sat	ajisai	2133	2144	66	227 81 SW-E	
Oct 30 Sat	lares	2137	2143	29	310 12 NW-N	
Oct 30 Sat	lageos2	2204	2253	84	289 125 W -SE	
Oct 30 Sat	sentinel3b	2216	2219	31	243 302 SW-NW	
Oct 30 Sat	starlette	2249	2258	82	263 92 W -E	
Oct 30 Sat	elsadchs	2259	2303	39	50 162 NE-S	
Oct 30 Sat	icesat2	2314	2316	30	301 240 NW-SW	
Oct 30 Sat	ajisai	2334	2346	82	267 93 W -E	
Oct 30 Sat	snet1	2347	2352	70	22 190 N -S	
Oct 31 Sun	larets	0035	0039	39	105 10 E -N	
Oct 31 Sun	starlette	0038	0047	67	274 122 W -SE	
Oct 31 Sun	cryosat2	0111	0117	49	344 211 N -SW	
Oct 31 Sun	gracefol	0125	0128	33	113 30 SE-NE	
Oct 31 Sun	jason3	0129	0139	50	177 51 S -NE	
Oct 31 Sun	sentinel6a	0130	0139	50	175 54 S -NE	
Oct 31 Sun	ajisai	0136	0148	66	277 128 W -SE	
Oct 31 Sun	lares	0137	0146	38	348 88 N -E	
Oct 31 Sun	lageos2	0211	0240	35	289 212 W -SW	
Oct 31 Sun	larets	0213	0216	29	246 308 SW-NW	
Oct 31 Sun	starlette	0229	0233	30	244 186 SW-S	
Oct 31 Sun	jason3	0325	0335	56	253 31 W -NE	
Oct 31 Sun	sentinel6a	0326	0336	56	255 32 W -NE	
Oct 31 Sun	lares	0335	0346	80	324 158 NW-S	
Oct 31 Sun	ajisai	0339	0345	30	256 196 W -S	
Oct 31 Sun	lageos1	0439	0502	30	55 122 NE-SE	
Oct 31 Sun	kompsat5	0441	0445	42	117 5 SE-N	

Oct 31 Sun	beaconc	0457	0502	32	199 128	S -SE
Oct 31 Sun	envisat	0501	0506	59	37 174	NE-S
Oct 31 Sun	hy2c	0506	0511	33	143 66	SE-NE

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Date	Satellite	Start	End	Elev	Direction	Observer
Oct 31 Sun	saral	0523	0530	69	179 338	S -N CP
Oct 31 Sun	jason3	0525	0531	30	321 27	NW-NE
Oct 31 Sun	sentinel6a	0526	0531	30	325 22	NW-N
Oct 31 Sun	swarmb	0538	0542	38	137 24	SE-NE
Oct 31 Sun	hy2b	0559	0605	42	50 158	NE-S
Oct 31 Sun	geoik2	0606	0611	34	53 140	NE-SE
Oct 31 Sun	swarmc	0609	0612	35	307 214	NW-SW
Oct 31 Sun	swarma	0609	0612	36	309 215	NW-SW
Oct 31 Sun	stella	0619	0625	44	42 163	NE-S
Oct 31 Sun	paz	0641	0646	76	7 201	N -S
Oct 31 Sun	beaconc	0650	0656	36	221 132	SW-SE
Oct 31 Sun	hy2c	0651	0659	61	241 32	SW-NE
Oct 31 Sun	terrasarx	0710	0713	38	332 238	NW-SW
Oct 31 Sun	tandemx	0710	0714	36	339 230	N -SW
Oct 31 Sun	jason3	0723	0729	31	344 53	N -NE
Oct 31 Sun	sentinel6a	0724	0730	31	347 56	N -NE
Oct 31 Sun	hy2b	0742	0748	41	344 240	N -SW
Oct 31 Sun	geoik2	0748	0755	48	356 230	N -SW
Oct 31 Sun	technosat	0758	0803	69	182 341	S -N
Oct 31 Sun	stella	0800	0804	33	323 249	NW-W
Oct 31 Sun	lageos1	0807	0852	89	32 222	NE-SW
Oct 31 Sun	jason3	0919	0929	63	332 120	NW-SE
Oct 31 Sun	sentinel6a	0919	0930	63	329 121	NW-SE
Oct 31 Sun	elsadchs	0948	0952	44	120 4	SE-N
Oct 31 Sun	icesat2	0953	0957	50	135 8	SE-N
Oct 31 Sun	sentinel3b	1024	1030	68	29 184	NE-S
Oct 31 Sun	snet1	1040	1044	69	170 344	S -N
Oct 31 Sun	sentinel3a	1103	1109	59	357 216	N -SW
Oct 31 Sun	jason3	1115	1124	43	299 190	NW-S
Oct 31 Sun	sentinel6a	1116	1125	43	297 188	NW-S
Oct 31 Sun	hy2d	1135	1142	56	186 52	S -NE
Oct 31 Sun	lageos1	1139	1216	53	48 291	NE-W
Oct 31 Sun	hy2c	1219	1225	35	353 86	N -E
Oct 31 Sun	cryosat2	1224	1230	77	178 353	S -N
Oct 31 Sun	hy2d	1323	1329	42	273 20	W -N
Oct 31 Sun	laretts	1403	1408	46	44 164	NE-S
Oct 31 Sun	hy2c	1406	1413	76	314 153	NW-SE
Oct 31 Sun	gracefo1	1421	1425	37	328 215	NW-SW
Oct 31 Sun	lageos1	1503	1544	67	106 325	E -NW

