

OBSERVING SCHEDULE (Times are in U.T.)

Date	Satellite	Start	End	Elev	Direction	Observer
Oct 1 Tue	lagesos2	0430	0521	89	246 77 SW-E	RS
Oct 1 Tue	saral	0440	0445	52	127 3 SE-N	
Oct 1 Tue	kompsat5	0453	0458	61	143 357 SE-N	
Oct 1 Tue	stella	0504	0509	72	11 203 N -SW	
Oct 1 Tue	hy2b	0548	0554	38	50 151 NE-SE	
Oct 1 Tue	hy2a	0605	0611	45	46 160 NE-S	
Oct 1 Tue	tandemx	0608	0611	45	53 159 NE-S	
Oct 1 Tue	terrasarx	0608	0611	44	52 159 NE-S	
Oct 1 Tue	starlette	0614	0621	41	198 88 S -E	
Oct 1 Tue	geoik2	0615	0621	43	44 155 NE-SE	
Oct 1 Tue	envisat	0621	0626	32	60 139 NE-SE	
Oct 1 Tue	paz	0716	0719	32	329 245 NW-SW	
Oct 1 Tue	hy2b	0731	0737	45	350 238 N -SW	
Oct 1 Tue	hy2a	0748	0754	38	344 244 N -SW	
Oct 1 Tue	geoik2	0758	0804	40	344 241 N -SW	
Oct 1 Tue	envisat	0801	0806	42	339 233 N -SW	
Oct 1 Tue	starlette	0801	0811	73	248 86 W -E	
Oct 1 Tue	beaconc	0833	0840	36	215 127 SW-SE	
Oct 1 Tue	lagesos2	0836	0925	79	292 134 W -SE	
Oct 1 Tue	technosat	0909	0913	50	130 2 SE-N	
Oct 1 Tue	starlette	0952	1000	79	272 105 W -E	
Oct 1 Tue	sentinel3a	0953	0958	39	55 156 NE-SE	
Oct 1 Tue	icesat2	1024	1027	39	56 151 NE-SE	
Oct 1 Tue	beaconc	1027	1032	33	232 146 SW-SE	
Oct 1 Tue	sentinel3b	1053	1059	67	5 209 N -SW	
Oct 1 Tue	lares	1054	1104	60	182 41 S -NE	
Oct 1 Tue	ajisai	1057	1108	58	218 82 SW-E	
Oct 1 Tue	swarmb	1104	1109	73	350 190 N -S	
Oct 1 Tue	snet1	1110	1114	48	202 327 S -NW	
Oct 1 Tue	sentinel3a	1133	1137	36	331 248 NW-W	
Oct 1 Tue	gracefol	1133	1136	30	259 319 W -NW	
Oct 1 Tue	starlette	1141	1149	47	270 148 W -SE	
Oct 1 Tue	jason2	1210	1222	83	211 40 SW-NE	
Oct 1 Tue	jason3	1235	1243	44	168 56 S -NE	
Oct 1 Tue	lares	1253	1302	47	261 21 W -N	
Oct 1 Tue	ajisai	1258	1309	84	261 89 W -E	
Oct 1 Tue	cryosat2	1347	1351	41	47 145 NE-SE	
Oct 1 Tue	jason2	1409	1417	39	287 27 W -NE	
Oct 1 Tue	jason3	1430	1441	62	244 33 SW-NE	
Oct 1 Tue	larets	1431	1436	81	19 192 N -S	
Oct 1 Tue	stella	1449	1455	44	120 0 SE-N	
Oct 1 Tue	swarma	1450	1452	49	218 342 SW-N	
Oct 1 Tue	swarmc	1450	1452	59	211 349 SW-N	
Oct 1 Tue	lagesos1	1457	1537	58	37 180 NE-S	
Oct 1 Tue	ajisai	1500	1511	72	278 120 W -SE	
Oct 1 Tue	hy2a	1611	1615	35	96 13 E -N	
Oct 1 Tue	geoik2	1619	1622	30	83 18 E -N	
Oct 1 Tue	stella	1630	1634	31	241 313 SW-NW	
Oct 1 Tue	jason3	1630	1635	31	314 22 NW-N	
Oct 1 Tue	terrasarx	1653	1656	42	107 9 E -N	
Oct 1 Tue	tandemx	1653	1656	42	105 9 E -N	
Oct 1 Tue	ajisai	1703	1711	37	262 175 W -S	
Oct 1 Tue	hy2b	1736	1743	62	188 334 S -NW	
Oct 1 Tue	envisat	1741	1746	65	146 353 SE-N	

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Date	Satellite	Start	End	Elev	Direction	Observer
Oct 1 Tue	hy2a	1752	1800	52	198 329 S -NW	MW

Oct	1	Tue	paz	1800	1803	33	230	315	SW-NW
Oct	1	Tue	geoik2	1800	1807	57	193	333	S -NW
Oct	1	Tue	kompsat5	1801	1805	48	42	170	NE-S
Oct	1	Tue	jason2	1804	1811	38	342	81	N -E
Oct	1	Tue	saral	1826	1831	75	24	189	NE-S
Oct	1	Tue	jason3	1829	1835	30	348	54	N -NE
Oct	1	Tue	lageos1	1830	1911	65	36	258	NE-W
Oct	1	Tue	lares	1854	1905	54	340	116	N -SE
Oct	1	Tue	jason2	1959	2010	85	320	147	NW-SE
Oct	1	Tue	jason3	2024	2035	58	331	115	NW-SE
Oct	1	Tue	sentinel3b	2038	2044	48	128	1	SE-N
Oct	1	Tue	lares	2052	2103	51	312	184	NW-S
Oct	1	Tue	sentinel3a	2117	2123	78	167	343	S -N
Oct	1	Tue	lageos1	2158	2235	53	72	313	E -NW
Oct	1	Tue	sentinel3b	2220	2222	28	254	307	W -NW
Oct	1	Tue	jason3	2221	2230	49	300	182	NW-S
Oct	1	Tue	technosat	2222	2227	51	47	171	NE-S
Oct	1	Tue	icesat2	2237	2241	63	183	351	S -N
Oct	1	Tue	gracefo1	2254	2259	61	347	200	N -S
Oct	1	Tue	swarmb	2322	2326	77	189	357	S -N
Oct	2	Wed	snet1	0021	0025	53	349	216	N -SW
Oct	2	Wed	cryosat2	0102	0103	26	70	50	E -NE
Oct	2	Wed	lageos1	0124	0207	86	145	328	SE-NW
Oct	2	Wed	larets	0139	0144	55	199	333	S -NW
Oct	2	Wed	swarmc	0203	0207	70	3	173	N -S
Oct	2	Wed	swarma	0203	0207	78	356	180	N -S
Oct	2	Wed	lageos2	0236	0325	73	214	65	SW-NE
Oct	2	Wed	cryosat2	0239	0244	44	226	339	SW-N
Oct	2	Wed	saral	0410	0414	31	89	15	E -N
Oct	2	Wed	stella	0437	0444	63	28	182	NE-S
Oct	2	Wed	kompsat5	0451	0455	56	133	358	SE-N
Oct	2	Wed	lageos1	0518	0532	26	257	297	W -NW
Oct	2	Wed	saral	0548	0554	44	203	327	SW-NW
Oct	2	Wed	hy2b	0610	0617	54	38	172	NE-S

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Date	Satellite	Start	End	Elev	Direction	Observer		
Oct	2	Wed	hy2a	0627	0635	64	28 183 NE-S	RS
Oct	2	Wed	geoik2	0630	0637	54	35 171 NE-S	
Oct	2	Wed	starlette	0633	0641	54	216 86 SW-E	
Oct	2	Wed	lageos2	0640	0731	87	277 104 W -E	
Oct	2	Wed	paz	0659	0703	47	340 219 N -SW	
Oct	2	Wed	envisat	0724	0730	79	9 201 N -S	
Oct	2	Wed	beaconc	0750	0756	34	207 124 SW-SE	
Oct	2	Wed	hy2b	0754	0759	33	331 251 NW-W	

Oct	2	Wed	geoik2	0814	0818	32	328	260	NW-W
Oct	2	Wed	starlette	0822	0831	80	259	89	W -E
Oct	2	Wed	technosat	0918	0923	67	148	354	SE-N
Oct	2	Wed	beaconc	0943	0949	35	228	139	SW-SE
Oct	2	Wed	lares	0952	1000	33	141	57	SE-NE
Oct	2	Wed	ajisai	1004	1014	46	197	83	S -E
Oct	2	Wed	starlette	1011	1020	71	274	117	W -SE
Oct	2	Wed	sentinel3b	1027	1033	72	24	186	NE-S
Oct	2	Wed	jason2	1034	1040	32	136	67	SE-NE
Oct	2	Wed	swarmb	1046	1050	65	8	172	N -S
Oct	2	Wed	lageos2	1046	1127	52	297	179	NW-S
Oct	2	Wed	sentinel3a	1106	1112	56	359	221	N -SW
Oct	2	Wed	gracefol	1111	1115	49	210	341	SW-N
Oct	2	Wed	snet1	1114	1118	44	206	324	SW-NW
Oct	2	Wed	lares	1147	1159	73	224	29	SW-NE
Oct	2	Wed	starlette	1201	1207	35	258	172	W -S
Oct	2	Wed	ajisai	1204	1216	78	250	84	W -E
Oct	2	Wed	jason2	1226	1237	77	228	37	SW-NE
Oct	2	Wed	jason3	1257	1307	63	192	47	S -NE
Oct	2	Wed	lageos1	1337	1407	36	48	140	NE-SE
Oct	2	Wed	lares	1349	1356	30	299	12	NW-N
Oct	2	Wed	ajisai	1406	1418	79	275	107	W -E
Oct	2	Wed	swarmc	1410	1413	47	136	22	SE-N
Oct	2	Wed	swarma	1410	1413	56	148	18	SE-N
Oct	2	Wed	jason2	1424	1431	34	296	20	NW-N
Oct	2	Wed	cryosat2	1434	1440	69	357	198	N -S
Oct	2	Wed	jason3	1454	1503	47	269	28	W -NE
Oct	2	Wed	larets	1508	1512	45	339	230	N -SW

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Date	Satellite	Start	End	Elev	Direction	Observer		
Oct	2	Wed	stella	1602	1608	49	199 329 S -NW	TS
Oct	2	Wed	ajisai	1608	1618	48	272 155 W -SE	
Oct	2	Wed	hy2b	1616	1621	40	101 10 E -N	
Oct	2	Wed	geoik2	1633	1639	37	106 6 E -N	
Oct	2	Wed	hy2a	1633	1639	47	118 3 SE-N	
Oct	2	Wed	envisat	1705	1709	35	104 19 E -N	
Oct	2	Wed	lageos1	1708	1751	82	33 231 NE-SW	
Oct	2	Wed	paz	1742	1746	51	195 328 S -NW	
Oct	2	Wed	lares	1751	1759	36	356 84 N -E	
Oct	2	Wed	saral	1755	1800	43	47 158 NE-S	
Oct	2	Wed	kompsat5	1758	1802	47	54 170 NE-S	
Oct	2	Wed	hy2b	1758	1805	44	206 326 SW-NW	
Oct	2	Wed	geoik2	1815	1822	46	204 327 SW-NW	
Oct	2	Wed	hy2a	1817	1822	36	230 315 SW-NW	
Oct	2	Wed	jason2	1819	1828	46	340 98 N -E	

Oct	2	Wed	envisat	1844	1849	38	222	322	SW-NW
Oct	2	Wed	jason3	1851	1859	34	341	71	N -E
Oct	2	Wed	saral	1935	1939	32	328	250	NW-W
Oct	2	Wed	lares	1948	1959	86	327	153	NW-SE
Oct	2	Wed	sentinel3b	2013	2017	32	100	23	E -NE
Oct	2	Wed	jason2	2014	2024	65	312	163	NW-S
Oct	2	Wed	lageos1	2039	2115	52	53	297	NE-NW
Oct	2	Wed	jason3	2047	2058	76	326	133	NW-SE
Oct	2	Wed	sentinel3a	2051	2057	61	141	357	SE-N
Oct	2	Wed	sentinel3b	2152	2158	44	204	326	SW-NW
Oct	2	Wed	icesat2	2212	2215	55	134	11	SE-N
Oct	2	Wed	technosat	2232	2237	64	29	182	NE-S
Oct	2	Wed	gracefo1	2234	2238	69	5	178	N -S
Oct	2	Wed	jason3	2244	2251	33	287	208	W -SW
Oct	2	Wed	swarmb	2303	2307	63	165	8	S -N
Oct	3	Thu	lageos1	0003	0044	73	115	326	SE-NW
Oct	3	Thu	snet1	0025	0029	49	346	221	N -SW
Oct	3	Thu	larets	0038	0043	44	123	6	SE-N
Oct	3	Thu	lageos2	0047	0130	50	177	62	S -NE
Oct	3	Thu	swarmc	0124	0126	28	65	125	NE-SE
Oct	3	Thu	swarma	0124	0126	32	58	128	NE-SE
Oct	3	Thu	cryosat2	0147	0153	69	160	3	S -N
Oct	3	Thu	larets	0217	0219	26	251	293	W -NW
Oct	3	Thu	lageos1	0340	0417	47	200	321	S -NW
Oct	3	Thu	stella	0411	0416	38	47	150	NE-SE

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Date	Satellite	Start	End	Elev	Direction	Observer		
Oct	3	Thu	lageos2	0444	0535	88	253 81 W -E	CP
Oct	3	Thu	kompsat5	0447	0452	54	137 358 SE-N	
Oct	3	Thu	starlette	0505	0510	32	170 102 S -E	
Oct	3	Thu	saral	0517	0523	73	171 342 S -N	
Oct	3	Thu	stella	0551	0556	37	340 243 N -SW	
Oct	3	Thu	hy2b	0632	0639	76	24 188 NE-S	
Oct	3	Thu	paz	0642	0646	72	1 202 N -S	
Oct	3	Thu	geoik2	0645	0653	66	26 185 NE-S	
Oct	3	Thu	envisat	0647	0653	51	38 171 NE-S	
Oct	3	Thu	hy2a	0650	0657	87	16 199 N -S	
Oct	3	Thu	starlette	0652	0701	67	234 83 SW-E	
Oct	3	Thu	beaconc	0706	0712	32	200 121 S -SE	
Oct	3	Thu	tandemx	0709	0712	39	324 233 NW-SW	
Oct	3	Thu	terrasarx	0709	0712	39	326 233 NW-SW	
Oct	3	Thu	starlette	0841	0850	83	268 97 W -E	
Oct	3	Thu	lageos2	0850	0938	75	294 143 NW-SE	
Oct	3	Thu	beaconc	0859	0905	37	223 133 SW-SE	
Oct	3	Thu	ajisai	0911	0919	35	176 92 S -E	
Oct	3	Thu	technosat	0928	0932	68	159 349 S -N	
Oct	3	Thu	sentinel3b	1001	1007	46	39 163 NE-S	
Oct	3	Thu	swarmb	1026	1030	51	19 153 N -SE	
Oct	3	Thu	starlette	1030	1039	59	274 132 W -SE	

Oct	3	Thu	sentinel3a	1040	1047	88	15	198	N	-S
Oct	3	Thu	lares	1044	1055	67	188	38	S	-NE
Oct	3	Thu	jason2	1047	1055	44	165	59	S	-NE
Oct	3	Thu	gracefol	1050	1054	74	190	356	S	-N
Oct	3	Thu	icesat2	1106	1110	50	344	208	N	-SW
Oct	3	Thu	ajisai	1110	1122	70	237	81	SW	-E
Oct	3	Thu	snet1	1118	1122	40	210	321	SW	-NW
Oct	3	Thu	sentinel3b	1142	1146	31	326	252	NW	-W
Oct	3	Thu	jason2	1241	1251	61	245	31	SW	-NE
Oct	3	Thu	lares	1243	1252	43	269	17	W	-N
Oct	3	Thu	ajisai	1312	1324	84	270	98	W	-E
Oct	3	Thu	jason3	1319	1330	87	216	39	SW	-NE
Oct	3	Thu	cryosat2	1344	1349	45	36	152	NE	-SE
Oct	3	Thu	larets	1407	1412	51	42	171	NE	-S
Oct	3	Thu	jason2	1440	1446	30	312	21	NW	-N
Oct	3	Thu	ajisai	1514	1525	60	275	136	W	-SE
Oct	3	Thu	jason3	1518	1526	38	292	28	W	-NE
Oct	3	Thu	stella	1535	1542	81	169	342	S	-N

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Date	Satellite	Start	End	Elev	Direction	Observer		
Oct	3	Thu	lageos1	1545	1628	74	33 201 NE-S	VS
Oct	3	Thu	hy2b	1637	1644	55	129 356 SE-N	
Oct	3	Thu	geoik2	1648	1654	46	119 3 SE-N	
Oct	3	Thu	hy2a	1655	1702	66	142 353 SE-N	
Oct	3	Thu	paz	1725	1729	75	172 343 S -N	
Oct	3	Thu	tandemx	1752	1756	39	209 325 SW-NW	
Oct	3	Thu	terrasarx	1752	1756	40	208 324 SW-NW	
Oct	3	Thu	kompsat5	1754	1758	43	44 161 NE-S	
Oct	3	Thu	envisat	1806	1812	75	174 340 S -N	
Oct	3	Thu	hy2b	1821	1826	31	230 309 SW-NW	
Oct	3	Thu	geoik2	1831	1836	35	223 311 SW-NW	
Oct	3	Thu	jason2	1833	1843	56	332 111 NW-E	
Oct	3	Thu	hy2a	1841	1843	25	257 288 W -W	
Oct	3	Thu	lares	1844	1855	59	340 123 N -SE	
Oct	3	Thu	saral	1903	1909	53	357 221 N -SW	
Oct	3	Thu	jason3	1914	1923	41	341 90 N -E	
Oct	3	Thu	lageos1	1918	1956	57	41 276 NE-W	
Oct	3	Thu	sentinel3a	2026	2031	40	111 9 E -N	
Oct	3	Thu	jason2	2029	2038	50	303 182 NW-S	
Oct	3	Thu	lares	2042	2052	45	307 192 NW-S	
Oct	3	Thu	jason3	2110	2120	76	317 153 NW-SE	
Oct	3	Thu	sentinel3b	2126	2132	69	178 338 S -N	
Oct	3	Thu	icesat2	2147	2149	29	93 34 E -NE	
Oct	3	Thu	sentinel3a	2206	2211	36	223 319 SW-NW	
Oct	3	Thu	gracefol	2212	2216	50	22 157 N -SE	
Oct	3	Thu	technosat	2241	2246	74	18 190 N -S	
Oct	3	Thu	lageos1	2243	2322	59	89 320 E -NW	
Oct	3	Thu	swarmb	2244	2247	48	131 22 SE-N	
Oct	3	Thu	lageos2	2311	2328	27	121 80 SE-E	

Oct	4	Fri	snet1	0029	0033	45	343	225	N	-SW
Oct	4	Fri	cryosat2	0059	0101	27	82	41	E	-NE
Oct	4	Fri	larets	0115	0120	82	165	345	S	-N
Oct	4	Fri	lageos1	0213	0256	70	165	328	S	-NW
Oct	4	Fri	swarma	0217	0220	42	315	210	NW	-SW
Oct	4	Fri	swarmc	0217	0220	49	318	203	NW	-SW
Oct	4	Fri	cryosat2	0236	0241	42	220	333	SW	-NW
Oct	4	Fri	lageos2	0249	0339	78	222	67	SW	-NE
Oct	4	Fri	kompsat5	0444	0448	47	129	4	SE	-N
Oct	4	Fri	saral	0446	0452	56	137	356	SE	-N
Oct	4	Fri	starlette	0523	0530	44	197	90	S	-E
Oct	4	Fri	stella	0524	0530	56	359	220	N	-SW
Oct	4	Fri	paz	0625	0629	70	32	185	NE	-S

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Oct	4	Fri	terrasarx	0651	0655	59	359 215 N -SW	MW
Oct	4	Fri	tandemx	0651	0655	59	358 215 N -SW	
Oct	4	Fri	lageos2	0654	0745	88	282 111 W -E	
Oct	4	Fri	hy2b	0654	0701	78	11 206 N -SW	
Oct	4	Fri	geoik2	0701	0708	82	18 196 N -S	
Oct	4	Fri	starlette	0711	0720	78	250 86 W -E	
Oct	4	Fri	hy2a	0713	0720	63	1 216 N -SW	
Oct	4	Fri	envisat	0749	0755	49	354 224 N -SW	
Oct	4	Fri	beaconc	0814	0821	38	227 128 SW-SE	
Oct	4	Fri	starlette	0900	0909	77	273 107 W -E	
Oct	4	Fri	technosat	0937	0942	79	173 343 S -N	
Oct	4	Fri	lares	0941	0950	38	150 52 SE-NE	
Oct	4	Fri	swarmb	1007	1010	34	39 130 NE-SE	
Oct	4	Fri	sentinel3a	1015	1021	59	38 177 NE-S	
Oct	4	Fri	ajisai	1016	1028	60	222 79 SW-E	
Oct	4	Fri	gracefol	1028	1032	61	160 9 S -N	
Oct	4	Fri	icesat2	1041	1045	80	13 182 N -S	
Oct	4	Fri	starlette	1050	1057	45	265 154 W -SE	
Oct	4	Fri	lageos2	1100	1139	46	296 188 NW-S	
Oct	4	Fri	jason2	1101	1111	59	186 47 S -NE	
Oct	4	Fri	sentinel3b	1115	1121	48	353 228 N -SW	
Oct	4	Fri	snet1	1123	1126	37	235 318 SW-NW	
Oct	4	Fri	lares	1137	1148	67	232 26 SW-NE	
Oct	4	Fri	jason3	1148	1156	39	155 59 SE-NE	
Oct	4	Fri	ajisai	1218	1229	85	262 90 W -E	
Oct	4	Fri	jason2	1257	1306	50	265 29 W -NE	
Oct	4	Fri	jason3	1342	1353	68	238 35 SW-NE	
Oct	4	Fri	ajisai	1419	1431	71	278 122 W -SE	
Oct	4	Fri	lageos1	1423	1502	51	39 169 NE-S	
Oct	4	Fri	swarma	1423	1427	66	199 357 S -N	
Oct	4	Fri	swarmc	1423	1426	80	188 359 S -N	
Oct	4	Fri	cryosat2	1432	1438	65	351 200 N -S	
Oct	4	Fri	larets	1443	1449	68	8 204 N -SW	
Oct	4	Fri	stella	1509	1515	60	140 354 SE-N	
Oct	4	Fri	jason3	1542	1548	32	313 22 NW-N	

Oct 4 Fri ajisai 1622 1630 35 263 179 W -S

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Date	Satellite	Start	End	Elev	Direction	Observer
Oct 4 Fri	jason2	1653	1700	32	343 64 N -NE	RS
Oct 4 Fri	hy2b	1659	1706	75	149 349 SE-N	
Oct 4 Fri	geoik2	1703	1710	59	133 354 SE-N	
Oct 4 Fri	paz	1708	1712	62	147 356 SE-N	
Oct 4 Fri	hy2a	1718	1725	85	164 343 S -N	
Oct 4 Fri	envisat	1730	1736	56	132 356 SE-N	
Oct 4 Fri	terrasarx	1735	1739	58	187 336 S -NW	
Oct 4 Fri	tandemx	1735	1739	56	188 337 S -NW	
Oct 4 Fri	lares	1740	1749	39	350 91 N -E	
Oct 4 Fri	kompsat5	1751	1755	39	54 162 NE-S	
Oct 4 Fri	lageos1	1756	1837	69	34 250 NE-W	
Oct 4 Fri	saral	1832	1838	77	18 194 N -S	
Oct 4 Fri	jason2	1848	1859	70	328 128 NW-SE	
Oct 4 Fri	geoik2	1848	1851	28	256 303 W -NW	
Oct 4 Fri	jason3	1936	1946	53	333 106 NW-E	
Oct 4 Fri	lares	1937	1949	77	324 159 NW-S	
Oct 4 Fri	sentinel3a	2002	2004	26	68 32 E -NE	
Oct 4 Fri	jason2	2044	2052	36	294 200 NW-S	
Oct 4 Fri	sentinel3b	2100	2106	70	149 352 SE-N	
Oct 4 Fri	lageos1	2125	2201	52	65 309 NE-NW	
Oct 4 Fri	jason3	2132	2142	55	309 175 NW-S	
Oct 4 Fri	sentinel3a	2139	2145	57	189 330 S -NW	
Oct 4 Fri	gracefol	2151	2154	33	49 135 NE-SE	
Oct 4 Fri	swarmb	2225	2227	32	103 41 E -NE	
Oct 4 Fri	technosat	2251	2256	77	8 200 N -S	
Oct 4 Fri	icesat2	2255	2258	38	239 331 SW-NW	
Oct 5 Sat	larets	0016	0018	28	72 29 E -NE	
Oct 5 Sat	snet1	0033	0037	42	341 229 N -SW	
Oct 5 Sat	lageos1	0050	0133	86	135 328 SE-NW	
Oct 5 Sat	lageos2	0059	0144	56	186 62 S -NE	
Oct 5 Sat	swarmc	0136	0140	54	15 160 N -S	
Oct 5 Sat	swarma	0137	0140	66	21 167 N -S	
Oct 5 Sat	cryosat2	0145	0151	71	162 360 S -N	
Oct 5 Sat	larets	0152	0156	41	216 319 SW-NW	
Oct 5 Sat	saral	0416	0420	34	99 17 E -N	

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Date	Satellite	Start	End	Elev	Direction	Observer
Oct 5 Sat	lageos1	0436	0502	33	232 309 SW-NW	TS
Oct 5 Sat	kompsat5	0441	0445	45	117 3 SE-N	
Oct 5 Sat	stella	0458	0504	81	17 197 N -S	
Oct 5 Sat	lageos2	0458	0549	86	260 86 W -E	
Oct 5 Sat	hy2b	0534	0538	30	64 129 NE-SE	
Oct 5 Sat	starlette	0541	0550	57	222 83 SW-E	
Oct 5 Sat	hy2a	0553	0559	38	56 154 NE-SE	
Oct 5 Sat	saral	0555	0600	41	216 321 SW-NW	
Oct 5 Sat	paz	0608	0611	45	57 161 NE-S	
Oct 5 Sat	terrasarx	0634	0639	85	15 194 N -S	
Oct 5 Sat	tandemx	0634	0638	81	15 193 N -S	
Oct 5 Sat	envisat	0712	0718	83	18 192 N -S	
Oct 5 Sat	hy2b	0716	0723	57	360 223 N -SW	
Oct 5 Sat	geoik2	0716	0723	75	8 208 N -SW	
Oct 5 Sat	beaconc	0730	0737	38	221 124 SW-SE	
Oct 5 Sat	starlette	0730	0739	81	261 91 W -E	
Oct 5 Sat	hy2a	0736	0742	45	346 235 N -SW	
Oct 5 Sat	lageos2	0904	0951	69	296 151 NW-SE	
Oct 5 Sat	starlette	0920	0928	67	272 121 W -SE	
Oct 5 Sat	ajisai	0923	0933	48	201 84 S -E	
Oct 5 Sat	beaconc	0924	0929	32	225 154 SW-SE	
Oct 5 Sat	technosat	0947	0951	58	192 335 S -NW	
Oct 5 Sat	sentinel3a	0949	0954	37	52 150 NE-SE	
Oct 5 Sat	gracefol	1007	1010	41	126 26 SE-NE	
Oct 5 Sat	icesat2	1015	1019	40	37 158 NE-S	
Oct 5 Sat	lares	1033	1044	75	197 37 S -NE	
Oct 5 Sat	sentinel3b	1049	1056	75	9 205 N -SW	
Oct 5 Sat	starlette	1110	1115	33	251 179 W -S	
Oct 5 Sat	jason2	1115	1126	78	206 42 SW-NE	
Oct 5 Sat	ajisai	1123	1135	81	252 84 W -E	
Oct 5 Sat	snet1	1127	1130	34	236 315 SW-NW	
Oct 5 Sat	sentinel3a	1129	1134	39	338 239 N -SW	
Oct 5 Sat	jason3	1209	1219	57	185 49 S -NE	
Oct 5 Sat	lares	1233	1242	40	276 19 W -N	
Oct 5 Sat	lageos1	1306	1327	30	58 120 NE-SE	
Oct 5 Sat	jason2	1312	1321	41	278 28 W -NE	
Oct 5 Sat	ajisai	1325	1337	78	276 110 W -E	
Oct 5 Sat	cryosat2	1341	1347	47	27 158 NE-S	
Oct 5 Sat	swarma	1343	1346	40	133 27 SE-NE	
Oct 5 Sat	swarmc	1343	1346	34	124 30 SE-NE	
Oct 5 Sat	larets	1344	1347	31	77 142 E -SE	
Oct 5 Sat	jason3	1405	1415	52	258 29 W -NE	
Oct 5 Sat	stella	1443	1448	40	112 8 E -N	
Oct 5 Sat	larets	1521	1525	36	325 237 NW-SW	
Oct 5 Sat	ajisai	1527	1537	46	273 159 W -S	
Oct 5 Sat	stella	1623	1628	35	224 319 SW-NW	

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Date	Satellite	Start	End	Elev	Direction	Observer
Oct 5 Sat	lageos1	1633	1717	88	32 221 NE-SW	MW
Oct 5 Sat	paz	1651	1655	41	125 7 SE-N	
Oct 5 Sat	jason2	1708	1716	37	344 79 N -E	
Oct 5 Sat	terrasarx	1718	1722	65	159 349 S -N	
Oct 5 Sat	tandemx	1718	1722	67	159 349 S -N	
Oct 5 Sat	geoik2	1718	1725	74	149 349 SE-N	
Oct 5 Sat	hy2b	1721	1728	78	172 339 S -N	
Oct 5 Sat	hy2a	1740	1748	61	183 335 S -NW	
Oct 5 Sat	kompsat5	1748	1751	37	66 152 NE-SE	
Oct 5 Sat	saral	1801	1807	47	39 167 NE-S	
Oct 5 Sat	jason3	1803	1810	32	341 61 N -NE	
Oct 5 Sat	envisat	1832	1838	45	203 329 SW-NW	
Oct 5 Sat	lares	1833	1844	64	336 127 NW-SE	
Oct 5 Sat	jason2	1903	1913	84	322 142 NW-SE	
Oct 5 Sat	saral	1942	1945	29	314 258 NW-W	
Oct 5 Sat	jason3	1959	2009	69	329 125 NW-SE	
Oct 5 Sat	lageos1	2005	2042	53	49 291 NE-W	
Oct 5 Sat	lares	2032	2041	40	301 200 NW-S	
Oct 5 Sat	sentinel3b	2035	2040	46	116 5 SE-N	
Oct 5 Sat	jason2	2101	2104	26	267 233 W -SW	
Oct 5 Sat	sentinel3a	2113	2120	88	163 345 S -N	
Oct 5 Sat	jason3	2156	2204	37	290 196 W -S	
Oct 5 Sat	sentinel3b	2216	2219	30	247 305 SW-NW	
Oct 5 Sat	icesat2	2229	2233	70	192 350 S -N	
Oct 5 Sat	technosat	2300	2305	63	2 210 N -SW	
Oct 5 Sat	gracefol	2304	2307	31	309 228 NW-SW	
Oct 5 Sat	lageos2	2318	2345	33	139 72 SE-E	
Oct 5 Sat	lageos1	2329	0010	67	106 325 E -NW	
Oct 5 Sat	swarmb	2340	2343	29	254 330 W -NW	
Oct 6 Sun	snet1	0037	0041	39	339 233 N -SW	
Oct 6 Sun	larets	0051	0056	56	132 358 SE-N	
Oct 6 Sun	cryosat2	0056	0059	30	94 33 E -NE	
Oct 6 Sun	swarma	0058	0059	25	93 118 E -SE	
Oct 6 Sun	swarmc	0231	0232	26	274 245 W -SW	
Oct 6 Sun	cryosat2	0234	0238	39	230 326 SW-NW	
Oct 6 Sun	lageos2	0303	0353	82	230 69 SW-E	
Oct 6 Sun	lageos1	0304	0344	54	189 325 S -NW	
Oct 6 Sun	starlette	0413	0419	34	178 96 S -E	
Oct 6 Sun	stella	0431	0437	55	34 173 NE-S	
Oct 6 Sun	kompsat5	0437	0441	42	125 10 SE-N	
Oct 6 Sun	saral	0523	0529	71	177 337 S -NW	
Oct 6 Sun	hy2b	0555	0602	43	43 160 NE-S	
Oct 6 Sun	starlette	0600	0609	69	239 84 SW-E	
Oct 6 Sun	hy2a	0615	0622	54	37 171 NE-S	
Oct 6 Sun	tandemx	0617	0621	55	33 173 NE-S	
Oct 6 Sun	terrasarx	0617	0621	56	32 173 NE-S	
Oct 6 Sun	envisat	0636	0641	42	48 157 NE-SE	
Oct 6 Sun	beaconc	0646	0653	37	214 120 SW-SE	

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Date	Satellite	Start	End	Elev	Direction	Observer
Oct 6 Sun	lageos2	0709	0758	87	286 118 W -SE	VS
Oct 6 Sun	geoik2	0731	0738	59	1 220 N -SW	
Oct 6 Sun	hy2b	0739	0745	41	340 238 N -SW	
Oct 6 Sun	starlette	0749	0759	78	269 98 W -E	
Oct 6 Sun	hy2a	0759	0804	33	333 253 NW-W	
Oct 6 Sun	envisat	0816	0819	33	319 256 NW-W	
Oct 6 Sun	ajisai	0830	0838	37	180 92 S -E	
Oct 6 Sun	beaconc	0839	0845	35	233 147 SW-SE	
Oct 6 Sun	lares	0930	0939	43	159 53 S -NE	
Oct 6 Sun	starlette	0939	0947	56	271 137 W -SE	
Oct 6 Sun	technosat	0956	1001	50	198 332 S -NW	
Oct 6 Sun	sentinel3b	1023	1030	69	25 185 NE-S	
Oct 6 Sun	ajisai	1029	1041	73	240 81 SW-E	
Oct 6 Sun	sentinel3a	1103	1109	60	356 215 N -SW	
Oct 6 Sun	swarmb	1103	1106	39	318 221 NW-SW	
Oct 6 Sun	lageos2	1115	1149	40	293 200 NW-S	
Oct 6 Sun	lares	1127	1138	61	239 25 SW-NE	
Oct 6 Sun	jason2	1130	1140	80	224 37 SW-NE	
Oct 6 Sun	snet1	1131	1134	31	237 312 SW-NW	
Oct 6 Sun	ajisai	1231	1243	81	271 99 W -E	
Oct 6 Sun	jason3	1231	1242	80	208 41 SW-NE	
Oct 6 Sun	jason2	1328	1335	35	296 21 NW-N	
Oct 6 Sun	larets	1419	1425	63	25 183 NE-S	
Oct 6 Sun	jason3	1429	1438	41	280 28 W -NE	
Oct 6 Sun	cryosat2	1429	1435	61	352 204 N -SW	
Oct 6 Sun	ajisai	1433	1444	58	276 140 W -SE	
Oct 6 Sun	swarmc	1436	1439	39	226 334 SW-NW	
Oct 6 Sun	swarma	1437	1439	32	259 328 W -NW	
Oct 6 Sun	lageos1	1511	1553	66	35 191 NE-S	
Oct 6 Sun	stella	1556	1602	57	195 333 S -NW	
Oct 6 Sun	hy2b	1602	1606	32	84 18 E -N	
Oct 6 Sun	hy2a	1621	1627	40	107 5 E -N	
Oct 6 Sun	tandemx	1701	1705	49	131 0 SE-N	
Oct 6 Sun	terrasarx	1701	1705	48	133 1 SE-N	

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Date	Satellite	Start	End	Elev	Direction	Observer
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Oct	6	Sun	jason2	1723	1731	43	342	90	N -E	RS
Oct	6	Sun	lares	1730	1739	42	352	97	N -E	
Oct	6	Sun	geoik2	1733	1740	85	164	343	S -N	
Oct	6	Sun	hy2b	1743	1750	56	192	330	S -NW	
Oct	6	Sun	kompsat5	1744	1748	33	54	154	NE-SE	
Oct	6	Sun	envisat	1755	1801	77	163	346	S -N	
Oct	6	Sun	hy2a	1804	1810	43	212	322	SW-NW	
Oct	6	Sun	jason3	1826	1834	38	342	80	N -E	
Oct	6	Sun	lageos1	1844	1923	60	38	267	NE-W	
Oct	6	Sun	saral	1910	1915	49	346	228	N -SW	
Oct	6	Sun	jason2	1918	1928	70	314	159	NW-S	
Oct	6	Sun	kompsat5	1920	1921	26	301	275	NW-W	
Oct	6	Sun	lares	1927	1938	70	321	166	NW-S	
Oct	6	Sun	sentinel3b	2010	2014	30	87	15	E -N	
Oct	6	Sun	jason3	2022	2032	81	320	146	NW-SE	
Oct	6	Sun	sentinel3a	2048	2054	57	132	355	SE-N	
Oct	6	Sun	sentinel3b	2148	2154	48	198	326	S -NW	
Oct	6	Sun	icesat2	2203	2207	55	151	6	SE-N	
Oct	6	Sun	lageos1	2211	2248	56	80	317	E -NW	
Oct	6	Sun	gracefo1	2242	2246	45	332	206	NW-SW	
Oct	6	Sun	snet1	2307	2308	26	88	112	E -E	
Oct	6	Sun	technosat	2310	2314	51	349	223	N -SW	
Oct	6	Sun	swarmb	2320	2324	41	229	344	SW-N	
Oct	7	Mon	snet1	0041	0045	36	337	237	NW-SW	
Oct	7	Mon	lageos2	0111	0158	62	196	62	S -NE	
Oct	7	Mon	larets	0127	0133	64	179	339	S -N	
Oct	7	Mon	lageos1	0138	0221	78	155	327	SE-NW	
Oct	7	Mon	cryosat2	0142	0148	79	167	359	S -N	
Oct	7	Mon	swarmc	0150	0153	68	338	190	N -S	
Oct	7	Mon	swarma	0150	0153	58	330	198	NW-S	
Oct	7	Mon	stella	0405	0410	34	54	149	NE-SE	
Oct	7	Mon	starlette	0431	0439	45	204	87	SW-E	
Oct	7	Mon	kompsat5	0434	0438	38	116	8	SE-N	
Oct	7	Mon	saral	0452	0458	66	145	355	SE-N	

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Date	Satellite	Start	End	Elev	Direction	Observer		
Oct	7	Mon	lageos2	0512	0603	85	266 92 W -E	CP
Oct	7	Mon	stella	0545	0550	41	339 236 N -SW	
Oct	7	Mon	terrasarx	0601	0604	36	70 156 E -SE	
Oct	7	Mon	tandemx	0601	0604	35	73 157 E -SE	
Oct	7	Mon	beaconc	0602	0609	36	206 116 SW-SE	
Oct	7	Mon	geoik2	0604	0610	35	51 149 NE-SE	
Oct	7	Mon	hy2b	0617	0624	60	31 175 NE-S	

Oct	7	Mon	starlette	0619	0629	75	253	86	W	-E
Oct	7	Mon	hy2a	0637	0645	76	22	190	N	-S
Oct	7	Mon	paz	0708	0711	38	319	230	NW	-SW
Oct	7	Mon	envisat	0738	0744	59	359	214	N	-SW
Oct	7	Mon	geoik2	0747	0753	47	347	232	N	-SW
Oct	7	Mon	beaconc	0755	0802	38	228	133	SW	-SE
Oct	7	Mon	hy2b	0801	0806	30	334	258	NW	-W
Oct	7	Mon	starlette	0809	0818	77	273	109	W	-E
Oct	7	Mon	lageos2	0918	1004	64	297	159	NW	-S
Oct	7	Mon	ajisai	0935	0947	62	225	80	SW	-E
Oct	7	Mon	jason2	0951	0959	40	160	60	S	-NE
Oct	7	Mon	starlette	0958	1006	43	268	154	W	-SE
Oct	7	Mon	sentinel3b	0958	1003	43	49	158	NE	-S
Oct	7	Mon	snet1	1000	1003	32	88	16	E	-N
Oct	7	Mon	technosat	1006	1010	39	216	323	SW	-NW
Oct	7	Mon	lares	1022	1034	81	204	34	SW	-NE
Oct	7	Mon	sentinel3a	1037	1043	79	18	195	N	-S
Oct	7	Mon	swarmb	1043	1047	56	341	200	N	-S
Oct	7	Mon	icesat2	1058	1102	47	334	209	NW	-SW
Oct	7	Mon	gracefol	1058	1102	37	228	339	SW	-N
Oct	7	Mon	jason3	1101	1107	34	140	68	SE	-E
Oct	7	Mon	ajisai	1137	1149	84	264	91	W	-E
Oct	7	Mon	sentinel3b	1138	1142	33	333	254	NW	-W
Oct	7	Mon	jason2	1145	1155	65	241	32	SW	-NE
Oct	7	Mon	lares	1223	1231	37	283	14	W	-N
Oct	7	Mon	jason3	1254	1305	75	231	36	SW	-NE
Oct	7	Mon	cryosat2	1339	1344	51	30	158	NE	-S
Oct	7	Mon	ajisai	1339	1350	69	277	125	W	-SE
Oct	7	Mon	jason2	1344	1350	31	312	22	NW	-N
Oct	7	Mon	lageos1	1350	1425	43	43	156	NE	-SE
Oct	7	Mon	swarma	1356	1400	74	177	4	S	-N
Oct	7	Mon	swarmc	1356	1359	69	164	11	S	-N
Oct	7	Mon	jason3	1453	1500	34	301	23	NW	-NE
Oct	7	Mon	larets	1456	1501	57	357	218	N	-SW
Oct	7	Mon	stella	1529	1535	79	162	345	S	-N
Oct	7	Mon	ajisai	1542	1549	33	255	182	W	-S
Oct	7	Mon	hy2b	1623	1629	44	111	3	E	-N
Oct	7	Mon	hy2a	1643	1650	55	130	356	SE	-N
Oct	7	Mon	tandemx	1644	1647	33	112	22	E	-N
Oct	7	Mon	terrasarx	1645	1648	33	87	10	E	-N
Oct	7	Mon	envisat	1719	1724	46	119	5	SE	-N

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Date	Satellite	Start	End	Elev	Direction	Observer		
Oct	7	Mon	lageos1	1722	1804	75	33 240 NE-SW	JR
Oct	7	Mon	jason2	1737	1747	53	333 108 NW-E	
Oct	7	Mon	komsat5	1741	1744	32	64 143 NE-SE	
Oct	7	Mon	geoik2	1748	1756	67	178 338 S -N	
Oct	7	Mon	paz	1751	1755	39	212 327 SW-NW	
Oct	7	Mon	hy2b	1806	1812	39	218 320 SW-NW	
Oct	7	Mon	lares	1823	1834	71	335 134 NW-SE	
Oct	7	Mon	hy2a	1828	1832	31	244 307 SW-NW	
Oct	7	Mon	saral	1838	1845	85	13 199 N -S	
Oct	7	Mon	jason3	1848	1858	48	334 101 NW-E	
Oct	7	Mon	envisat	1859	1902	29	243 301 SW-NW	
Oct	7	Mon	komsat5	1916	1918	28	317 265 NW-W	
Oct	7	Mon	jason2	1933	1942	54	304 177 NW-S	
Oct	7	Mon	lares	2022	2030	35	295 208 NW-SW	

Oct	7	Mon	sentinel3a	2023	2027	37	98	14	E	-N
Oct	7	Mon	jason3	2044	2055	62	312	166	NW	-S
Oct	7	Mon	lageos1	2052	2128	51	59	303	NE	-NW
Oct	7	Mon	sentinel3b	2122	2129	77	173	341	S	-N
Oct	7	Mon	icesat2	2138	2141	33	113	26	SE	-NE
Oct	7	Mon	sentinel3a	2202	2207	38	216	317	SW	-NW
Oct	7	Mon	gracefo1	2220	2224	76	354	189	N	-S
Oct	7	Mon	swarmb	2300	2304	60	202	350	S	-N
Oct	7	Mon	snet1	2311	2313	28	86	133	E	-SE
Oct	7	Mon	technosat	2320	2324	42	332	227	NW	-SW
Oct	7	Mon	lageos2	2327	0001	38	153	66	SE	-NE
Oct	8	Tue	lageos1	0016	0059	79	125	327	SE	-NW
Oct	8	Tue	larets	0028	0031	36	93	20	E	-N
Oct	8	Tue	snet1	0046	0049	33	313	240	NW	-SW
Oct	8	Tue	cryosat2	0053	0057	31	106	26	E	-NE
Oct	8	Tue	swarma	0110	0113	48	39	154	NE	-SE
Oct	8	Tue	swarmc	0110	0113	40	50	149	NE	-SE
Oct	8	Tue	larets	0205	0209	32	231	316	SW	-NW
Oct	8	Tue	cryosat2	0232	0236	37	242	329	SW	-NW
Oct	8	Tue	starlette	0305	0306	25	138	125	SE	-SE
Oct	8	Tue	lageos2	0316	0407	86	238	73	SW	-E