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Date	Satellite	Start	End	Elev	Direction	Observer
Oct 31 Sun	hy2b	1605	1610	32	89 11 E -N	TS
Oct 31 Sun	lageos2	1605	1653	67	204 63 SW-NE	
Oct 31 Sun	envisat	1620	1626	62	184 337 S -NW	
Oct 31 Sun	paz	1725	1729	68	172 343 S -N	
Oct 31 Sun	saral	1731	1735	29	64 137 NE-SE	
Oct 31 Sun	stella	1743	1750	71	176 338 S -N	
Oct 31 Sun	hy2b	1746	1754	55	190 333 S -NW	
Oct 31 Sun	kompsat5	1748	1751	35	64 147 NE-SE	
Oct 31 Sun	geoik2	1750	1757	71	177 337 S -NW	
Oct 31 Sun	tandemx	1754	1758	38	216 327 SW-NW	
Oct 31 Sun	terrasarx	1754	1757	40	226 321 SW-NW	
Oct 31 Sun	swarma	1814	1817	60	208 349 SW-N	
Oct 31 Sun	swarmc	1814	1817	61	209 350 SW-N	
Oct 31 Sun	lares	1830	1842	72	196 36 S -NE	
Oct 31 Sun	lageos1	1837	1918	54	188 325 S -NW	
Oct 31 Sun	hy2d	1849	1856	48	338 104 N -E	
Oct 31 Sun	saral	1910	1915	47	347 231 N -SW	
Oct 31 Sun	kompsat5	1924	1925	26	288 265 W -W	
Oct 31 Sun	starlette	1931	1938	36	186 92 S -E	
Oct 31 Sun	lageos2	2008	2058	86	271 97 W -E	
Oct 31 Sun	sentinel3b	2010	2014	30	91 18 E -N	
Oct 31 Sun	lares	2030	2039	41	273 17 W -N	
Oct 31 Sun	hy2d	2037	2043	45	295 183 NW-S	
Oct 31 Sun	ajisai	2039	2050	55	211 81 SW-E	
Oct 31 Sun	sentinel3a	2048	2054	56	133 356 SE-N	
Oct 31 Sun	technosat	2112	2116	63	359 207 N -SW	
Oct 31 Sun	starlette	2119	2128	71	240 83 SW-E	
Oct 31 Sun	sentinel3b	2149	2154	49	206 324 SW-NW	
Oct 31 Sun	ajisai	2240	2252	82	257 87 W -E	
Oct 31 Sun	icesat2	2247	2251	57	348 205 N -SW	
Oct 31 Sun	elsadchs	2254	2257	36	65 151 NE-SE	
Oct 31 Sun	starlette	2308	2317	82	270 100 W -E	
Oct 31 Sun	snet1	2350	2355	80	16 192 N -S	
Nov 1 Mon	lageos2	0014	0057	59	297 167 NW-S	
Nov 1 Mon	cryosat2	0021	0026	63	22 167 N -S	
Nov 1 Mon	lares	0034	0039	28	2 53 N -NE	
Nov 1 Mon	ajisai	0042	0054	76	277 115 W -SE	
Nov 1 Mon	starlette	0058	0106	54	267 138 W -SE	
Nov 1 Mon	larets	0111	0116	81	157 348 SE-N	
Nov 1 Mon	jason3	0151	0202	72	201 43 S -NE	
Nov 1 Mon	sentinel6a	0152	0202	71	200 44 S -NE	
Nov 1 Mon	lares	0231	0242	63	339 127 N -SE	
Nov 1 Mon	gracefo1	0238	0240	31	264 322 W -NW	
Nov 1 Mon	ajisai	0244	0253	40	268 169 W -S	
Nov 1 Mon	jason3	0348	0357	43	271 25 W -NE	
Nov 1 Mon	sentinel6a	0349	0358	44	273 27 W -NE	
Nov 1 Mon	beaconc	0413	0418	30	191 125 S -SE	
Nov 1 Mon	envisat	0425	0428	30	74 133 E -SE	
Nov 1 Mon	lares	0429	0438	41	304 201 NW-S	
Nov 1 Mon	kompsat5	0438	0441	40	105 14 E -N	
Nov 1 Mon	saral	0452	0459	69	148 351 SE-N	
Nov 1 Mon	swarmb	0519	0521	27	102 48 E -NE	