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Date	Satellite	Start	End	Elev	Direction	Observer		
Oct	8	Tue	lageos1	0400	0430	39	214 317 SW-NW	MW
Oct	8	Tue	saral	0422	0427	38	109 9 E	-N
Oct	8	Tue	kompsat5	0431	0434	36	105 18 E	-N
Oct	8	Tue	starlette	0450	0458	58	223 85 SW	-E
Oct	8	Tue	beaconc	0518	0524	33	197 121 S	-SE
Oct	8	Tue	stella	0518	0524	62	2 214 N	-SW
Oct	8	Tue	saral	0602	0606	36	231 314 SW	-NW
Oct	8	Tue	geoik2	0619	0626	45	42 164 NE	-S
Oct	8	Tue	starlette	0639	0648	81	262 92 W	-E
Oct	8	Tue	hy2b	0639	0647	77	19 195 N	-S
Oct	8	Tue	paz	0650	0654	57	356 213 N	-SW
Oct	8	Tue	hy2a	0700	0708	72	11 207 N	-SW
Oct	8	Tue	envisat	0701	0707	66	26 182 NE	-S
Oct	8	Tue	beaconc	0710	0718	39	232 127 SW	-SE
Oct	8	Tue	terrasarx	0718	0720	31	311 251 NW	-W
Oct	8	Tue	tandemx	0718	0720	31	308 249 NW	-W
Oct	8	Tue	lageos2	0723	0812	84	289 126 W	-SE
Oct	8	Tue	geoik2	0802	0808	38	343 243 N	-SW
Oct	8	Tue	starlette	0828	0837	68	274 122 W	-SE
Oct	8	Tue	ajisai	0842	0852	50	205 84 SW	-E
Oct	8	Tue	lares	0919	0929	48	168 48 S	-NE

Oct	8	Tue	snet1	1004	1007	35	92	14	E	-N
Oct	8	Tue	jason2	1005	1014	55	181	52	S	-NE
Oct	8	Tue	sentinel3a	1011	1017	53	37	173	NE	-S
Oct	8	Tue	technosat	1016	1019	32	234	311	SW	-NW
Oct	8	Tue	starlette	1018	1024	31	256	177	W	-S
Oct	8	Tue	swarmb	1024	1028	73	355	182	N	-S
Oct	8	Tue	icesat2	1032	1036	77	6	185	N	-S
Oct	8	Tue	gracefo1	1036	1040	59	200	348	S	-N
Oct	8	Tue	ajisai	1043	1055	82	254	85	W	-E
Oct	8	Tue	sentinel3b	1112	1117	51	348	227	N	-SW
Oct	8	Tue	lares	1117	1127	55	248	22	W	-N
Oct	8	Tue	jason3	1121	1131	50	178	52	S	-NE
Oct	8	Tue	lageos2	1130	1159	35	289	213	W	-SW
Oct	8	Tue	jason2	1200	1210	52	257	30	W	-NE
Oct	8	Tue	ajisai	1244	1256	78	277	112	W	-E
Oct	8	Tue	swarma	1317	1319	30	92	35	E	-NE
Oct	8	Tue	jason3	1317	1327	56	252	30	W	-NE
Oct	8	Tue	larets	1356	1400	39	55	155	NE	-SE
Oct	8	Tue	cryosat2	1427	1433	57	347	205	N	-SW
Oct	8	Tue	ajisai	1447	1456	44	267	163	W	-S
Oct	8	Tue	stella	1503	1509	56	131	356	SE	-N
Oct	8	Tue	jason3	1517	1523	30	319	25	NW	-NE

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Date	Satellite	Start	End	Elev	Direction	Observer		
Oct	8	Tue	jason2	1557	1603	31	345 55 N -NE	TS
Oct	8	Tue	lageos1	1559	1643	82	33 212 NE-SW	
Oct	8	Tue	geoik2	1623	1627	32	84 17 E -N	
Oct	8	Tue	hy2b	1644	1651	60	137 355 SE-N	
Oct	8	Tue	hy2a	1705	1713	73	153 347 SE-N	
Oct	8	Tue	jason3	1715	1722	31	342 59 N -NE	
Oct	8	Tue	lares	1719	1729	45	346 104 N -E	
Oct	8	Tue	paz	1734	1738	61	190 338 S -N	
Oct	8	Tue	jason2	1752	1802	66	330 122 NW-SE	
Oct	8	Tue	tandemx	1801	1804	32	225 311 SW-NW	
Oct	8	Tue	terrasarx	1801	1804	32	223 309 SW-NW	
Oct	8	Tue	geoik2	1804	1811	54	197 332 S -NW	
Oct	8	Tue	saral	1808	1813	55	42 170 NE-S	
Oct	8	Tue	envisat	1821	1827	57	195 335 S -NW	
Oct	8	Tue	hy2b	1830	1833	28	256 302 W -NW	
Oct	8	Tue	jason3	1911	1921	63	331 119 NW-SE	
Oct	8	Tue	komsat5	1913	1915	29	308 256 NW-W	
Oct	8	Tue	lares	1917	1928	63	316 172 NW-S	
Oct	8	Tue	lageos1	1932	2009	54	44 283 NE-W	
Oct	8	Tue	jason2	1948	1956	39	295 196 NW-S	
Oct	8	Tue	saral	1948	1951	27	320 266 NW-W	
Oct	8	Tue	sentinel3a	1959	2000	25	55 38 NE-NE	
Oct	8	Tue	sentinel3b	2056	2103	68	147 351 SE-N	
Oct	8	Tue	jason3	2108	2116	43	293 191 NW-S	
Oct	8	Tue	sentinel3a	2136	2142	61	191 335 S -NW	
Oct	8	Tue	technosat	2154	2157	28	71 138 E -SE	
Oct	8	Tue	gracefo1	2159	2203	63	19 169 N -S	
Oct	8	Tue	swarmb	2241	2245	75	180 2 S -N	

Oct	8	Tue	icesat2	2246	2249	34	225	319	SW-NW
Oct	8	Tue	lageos1	2256	2336	63	97	323	E -NW
Oct	8	Tue	snet1	2314	2317	30	60	135	NE-SE
Oct	8	Tue	technosat	2329	2333	34	336	240	NW-SW
Oct	9	Wed	snet1	0050	0053	31	313	243	NW-SW
Oct	9	Wed	larets	0103	0109	67	152	351	SE-N
Oct	9	Wed	lageos2	0124	0212	67	204	63	SW-NE
Oct	9	Wed	cryosat2	0140	0146	75	170	357	S -N
Oct	9	Wed	swarmc	0203	0206	34	311	218	NW-SW
Oct	9	Wed	swarma	0204	0206	29	278	225	W -SW
Oct	9	Wed	lageos1	0228	0310	62	176	326	S -NW
Oct	9	Wed	starlette	0321	0328	36	186	92	S -E
Oct	9	Wed	komsat5	0428	0431	34	92	14	E -N
Oct	9	Wed	beaconc	0434	0440	31	189	119	S -SE
Oct	9	Wed	stella	0451	0458	80	21	192	N -S
Oct	9	Wed	starlette	0509	0518	71	240	83	SW-E

OBSERVING SCHEDULE (Times are in U.T.)

Date	Satellite	Start	End	Elev	Direction	Observer		
Oct	9	Wed	lageos2	0526	0617	86	272 97 W -E	RS
Oct	9	Wed	saral	0530	0536	63	187 336 S -NW	
Oct	9	Wed	hy2a	0541	0545	31	64 131 NE-SE	
Oct	9	Wed	envisat	0625	0629	34	58 142 NE-SE	
Oct	9	Wed	beaconc	0626	0634	40	226 122 SW-SE	
Oct	9	Wed	paz	0633	0637	71	15 193 N -S	
Oct	9	Wed	geoik2	0634	0641	58	32 174 NE-S	
Oct	9	Wed	starlette	0658	0707	82	270 100 W -E	
Oct	9	Wed	terrasarx	0700	0704	45	347 222 N -SW	
Oct	9	Wed	tandemx	0700	0704	44	345 221 N -SW	
Oct	9	Wed	hy2b	0701	0709	67	8 211 N -SW	
Oct	9	Wed	hy2a	0723	0730	55	358 225 N -SW	
Oct	9	Wed	ajisai	0749	0758	39	184 87 S -E	
Oct	9	Wed	envisat	0804	0809	39	337 236 NW-SW	
Oct	9	Wed	geoik2	0818	0822	30	328 262 NW-W	
Oct	9	Wed	beaconc	0820	0825	31	229 162 SW-S	
Oct	9	Wed	starlette	0847	0856	55	273 138 W -SE	
Oct	9	Wed	technosat	0850	0853	35	96 16 E -N	
Oct	9	Wed	lageos2	0932	1016	58	297 169 NW-S	
Oct	9	Wed	sentinel3a	0946	0950	34	65 145 NE-SE	
Oct	9	Wed	ajisai	0948	1000	75	243 82 SW-E	
Oct	9	Wed	swarmb	1004	1008	64	12 164 N -S	
Oct	9	Wed	icesat2	1007	1010	47	41 154 NE-SE	
Oct	9	Wed	snet1	1007	1011	38	118 13 SE-N	
Oct	9	Wed	lares	1012	1023	86	212 32 SW-NE	
Oct	9	Wed	gracefo1	1015	1019	80	172 2 S -N	
Oct	9	Wed	jason2	1019	1029	72	201 44 S -NE	
Oct	9	Wed	sentinel3b	1045	1052	78	12 203 N -SW	
Oct	9	Wed	sentinel3a	1125	1130	41	344 239 N -SW	
Oct	9	Wed	jason3	1143	1154	72	201 43 S -NE	
Oct	9	Wed	ajisai	1150	1202	82	273 101 W -E	
Oct	9	Wed	lares	1213	1221	34	290 16 W -N	
Oct	9	Wed	jason2	1216	1225	43	276 29 W -NE	
Oct	9	Wed	cryosat2	1336	1342	54	23 164 NE-S	
Oct	9	Wed	jason3	1341	1350	44	277 29 W -NE	

Oct	9	Wed	ajisai	1352	1403	56	276	143	W	-SE
Oct	9	Wed	swarma	1409	1413	43	218	348	SW	-N
Oct	9	Wed	swarmc	1409	1413	53	211	352	SW	-N
Oct	9	Wed	larets	1432	1438	77	17	194	N	-S
Oct	9	Wed	lageos1	1437	1518	59	37	181	NE	-S
Oct	9	Wed	stella	1437	1442	36	104	9	E	-N
Oct	9	Wed	jason2	1612	1619	36	345	71	N	-E
Oct	9	Wed	lares	1615	1622	31	353	68	N	-E
Oct	9	Wed	stella	1617	1622	39	224	323	SW	-NW
Oct	9	Wed	geoik2	1637	1643	39	109	5	E	-N

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Date	Satellite	Start	End	Elev	Direction	Observer		
Oct	9	Wed	hy2b	1706	1714	80	157 345 SE-N	VS
Oct	9	Wed	paz	1717	1721	76	157 349 SE-N	
Oct	9	Wed	hy2a	1728	1736	74	174 340 S -N	
Oct	9	Wed	saral	1737	1741	31	60 137 NE-SE	
Oct	9	Wed	jason3	1738	1746	36	344 77 N -E	
Oct	9	Wed	tandemx	1744	1748	50	208 333 SW-NW	
Oct	9	Wed	terrasarx	1744	1748	49	205 333 SW-NW	
Oct	9	Wed	envisat	1744	1750	70	150 351 SE-N	
Oct	9	Wed	jason2	1807	1817	80	324 138 NW-SE	
Oct	9	Wed	lageos1	1810	1850	64	36 259 NE-W	
Oct	9	Wed	lares	1812	1824	77	331 141 NW-SE	
Oct	9	Wed	geoik2	1819	1826	43	207 325 SW-NW	
Oct	9	Wed	kompsat5	1909	1912	32	326 247 NW-SW	
Oct	9	Wed	saral	1916	1921	44	347 236 N -SW	
Oct	9	Wed	jason3	1934	1944	81	324 139 NW-SE	
Oct	9	Wed	jason2	2004	2009	29	277 220 W -SW	
Oct	9	Wed	lares	2012	2018	31	289 224 W -SW	
Oct	9	Wed	sentinel3b	2031	2036	43	118 9 SE-N	
Oct	9	Wed	sentinel3a	2110	2116	79	159 346 S -N	
Oct	9	Wed	jason3	2132	2136	28	271 225 W -SW	
Oct	9	Wed	gracefo1	2137	2141	39	31 149 NE-SE	
Oct	9	Wed	lageos1	2138	2215	53	72 313 E -NW	
Oct	9	Wed	technosat	2203	2207	33	56 151 NE-SE	
Oct	9	Wed	sentinel3b	2212	2216	33	240 315 SW-NW	
Oct	9	Wed	icesat2	2220	2224	64	191 345 S -N	
Oct	9	Wed	swarmb	2221	2225	60	160 14 S -N	
Oct	9	Wed	snet1	2318	2322	32	57 152 NE-SE	
Oct	9	Wed	lageos2	2337	0016	44	165 63 S -NE	
Oct	9	Wed	technosat	2339	2342	29	322 253 NW-W	
Oct	10	Thu	cryosat2	0051	0054	34	98 31 E -NE	
Oct	10	Thu	snet1	0054	0056	28	313 262 NW-W	
Oct	10	Thu	lageos1	0104	0147	86	145 328 SE-NW	
Oct	10	Thu	swarma	0123	0126	81	350 184 N -S	
Oct	10	Thu	swarmc	0123	0126	82	3 176 N -S	
Oct	10	Thu	larets	0140	0145	52	195 329 S -NW	
Oct	10	Thu	cryosat2	0229	0233	34	234 322 SW-NW	
Oct	10	Thu	lageos2	0330	0421	88	245 76 SW-E	
Oct	10	Thu	starlette	0340	0347	48	203 89 SW-E	
Oct	10	Thu	beaconc	0351	0355	27	170 125 S -SE	
Oct	10	Thu	kompsat5	0425	0427	31	80 25 E -NE	
Oct	10	Thu	stella	0425	0431	48	41 169 NE-S	

OBSERVING SCHEDULE (Times are in U.T.)

Date	Satellite	Start	End	Elev	Direction	Observer
Oct 10 Thu	lageos1	0458	0512	26	257 297 W -NW	CP
Oct 10 Thu	saral	0459	0505	72	149 350 SE-N	
Oct 10 Thu	starlette	0528	0537	80	254 87 W -E	
Oct 10 Thu	hy2b	0541	0546	34	56 140 NE-SE	
Oct 10 Thu	beaconc	0542	0549	40	219 124 SW-SE	
Oct 10 Thu	hy2a	0603	0609	44	46 158 NE-S	
Oct 10 Thu	stella	0606	0609	30	318 261 NW-W	
Oct 10 Thu	paz	0616	0620	51	36 175 NE-S	
Oct 10 Thu	tandemx	0643	0647	63	3 203 N -SW	
Oct 10 Thu	terrasarx	0643	0647	64	4 203 N -SW	
Oct 10 Thu	geoik2	0649	0657	70	23 188 NE-S	
Oct 10 Thu	starlette	0717	0726	75	274 112 W -E	
Oct 10 Thu	hy2b	0724	0730	50	351 231 N -SW	
Oct 10 Thu	envisat	0727	0733	74	5 205 N -SW	
Oct 10 Thu	beaconc	0735	0742	35	236 146 SW-SE	
Oct 10 Thu	lageos2	0737	0826	80	292 134 W -SE	
Oct 10 Thu	hy2a	0746	0752	39	346 244 N -SW	
Oct 10 Thu	ajisai	0855	0906	65	226 80 SW-E	
Oct 10 Thu	technosat	0859	0903	42	115 6 SE-N	
Oct 10 Thu	starlette	0907	0914	41	263 160 W -S	
Oct 10 Thu	lares	0909	0919	54	172 44 S -NE	
Oct 10 Thu	swarmb	0945	0949	43	34 152 NE-SE	
Oct 10 Thu	gracefol	0953	0957	49	147 15 SE-N	
Oct 10 Thu	snet1	1011	1015	41	122 11 SE-N	
Oct 10 Thu	sentinel3b	1020	1026	63	31 181 NE-S	
Oct 10 Thu	jason2	1034	1044	81	219 38 SW-NE	
Oct 10 Thu	ajisai	1056	1108	81	266 93 W -E	
Oct 10 Thu	sentinel3a	1059	1105	61	1 214 N -SW	
Oct 10 Thu	lares	1107	1117	51	256 22 W -N	
Oct 10 Thu	jason3	1206	1217	81	224 38 SW-NE	
Oct 10 Thu	jason2	1232	1239	37	295 22 NW-N	
Oct 10 Thu	ajisai	1258	1309	67	277 128 W -SE	
Oct 10 Thu	lageos1	1317	1347	36	48 140 NE-SE	
Oct 10 Thu	swarmc	1329	1332	49	144 22 SE-N	
Oct 10 Thu	swarma	1329	1333	57	156 11 SE-N	
Oct 10 Thu	jason3	1405	1412	36	299 24 NW-NE	
Oct 10 Thu	cryosat2	1425	1430	54	339 211 N -SW	
Oct 10 Thu	ajisai	1501	1508	31	256 186 W -S	
Oct 10 Thu	larets	1509	1514	45	345 227 N -SW	
Oct 10 Thu	stella	1549	1556	65	182 337 S -NW	
Oct 10 Thu	hy2a	1609	1614	34	97 15 E -N	
Oct 10 Thu	jason2	1627	1635	42	344 88 N -E	

OBSERVING SCHEDULE (Times are in U.T.)

Date	Satellite	Start	End	Elev	Direction	Observer
Oct 10 Thu	lageos1	1648	1731	82	33 231 NE-SW	JR
Oct 10 Thu	geoik2	1652	1658	49	122 2 SE-N	
Oct 10 Thu	paz	1700	1704	52	125 359 SE-N	
Oct 10 Thu	envisat	1708	1713	38	107 7 E -N	
Oct 10 Thu	lares	1709	1719	49	347 111 N -E	
Oct 10 Thu	tandemx	1726	1731	79	172 344 S -N	
Oct 10 Thu	terrasarx	1727	1731	76	176 343 S -N	
Oct 10 Thu	hy2b	1728	1736	68	178 338 S -N	
Oct 10 Thu	hy2a	1751	1758	53	196 329 S -NW	
Oct 10 Thu	jason3	1800	1810	44	336 96 NW-E	
Oct 10 Thu	jason2	1822	1832	75	316 154 NW-SE	
Oct 10 Thu	geoik2	1835	1840	33	225 309 SW-NW	
Oct 10 Thu	saral	1845	1851	71	8 205 N -SW	
Oct 10 Thu	envisat	1847	1851	35	224 310 SW-NW	
Oct 10 Thu	kompsat5	1906	1909	34	318 239 NW-SW	
Oct 10 Thu	lares	1906	1917	56	315 179 NW-S	
Oct 10 Thu	jason3	1956	2007	70	314 159 NW-S	
Oct 10 Thu	sentinel3b	2007	2010	28	73 20 E -N	
Oct 10 Thu	lageos1	2019	2055	52	53 297 NE-NW	
Oct 10 Thu	sentinel3a	2044	2050	52	131 358 SE-N	
Oct 10 Thu	gracefol	2117	2118	27	84 111 E -E	
Oct 10 Thu	sentinel3b	2145	2151	52	202 332 S -NW	
Oct 10 Thu	icesat2	2155	2159	63	151 2 SE-N	
Oct 10 Thu	swarmb	2202	2206	40	134 20 SE-N	
Oct 10 Thu	technosat	2213	2217	42	60 164 NE-S	
Oct 10 Thu	sentinel3a	2226	2228	26	257 293 W -NW	
Oct 10 Thu	snet1	2322	2326	35	53 154 NE-SE	
Oct 10 Thu	lageos1	2343	0024	73	115 326 SE-NW	
Oct 11 Fri	larets	0040	0045	44	117 1 SE-N	
Oct 11 Fri	swarma	0043	0046	35	50 143 NE-SE	
Oct 11 Fri	swarmc	0043	0045	30	58 123 NE-SE	
Oct 11 Fri	snet1	0058	0100	26	313 265 NW-W	
Oct 11 Fri	lageos2	0136	0226	73	213 64 SW-NE	
Oct 11 Fri	cryosat2	0138	0143	86	175 355 S -N	
Oct 11 Fri	starlette	0213	0216	26	145 107 SE-E	
Oct 11 Fri	larets	0219	0220	25	262 283 W -W	
Oct 11 Fri	lageos1	0320	0357	46	201 321 S -NW	
Oct 11 Fri	starlette	0358	0407	62	228 83 SW-E	
Oct 11 Fri	stella	0359	0403	30	61 136 NE-SE	
Oct 11 Fri	kompsat5	0421	0424	30	95 21 E -N	
Oct 11 Fri	saral	0428	0433	42	119 10 SE-N	
Oct 11 Fri	beaconc	0457	0505	39	220 119 SW-SE	

OBSERVING SCHEDULE (Times are in U.T.)

Date	Satellite	Start	End	Elev	Direction	Observer
Oct 11 Fri	stella	0538	0544	45	352 230 N -SW	TS
Oct 11 Fri	lagesos2	0541	0631	87	277 104 W -E	
Oct 11 Fri	starlette	0547	0556	81	264 93 W -E	
Oct 11 Fri	paz	0559	0602	35	54 146 NE-SE	
Oct 11 Fri	hy2b	0603	0609	47	45 162 NE-S	
Oct 11 Fri	saral	0608	0612	32	228 306 SW-NW	
Oct 11 Fri	hy2a	0625	0633	62	29 181 NE-S	
Oct 11 Fri	terrasarx	0626	0630	61	26 184 NE-S	
Oct 11 Fri	tandemx	0626	0630	63	27 185 NE-S	
Oct 11 Fri	envisat	0650	0656	55	35 174 NE-S	
Oct 11 Fri	beaconc	0651	0658	38	232 139 SW-SE	
Oct 11 Fri	geoik2	0705	0712	83	15 199 N -S	
Oct 11 Fri	starlette	0737	0745	64	272 126 W -SE	
Oct 11 Fri	hy2b	0746	0752	37	343 245 N -SW	
Oct 11 Fri	ajisai	0801	0812	53	209 81 SW-E	
Oct 11 Fri	lares	0807	0813	30	131 68 SE-E	
Oct 11 Fri	jason2	0855	0903	37	156 61 SE-NE	
Oct 11 Fri	technosat	0908	0913	53	134 358 SE-N	
Oct 11 Fri	swarmb	0926	0928	30	57 118 NE-SE	
Oct 11 Fri	starlette	0927	0932	30	250 184 W -S	
Oct 11 Fri	gracefol	0932	0935	33	116 30 SE-NE	
Oct 11 Fri	lagesos2	0946	1028	52	297 178 NW-S	
Oct 11 Fri	sentinel3b	0954	0959	40	47 152 NE-SE	
Oct 11 Fri	ajisai	1002	1014	82	256 86 W -E	
Oct 11 Fri	lares	1002	1013	80	219 30 SW-NE	
Oct 11 Fri	snet1	1015	1019	45	126 9 SE-N	
Oct 11 Fri	sentinel3a	1033	1039	75	20 191 N -S	
Oct 11 Fri	jason3	1034	1043	44	165 54 S -NE	
Oct 11 Fri	jason2	1049	1059	68	237 34 SW-NE	
Oct 11 Fri	icesat2	1050	1053	45	322 217 NW-SW	
Oct 11 Fri	sentinel3b	1134	1139	36	339 244 N -SW	
Oct 11 Fri	lares	1203	1210	32	296 11 NW-N	
Oct 11 Fri	ajisai	1204	1216	77	276 114 W -SE	
Oct 11 Fri	jason3	1229	1239	61	246 32 SW-NE	
Oct 11 Fri	jason2	1247	1254	32	303 23 NW-NE	
Oct 11 Fri	cryosat2	1334	1339	59	24 164 NE-S	
Oct 11 Fri	ajisai	1406	1415	41	268 167 W -S	
Oct 11 Fri	larets	1408	1413	52	35 169 NE-S	
Oct 11 Fri	jason3	1429	1435	31	318 26 NW-NE	

OBSERVING SCHEDULE (Times are in U.T.)

Date	Satellite	Start	End	Elev	Direction	Observer
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Oct 11 Fri	stella	1523	1529	73	154	348	SE-N	VS
Oct 11 Fri	lageos1	1525	1608	75	33	202	NE-S	
Oct 11 Fri	lares	1605	1612	34	356	74	N -E	
Oct 11 Fri	hy2b	1609	1614	36	93	10	E -N	
Oct 11 Fri	jason3	1627	1633	30	342	50	N -NE	
Oct 11 Fri	hy2a	1631	1637	46	118	5	SE-N	
Oct 11 Fri	jason2	1641	1651	50	335	105	NW-E	
Oct 11 Fri	paz	1643	1646	34	105	18	E -N	
Oct 11 Fri	geoik2	1707	1714	62	137	353	SE-N	
Oct 11 Fri	tandemx	1709	1714	66	150	353	SE-N	
Oct 11 Fri	terrasarx	1710	1714	65	140	354	SE-N	
Oct 11 Fri	hy2b	1751	1758	49	203	330	SW-NW	
Oct 11 Fri	lares	1802	1813	84	329	147	NW-SE	
Oct 11 Fri	envisat	1809	1815	70	179	337	S -NW	
Oct 11 Fri	saral	1814	1820	60	32	179	NE-S	
Oct 11 Fri	hy2a	1815	1820	37	227	315	SW-NW	
Oct 11 Fri	jason3	1823	1833	57	333	113	NW-SE	
Oct 11 Fri	jason2	1837	1846	58	306	172	NW-S	
Oct 11 Fri	geoik2	1852	1854	26	256	288	W -W	
Oct 11 Fri	lageos1	1858	1936	57	41	276	NE-W	
Oct 11 Fri	kompsat5	1902	1906	36	335	233	NW-SW	
Oct 11 Fri	lares	2003	2007	27	273	232	W -SW	
Oct 11 Fri	jason3	2019	2029	48	303	180	NW-S	
Oct 11 Fri	sentinel3a	2019	2024	35	101	9	E -N	
Oct 11 Fri	sentinel3b	2118	2125	80	168	342	S -N	
Oct 11 Fri	icesat2	2130	2133	35	106	20	E -N	
Oct 11 Fri	swarmb	2143	2146	29	111	34	E -NE	
Oct 11 Fri	sentinel3a	2158	2204	40	210	325	SW-NW	
Oct 11 Fri	technosat	2222	2226	50	41	169	NE-S	
Oct 11 Fri	lageos1	2223	2302	59	89	320	E -NW	
Oct 11 Fri	gracefol	2229	2232	38	312	219	NW-SW	
Oct 11 Fri	snet1	2326	2330	39	50	157	NE-SE	
Oct 11 Fri	lageos2	2348	0030	50	176	63	S -NE	
Oct 12 Sat	cryosat2	0048	0052	35	111	24	E -NE	
Oct 12 Sat	larets	0116	0122	79	167	345	S -N	
Oct 12 Sat	swarmc	0136	0139	46	321	207	NW-SW	
Oct 12 Sat	swarma	0136	0139	39	317	215	NW-SW	
Oct 12 Sat	lageos1	0153	0236	70	166	327	S -NW	
Oct 12 Sat	cryosat2	0227	0231	32	245	325	SW-NW	
Oct 12 Sat	starlette	0230	0236	37	183	95	S -E	

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Date	Satellite	Start	End	Elev	Direction	Observer
Oct 12 Sat	lageos2	0400	0435	87	253 81 W -E	MW
Oct 12 Sat	saral	0359	0401	26	71 34 E -NE	
Oct 12 Sat	beaconc	0413	0421	37	211 116 SW-SE	
Oct 12 Sat	starlette	0417	0426	73	244 85 SW-E	
Oct 12 Sat	kompsat5	0418	0420	27	85 33 E -NE	
Oct 12 Sat	stella	0512	0518	72	5 208 N -SW	

Oct 12 Sat	saral	0536	0542	56	191 331	S -NW
Oct 12 Sat	kompsat5	0553	0555	31	250 306	W -NW
Oct 12 Sat	beaconc	0606	0614	40	236 132	SW-SE
Oct 12 Sat	starlette	0607	0616	78	270 102	W -E
Oct 12 Sat	terrasarx	0609	0613	43	45 167	NE-S
Oct 12 Sat	tandemx	0609	0613	44	48 168	NE-S
Oct 12 Sat	hy2b	0624	0632	67	26 183	NE-S
Oct 12 Sat	hy2a	0648	0656	84	17 198	N -S
Oct 12 Sat	ajisai	0708	0717	41	188 87	S -E
Oct 12 Sat	paz	0716	0719	32	327 244	NW-SW
Oct 12 Sat	geoik2	0720	0727	70	6 211	N -SW
Oct 12 Sat	lageos2	0751	0839	75	294 142	NW-SE
Oct 12 Sat	envisat	0752	0758	46	352 227	N -SW
Oct 12 Sat	starlette	0756	0804	52	270 143	W -SE
Oct 12 Sat	lares	0858	0909	61	182 40	S -NE
Oct 12 Sat	ajisai	0908	0920	77	244 82	SW-E
Oct 12 Sat	jason2	0909	0918	51	175 53	S -NE
Oct 12 Sat	technosat	0917	0922	65	150 355	SE-N
Oct 12 Sat	sentinel3a	1007	1013	50	37 168	NE-S
Oct 12 Sat	snet1	1019	1023	49	131 6	SE-N
Oct 12 Sat	icesat2	1024	1028	68	2 189	N -S
Oct 12 Sat	swarmb	1041	1044	32	309 227	NW-SW
Oct 12 Sat	gracefol	1045	1048	31	247 328	SW-NW
Oct 12 Sat	jason3	1056	1106	64	190 46	S -NE
Oct 12 Sat	lares	1057	1106	47	264 18	W -N
Oct 12 Sat	jason2	1104	1114	55	254 31	W -NE
Oct 12 Sat	sentinel3b	1108	1114	54	354 220	N -SW
Oct 12 Sat	ajisai	1109	1121	83	274 103	W -E
Oct 12 Sat	jason3	1252	1302	47	265 30	W -NE
Oct 12 Sat	ajisai	1311	1322	53	276 147	W -SE
Oct 12 Sat	swarma	1342	1346	58	201 355	S -N
Oct 12 Sat	swarmc	1342	1346	70	191 359	S -N
Oct 12 Sat	lageos1	1403	1442	51	39 169	NE-S
Oct 12 Sat	cryosat2	1422	1427	49	343 218	N -SW
Oct 12 Sat	larets	1445	1450	73	5 206	N -SW
Oct 12 Sat	stella	1457	1502	50	121 3	SE-N
Oct 12 Sat	jason2	1501	1507	30	346 55	N -NE
Oct 12 Sat	hy2b	1630	1637	48	120 357	SE-N

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Date	Satellite	Start	End	Elev	Direction	Observer
Oct 12 Sat	jason3	1650	1657	34	345 67 N	-NE RS
Oct 12 Sat	terrasarx	1653	1656	42	115 13	SE-N
Oct 12 Sat	tandemx	1653	1656	42	111 11	E -N
Oct 12 Sat	hy2a	1653	1700	64	141 354	SE-N
Oct 12 Sat	jason2	1656	1706	61	332 119	NW-SE
Oct 12 Sat	lares	1658	1709	54	341 117	N -SE
Oct 12 Sat	geoik2	1722	1729	79	153 347	SE-N
Oct 12 Sat	envisat	1733	1739	60	136 355	SE-N
Oct 12 Sat	lageos1	1736	1817	69	34 250	NE-W
Oct 12 Sat	saral	1743	1748	35	51 148	NE-SE
Oct 12 Sat	paz	1800	1803	33	232 316	SW-NW
Oct 12 Sat	hy2b	1814	1819	35	230 314	SW-NW
Oct 12 Sat	hy2a	1839	1842	26	255 300	W -NW

Oct 12 Sat	jason3	1845	1856	76	325 133	NW-SE
Oct 12 Sat	jason2	1852	1900	43	296 191	NW-S
Oct 12 Sat	lares	1856	1906	50	310 188	NW-S
Oct 12 Sat	kompsat5	1859	1902	40	329 237	NW-SW
Oct 12 Sat	saral	1923	1928	39	335 236	NW-SW
Oct 12 Sat	jason3	2043	2049	32	283 212	W -SW
Oct 12 Sat	sentinel3b	2053	2059	62	139 354	SE-N
Oct 12 Sat	lageos1	2105	2141	52	65 309	NE-NW
Oct 12 Sat	sentinel3a	2132	2138	62	184 336	S -NW
Oct 12 Sat	gracefol	2207	2211	56	340 197	N -S
Oct 12 Sat	lageos2	2212	2228	27	119 81	SE-E
Oct 12 Sat	technosat	2231	2236	66	26 181	NE-S
Oct 12 Sat	icesat2	2238	2241	32	236 323	SW-NW
Oct 12 Sat	swarmb	2258	2301	33	240 328	SW-NW
Oct 12 Sat	snet1	2330	2334	43	46 161	NE-S
Oct 13 Sun	larets	0017	0020	29	83 21	E -N
Oct 13 Sun	lageos1	0030	0113	86	135 328	SE-NW
Oct 13 Sun	swarmc	0056	0059	60	27 162	NE-S
Oct 13 Sun	swarma	0056	0059	73	13 169	N -S
Oct 13 Sun	cryosat2	0135	0141	73	179 353	S -N
Oct 13 Sun	lageos2	0150	0240	77	221 67	SW-NE
Oct 13 Sun	larets	0153	0158	41	210 324	SW-NW
Oct 13 Sun	starlette	0248	0256	50	211 86	SW-E
Oct 13 Sun	beaconc	0329	0336	34	203 120	SW-SE
Oct 13 Sun	kompsat5	0415	0417	25	74 28	E -NE

OBSERVING SCHEDULE (Times are in U.T.)

Date	Satellite	Start	End	Elev	Direction	Observer
Oct 13 Sun	lageos1	0416	0442	32	232 309	SW-NW JR
Oct 13 Sun	starlette	0437	0446	76	255 88	W -E
Oct 13 Sun	stella	0445	0451	69	26 184	NE-S
Oct 13 Sun	saral	0505	0511	75	158 348	S -N
Oct 13 Sun	beaconc	0522	0530	41	230 126	SW-SE
Oct 13 Sun	hy2a	0530	0532	26	86 116	E -SE
Oct 13 Sun	kompsat5	0549	0552	34	231 314	SW-NW
Oct 13 Sun	geoik2	0554	0558	30	72 135	E -SE
Oct 13 Sun	lageos2	0555	0645	89	282 111	W -E
Oct 13 Sun	ajisai	0616	0622	31	159 97	S -E
Oct 13 Sun	starlette	0626	0635	74	273 113	W -SE
Oct 13 Sun	hy2b	0647	0654	84	15 200	N -S
Oct 13 Sun	paz	0659	0703	48	339 218	N -SW
Oct 13 Sun	hy2a	0711	0718	65	3 215	N -SW
Oct 13 Sun	envisat	0715	0721	87	15 196	N -S
Oct 13 Sun	beaconc	0716	0721	30	231 169	SW-S
Oct 13 Sun	geoik2	0735	0742	56	359 223	N -SW
Oct 13 Sun	lares	0756	0803	34	139 62	SE-NE
Oct 13 Sun	ajisai	0814	0825	67	229 81	SW-E
Oct 13 Sun	starlette	0816	0823	39	258 160	W -S

Oct 13 Sun	jason2	0923	0933	67	196	46	S	-NE
Oct 13 Sun	technosat	0927	0932	77	160	348	S	-N
Oct 13 Sun	sentinel3a	0942	0946	32	61	138	NE	-SE
Oct 13 Sun	lares	0951	1003	72	225	29	SW	-NE
Oct 13 Sun	icesat2	0958	1002	50	26	161	NE	-S
Oct 13 Sun	lageos2	1001	1039	46	295	188	NW	-S
Oct 13 Sun	ajisai	1015	1027	84	267	94	W	-E
Oct 13 Sun	swarmb	1021	1025	44	331	208	NW	-SW
Oct 13 Sun	snet1	1023	1028	54	136	357	SE	-N
Oct 13 Sun	gracefol	1023	1027	47	220	345	SW	-N
Oct 13 Sun	sentinel3b	1042	1048	74	13	200	N	-S
Oct 13 Sun	jason3	1118	1129	84	216	39	SW	-NE
Oct 13 Sun	jason2	1120	1129	45	274	30	W	-NE
Oct 13 Sun	sentinel3a	1121	1127	43	350	231	N	-SW
Oct 13 Sun	lares	1153	1159	30	302	6	NW	-N
Oct 13 Sun	ajisai	1217	1229	65	278	130	W	-SE
Oct 13 Sun	lageos1	1245	1307	30	56	120	NE	-SE
Oct 13 Sun	swarmc	1302	1305	36	130	30	SE	-NE
Oct 13 Sun	swarma	1302	1305	42	139	27	SE	-NE
Oct 13 Sun	jason3	1316	1324	38	287	24	W	-NE
Oct 13 Sun	cryosat2	1331	1337	63	18	169	N	-S
Oct 13 Sun	larets	1345	1348	32	66	137	NE	-SE
Oct 13 Sun	stella	1431	1435	32	96	19	E	-N
Oct 13 Sun	jason2	1516	1523	34	347	70	N	-E
Oct 13 Sun	larets	1522	1526	35	334	243	NW	-SW
Oct 13 Sun	lares	1554	1603	36	350	87	N	-E

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Date	Satellite	Start	End	Elev	Direction	Observer
Oct 13 Sun	stella	1610	1615	45	207 320	TS
Oct 13 Sun	lageos1	1613	1657	88	32 222	
Oct 13 Sun	hy2b	1651	1659	66	145 351	
Oct 13 Sun	envisat	1657	1701	31	96 18	
Oct 13 Sun	jason2	1711	1721	76	326 134	
Oct 13 Sun	jason3	1712	1721	41	337 87	
Oct 13 Sun	hy2a	1716	1723	88	162 344	
Oct 13 Sun	geoik2	1737	1744	81	168 341	
Oct 13 Sun	paz	1742	1746	51	195 329	
Oct 13 Sun	lares	1752	1803	85	326 153	
Oct 13 Sun	tandemx	1811	1812	27	266 293	
Oct 13 Sun	terrasarx	1811	1812	27	262 290	
Oct 13 Sun	envisat	1835	1841	42	206 327	
Oct 13 Sun	hy2b	1838	1839	25	266 281	
Oct 13 Sun	saral	1851	1857	67	5 212	
Oct 13 Sun	komsat5	1855	1859	42	344 229	
Oct 13 Sun	jason2	1908	1914	31	277 209	
Oct 13 Sun	jason3	1908	1919	78	317 153	
Oct 13 Sun	lageos1	1945	2022	53	49 291	
Oct 13 Sun	sentinel3b	2028	2033	40	105 5	
Oct 13 Sun	sentinel3a	2106	2112	74	155 348	
Oct 13 Sun	gracefol	2145	2149	77	3 178	
Oct 13 Sun	sentinel3b	2208	2212	34	233 313	
Oct 13 Sun	icesat2	2212	2216	54	199 345	
Oct 13 Sun	swarmb	2238	2242	47	215 344	
Oct 13 Sun	technosat	2241	2246	72	19 191	
Oct 13 Sun	lageos1	2309	2350	67	107 325	

Oct 13 Sun	snet1	2334	2338	47	42 164	NE-S
Oct 13 Sun	lageos2	2359	0044	55	186 62	S -NE
Oct 14 Mon	swarma	0016	0018	26	57 117	NE-SE
Oct 14 Mon	cryosat2	0045	0050	38	122 18	SE-N
Oct 14 Mon	larets	0052	0057	57	139 360	SE-N
Oct 14 Mon	starlette	0121	0124	28	154 112	SE-E
Oct 14 Mon	cryosat2	0225	0228	30	256 318	W -NW
Oct 14 Mon	lageos1	0244	0324	54	189 325	S -NW
Oct 14 Mon	beaconc	0246	0252	31	185 117	S -SE
Oct 14 Mon	starlette	0307	0315	62	229 85	SW-E

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Date	Satellite	Start	End	Elev	Direction	Observer
Oct 14 Mon	lageos2	0400	0449	86	259 86 W -E	CP
Oct 14 Mon	stella	0419	0424	43	48 158	NE-S
Oct 14 Mon	saral	0434	0440	47	128 2	SE-N
Oct 14 Mon	beaconc	0437	0446	42	231 121	SW-SE
Oct 14 Mon	starlette	0456	0505	82	265 94	W -E
Oct 14 Mon	hy2b	0528	0530	27	86 117	E -SE
Oct 14 Mon	kompsat5	0545	0549	36	215 321	SW-NW
Oct 14 Mon	hy2a	0551	0557	37	55 152	NE-SE
Oct 14 Mon	stella	0559	0603	33	333 254	NW-W
Oct 14 Mon	geoik2	0608	0614	38	49 151	NE-SE
Oct 14 Mon	beaconc	0631	0638	34	238 153	SW-SE
Oct 14 Mon	envisat	0639	0644	45	46 161	NE-S
Oct 14 Mon	paz	0642	0646	74	1 202	N -S
Oct 14 Mon	starlette	0645	0654	63	274 128	W -SE
Oct 14 Mon	hy2b	0709	0716	63	1 217	N -SW
Oct 14 Mon	tandemx	0709	0712	39	330 236	NW-SW
Oct 14 Mon	terrasarx	0709	0712	38	333 238	NW-SW
Oct 14 Mon	ajisai	0720	0731	55	213 81	SW-E
Oct 14 Mon	hy2a	0734	0740	46	348 235	N -SW
Oct 14 Mon	geoik2	0751	0757	44	345 235	N -SW
Oct 14 Mon	lageos2	0805	0852	70	296 150	NW-SE
Oct 14 Mon	envisat	0819	0822	30	318 258	NW-W
Oct 14 Mon	lares	0847	0858	68	191 39	S -NE
Oct 14 Mon	ajisai	0921	0933	80	258 87	W -E
Oct 14 Mon	technosat	0936	0941	75	173 342	S -N
Oct 14 Mon	jason2	0938	0948	81	214 40	SW-NE
Oct 14 Mon	jason3	0946	0954	39	159 62	S -NE
Oct 14 Mon	gracefol	1001	1005	68	188 355	S -N
Oct 14 Mon	swarmb	1002	1006	66	340 190	N -S
Oct 14 Mon	sentinel3b	1016	1022	59	32 177	NE-S
Oct 14 Mon	snet1	1027	1032	60	141 356	SE-N
Oct 14 Mon	lares	1047	1056	43	272 19	W -N
Oct 14 Mon	sentinel3a	1055	1101	68	5 212	N -SW
Oct 14 Mon	ajisai	1123	1135	75	277 116	W -SE

Oct 14 Mon	jason2	1135	1143	38	285	24	W	-NE
Oct 14 Mon	jason3	1141	1151	67	239	33	SW	-NE
Oct 14 Mon	ajisai	1325	1334	39	268	170	W	-S
Oct 14 Mon	jason3	1340	1347	32	307	26	NW	-NE
Oct 14 Mon	swarma	1356	1358	31	255	323	W	-NW
Oct 14 Mon	swarmc	1356	1358	35	255	330	W	-NW
Oct 14 Mon	cryosat2	1420	1425	47	334	217	NW	-SW
Oct 14 Mon	larets	1421	1426	69	28	183	NE	-S
Oct 14 Mon	lageos1	1451	1533	67	35	191	NE	-S
Oct 14 Mon	jason2	1530	1539	40	338	86	N	-E
Oct 14 Mon	stella	1543	1549	70	176	338	S	-N

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Date	Satellite	Start	End	Elev	Direction	Observer
Oct 14 Mon	lares	1648	1658	59	341 121 N	-SE MW
Oct 14 Mon	hy2b	1713	1721	81	164 343 S	-N
Oct 14 Mon	jason2	1725	1736	80	319 150 NW	-SE
Oct 14 Mon	paz	1725	1729	72	172 343 S	-N
Oct 14 Mon	jason3	1735	1745	52	335 108 NW	-E
Oct 14 Mon	hy2a	1739	1746	64	187 335 S	-NW
Oct 14 Mon	geoik2	1752	1800	63	181 336 S	-NW
Oct 14 Mon	terrasarx	1753	1756	40	224 321 SW	-NW
Oct 14 Mon	tandemx	1753	1756	40	228 323 SW	-NW
Oct 14 Mon	envisat	1758	1804	76	168 344 S	-N
Oct 14 Mon	saral	1820	1826	69	25 183 NE	-S
Oct 14 Mon	lageos1	1824	1903	60	38 268 NE	-W
Oct 14 Mon	lares	1846	1855	44	305 196 NW	-S
Oct 14 Mon	kompsat5	1852	1856	45	340 223 N	-SW
Oct 14 Mon	jason3	1931	1941	54	307 174 NW	-S
Oct 14 Mon	sentinel3b	2003	2006	27	78 25 E	-NE
Oct 14 Mon	sentinel3a	2040	2046	50	131 1 SE	-N
Oct 14 Mon	gracefol	2124	2128	52	32 162 NE	-S
Oct 14 Mon	sentinel3b	2141	2147	54	195 332 S	-NW
Oct 14 Mon	icesat2	2146	2150	71	162 3 S	-N
Oct 14 Mon	lageos1	2151	2228	56	80 317 E	-NW
Oct 14 Mon	lageos2	2218	2245	32	139 72 SE	-E
Oct 14 Mon	swarmb	2219	2223	71	199 356 S	-N
Oct 14 Mon	sentinel3a	2222	2225	28	251 304 W	-NW
Oct 14 Mon	technosat	2250	2255	79	9 200 N	-S
Oct 14 Mon	snet1	2338	2342	52	38 168 NE	-S
Oct 15 Tue	swarma	0109	0112	54	329 202 NW	-S
Oct 15 Tue	swarmc	0109	0112	65	336 193 NW	-S
Oct 15 Tue	lageos1	0118	0201	78	155 327 SE	-NW
Oct 15 Tue	larets	0129	0134	67	184 337 S	-NW
Oct 15 Tue	cryosat2	0133	0138	78	185 350 S	-N
Oct 15 Tue	starlette	0138	0145	39	192 90 S	-E
Oct 15 Tue	beaconc	0202	0207	28	177 123 S	-SE
Oct 15 Tue	lageos2	0203	0253	82	230 69 SW	-E
Oct 15 Tue	starlette	0326	0335	74	245 84 SW	-E
Oct 15 Tue	beaconc	0353	0401	41	224 122 SW	-SE
Oct 15 Tue	stella	0354	0356	27	85 122 E	-SE
Oct 15 Tue	saral	0405	0408	29	79 24 E	-NE