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Date	Satellite	Start	End	Elev	Direction	Observer
Nov 1 Mon	hy2c	0523	0530	52	179 52 S -NE	AS
Nov 1 Mon	swarmc	0526	0530	69	5 171 N -S	



Nov	1	Mon	swarma	0526	0530	71	5	171	N	-S
Nov	1	Mon	jason3	0549	0553	28	337	22	NW	-N
Nov	1	Mon	sentinel6a	0550	0554	28	341	25	N	-NE
Nov	1	Mon	stella	0554	0557	28	76	131	E	-SE
Nov	1	Mon	envisat	0603	0608	44	345	233	N	-SW
Nov	1	Mon	beaconc	0605	0612	37	226	126	SW	-SE
Nov	1	Mon	hy2b	0620	0628	59	30	178	NE	-S
Nov	1	Mon	geoik2	0621	0627	44	44	157	NE	-SE
Nov	1	Mon	paz	0624	0628	69	24	181	NE	-S
Nov	1	Mon	lageos1	0645	0728	67	35	192	NE	-S
Nov	1	Mon	terrasarx	0653	0657	56	348	212	N	-SW
Nov	1	Mon	tandemx	0653	0657	54	354	214	N	-SW
Nov	1	Mon	hy2c	0710	0717	45	264	24	W	-NE
Nov	1	Mon	stella	0732	0738	50	357	227	N	-SW
Nov	1	Mon	jason3	0746	0753	36	345	71	N	-E
Nov	1	Mon	sentinel6a	0746	0754	36	340	74	N	-E
Nov	1	Mon	geoik2	0804	0810	39	341	241	N	-SW
Nov	1	Mon	hy2b	0805	0809	30	324	261	NW	-W
Nov	1	Mon	technosat	0807	0812	56	192	335	S	-NW
Nov	1	Mon	jason3	0941	0952	83	323	139	NW	-SE
Nov	1	Mon	sentinel6a	0942	0953	84	323	140	NW	-SE
Nov	1	Mon	elsadchs	0943	0946	40	104	13	E	-N
Nov	1	Mon	sentinel3b	0958	1003	43	46	156	NE	-SE
Nov	1	Mon	lageos1	1018	1058	60	38	267	NE	-W
Nov	1	Mon	sentinel3a	1037	1043	74	18	195	N	-S
Nov	1	Mon	snet1	1043	1048	78	173	342	S	-N
Nov	1	Mon	cryosat2	1135	1139	37	113	23	SE	-NE
Nov	1	Mon	sentinel3b	1138	1143	34	336	246	NW	-SW
Nov	1	Mon	hy2d	1153	1201	76	213	40	SW	-NE
Nov	1	Mon	hy2c	1237	1244	47	342	104	N	-E
Nov	1	Mon	cryosat2	1314	1318	30	245	324	SW	-NW
Nov	1	Mon	hy2d	1342	1347	32	292	11	W	-N
Nov	1	Mon	lageos1	1344	1423	56	80	316	E	-NW
Nov	1	Mon	gracefol	1359	1403	56	344	197	N	-S
Nov	1	Mon	lageos2	1419	1457	43	164	64	S	-NE
Nov	1	Mon	hy2c	1424	1431	49	302	177	NW	-S
Nov	1	Mon	larets	1439	1445	79	13	199	N	-S
Nov	1	Mon	envisat	1543	1549	61	143	355	SE	-N
Nov	1	Mon	geoik2	1625	1629	31	81	16	E	-N
Nov	1	Mon	hy2b	1626	1632	43	114	5	SE	-N