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Date	Satellite	Start	End	Elev	Direction	Observer
Oct 15 Tue	starlette	0515	0524	80	272 104 W -E	VS
Oct 15 Tue	stella	0532	0538	51	353 224 N -SW	
Oct 15 Tue	kompsat5	0542	0546	40	219 326 SW-NW	
Oct 15 Tue	saral	0543	0548	50	203 326 SW-NW	
Oct 15 Tue	beaconc	0547	0554	37	234 145 SW-SE	
Oct 15 Tue	hy2b	0548	0554	38	49 150 NE-SE	
Oct 15 Tue	lageos2	0609	0659	88	286 118 W -SE	
Oct 15 Tue	hy2a	0613	0620	53	37 169 NE-S	
Oct 15 Tue	geoik2	0623	0630	48	40 167 NE-S	
Oct 15 Tue	paz	0624	0629	70	23 185 NE-S	
Oct 15 Tue	ajisai	0627	0636	43	192 88 S -E	
Oct 15 Tue	terrasarx	0652	0656	57	349 211 N -SW	
Oct 15 Tue	tandemx	0652	0656	59	346 210 N -SW	
Oct 15 Tue	starlette	0705	0713	50	265 143 W -SE	
Oct 15 Tue	hy2b	0731	0738	46	351 232 N -SW	
Oct 15 Tue	envisat	0741	0747	55	356 217 N -SW	
Oct 15 Tue	lares	0745	0753	38	149 56 SE-NE	
Oct 15 Tue	hy2a	0757	0802	34	336 254 NW-W	
Oct 15 Tue	jason2	0800	0806	34	142 69 SE-E	
Oct 15 Tue	geoik2	0806	0812	36	342 245 N -SW	
Oct 15 Tue	ajisai	0827	0839	77	247 82 SW-E	
Oct 15 Tue	gracefol	0940	0944	66	153 7 SE-N	
Oct 15 Tue	lares	0941	0952	67	233 26 SW-NE	
Oct 15 Tue	swarmb	0942	0946	73	3 175 N -S	
Oct 15 Tue	technosat	0946	0951	61	189 338 S -N	
Oct 15 Tue	sentinel3b	0951	0956	37	59 156 NE-SE	
Oct 15 Tue	jason2	0953	1003	73	233 35 SW-NE	
Oct 15 Tue	jason3	1008	1018	57	183 48 S -NE	
Oct 15 Tue	lageos2	1015	1050	41	294 199 NW-S	
Oct 15 Tue	ajisai	1029	1041	82	274 105 W -E	
Oct 15 Tue	sentinel3a	1029	1036	76	22 189 N -S	
Oct 15 Tue	snet1	1031	1036	66	147 354 SE-N	
Oct 15 Tue	icesat2	1041	1045	39	334 217 NW-SW	
Oct 15 Tue	sentinel3b	1130	1135	37	344 245 N -SW	
Oct 15 Tue	jason2	1151	1158	33	303 24 NW-NE	
Oct 15 Tue	jason3	1204	1214	51	260 31 W -NE	
Oct 15 Tue	ajisai	1231	1241	50	272 151 W -SE	
Oct 15 Tue	swarma	1315	1319	69	181 3 S -N	
Oct 15 Tue	swarmc	1315	1319	69	170 6 S -N	
Oct 15 Tue	cryosat2	1329	1335	66	18 174 N -S	
Oct 15 Tue	lageos1	1330	1405	43	43 156 NE-SE	
Oct 15 Tue	larets	1458	1503	55	350 216 N -SW	
Oct 15 Tue	stella	1517	1523	70	145 350 SE-N	
Oct 15 Tue	lares	1544	1553	39	352 93 N -E	
Oct 15 Tue	jason2	1545	1554	48	337 98 NW-E	
Oct 15 Tue	jason3	1602	1609	32	345 65 N -NE	
Oct 15 Tue	hy2a	1619	1625	38	107 7 E -N	

Oct 15 Tue geoik2 1626 1631 34 101 16 E -N

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Date	Satellite	Start	End	Elev	Direction	Observer
Oct 15 Tue	lagesos1	1702	1744	75	33 241 NE-SW	RS
Oct 15 Tue	paz	1708	1712	60	146 356 SE-N	
Oct 15 Tue	envisat	1722	1727	49	122 3 SE-N	
Oct 15 Tue	terrasarx	1735	1739	63	184 334 S -NW	
Oct 15 Tue	tandemx	1735	1739	61	186 336 S -NW	
Oct 15 Tue	hy2b	1736	1743	63	188 334 S -NW	
Oct 15 Tue	jason2	1740	1750	63	312 168 NW-S	
Oct 15 Tue	lares	1741	1753	76	324 160 NW-S	
Oct 15 Tue	saral	1750	1755	39	57 158 NE-S	
Oct 15 Tue	jason3	1757	1808	69	327 126 NW-SE	
Oct 15 Tue	hy2a	1802	1808	44	210 322 SW-NW	
Oct 15 Tue	geoik2	1808	1815	51	200 330 S -NW	
Oct 15 Tue	komsat5	1848	1853	50	353 218 N -SW	
Oct 15 Tue	envisat	1903	1905	27	263 300 W -NW	
Oct 15 Tue	saral	1929	1934	36	339 243 N -SW	
Oct 15 Tue	jason3	1954	2002	37	295 200 NW-S	
Oct 15 Tue	sentinel3a	2016	2020	33	87 13 E -N	
Oct 15 Tue	lagesos1	2032	2108	51	59 303 NE-NW	
Oct 15 Tue	gracefol	2103	2105	32	66 129 NE-SE	
Oct 15 Tue	sentinel3b	2115	2121	74	165 344 S -N	
Oct 15 Tue	icesat2	2121	2124	37	126 27 SE-NE	
Oct 15 Tue	sentinel3a	2155	2200	44	216 324 SW-NW	
Oct 15 Tue	swarmb	2159	2203	69	171 7 S -N	
Oct 15 Tue	technosat	2300	2304	60	356 212 N -SW	
Oct 15 Tue	snet1	2342	2347	58	34 178 NE-S	
Oct 15 Tue	lagesos1	2356	0039	79	125 327 SE-NW	
Oct 16 Wed	lagesos2	0011	0058	61	196 62 S -NE	
Oct 16 Wed	swarma	0029	0032	52	33 155 NE-SE	
Oct 16 Wed	larets	0029	0033	36	104 12 E -N	
Oct 16 Wed	swarmc	0029	0032	43	43 150 NE-SE	
Oct 16 Wed	cryosat2	0043	0047	40	117 21 SE-N	
Oct 16 Wed	starlette	0157	0205	52	210 83 SW-E	
Oct 16 Wed	larets	0207	0210	32	243 309 SW-NW	
Oct 16 Wed	cryosat2	0222	0225	28	247 308 SW-NW	
Oct 16 Wed	beaconc	0309	0317	39	216 118 SW-SE	
Oct 16 Wed	lagesos1	0337	0410	39	214 316 SW-NW	
Oct 16 Wed	starlette	0345	0354	82	258 89 W -E	

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Date	Satellite	Start	End	Elev	Direction	Observer
Oct 16 Wed	lageos2	0412	0503	86	265 91 W -E	TS
Oct 16 Wed	beaconc	0502	0510	40	238 137 SW-SE	
Oct 16 Wed	stella	0505	0512	82	13 202 N -S	
Oct 16 Wed	saral	0511	0518	88	165 344 S -N	
Oct 16 Wed	starlette	0534	0543	71	275 117 W -SE	
Oct 16 Wed	ajisai	0534	0542	32	171 91 S -E	
Oct 16 Wed	kompsat5	0538	0542	44	204 322 SW-NW	
Oct 16 Wed	paz	0608	0611	44	59 162 NE-S	
Oct 16 Wed	hy2b	0610	0617	54	37 171 NE-S	
Oct 16 Wed	tandemx	0634	0639	86	14 194 N -S	
Oct 16 Wed	terrasarx	0635	0639	78	15 194 N -S	
Oct 16 Wed	hy2a	0636	0643	75	25 188 NE-S	
Oct 16 Wed	geoik2	0638	0645	61	30 177 NE-S	
Oct 16 Wed	envisat	0704	0710	71	23 186 NE-S	
Oct 16 Wed	starlette	0724	0731	37	262 166 W -S	
Oct 16 Wed	ajisai	0733	0745	69	233 80 SW-E	
Oct 16 Wed	hy2b	0754	0759	34	332 252 NW-W	
Oct 16 Wed	jason2	0813	0822	47	171 54 S -NE	
Oct 16 Wed	lageos2	0819	0904	64	297 159 NW-S	
Oct 16 Wed	lares	0837	0848	76	197 36 S -NE	
Oct 16 Wed	gracefol	0918	0922	39	135 19 SE-N	
Oct 16 Wed	swarmb	0923	0927	55	28 161 NE-S	
Oct 16 Wed	ajisai	0934	0946	86	269 96 W -E	
Oct 16 Wed	technosat	0956	1000	49	210 330 SW-NW	
Oct 16 Wed	sentinel3a	1004	1009	48	47 163 NE-S	
Oct 16 Wed	jason2	1008	1018	59	251 32 W -NE	
Oct 16 Wed	icesat2	1016	1020	77	354 192 N -S	
Oct 16 Wed	jason3	1030	1041	79	208 41 SW-NE	
Oct 16 Wed	snet1	1035	1040	73	152 351 SE-N	
Oct 16 Wed	lares	1037	1045	39	279 14 W -N	
Oct 16 Wed	sentinel3b	1104	1110	57	359 219 N -SW	
Oct 16 Wed	ajisai	1136	1148	62	278 133 W -SE	
Oct 16 Wed	sentinel3a	1144	1148	30	329 256 NW-W	
Oct 16 Wed	jason2	1207	1213	30	318 25 NW-NE	
Oct 16 Wed	jason3	1228	1236	40	284 25 W -NE	
Oct 16 Wed	swarma	1236	1238	31	96 35 E -NE	
Oct 16 Wed	laretts	1357	1402	42	46 161 NE-S	
Oct 16 Wed	jason2	1405	1411	30	348 55 N -NE	
Oct 16 Wed	cryosat2	1417	1422	43	339 224 N -SW	
Oct 16 Wed	stella	1451	1456	44	112 4 E -N	

OBSERVING SCHEDULE (Times are in U.T.)

Date	Satellite	Start	End	Elev	Direction	Observer
Oct 16 Wed	lageos1	1539	1623	82	33 212 NE-SW	JR
Oct 16 Wed	jason2	1600	1610	59	334 116 NW-SE	
Oct 16 Wed	hy2b	1616	1622	40	102 3 E -N	
Oct 16 Wed	jason3	1625	1633	39	346 83 N -E	
Oct 16 Wed	stella	1631	1635	31	232 309 SW-NW	
Oct 16 Wed	lares	1637	1648	65	337 128 NW-SE	
Oct 16 Wed	hy2a	1641	1648	54	129 357 SE-N	
Oct 16 Wed	geoik2	1641	1647	42	112 4 E -N	
Oct 16 Wed	paz	1651	1655	40	123 7 SE-N	
Oct 16 Wed	tandemx	1718	1722	71	160 349 S -N	
Oct 16 Wed	terrasarx	1718	1722	78	161 349 S -N	
Oct 16 Wed	jason2	1756	1804	46	297 187 NW-S	
Oct 16 Wed	hy2b	1758	1805	44	205 325 SW-NW	
Oct 16 Wed	jason3	1820	1831	86	320 146 NW-SE	
Oct 16 Wed	envisat	1824	1830	52	200 333 S -NW	
Oct 16 Wed	geoik2	1824	1829	40	221 315 SW-NW	
Oct 16 Wed	hy2a	1826	1830	31	241 307 SW-NW	
Oct 16 Wed	lares	1836	1844	39	299 205 NW-SW	
Oct 16 Wed	kompsat5	1845	1849	52	351 218 N -SW	
Oct 16 Wed	saral	1858	1904	61	356 215 N -SW	
Oct 16 Wed	lageos1	1912	1949	54	44 284 NE-W	
Oct 16 Wed	sentinel3b	2049	2055	58	138 357 SE-N	
Oct 16 Wed	sentinel3a	2128	2134	69	179 336 S -NW	
Oct 16 Wed	swarmb	2140	2144	51	142 14 SE-N	
Oct 16 Wed	gracefo1	2216	2218	30	291 234 W -SW	
Oct 16 Wed	lageos2	2227	2301	38	153 67 SE-NE	
Oct 16 Wed	icesat2	2230	2232	30	247 309 SW-NW	
Oct 16 Wed	lageos1	2236	2316	63	98 323 E -NW	
Oct 16 Wed	technosat	2309	2314	52	353 218 N -SW	
Oct 16 Wed	snet1	2346	2351	64	29 182 NE-S	
Oct 17 Thu	starlette	0029	0033	29	162 106 S -E	
Oct 17 Thu	larets	0105	0110	75	152 351 SE-N	
Oct 17 Thu	swarmc	0122	0125	32	312 222 NW-SW	
Oct 17 Thu	swarma	0123	0124	27	281 249 W -W	
Oct 17 Thu	cryosat2	0130	0136	67	187 349 S -N	
Oct 17 Thu	lageos1	0208	0250	62	177 326 S -NW	
Oct 17 Thu	starlette	0215	0224	66	234 83 SW-E	
Oct 17 Thu	beaconc	0225	0233	37	208 114 SW-SE	
Oct 17 Thu	lageos2	0217	0307	86	237 72 SW-E	
Oct 17 Thu	starlette	0404	0413	80	267 96 W -E	
Oct 17 Thu	beaconc	0418	0426	41	233 131 SW-SE	
Oct 17 Thu	stella	0439	0445	60	32 179 NE-S	
Oct 17 Thu	saral	0441	0446	53	127 2 SE-N	
Oct 17 Thu	kompsat5	0535	0539	45	206 328 SW-NW	
Oct 17 Thu	starlette	0554	0602	60	271 132 W -SE	
Oct 17 Thu	tandemx	0617	0621	57	30 171 NE-S	
Oct 17 Thu	terrasarx	0618	0622	56	42 177 NE-S	

OBSERVING SCHEDULE (Times are in U.T.)

Date	Satellite	Start	End	Elev	Direction	Observer
Oct 17 Thu	lageos2	0623	0713	84	289 126 W -SE	MW
Oct 17 Thu	envisat	0628	0633	37	56 155 NE-SE	
Oct 17 Thu	hy2b	0632	0639	75	24 188 NE-S	
Oct 17 Thu	ajisai	0639	0650	58	217 82 SW-E	
Oct 17 Thu	geoik2	0653	0701	73	21 191 N -S	

Oct 17 Thu	hy2a	0658	0706	75	12 206	N -SW
Oct 17 Thu	lares	0734	0743	44	158 51	S -NE
Oct 17 Thu	envisat	0807	0811	36	335 249	NW-W
Oct 17 Thu	jason2	0827	0837	62	191 47	S -NE
Oct 17 Thu	ajisai	0840	0852	83	260 88	W -E
Oct 17 Thu	jason3	0859	0906	34	146 65	SE-NE
Oct 17 Thu	swarmb	0903	0907	37	32 143	NE-SE
Oct 17 Thu	lares	0931	0942	60	241 26	SW-NE
Oct 17 Thu	sentinel3a	0939	0942	30	75 132	E -SE
Oct 17 Thu	icesat2	0950	0954	51	28 167	NE-S
Oct 17 Thu	technosat	1005	1009	40	211 320	SW-NW
Oct 17 Thu	jason2	1023	1032	48	265 26	W -NE
Oct 17 Thu	lageos2	1030	1100	35	290 211	W -SW
Oct 17 Thu	sentinel3b	1038	1045	84	16 197	N -S
Oct 17 Thu	snet1	1039	1044	80	158 349	S -N
Oct 17 Thu	ajisai	1042	1054	72	278 119	W -SE
Oct 17 Thu	jason3	1053	1103	74	232 35	SW-NE
Oct 17 Thu	sentinel3a	1118	1123	47	343 231	N -SW
Oct 17 Thu	ajisai	1245	1253	37	262 174	W -S
Oct 17 Thu	jason3	1252	1259	34	306 26	NW-NE
Oct 17 Thu	cryosat2	1326	1332	72	13 176	N -S
Oct 17 Thu	swarma	1328	1332	41	219 346	SW-N
Oct 17 Thu	swarmc	1328	1332	48	213 350	SW-N
Oct 17 Thu	lageos1	1417	1458	59	36 181	NE-S
Oct 17 Thu	jason2	1420	1426	33	349 62	N -NE
Oct 17 Thu	larets	1434	1439	81	15 195	N -S
Oct 17 Thu	lares	1533	1543	42	346 99	N -E
Oct 17 Thu	stella	1604	1609	51	204 326	SW-NW
Oct 17 Thu	jason2	1615	1625	73	328 130	NW-SE
Oct 17 Thu	hy2b	1637	1644	55	130 357	SE-N
Oct 17 Thu	jason3	1647	1656	48	337 98	NW-E
Oct 17 Thu	geoik2	1656	1702	52	125 0	SE-N
Oct 17 Thu	terrasarx	1701	1705	52	137 3	SE-N
Oct 17 Thu	tandemx	1701	1705	50	135 2	SE-N
Oct 17 Thu	hy2a	1703	1711	73	151 348	SE-N

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Date	Satellite	Start	End	Elev	Direction	Observer
Oct 17 Thu	lares	1731	1742	70	320 167	NW-S VS
Oct 17 Thu	envisat	1747	1753	74	155 349	SE-N
Oct 17 Thu	lageos1	1750	1830	64	36 259	NE-W
Oct 17 Thu	paz	1809	1811	26	251 303	W -NW
Oct 17 Thu	jason2	1811	1818	34	287 205	W -SW
Oct 17 Thu	hy2b	1822	1826	31	243 308	SW-NW
Oct 17 Thu	saral	1827	1833	77	23 190	NE-S
Oct 17 Thu	geoik2	1840	1844	31	240 307	SW-NW
Oct 17 Thu	kompsat5	1842	1846	58	348 213	N -SW
Oct 17 Thu	jason3	1843	1853	61	310 167	NW-S
Oct 17 Thu	sentinel3b	2024	2029	38	107 8	E -N
Oct 17 Thu	sentinel3a	2102	2109	74	152 349	SE-N

Oct 17 Thu	lageos1	2118	2155	54	72 313 E	-NW
Oct 17 Thu	swarmb	2121	2124	35	112 28 E	-NE
Oct 17 Thu	gracefo1	2154	2157	46	316 210 NW	-SW
Oct 17 Thu	icesat2	2204	2208	55	211 345 SW	-N
Oct 17 Thu	sentinel3b	2204	2209	37	225 321 SW	-NW
Oct 17 Thu	technosat	2319	2323	40	338 230 N	-SW
Oct 17 Thu	snet1	2350	2355	71	25 185 NE	-S
Oct 18 Fri	lageos2	0024	0112	67	204 63 SW	-NE
Oct 18 Fri	cryosat2	0040	0045	44	128 15 SE	-N
Oct 18 Fri	swarma	0042	0045	75	347 187 N	-S
Oct 18 Fri	swarmc	0042	0045	89	358 179 N	-S
Oct 18 Fri	lageos1	0044	0127	86	145 328 SE	-NW
Oct 18 Fri	starlette	0047	0053	40	190 93 S	-E
Oct 18 Fri	beaconc	0141	0148	34	199 118 S	-SE
Oct 18 Fri	larets	0142	0147	51	203 331 SW	-NW
Oct 18 Fri	cryosat2	0220	0223	27	257 314 W	-NW
Oct 18 Fri	starlette	0235	0243	75	247 86 SW	-E
Oct 18 Fri	beaconc	0333	0342	43	234 124 SW	-SE

OBSERVING SCHEDULE (Times are in U.T.)

Date	Satellite	Start	End	Elev	Direction	Observer
Oct 18 Fri	saral	0411	0415	32	89 14 E	-N RS
Oct 18 Fri	stella	0413	0418	38	56 155 NE	-SE
Oct 18 Fri	starlette	0424	0433	77	272 106 W	-E
Oct 18 Fri	lageos2	0427	0517	86	272 97 W	-E
Oct 18 Fri	lageos1	0439	0451	26	259 294 W	-NW
Oct 18 Fri	beaconc	0528	0534	32	229 159 SW	-S
Oct 18 Fri	kompsat5	0532	0536	52	210 333 SW	-NW
Oct 18 Fri	hy2a	0539	0543	30	63 128 NE	-SE
Oct 18 Fri	ajisai	0546	0556	46	196 83 S	-E
Oct 18 Fri	saral	0549	0555	44	204 327 SW	-NW
Oct 18 Fri	stella	0553	0557	36	332 247 NW	-SW
Oct 18 Fri	terrasarx	0601	0604	36	60 152 NE	-SE
Oct 18 Fri	tandemx	0601	0604	36	65 154 NE	-SE
Oct 18 Fri	starlette	0613	0621	47	268 149 W	-SE
Oct 18 Fri	hy2b	0654	0701	77	11 206 N	-SW
Oct 18 Fri	paz	0707	0711	38	341 229 N	-SW
Oct 18 Fri	geoik2	0709	0716	81	13 202 N	-S
Oct 18 Fri	hy2a	0721	0728	56	0 225 N	-SW
Oct 18 Fri	envisat	0730	0736	69	2 208 N	-SW

Oct 18 Fri	ajisai	0746	0758	77	249	83	W -E
Oct 18 Fri	lares	0826	0838	81	205	34	SW-NE
Oct 18 Fri	lageos2	0833	0917	59	297	168	NW-S
Oct 18 Fri	jason2	0842	0852	80	209	41	SW-NE
Oct 18 Fri	jason3	0920	0929	50	175	54	S -NE
Oct 18 Fri	icesat2	0925	0927	30	62	124	NE-SE
Oct 18 Fri	ajisai	0948	1000	79	275	107	W -E
Oct 18 Fri	gracefo1	1010	1013	37	244	335	SW-NW
Oct 18 Fri	sentinel3b	1012	1018	57	32	172	NE-S
Oct 18 Fri	technosat	1015	1018	32	228	306	SW-NW
Oct 18 Fri	lares	1027	1035	37	286	16	W -N
Oct 18 Fri	jason2	1039	1047	40	284	25	W -NE
Oct 18 Fri	snet1	1043	1048	87	163	347	S -N
Oct 18 Fri	sentinel3a	1051	1058	73	8	207	N -SW
Oct 18 Fri	jason3	1116	1126	56	255	32	W -NE
Oct 18 Fri	ajisai	1150	1200	48	272	154	W -SE
Oct 18 Fri	swarma	1248	1252	59	161	10	S -N
Oct 18 Fri	swarmc	1248	1251	52	149	20	SE-N
Oct 18 Fri	lageos1	1257	1327	37	48	140	NE-SE
Oct 18 Fri	jason3	1316	1321	30	324	21	NW-N
Oct 18 Fri	cryosat2	1415	1420	41	331	223	NW-SW
Oct 18 Fri	lares	1430	1436	30	1	64	N -NE
Oct 18 Fri	jason2	1434	1442	38	340	78	N -E
Oct 18 Fri	larets	1511	1515	43	335	232	NW-SW
Oct 18 Fri	jason3	1514	1520	31	346	55	N -NE
Oct 18 Fri	stella	1537	1543	75	169	342	S -N

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Date	Satellite	Start	End	Elev	Direction	Observer
Oct 18 Fri	lares	1627	1638	72	335 135	NW-SE TS
Oct 18 Fri	lageos1	1628	1711	81	33 231	NE-SW
Oct 18 Fri	jason2	1629	1640	86	320 146	NW-SE
Oct 18 Fri	terrasarx	1645	1648	35	98 13	E -N
Oct 18 Fri	tandemx	1645	1648	34	92 11	E -N
Oct 18 Fri	hy2b	1659	1706	76	150 349	SE-N
Oct 18 Fri	jason3	1709	1720	63	329 120	NW-SE
Oct 18 Fri	envisat	1711	1716	41	109 6	E -N
Oct 18 Fri	geoik2	1711	1718	66	141 351	SE-N
Oct 18 Fri	hy2a	1726	1734	74	172 340	S -N
Oct 18 Fri	paz	1751	1755	40	214 328	SW-NW
Oct 18 Fri	saral	1756	1801	44	47 159	NE-S
Oct 18 Fri	lares	1826	1833	34	292 214	W -SW
Oct 18 Fri	komsat5	1838	1843	64	360 208	N -SW
Oct 18 Fri	envisat	1850	1854	32	227 308	SW-NW
Oct 18 Fri	geoik2	1857	1858	25	272 287	W -W
Oct 18 Fri	jason3	1906	1915	43	297 188	NW-S
Oct 18 Fri	saral	1936	1940	32	326 250	NW-W
Oct 18 Fri	lageos1	1959	2035	52	53 297	NE-NW
Oct 18 Fri	sentinel3b	2000	2002	26	64 30	NE-NE
Oct 18 Fri	sentinel3a	2037	2042	47	121 6	SE-N
Oct 18 Fri	swarmb	2102	2103	25	92 64	E -NE
Oct 18 Fri	gracefo1	2132	2136	71	350 188	N -S
Oct 18 Fri	sentinel3b	2137	2143	58	189 332	S -NW
Oct 18 Fri	icesat2	2138	2142	63	165 359	S -N
Oct 18 Fri	technosat	2154	2156	28	88 133	E -SE

Oct 18 Fri	sentinel3a	2218	2221	30	244 301	SW-NW
Oct 18 Fri	swarmb	2237	2239	27	277 325	W -NW
Oct 18 Fri	lageos2	2237	2316	44	165 64	S -NE
Oct 18 Fri	lageos1	2323	0004	73	115 326	SE-NW
Oct 18 Fri	technosat	2329	2332	35	321 244	NW-SW
Oct 18 Fri	snet1	2354	2359	78	21 189	N -S
Oct 19 Sat	swarmc	0002	0004	32	54 123	NE-SE
Oct 19 Sat	swarma	0002	0005	38	46 144	NE-SE
Oct 19 Sat	larets	0041	0046	46	125 4	SE-N
Oct 19 Sat	beaconc	0057	0103	31	190 123	S -SE
Oct 19 Sat	starlette	0105	0113	53	218 85	SW-E
Oct 19 Sat	cryosat2	0128	0133	68	194 346	S -N
Oct 19 Sat	lageos2	0230	0321	89	245 76	SW-E
Oct 19 Sat	beaconc	0249	0258	43	228 119	SW-SE
Oct 19 Sat	starlette	0254	0303	78	260 90	W -E
Oct 19 Sat	lageos1	0300	0337	46	201 321	S -NW
Oct 19 Sat	beaconc	0443	0450	36	235 150	SW-SE
Oct 19 Sat	starlette	0443	0452	70	274 118	W -SE
Oct 19 Sat	ajisai	0453	0501	34	175 92	S -E
Oct 19 Sat	saral	0518	0524	73	173 341	S -N
Oct 19 Sat	stella	0526	0532	58	355 217	N -SW
Oct 19 Sat	kompsat5	0528	0532	55	194 331	S -NW
Oct 19 Sat	hy2b	0534	0538	30	63 128	NE-SE
Oct 19 Sat	geoik2	0544	0545	25	92 108	E -E
Oct 19 Sat	hy2a	0601	0607	43	45 155	NE-SE

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Date	Satellite	Start	End	Elev	Direction	Observer
Oct 19 Sat	starlette	0633	0639	35	256 172	W -S
Oct 19 Sat	lageos2	0637	0726	80	292 133	W -SE
Oct 19 Sat	paz	0650	0654	55	355 212	N -SW
Oct 19 Sat	ajisai	0652	0704	70	236 80	SW-E
Oct 19 Sat	envisat	0653	0659	59	32 178	NE-S
Oct 19 Sat	jason2	0704	0710	31	139 69	SE-E
Oct 19 Sat	hy2b	0716	0723	56	0 224	N -SW
Oct 19 Sat	tandemx	0718	0721	31	315 238	NW-SW
Oct 19 Sat	terrasarx	0718	0721	31	321 241	NW-SW
Oct 19 Sat	lares	0723	0733	49	168 47	S -NE
Oct 19 Sat	geoik2	0724	0731	66	4 214	N -SW
Oct 19 Sat	hy2a	0744	0750	40	348 245	N -SW
Oct 19 Sat	technosat	0849	0852	36	103 20	E -N
Oct 19 Sat	ajisai	0854	0906	84	270 97	W -E
Oct 19 Sat	jason2	0856	0907	78	227 36	SW-NE
Oct 19 Sat	lares	0921	0931	55	250 22	W -N
Oct 19 Sat	jason3	0942	0952	71	200 44	S -NE
Oct 19 Sat	sentinel3b	0947	0952	35	56 151	NE-SE
Oct 19 Sat	gracefol	0948	0952	59	210 351	SW-N
Oct 19 Sat	swarmb	0959	1003	35	321 214	NW-SW
Oct 19 Sat	sentinel3a	1026	1032	70	28 186	NE-S
Oct 19 Sat	icesat2	1033	1036	38	324 227	NW-SW
Oct 19 Sat	lageos2	1047	1108	30	282 228	W -SW
Oct 19 Sat	snet1	1047	1052	84	169 345	S -N
Oct 19 Sat	jason2	1055	1102	34	302 25	NW-NE
Oct 19 Sat	ajisai	1056	1107	60	275 136	W -SE
Oct 19 Sat	sentinel3b	1127	1132	40	336 236	NW-SW
Oct 19 Sat	jason3	1139	1148	44	273 26	W -NE
Oct 19 Sat	cryosat2	1324	1330	73	12 180	N -S
Oct 19 Sat	larets	1410	1415	54	41 174	NE-S
Oct 19 Sat	jason2	1449	1458	45	339 96	N -E
Oct 19 Sat	lageos1	1505	1548	75	33 202	NE-S

Oct 19 Sat	stella	1510	1516	63	142 356	SE-N
Oct 19 Sat	lares	1523	1533	46	347 106	N -E
Oct 19 Sat	jason3	1537	1544	36	348 73	N -E
Oct 19 Sat	hy2a	1607	1612	33	98 17	E -N
Oct 19 Sat	jason2	1644	1654	67	313 163	NW-S

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Date	Satellite	Start	End	Elev	Direction	Observer
Oct 19 Sat	hy2b	1721	1728	78	172 339 S -N	VS
Oct 19 Sat	lares	1721	1731	62	315 174 NW-S	
Oct 19 Sat	geoik2	1726	1733	83	157 346 SE-N	
Oct 19 Sat	jason3	1732	1743	85	323 140 NW-SE	
Oct 19 Sat	paz	1734	1738	63	192 339 S -N	
Oct 19 Sat	hy2a	1749	1756	55	193 329 S -NW	
Oct 19 Sat	tandemx	1802	1804	31	246 306 SW-NW	
Oct 19 Sat	terrasarx	1802	1805	32	239 319 SW-NW	
Oct 19 Sat	envisat	1812	1818	65	183 335 S -NW	
Oct 19 Sat	kompsat5	1835	1839	61	0 207 N -SW	
Oct 19 Sat	lageos1	1838	1916	57	41 276 NE-W	
Oct 19 Sat	saral	1904	1910	52	356 221 N -SW	
Oct 19 Sat	jason3	1930	1935	28	277 221 W -SW	
Oct 19 Sat	sentinel3a	2012	2016	31	91 17 E -N	
Oct 19 Sat	gracefol	2110	2114	61	14 168 N -S	
Oct 19 Sat	sentinel3b	2111	2117	82	161 346 S -N	
Oct 19 Sat	icesat2	2113	2116	41	120 19 SE-N	
Oct 19 Sat	sentinel3a	2151	2156	47	208 323 SW-NW	
Oct 19 Sat	technosat	2203	2206	35	71 148 E -SE	
Oct 19 Sat	lageos1	2203	2242	59	89 320 E -NW	
Oct 19 Sat	swarmb	2216	2220	37	227 340 SW-N	
Oct 19 Sat	starlette	2337	2342	30	172 101 S -E	
Oct 19 Sat	technosat	2339	2341	28	305 258 NW-W	
Oct 19 Sat	snet1	2358	0003	85	17 193 N -S	
Oct 20 Sun	beaconc	0014	0018	27	172 129 S -SE	
Oct 20 Sun	lageos2	0037	0126	72	213 64 SW-NE	
Oct 20 Sun	cryosat2	0037	0043	45	138 10 SE-N	
Oct 20 Sun	swarma	0055	0058	37	317 218 NW-SW	
Oct 20 Sun	swarmc	0055	0058	43	320 210 NW-SW	
Oct 20 Sun	larets	0117	0123	78	168 344 S -N	
Oct 20 Sun	starlette	0124	0132	66	235 85 SW-E	
Oct 20 Sun	lageos1	0133	0216	70	166 327 S -NW	
Oct 20 Sun	beaconc	0205	0213	41	220 120 SW-SE	
Oct 20 Sun	cryosat2	0218	0220	25	267 305 W -NW	
Oct 20 Sun	starlette	0313	0322	82	268 97 W -E	
Oct 20 Sun	beaconc	0358	0406	39	240 142 SW-SE	
Oct 20 Sun	ajisai	0403	0404	25	130 120 SE-SE	

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Date	Satellite	Start	End	Elev	Direction	Observer
Oct 20 Sun	lageos2	0441	0532	87	277 104 W -E	
Oct 20 Sun	saral	0447	0453	57	137 355 SE-N	
Oct 20 Sun	stella	0459	0505	80	17 196 N -S	
Oct 20 Sun	starlette	0502	0511	58	273 133 W -SE	
Oct 20 Sun	komsat5	0525	0529	59	195 336 S -NW	
Oct 20 Sun	hy2b	0556	0602	42	53 159 NE-S	
Oct 20 Sun	ajisai	0558	0610	60	221 79 SW-E	
Oct 20 Sun	geoik2	0558	0602	31	70 137 E -SE	
Oct 20 Sun	envisat	0617	0621	30	65 140 NE-SE	
Oct 20 Sun	hy2a	0623	0631	61	29 179 NE-S	
Oct 20 Sun	paz	0633	0637	66	16 193 N -S	
Oct 20 Sun	tandemx	0700	0704	46	349 223 N -SW	
Oct 20 Sun	terrasarx	0701	0704	47	332 225 NW-SW	
Oct 20 Sun	jason2	0717	0726	43	166 55 S -NE	
Oct 20 Sun	geoik2	0739	0746	53	358 226 N -SW	
Oct 20 Sun	hy2b	0739	0745	41	342 239 N -SW	
Oct 20 Sun	envisat	0755	0801	43	350 230 N -SW	
Oct 20 Sun	ajisai	0759	0811	85	262 90 W -E	
Oct 20 Sun	hy2a	0808	0812	30	325 263 NW-W	
Oct 20 Sun	lares	0816	0827	87	213 32 SW-NE	
Oct 20 Sun	lageos2	0847	0929	53	296 177 NW-S	
Oct 20 Sun	technosat	0858	0902	42	121 8 SE-N	
Oct 20 Sun	jason2	0911	0922	62	243 33 SW-NE	
Oct 20 Sun	gracefo1	0926	0930	66	175 2 S -N	
Oct 20 Sun	swarmb	0940	0943	54	324 205 NW-SW	
Oct 20 Sun	sentinel3a	1000	1006	44	45 165 NE-S	
Oct 20 Sun	ajisai	1001	1013	71	278 122 W -SE	
Oct 20 Sun	jason3	1004	1015	81	223 37 SW-NE	
Oct 20 Sun	icesat2	1007	1011	66	355 196 N -S	
Oct 20 Sun	lares	1017	1024	34	293 11 NW-N	
Oct 20 Sun	snet1	1051	1056	77	174 342 S -N	
Oct 20 Sun	sentinel3b	1100	1107	62	3 213 N -SW	
Oct 20 Sun	jason2	1111	1116	30	319 18 NW-N	
Oct 20 Sun	sentinel3a	1140	1144	33	335 258 NW-W	
Oct 20 Sun	jason3	1203	1211	36	294 27 NW-NE	
Oct 20 Sun	ajisai	1204	1212	35	262 178 W -S	
Oct 20 Sun	cryosat2	1234	1238	30	53 131 NE-SE	
Oct 20 Sun	swarma	1301	1305	54	204 353 SW-N	
Oct 20 Sun	swarmc	1301	1305	65	195 358 S -N	
Oct 20 Sun	lageos1	1343	1422	51	39 169 NE-S	
Oct 20 Sun	cryosat2	1413	1417	38	321 230 NW-SW	
Oct 20 Sun	lares	1419	1426	32	355 70 N -E	
Oct 20 Sun	stella	1445	1450	39	103 4 E -N	
Oct 20 Sun	larets	1446	1452	65	6 206 N -SW	
Oct 20 Sun	jason2	1504	1514	56	336 113 NW-SE	
Oct 20 Sun	jason3	1559	1608	45	339 94 N -E	

Oct 20 Sun hy2b 1602 1606 32 86 19 E -N

OBSERVING SCHEDULE (Times are in U.T.)

Date	Satellite	Start	End	Elev	Direction	Observer
Oct 20 Sun	lares	1616	1628	77	331 142 NW-SE	TS
Oct 20 Sun	stella	1625	1629	35	233 314 SW-NW	
Oct 20 Sun	hy2a	1629	1636	45	118 360 SE-N	
Oct 20 Sun	jason2	1659	1709	50	305 178 NW-S	
Oct 20 Sun	paz	1716	1721	80	160 349 S -N	
Oct 20 Sun	lageos1	1716	1757	69	34 250 NE-W	
Oct 20 Sun	envisat	1736	1742	65	141 353 SE-N	
Oct 20 Sun	geoik2	1741	1748	77	172 339 S -N	
Oct 20 Sun	hy2b	1743	1750	56	191 329 S -NW	
Oct 20 Sun	terrasarx	1744	1748	48	199 330 S -NW	
Oct 20 Sun	tandemx	1744	1748	48	203 332 SW-NW	
Oct 20 Sun	jason3	1755	1805	69	313 160 NW-S	
Oct 20 Sun	hy2a	1813	1818	38	224 314 SW-NW	
Oct 20 Sun	lares	1816	1822	30	286 222 W -SW	
Oct 20 Sun	kompsat5	1831	1836	74	7 202 N -S	
Oct 20 Sun	saral	1833	1839	76	17 195 N -S	
Oct 20 Sun	lageos1	2045	2121	52	65 309 NE-NW	
Oct 20 Sun	sentinel3b	2046	2051	56	128 0 SE-N	
Oct 20 Sun	gracefo1	2049	2052	41	45 146 NE-SE	
Oct 20 Sun	sentinel3a	2124	2131	75	174 340 S -N	
Oct 20 Sun	swarmb	2157	2201	57	219 352 SW-N	
Oct 20 Sun	technosat	2212	2216	42	53 162 NE-S	
Oct 20 Sun	icesat2	2222	2224	27	260 315 W -NW	
Oct 20 Sun	sentinel3b	2228	2229	25	267 285 W -W	
Oct 20 Sun	lageos2	2248	2330	49	176 63 S -NE	
Oct 20 Sun	starlette	2355	0002	43	199 89 S -E	
Oct 21 Mon	snet1	0002	0007	86	13 197 N -S	
Oct 21 Mon	lageos1	0010	0053	86	135 328 SE-NW	
Oct 21 Mon	swarmc	0015	0018	65	21 164 N -S	
Oct 21 Mon	swarma	0015	0018	77	8 172 N -S	
Oct 21 Mon	larets	0018	0021	30	93 27 E -NE	
Oct 21 Mon	beaconc	0121	0129	39	212 115 SW-SE	
Oct 21 Mon	cryosat2	0125	0131	61	194 346 S -N	
Oct 21 Mon	starlette	0143	0152	77	251 86 W -E	
Oct 21 Mon	larets	0155	0159	38	220 318 SW-NW	
Oct 21 Mon	lageos2	0244	0336	88	252 81 W -E	
Oct 21 Mon	beaconc	0314	0322	41	235 135 SW-SE	
Oct 21 Mon	starlette	0332	0341	78	273 108 W -E	
Oct 21 Mon	lageos1	0356	0422	32	232 309 SW-NW	
Oct 21 Mon	saral	0417	0421	35	99 17 E -N	
Oct 21 Mon	stella	0433	0439	55	40 175 NE-S	
Oct 21 Mon	ajisai	0505	0515	48	201 84 S -E	
Oct 21 Mon	beaconc	0509	0512	26	223 190 SW-S	
Oct 21 Mon	kompsat5	0521	0526	67	182 339 S -N	
Oct 21 Mon	starlette	0522	0529	45	264 155 W -SE	

OBSERVING SCHEDULE (Times are in U.T.)

Date	Satellite	Start	End	Elev	Direction	Observer
Oct 21 Mon	saral	0556	0601	40	217 321 SW-NW	CP
Oct 21 Mon	geoik2	0612	0618	40	47 154 NE-SE	
Oct 21 Mon	paz	0616	0620	52	38 175 NE-S	
Oct 21 Mon	hy2b	0617	0624	59	31 175 NE-S	
Oct 21 Mon	terrasarx	0643	0648	73	6 202 N -S	
Oct 21 Mon	tandemx	0643	0647	69	5 204 N -SW	
Oct 21 Mon	hy2a	0646	0654	80	18 196 N -S	
Oct 21 Mon	lageos2	0651	0739	75	294 142 NW-SE	
Oct 21 Mon	ajisai	0705	0717	80	252 84 W -E	
Oct 21 Mon	lares	0712	0723	55	177 43 S -NE	
Oct 21 Mon	envisat	0718	0724	83	12 200 N -S	
Oct 21 Mon	jason2	0731	0741	57	186 48 S -NE	
Oct 21 Mon	geoik2	0755	0801	42	344 238 N -SW	
Oct 21 Mon	hy2b	0801	0806	30	336 259 NW-W	
Oct 21 Mon	jason3	0832	0841	44	169 57 S -NE	
Oct 21 Mon	gracefol	0905	0908	52	135 17 SE-N	
Oct 21 Mon	ajisai	0907	0919	78	276 109 W -E	
Oct 21 Mon	technosat	0907	0912	54	138 359 SE-N	
Oct 21 Mon	lares	0910	0921	50	252 23 W -NE	
Oct 21 Mon	swarmb	0920	0924	66	352 185 N -S	
Oct 21 Mon	jason2	0927	0936	50	263 27 W -NE	
Oct 21 Mon	icesat2	0942	0946	60	30 172 NE-S	
Oct 21 Mon	jason3	1027	1038	62	244 33 SW-NE	
Oct 21 Mon	sentinel3b	1034	1041	83	18 193 N -S	
Oct 21 Mon	snet1	1055	1100	70	179 339 S -N	
Oct 21 Mon	ajisai	1109	1119	46	273 158 W -S	
Oct 21 Mon	sentinel3a	1114	1120	50	349 224 N -SW	
Oct 21 Mon	swarma	1221	1224	44	143 26 SE-NE	
Oct 21 Mon	swarmc	1221	1224	38	134 29 SE-NE	
Oct 21 Mon	lageos1	1225	1248	30	56 123 NE-SE	
Oct 21 Mon	jason3	1227	1233	31	313 21 NW-N	
Oct 21 Mon	cryosat2	1321	1327	83	8 182 N -S	
Oct 21 Mon	jason2	1324	1330	32	351 61 N -NE	
Oct 21 Mon	larets	1346	1350	33	57 145 NE-SE	
Oct 21 Mon	jason3	1426	1432	30	347 53 N -NE	
Oct 21 Mon	lares	1512	1522	50	342 108 N -E	
Oct 21 Mon	jason2	1518	1529	70	327 127 NW-SE	
Oct 21 Mon	larets	1524	1527	35	322 250 NW-W	
Oct 21 Mon	lageos1	1553	1637	88	32 222 NE-SW	
Oct 21 Mon	stella	1557	1603	57	190 331 S -NW	
Oct 21 Mon	jason3	1621	1632	58	331 115 NW-SE	
Oct 21 Mon	hy2b	1623	1629	43	112 3 E -N	
Oct 21 Mon	hy2a	1651	1659	61	140 352 SE-N	
Oct 21 Mon	paz	1700	1703	52	122 6 SE-N	
Oct 21 Mon	envisat	1700	1704	33	98 17 E -N	

Date	Satellite	Start	End	Elev	Direction	Observer
Oct 21 Mon	lares	1710	1721	55	314 179 NW-S	VS
Oct 21 Mon	jason2	1715	1722	37	288 201 W -S	
Oct 21 Mon	terrasarx	1727	1731	65	174 343 S -N	
Oct 21 Mon	tandemx	1727	1731	71	175 343 S -N	
Oct 21 Mon	geoik2	1756	1804	60	185 335 S -NW	
Oct 21 Mon	saral	1802	1808	48	39 168 NE-S	
Oct 21 Mon	hy2b	1806	1812	39	217 319 SW-NW	
Oct 21 Mon	jason3	1818	1827	49	301 182 NW-S	
Oct 21 Mon	kompsat5	1828	1833	77	10 199 N -S	
Oct 21 Mon	hy2a	1837	1840	27	253 298 W -NW	
Oct 21 Mon	envisat	1839	1843	39	224 316 SW-NW	
Oct 21 Mon	lageos1	1925	2002	52	49 291 NE-W	
Oct 21 Mon	saral	1943	1946	29	313 258 NW-W	
Oct 21 Mon	sentinel3b	2020	2025	36	109 13 E -N	
Oct 21 Mon	gracefol	2028	2030	27	73 125 E -SE	
Oct 21 Mon	sentinel3a	2059	2105	69	145 351 SE-N	
Oct 21 Mon	lageos2	2113	2128	27	118 81 SE-E	
Oct 21 Mon	swarmb	2137	2141	65	185 360 S -N	
Oct 21 Mon	icesat2	2155	2159	50	204 338 SW-N	
Oct 21 Mon	sentinel3b	2200	2205	40	218 320 SW-NW	
Oct 21 Mon	technosat	2221	2226	53	36 174 NE-S	
Oct 21 Mon	lageos1	2249	2330	67	107 325 E -NW	
Oct 21 Mon	swarma	2335	2337	28	55 118 NE-SE	
Oct 22 Tue	snet1	0006	0011	79	9 201 N -S	
Oct 22 Tue	starlette	0014	0022	56	218 83 SW-E	
Oct 22 Tue	cryosat2	0035	0040	50	136 12 SE-N	
Oct 22 Tue	beaconc	0037	0044	37	203 118 SW-SE	
Oct 22 Tue	lageos2	0050	0140	77	221 66 SW-NE	
Oct 22 Tue	larets	0054	0059	59	135 356 SE-N	
Oct 22 Tue	starlette	0202	0211	82	262 91 W -E	
Oct 22 Tue	lageos1	0224	0304	54	189 325 S -NW	
Oct 22 Tue	beaconc	0229	0238	42	237 128 SW-SE	
Oct 22 Tue	starlette	0352	0400	67	272 122 W -SE	
Oct 22 Tue	stella	0407	0411	33	63 143 NE-SE	
Oct 22 Tue	ajisai	0412	0420	37	179 92 S -E	
Oct 22 Tue	beaconc	0424	0429	30	230 172 SW-S	

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Date	Satellite	Start	End	Elev	Direction	Observer
Oct 22 Tue	lageos2	0455	0546	88	281 111 W -E	TS
Oct 22 Tue	kompsat5	0518	0522	64	181 339 S -N	
Oct 22 Tue	saral	0524	0530	70	178 337 S -NW	
Oct 22 Tue	hy2a	0528	0530	25	84 114 E -SE	

Oct 22 Tue	starlette	0542	0547	33	249 179	W -S
Oct 22 Tue	stella	0546	0551	41	346 240	N -SW
Oct 22 Tue	paz	0559	0602	35	56 148	NE-SE
Oct 22 Tue	lares	0611	0617	30	129 65	SE-NE
Oct 22 Tue	ajisai	0611	0623	72	239 81	SW-E
Oct 22 Tue	terrasarx	0626	0630	71	23 183	NE-S
Oct 22 Tue	tandemx	0626	0630	66	25 184	NE-S
Oct 22 Tue	geoik2	0627	0634	52	37 169	NE-S
Oct 22 Tue	hy2b	0639	0647	76	19 195	N -S
Oct 22 Tue	envisat	0642	0647	49	43 164	NE-S
Oct 22 Tue	hy2a	0709	0716	67	5 214	N -SW
Oct 22 Tue	jason2	0745	0756	76	205 42	SW-NE
Oct 22 Tue	lares	0805	0817	77	219 30	SW-NE
Oct 22 Tue	geoik2	0810	0815	34	341 257	N -W
Oct 22 Tue	ajisai	0813	0825	81	271 99	W -E
Oct 22 Tue	gracefol	0844	0846	32	98 36	E -NE
Oct 22 Tue	jason3	0854	0904	64	193 47	S -NE
Oct 22 Tue	swarmb	0900	0905	70	8 170	N -S
Oct 22 Tue	lageos2	0901	0940	47	296 187	NW-S
Oct 22 Tue	icesat2	0917	0919	32	72 134	E -SE
Oct 22 Tue	technosat	0917	0921	61	144 356	SE-N
Oct 22 Tue	jason2	0942	0951	42	275 26	W -NE
Oct 22 Tue	lares	1007	1014	32	299 13	NW-N
Oct 22 Tue	sentinel3b	1009	1015	53	41 173	NE-S
Oct 22 Tue	ajisai	1015	1026	58	276 139	W -SE
Oct 22 Tue	sentinel3a	1048	1054	72	9 204	N -SW
Oct 22 Tue	jason3	1051	1100	47	268 27	W -NE
Oct 22 Tue	snet1	1059	1104	63	183 337	S -NW
Oct 22 Tue	cryosat2	1232	1235	33	60 126	NE-SE
Oct 22 Tue	swarma	1315	1317	30	256 321	W -NW
Oct 22 Tue	swarmc	1315	1317	34	256 328	W -NW
Oct 22 Tue	jason2	1338	1346	37	341 77	N -E
Oct 22 Tue	lares	1409	1416	34	358 76	N -E
Oct 22 Tue	cryosat2	1410	1415	36	328 228	NW-SW
Oct 22 Tue	larets	1422	1428	65	24 186	NE-S
Oct 22 Tue	lageos1	1431	1513	67	35 191	NE-S
Oct 22 Tue	jason3	1449	1456	34	349 70	N -E
Oct 22 Tue	stella	1530	1537	85	161 345	S -N
Oct 22 Tue	jason2	1533	1544	87	322 142	NW-SE

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Date	Satellite	Start	End	Elev	Direction	Observer
Oct 22 Tue	lares	1606	1617	87	329 148	NW-SE CP
Oct 22 Tue	geoik2	1630	1635	36	103 15	E -N
Oct 22 Tue	paz	1643	1646	34	102 16	E -N
Oct 22 Tue	jason3	1644	1655	77	326 133	NW-SE
Oct 22 Tue	hy2b	1644	1651	60	138 356	SE-N
Oct 22 Tue	terrasarx	1710	1714	58	146 355	SE-N
Oct 22 Tue	tandemx	1710	1714	63	143 354	SE-N
Oct 22 Tue	hy2a	1714	1721	86	160 344	S -N
Oct 22 Tue	envisat	1801	1807	73	172 342	S -N
Oct 22 Tue	lageos1	1804	1843	60	38 268	NE-W
Oct 22 Tue	lares	1807	1810	26	270 239	W -SW

Oct 22 Tue	geoik2	1812	1819	48	203 329	SW-NW
Oct 22 Tue	kompsat5	1825	1829	71	13 196	N -S
Oct 22 Tue	hy2b	1830	1833	28	254 301	W -NW
Oct 22 Tue	jason3	1841	1848	33	288 209	W -SW
Oct 22 Tue	saral	1911	1916	48	345 228	N -SW
Oct 22 Tue	sentinel3a	2033	2039	43	121 2	SE-N
Oct 22 Tue	swarmb	2117	2122	66	165 9	S -N
Oct 22 Tue	icesat2	2130	2134	80	169 357	S -N
Oct 22 Tue	lageos1	2131	2208	56	80 317	E -NW
Oct 22 Tue	sentinel3b	2133	2140	64	183 337	S -NW
Oct 22 Tue	gracefol	2140	2143	37	321 225	NW-SW
Oct 22 Tue	sentinel3a	2214	2218	31	237 311	SW-NW
Oct 22 Tue	technosat	2230	2235	62	24 180	NE-S
Oct 22 Tue	starlette	2246	2251	32	168 96	S -E
Oct 22 Tue	lageos2	2300	2345	55	185 62	S -NE
Oct 22 Tue	beaconc	2353	0000	33	195 115	S -SE
Oct 23 Wed	snet1	0010	0015	72	6 205	N -SW
Oct 23 Wed	swarma	0028	0031	50	327 205	NW-SW
Oct 23 Wed	swarmc	0028	0031	60	333 196	NW-S
Oct 23 Wed	starlette	0033	0041	69	237 84	SW-E
Oct 23 Wed	lageos1	0058	0141	78	155 327	SE-NW
Oct 23 Wed	cryosat2	0123	0128	59	202 341	S -N
Oct 23 Wed	larets	0130	0136	61	183 338	S -N
Oct 23 Wed	beaconc	0145	0154	43	231 122	SW-SE
Oct 23 Wed	starlette	0222	0230	78	269 99	W -E
Oct 23 Wed	lageos2	0259	0350	86	259 85	W -E
Oct 23 Wed	ajisai	0321	0325	27	142 103	SE-E
Oct 23 Wed	beaconc	0339	0346	34	236 156	SW-SE
Oct 23 Wed	starlette	0411	0419	55	270 138	W -SE
Oct 23 Wed	saral	0453	0459	66	146 354	SE-N
Oct 23 Wed	kompsat5	0514	0519	76	172 343	S -N
Oct 23 Wed	ajisai	0517	0529	62	225 80	SW-E
Oct 23 Wed	stella	0519	0525	66	5 215	N -SW
Oct 23 Wed	hy2a	0549	0555	35	54 150	NE-SE
Oct 23 Wed	terrasarx	0609	0613	45	39 164	NE-S
Oct 23 Wed	tandemx	0609	0613	43	43 166	NE-S
Oct 23 Wed	geoik2	0642	0649	65	28 180	NE-S

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Date	Satellite	Start	End	Elev	Direction	Observer
Oct 23 Wed	hy2b	0701	0709	68	8 211 N	-SW VS
Oct 23 Wed	lares	0702	0712	61	182 42 S	-NE
Oct 23 Wed	lageos2	0705	0752	70	296 150	NW-SE
Oct 23 Wed	paz	0716	0719	32	325 242	NW-SW
Oct 23 Wed	ajisai	0719	0731	84	264 91 W	-E
Oct 23 Wed	hy2a	0732	0738	48	351 234 N	-SW
Oct 23 Wed	envisat	0744	0750	52	353 220 N	-SW
Oct 23 Wed	jason2	0800	0811	83	223 38	SW-NE
Oct 23 Wed	swarmb	0841	0845	44	27 153	NE-SE
Oct 23 Wed	lares	0900	0910	46	260 19 W	-N
Oct 23 Wed	jason3	0916	0927	85	216 39	SW-NE
Oct 23 Wed	ajisai	0921	0932	70	277 125 W	-SE
Oct 23 Wed	technosat	0926	0931	84	161 348 S	-N
Oct 23 Wed	sentinel3b	0944	0948	33	70 145 E	-SE
Oct 23 Wed	gracefol	0957	0959	30	266 322 W	-NW
Oct 23 Wed	jason2	0958	1006	35	293 26	NW-NE
Oct 23 Wed	sentinel3a	1022	1028	64	28 182	NE-S
Oct 23 Wed	icesat2	1025	1028	35	312 225	NW-SW

Oct 23	Wed	snet1	1103	1108	57	188	334	S	-NW
Oct 23	Wed	jason3	1115	1123	38	291	27	W	-NE
Oct 23	Wed	sentinel3b	1123	1128	43	342	236	N	-SW
Oct 23	Wed	ajisai	1124	1131	33	255	182	W	-S
Oct 23	Wed	swarmc	1234	1238	71	174	5	S	-N
Oct 23	Wed	swarma	1234	1238	68	185	1	S	-N
Oct 23	Wed	lageos1	1310	1345	44	43	156	NE	-SE
Oct 23	Wed	cryosat2	1319	1325	74	6	186	N	-S
Oct 23	Wed	jason2	1353	1402	43	340	94	N	-E
Oct 23	Wed	larets	1459	1504	54	354	220	N	-SW
Oct 23	Wed	lares	1502	1512	54	343	115	N	-SE
Oct 23	Wed	stella	1504	1510	55	134	358	SE	-N
Oct 23	Wed	jason3	1511	1520	41	340	89	N	-E
Oct 23	Wed	jason2	1548	1558	72	315	158	NW	-S

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Date	Satellite	Start	End	Elev	Direction	Observer	
Oct 23	Wed	lageos1	1642	1724	75	33 241 NE-SW	TS
Oct 23	Wed	geoik2	1645	1651	44	115 3 SE-N	
Oct 23	Wed	terrasarx	1653	1657	41	123 6 SE-N	
Oct 23	Wed	tandemx	1653	1657	42	118 4 SE-N	
Oct 23	Wed	lares	1700	1710	49	308 187 NW-S	
Oct 23	Wed	hy2b	1706	1714	78	157 345 SE-N	
Oct 23	Wed	jason3	1707	1717	76	317 153 NW-SE	
Oct 23	Wed	envisat	1725	1730	53	126 1 SE-N	
Oct 23	Wed	hy2a	1737	1744	66	184 335 S -NW	
Oct 23	Wed	paz	1800	1803	33	235 318 SW-NW	
Oct 23	Wed	kompsat5	1821	1826	84	17 192 N -S	
Oct 23	Wed	geoik2	1828	1833	38	223 314 SW-NW	
Oct 23	Wed	saral	1839	1846	83	13 200 N -S	
Oct 23	Wed	envisat	1906	1907	25	264 282 W -W	
Oct 23	Wed	sentinel3a	2009	2012	30	78 22 E -N	
Oct 23	Wed	lageos1	2012	2048	51	59 304 NE-NW	
Oct 23	Wed	swarmb	2058	2102	42	141 21 SE-N	
Oct 23	Wed	icesat2	2104	2108	43	137 13 SE-N	
Oct 23	Wed	sentinel3b	2107	2114	81	158 347 S -N	
Oct 23	Wed	gracefo1	2118	2122	57	344 199 N -S	
Oct 23	Wed	lageos2	2119	2146	32	138 71 SE-E	
Oct 23	Wed	sentinel3a	2147	2153	49	201 330 S -NW	
Oct 23	Wed	technosat	2240	2245	82	18 191 N -S	
Oct 23	Wed	starlette	2304	2311	44	198 86 S -E	
Oct 23	Wed	beaconc	2310	2315	30	176 120 S -SE	

Oct 23	Wed	lageos1	2336	0019	79	125	327	SE-NW
Oct 23	Wed	swarma	2348	2351	55	29	158	NE-S
Oct 23	Wed	swarmc	2348	2351	46	40	152	NE-SE
Oct 24	Thu	snet1	0014	0019	66	2	209	N -SW
Oct 24	Thu	larets	0030	0034	37	113	17	SE-N
Oct 24	Thu	cryosat2	0032	0038	51	145	8	SE-N
Oct 24	Thu	starlette	0052	0100	75	252	87	W -E
Oct 24	Thu	beaconc	0101	0109	42	224	122	SW-SE
Oct 24	Thu	lageos2	0103	0154	82	229	69	SW-E
Oct 24	Thu	larets	0208	0211	30	234	302	SW-NW
Oct 24	Thu	starlette	0241	0250	75	273	110	W -E
Oct 24	Thu	beaconc	0254	0302	37	241	147	SW-SE
Oct 24	Thu	lageos1	0318	0350	39	217	316	SW-NW
Oct 24	Thu	saral	0423	0428	39	109	8	E -N
Oct 24	Thu	ajisai	0424	0434	50	205	84	SW-E
Oct 24	Thu	starlette	0430	0438	42	267	154	W -SE
Oct 24	Thu	stella	0453	0459	72	23	190	NE-S

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Date	Satellite	Start	End	Elev	Direction	Observer	
Oct 24	Thu	lageos2	0509	0559	88	285 118 W -SE	CP
Oct 24	Thu	kompsat5	0511	0516	80	169 345 S -N	
Oct 24	Thu	hy2b	0541	0546	33	55 139 NE-SE	
Oct 24	Thu	terrasarx	0553	0555	29	74 132 E -SE	
Oct 24	Thu	tandemx	0553	0555	29	81 137 E -SE	
Oct 24	Thu	lares	0600	0607	34	138 60 SE-NE	
Oct 24	Thu	saral	0603	0607	35	232 314 SW-NW	
Oct 24	Thu	hy2a	0611	0618	51	36 167 NE-S	
Oct 24	Thu	jason2	0621	0629	40	162 62 S -NE	
Oct 24	Thu	ajisai	0625	0636	82	254 85 W -E	
Oct 24	Thu	geoik2	0657	0705	77	19 194 N -S	
Oct 24	Thu	paz	0659	0702	48	336 225 NW-SW	
Oct 24	Thu	envisat	0707	0713	75	20 190 N -S	
Oct 24	Thu	hy2b	0724	0730	50	352 231 N -SW	
Oct 24	Thu	jason3	0745	0753	39	156 60 SE-NE	
Oct 24	Thu	hy2a	0755	0800	35	338 254 N -W	
Oct 24	Thu	lares	0755	0806	72	227 27 SW-NE	
Oct 24	Thu	jason2	0815	0826	66	239 34 SW-NE	
Oct 24	Thu	swarmb	0822	0825	33	50 134 NE-SE	
Oct 24	Thu	ajisai	0826	0838	78	277 112 W -E	
Oct 24	Thu	lageos2	0916	0951	41	293 198 NW-S	
Oct 24	Thu	gracefo1	0934	0938	45	214 342 SW-N	
Oct 24	Thu	technosat	0936	0940	66	177 341 S -N	
Oct 24	Thu	jason3	0939	0950	68	238 34 SW-NE	
Oct 24	Thu	sentinel3a	0956	1002	41	43 160 NE-S	
Oct 24	Thu	lares	0957	1003	30	305 8 NW-N	
Oct 24	Thu	icesat2	0959	1003	61	348 198 N -S	
Oct 24	Thu	jason2	1014	1020	31	309 19 NW-N	
Oct 24	Thu	ajisai	1029	1038	44	267 162 W -S	
Oct 24	Thu	sentinel3b	1057	1103	65	1 212 N -SW	
Oct 24	Thu	snet1	1108	1112	52	206 331 SW-NW	
Oct 24	Thu	sentinel3a	1137	1141	34	325 247 NW-SW	

Oct 24 Thu	jason3	1139	1145	32	311	21	NW-N
Oct 24 Thu	swarma	1155	1157	33	97	34	E -NE
Oct 24 Thu	cryosat2	1229	1233	34	48	135	NE-SE
Oct 24 Thu	lares	1358	1406	36	352	82	N -E
Oct 24 Thu	larets	1359	1403	42	54	159	NE-S
Oct 24 Thu	cryosat2	1408	1412	33	319	236	NW-SW
Oct 24 Thu	jason2	1408	1417	53	338	106	N -E
Oct 24 Thu	stella	1439	1443	35	94	13	E -N
Oct 24 Thu	lageos1	1519	1603	83	33	212	NE-SW
Oct 24 Thu	jason3	1534	1543	53	338	105	N -E
Oct 24 Thu	lares	1555	1607	81	326	154	NW-SE
Oct 24 Thu	jason2	1603	1613	54	306	173	NW-S
Oct 24 Thu	hy2a	1617	1623	38	108	8	E -N
Oct 24 Thu	stella	1618	1623	40	216	320	SW-NW
Oct 24 Thu	geoik2	1700	1707	55	129	354	SE-N

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Date	Satellite	Start	End	Elev	Direction	Observer
Oct 24 Thu	hy2b	1728	1736	67	177 338	S -N VS
Oct 24 Thu	jason3	1730	1739	55	304 176	NW-S
Oct 24 Thu	paz	1742	1746	50	197 330	S -NW
Oct 24 Thu	hy2a	1800	1806	46	207 322	SW-NW
Oct 24 Thu	saral	1808	1814	56	32 171	NE-S
Oct 24 Thu	terrasarx	1811	1813	26	251 303	W -NW
Oct 24 Thu	tandemx	1811	1813	26	258 307	W -NW
Oct 24 Thu	kompsat5	1818	1822	71	21 188	N -S
Oct 24 Thu	envisat	1827	1832	48	204 325	SW-NW
Oct 24 Thu	geoik2	1844	1848	29	241 305	SW-NW
Oct 24 Thu	lageos1	1852	1929	54	44 284	NE-W
Oct 24 Thu	saral	1949	1952	26	319 266	NW-W
Oct 24 Thu	swarmb	2039	2042	31	117 36	SE-NE
Oct 24 Thu	icesat2	2040	2041	26	80 52	E -NE
Oct 24 Thu	sentinel3b	2042	2048	52	128 358	SE-N
Oct 24 Thu	gracefol	2057	2101	81	5 179	N -S
Oct 24 Thu	sentinel3a	2121	2127	74	172 341	S -N
Oct 24 Thu	icesat2	2214	2215	26	271 299	W -NW
Oct 24 Thu	lageos1	2216	2256	63	98 323	E -NW
Oct 24 Thu	sentinel3b	2224	2226	27	261 297	W -NW
Oct 24 Thu	beaconc	2227	2229	26	157 135	SE-SE
Oct 24 Thu	technosat	2249	2254	70	9 201	N -S
Oct 24 Thu	lageos2	2312	2359	61	194 62	S -NE
Oct 24 Thu	starlette	2322	2330	58	225 85	SW-E
Oct 25 Fri	beaconc	0017	0025	41	217 117	SW-SE
Oct 25 Fri	snet1	0018	0023	60	359 213	N -SW
Oct 25 Fri	swarmc	0041	0044	30	310 224	NW-SW
Oct 25 Fri	swarma	0042	0043	26	280 250	W -W
Oct 25 Fri	larets	0106	0112	69	156 349	SE-N
Oct 25 Fri	starlette	0111	0120	80	263 92	W -E
Oct 25 Fri	cryosat2	0120	0126	54	201 342	S -N
Oct 25 Fri	lageos1	0148	0230	62	177 326	S -NW
Oct 25 Fri	beaconc	0210	0218	39	236 139	SW-SE
Oct 25 Fri	starlette	0300	0309	66	274 123	W -SE
Oct 25 Fri	lageos2	0313	0404	86	265 91	W -E
Oct 25 Fri	ajisai	0331	0340	39	183 87	S -E
Oct 25 Fri	stella	0427	0432	48	48 165	NE-S
Oct 25 Fri	starlette	0451	0456	31	242 177	SW-S

Oct 25	Fri	kompsat5	0508	0512	70	164 347	S -N
Oct 25	Fri	ajisai	0530	0542	75	242 82	SW-E
Oct 25	Fri	saral	0531	0537	62	189 336	S -NW
Oct 25	Fri	hy2b	0603	0609	47	44 162	NE-S
Oct 25	Fri	stella	0607	0611	30	327 254	NW-W
Oct 25	Fri	envisat	0631	0636	40	54 158	NE-S

OBSERVING SCHEDULE (Times are in U.T.)

Date	Satellite	Start	End	Elev	Direction	Observer	
Oct 25	Fri	hy2a	0634	0641	73	26 186 NE-S	CP
Oct 25	Fri	jason2	0635	0645	53	181 49 S -NE	
Oct 25	Fri	paz	0641	0646	75	7 201 N -S	
Oct 25	Fri	lares	0651	0702	70	191 38 S -NE	
Oct 25	Fri	terrasarx	0709	0713	37	341 231 N -SW	
Oct 25	Fri	tandemx	0709	0713	37	336 228 NW-SW	
Oct 25	Fri	geoik2	0713	0720	77	10 205 N -SW	
Oct 25	Fri	lageos2	0719	0805	65	297 158 NW-S	
Oct 25	Fri	ajisai	0732	0744	82	272 101 W -E	
Oct 25	Fri	hy2b	0746	0752	37	344 246 N -SW	
Oct 25	Fri	jason3	0806	0816	57	185 50 S -NE	
Oct 25	Fri	envisat	0810	0814	34	333 251 NW-W	
Oct 25	Fri	jason2	0831	0840	53	260 29 W -NE	
Oct 25	Fri	lares	0850	0900	42	267 20 W -N	
Oct 25	Fri	gracefo1	0912	0917	76	187 356 S -N	
Oct 25	Fri	icesat2	0933	0937	64	18 172 N -S	
Oct 25	Fri	ajisai	0934	0945	56	276 143 W -SE	
Oct 25	Fri	swarmb	0938	0940	30	285 232 W -SW	
Oct 25	Fri	technosat	0945	0950	62	187 337 S -NW	
Oct 25	Fri	jason3	1003	1012	52	263 28 W -NE	
Oct 25	Fri	sentinel3b	1031	1037	73	22 190 N -S	
Oct 25	Fri	sentinel3a	1110	1116	51	355 223 N -SW	
Oct 25	Fri	snet1	1112	1116	47	210 329 SW-NW	
Oct 25	Fri	jason2	1227	1234	31	342 61 N -NE	
Oct 25	Fri	swarma	1247	1251	38	222 344 SW-N	
Oct 25	Fri	swarmc	1247	1251	46	216 349 SW-N	
Oct 25	Fri	cryosat2	1317	1322	85	2 189 N -S	
Oct 25	Fri	lageos1	1357	1438	59	36 181 NE-S	
Oct 25	Fri	jason3	1401	1407	32	350 60 N -NE	
Oct 25	Fri	jason2	1422	1433	66	329 123 NW-SE	
Oct 25	Fri	larets	1435	1440	81	14 197 N -S	
Oct 25	Fri	lares	1451	1502	60	338 123 N -SE	

OBSERVING SCHEDULE (Times are in U.T.)

Date	Satellite	Start	End	Elev	Direction	Observer
Oct 25 Fri	stella	1551	1557	63	185 336 S -NW	TS
Oct 25 Fri	jason3	1556	1607	70	328 127 NW-SE	
Oct 25 Fri	hy2b	1609	1614	36	94 10 E -N	
Oct 25 Fri	jason2	1618	1626	40	297 197 NW-S	
Oct 25 Fri	hy2a	1639	1646	52	129 359 SE-N	
Oct 25 Fri	lares	1650	1659	44	302 196 NW-S	
Oct 25 Fri	geoik2	1715	1722	70	145 350 SE-N	
Oct 25 Fri	paz	1725	1729	67	173 343 S -N	
Oct 25 Fri	lageos1	1730	1810	64	36 259 NE-W	
Oct 25 Fri	saral	1738	1742	31	60 138 NE-SE	
Oct 25 Fri	envisat	1750	1756	77	160 347 S -N	
Oct 25 Fri	hy2b	1751	1758	49	202 329 S -NW	
Oct 25 Fri	jason3	1753	1801	37	291 197 W -S	
Oct 25 Fri	terrasarx	1753	1757	39	214 327 SW-NW	
Oct 25 Fri	tandemx	1753	1756	40	220 319 SW-NW	
Oct 25 Fri	kompsat5	1815	1819	68	29 185 NE-S	
Oct 25 Fri	hy2a	1824	1828	32	238 306 SW-NW	
Oct 25 Fri	saral	1917	1922	43	346 236 N -SW	
Oct 25 Fri	sentinel3b	2017	2021	34	97 17 E -N	
Oct 25 Fri	gracefol	2035	2039	48	25 160 NE-S	
Oct 25 Fri	sentinel3a	2055	2101	63	143 354 SE-N	
Oct 25 Fri	lageos1	2058	2135	54	72 313 E -NW	
Oct 25 Fri	lageos2	2128	2201	37	152 68 SE-E	
Oct 25 Fri	icesat2	2147	2151	44	214 339 SW-N	
Oct 25 Fri	starlette	2154	2159	33	179 100 S -E	
Oct 25 Fri	swarmb	2155	2157	31	265 323 W -NW	
Oct 25 Fri	sentinel3b	2156	2201	42	211 319 SW-NW	
Oct 25 Fri	technosat	2259	2304	64	359 209 N -SW	
Oct 25 Fri	beaconc	2333	2341	39	208 113 SW-SE	
Oct 25 Fri	starlette	2341	2350	71	242 83 SW-E	
Oct 26 Sat	swarmc	0001	0004	84	353 182 N -S	
Oct 26 Sat	swarma	0001	0004	71	342 190 N -S	
Oct 26 Sat	larets	0008	0009	25	64 43 NE-NE	
Oct 26 Sat	snet1	0022	0027	54	357 217 N -SW	
Oct 26 Sat	lageos1	0024	0107	85	145 328 SE-NW	
Oct 26 Sat	cryosat2	0030	0035	58	144 9 SE-N	
Oct 26 Sat	lageos2	0117	0208	85	237 72 SW-E	
Oct 26 Sat	beaconc	0125	0134	41	239 132 SW-SE	
Oct 26 Sat	starlette	0130	0139	82	270 101 W -E	
Oct 26 Sat	larets	0143	0148	49	199 327 S -NW	
Oct 26 Sat	ajisai	0239	0244	28	155 105 SE-E	
Oct 26 Sat	starlette	0320	0328	53	266 138 W -SE	
Oct 26 Sat	beaconc	0321	0325	27	220 177 SW-S	
Oct 26 Sat	stella	0401	0404	30	70 129 E -SE	
Oct 26 Sat	lageos1	0419	0431	26	259 294 W -NW	
Oct 26 Sat	ajisai	0437	0448	64	225 80 SW-E	
Oct 26 Sat	saral	0500	0506	74	150 349 SE-N	
Oct 26 Sat	kompsat5	0504	0509	81	160 349 S -N	

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Date	Satellite	Start	End	Elev	Direction	Observer
Oct 26 Sat	lageos2	0523	0613	84	289 125 W -SE	VS
Oct 26 Sat	stella	0540	0545	47	346 233 N -SW	
Oct 26 Sat	geoik2	0547	0550	26	76 122 E -SE	
Oct 26 Sat	lares	0549	0557	39	147 55 SE-NE	
Oct 26 Sat	paz	0624	0628	69	24 182 NE-S	
Oct 26 Sat	hy2b	0625	0632	67	30 183 NE-S	
Oct 26 Sat	ajisai	0638	0650	82	265 92 W -E	
Oct 26 Sat	jason2	0649	0700	72	201 43 S -NE	
Oct 26 Sat	tandemx	0652	0656	55	352 212 N -SW	
Oct 26 Sat	terrasarx	0652	0656	55	355 214 N -SW	
Oct 26 Sat	hy2a	0656	0704	79	13 204 N -SW	
Oct 26 Sat	geoik2	0728	0735	63	2 217 N -SW	
Oct 26 Sat	avisat	0733	0739	64	359 211 N -SW	
Oct 26 Sat	lares	0745	0756	66	235 27 SW-NE	
Oct 26 Sat	jason3	0828	0839	80	209 41 SW-NE	
Oct 26 Sat	ajisai	0840	0851	67	277 128 W -SE	
Oct 26 Sat	jason2	0846	0855	44	273 27 W -NE	
Oct 26 Sat	gracefol	0851	0855	60	159 7 S -N	
Oct 26 Sat	icesat2	0908	0911	35	51 143 NE-SE	
Oct 26 Sat	swarmb	0918	0921	42	309 212 NW-SW	
Oct 26 Sat	lageos2	0931	1000	35	289 212 W -SW	
Oct 26 Sat	technosat	0955	0959	47	205 328 SW-NW	
Oct 26 Sat	sentinel3b	1005	1011	48	40 168 NE-S	
Oct 26 Sat	jason3	1026	1035	41	280 28 W -NE	
Oct 26 Sat	ajisai	1043	1050	31	256 186 W -S	
Oct 26 Sat	sentinel3a	1044	1050	79	12 201 N -S	
Oct 26 Sat	snet1	1116	1120	42	214 326 SW-NW	
Oct 26 Sat	sentinel3b	1146	1149	30	320 263 NW-W	
Oct 26 Sat	swarmc	1207	1210	56	152 18 SE-N	
Oct 26 Sat	swarma	1207	1211	64	164 8 S -N	
Oct 26 Sat	cryosat2	1226	1231	37	38 143 NE-SE	
Oct 26 Sat	lageos1	1237	1307	37	48 140 NE-SE	
Oct 26 Sat	jason2	1242	1250	35	343 76 N -E	
Oct 26 Sat	lares	1348	1356	39	354 89 N -E	
Oct 26 Sat	cryosat2	1406	1409	32	308 244 NW-SW	
Oct 26 Sat	jason3	1423	1431	39	341 79 N -E	
Oct 26 Sat	jason2	1437	1448	82	324 138 NW-SE	
Oct 26 Sat	larets	1512	1517	42	342 229 N -SW	
Oct 26 Sat	stella	1524	1531	78	154 347 SE-N	

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Date	Satellite	Start	End	Elev	Direction	Observer
Oct 26 Sat	lares	1545	1556	76	323 161 NW-S	RS
Oct 26 Sat	lageos1	1608	1651	81	33 231 NE-SW	
Oct 26 Sat	jason3	1619	1629	81	320 146 NW-SE	
Oct 26 Sat	hy2b	1630	1637	49	121 358 SE-N	
Oct 26 Sat	hy2a	1702	1709	73	147 349 SE-N	
Oct 26 Sat	paz	1708	1712	57	144 356 SE-N	
Oct 26 Sat	envisat	1714	1719	44	113 4 SE-N	
Oct 26 Sat	geoik2	1730	1737	88	161 344 S -N	
Oct 26 Sat	tandemx	1735	1740	63	183 339 S -N	
Oct 26 Sat	terrasarx	1736	1740	60	192 337 S -NW	
Oct 26 Sat	kompsat5	1811	1816	66	27 183 NE-S	
Oct 26 Sat	hy2b	1814	1819	35	229 313 SW-NW	
Oct 26 Sat	saral	1846	1852	71	7 206 N -SW	
Oct 26 Sat	envisat	1854	1857	30	247 306 SW-NW	
Oct 26 Sat	lageos1	1939	2015	52	53 297 NE-NW	
Oct 26 Sat	gracefol	2014	2017	33	55 139 NE-SE	
Oct 26 Sat	sentinel3a	2030	2035	42	110 6 E -N	
Oct 26 Sat	icesat2	2121	2125	78	175 354 S -N	
Oct 26 Sat	sentinel3b	2130	2136	67	184 337 S -NW	
Oct 26 Sat	swarmb	2135	2138	45	237 340 SW-N	
Oct 26 Sat	sentinel3a	2210	2214	33	230 309 SW-NW	
Oct 26 Sat	starlette	2212	2219	46	207 89 SW-E	
Oct 26 Sat	beaconc	2249	2256	36	200 116 S -SE	
Oct 26 Sat	lageos1	2302	2344	73	116 326 SE-NW	
Oct 26 Sat	technosat	2309	2313	50	342 221 N -SW	
Oct 26 Sat	swarma	2321	2324	40	46 146 NE-SE	
Oct 26 Sat	swarmc	2321	2324	34	53 142 NE-SE	
Oct 26 Sat	lageos2	2324	0013	67	204 63 SW-NE	
Oct 27 Sun	starlette	0000	0009	80	255 87 W -E	
Oct 27 Sun	snet1	0027	0031	50	339 220 N -SW	
Oct 27 Sun	beaconc	0041	0050	43	234 125 SW-SE	
Oct 27 Sun	larets	0043	0047	46	119 7 SE-N	
Oct 27 Sun	cryosat2	0118	0123	51	208 337 SW-NW	
Oct 27 Sun	starlette	0150	0158	74	272 112 W -E	
Oct 27 Sun	beaconc	0235	0241	31	236 168 SW-S	
Oct 27 Sun	lageos1	0240	0317	46	201 321 S -NW	
Oct 27 Sun	lageos2	0327	0418	86	271 97 W -E	
Oct 27 Sun	starlette	0339	0346	40	262 160 W -S	
Oct 27 Sun	ajisai	0343	0354	53	209 81 SW-E	
Oct 27 Sun	saral	0429	0434	43	119 9 SE-N	
Oct 27 Sun	kompsat5	0501	0505	70	153 352 SE-N	
Oct 27 Sun	jason2	0513	0517	26	122 79 SE-E	
Oct 27 Sun	stella	0513	0519	71	8 208 N -SW	
Oct 27 Sun	hy2a	0538	0541	30	76 125 E -SE	
Oct 27 Sun	ajisai	0544	0556	82	256 86 W -E	
Oct 27 Sun	geoik2	0601	0606	33	54 139 NE-SE	
Oct 27 Sun	paz	0607	0611	44	40 163 NE-S	
Oct 27 Sun	saral	0609	0613	32	229 307 SW-NW	

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Date	Satellite	Start	End	Elev	Direction	Observer
Oct 27 Sun	tandemx	0635	0639	71	15 194 N -S	MW
Oct 27 Sun	terrasarx	0635	0639	72	14 194 N -S	
Oct 27 Sun	lares	0640	0652	75	199 36 S -NE	

Oct 27 Sun	hy2b	0647	0654	86	15 200	N -S
Oct 27 Sun	envisat	0656	0702	63	29 181	NE-S
Oct 27 Sun	jason3	0658	0705	34	142 62	SE-NE
Oct 27 Sun	jason2	0704	0715	86	218 39	SW-NE
Oct 27 Sun	hy2a	0719	0726	56	2 224	N -SW
Oct 27 Sun	lageos2	0733	0817	59	297 168	NW-S
Oct 27 Sun	geoik2	0743	0750	50	356 229	N -SW
Oct 27 Sun	ajisai	0746	0757	77	276 114	W -SE
Oct 27 Sun	gracefo1	0830	0833	41	120 22	SE-N
Oct 27 Sun	lares	0840	0849	39	274 16	W -N
Oct 27 Sun	jason3	0851	0902	75	231 36	SW-NE
Oct 27 Sun	swarmb	0858	0902	59	339 194	N -S
Oct 27 Sun	jason2	0902	0910	37	292 27	W -NE
Oct 27 Sun	sentinel3b	0940	0944	31	66 140	NE-SE
Oct 27 Sun	ajisai	0948	0957	42	268 166	W -S
Oct 27 Sun	technosat	1005	1009	40	226 327	SW-NW
Oct 27 Sun	icesat2	1017	1019	32	299 237	NW-SW
Oct 27 Sun	sentinel3a	1018	1024	62	29 177	NE-S
Oct 27 Sun	jason3	1050	1057	34	300 22	NW-N
Oct 27 Sun	sentinel3b	1119	1125	45	348 229	N -SW
Oct 27 Sun	snet1	1120	1124	38	217 323	SW-NW
Oct 27 Sun	jason2	1257	1305	41	342 86	N -E
Oct 27 Sun	cryosat2	1314	1320	70	0 192	N -S
Oct 27 Sun	larets	1411	1416	56	34 172	NE-S
Oct 27 Sun	lares	1441	1452	66	337 130	NW-SE
Oct 27 Sun	lageos1	1445	1528	75	33 202	NE-S
Oct 27 Sun	jason3	1446	1455	48	340 100	N -E
Oct 27 Sun	jason2	1452	1502	76	317 154	NW-SE
Oct 27 Sun	stella	1458	1504	48	126 359	SE-N

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Date	Satellite	Start	End	Elev	Direction	Observer
Oct 27 Sun	lares	1640	1648	38	296 204	NW-SW JR
Oct 27 Sun	jason3	1641	1652	62	312 166	NW-S
Oct 27 Sun	paz	1651	1655	40	121 6	SE-N
Oct 27 Sun	hy2b	1652	1659	67	141 351	SE-N
Oct 27 Sun	tandemx	1718	1723	82	161 348	S -N
Oct 27 Sun	terrasarx	1719	1723	76	159 348	S -N
Oct 27 Sun	hy2a	1724	1732	74	170 341	S -N
Oct 27 Sun	geoik2	1745	1752	72	175 337	S -NW
Oct 27 Sun	kompsat5	1808	1812	56	34 177	NE-S
Oct 27 Sun	envisat	1815	1821	60	187 333	S -NW

Oct 27 Sun	saral	1815	1821	61	32 180	NE-S
Oct 27 Sun	lageos1	1818	1856	57	41 276	NE-W
Oct 27 Sun	hy2b	1838	1839	25	265 280	W -W
Oct 27 Sun	sentinel3a	2005	2008	28	82 28	E -NE
Oct 27 Sun	icesat2	2056	2100	48	134 9	SE-N
Oct 27 Sun	sentinel3b	2104	2110	72	152 349	SE-N
Oct 27 Sun	swarmb	2115	2119	62	202 354	S -N
Oct 27 Sun	gracefo1	2127	2129	30	301 241	NW-SW
Oct 27 Sun	lageos2	2138	2216	43	164 65	S -NE
Oct 27 Sun	sentinel3a	2143	2149	53	194 330	S -NW
Oct 27 Sun	lageos1	2143	2222	59	89 320	E -NW
Oct 27 Sun	beaconc	2205	2211	32	191 120	S -SE
Oct 27 Sun	starlette	2231	2239	60	226 83	SW-E
Oct 27 Sun	technosat	2318	2322	42	343 234	N -SW
Oct 27 Sun	beaconc	2357	0005	42	228 125	SW-SE
Oct 28 Mon	swarmc	0014	0017	41	317 212	NW-SW
Oct 28 Mon	swarma	0014	0017	35	314 219	NW-SW
Oct 28 Mon	starlette	0020	0028	80	264 94	W -E
Oct 28 Mon	cryosat2	0027	0033	59	152 5	SE-N
Oct 28 Mon	snet1	0031	0035	45	336 224	NW-SW
Oct 28 Mon	lageos1	0113	0156	69	166 327	S -NW
Oct 28 Mon	larets	0119	0124	79	171 342	S -N
Oct 28 Mon	lageos2	0131	0222	89	244 76	SW-E
Oct 28 Mon	beaconc	0151	0158	34	232 152	SW-SE
Oct 28 Mon	starlette	0209	0217	62	272 127	W -SE
Oct 28 Mon	ajisai	0250	0259	41	187 87	S -E
Oct 28 Mon	starlette	0359	0404	29	248 184	W -S
Oct 28 Mon	saral	0400	0402	26	70 33	E -NE
Oct 28 Mon	stella	0447	0453	69	30 185	NE-S
Oct 28 Mon	ajisai	0450	0502	77	244 82	SW-E
Oct 28 Mon	kompsat5	0458	0502	65	145 354	SE-N

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Date	Satellite	Start	End	Elev	Direction	Observer
Oct 28 Mon	jason2	0526	0533	37	149 63	SE-NE RS
Oct 28 Mon	hy2b	0528	0530	26	84 115	E -SE
Oct 28 Mon	lageos2	0537	0627	80	292 133	W -SE
Oct 28 Mon	saral	0537	0543	55	192 331	S -NW
Oct 28 Mon	lares	0538	0547	44	157 50	SE-NE
Oct 28 Mon	paz	0551	0553	28	77 133	E -SE
Oct 28 Mon	hy2a	0559	0606	42	44 160	NE-S
Oct 28 Mon	geoik2	0616	0622	43	45 156	NE-SE
Oct 28 Mon	tandemx	0618	0622	55	39 177	NE-S
Oct 28 Mon	terrasarx	0618	0622	54	34 175	NE-S
Oct 28 Mon	envisat	0620	0624	32	63 143	NE-SE
Oct 28 Mon	ajisai	0651	0703	83	273 103	W -E
Oct 28 Mon	hy2b	0709	0716	63	2 217	N -SW
Oct 28 Mon	jason3	0719	0728	50	173 52	S -NE
Oct 28 Mon	jason2	0719	0729	70	236 33	SW-NE
Oct 28 Mon	lares	0735	0745	59	243 23	SW-NE
Oct 28 Mon	hy2a	0742	0749	42	351 237	N -SW

Oct 28 Mon	envisat	0759	0803	40	334	241	NW-SW
Oct 28 Mon	geoik2	0759	0805	40	342	240	N -SW
Oct 28 Mon	swarmb	0838	0842	83	360	178	N -S
Oct 28 Mon	technosat	0839	0842	30	92	22	E -N
Oct 28 Mon	ajisai	0853	0904	53	276	146	W -SE
Oct 28 Mon	jason3	0914	0924	56	252	30	W -NE
Oct 28 Mon	jason2	0918	0924	32	309	21	NW-N
Oct 28 Mon	lageos2	0947	1009	30	283	226	W -SW
Oct 28 Mon	icesat2	0950	0954	60	351	205	N -SW
Oct 28 Mon	sentinel3a	0953	0958	39	54	155	NE-SE
Oct 28 Mon	technosat	1015	1018	32	246	317	SW-NW
Oct 28 Mon	sentinel3b	1053	1059	67	5	209	N -SW
Oct 28 Mon	snet1	1124	1128	35	220	321	SW-NW
Oct 28 Mon	sentinel3a	1133	1137	36	332	249	NW-W
Oct 28 Mon	swarmc	1220	1224	63	199	356	S -N
Oct 28 Mon	swarma	1220	1224	52	208	352	SW-N
Oct 28 Mon	cryosat2	1224	1229	40	43	149	NE-SE
Oct 28 Mon	jason2	1312	1321	50	340	103	N -E
Oct 28 Mon	jason3	1313	1319	31	350	58	N -NE
Oct 28 Mon	lageos1	1323	1402	51	39	169	NE-S
Oct 28 Mon	lares	1337	1346	43	348	96	N -E
Oct 28 Mon	cryosat2	1403	1407	30	317	241	NW-SW
Oct 28 Mon	stella	1433	1437	32	86	13	E -N
Oct 28 Mon	laretS	1448	1453	69	1	209	N -SW
Oct 28 Mon	jason2	1507	1517	59	308	169	NW-S
Oct 28 Mon	jason3	1508	1518	63	330	119	NW-SE
Oct 28 Mon	lares	1535	1546	68	318	167	NW-S
Oct 28 Mon	hy2a	1606	1610	32	85	19	E -N
Oct 28 Mon	stella	1611	1617	45	201	325	S -NW
Oct 28 Mon	geoik2	1620	1624	31	81	16	E -N

OBSERVING SCHEDULE (Times are in U.T.)

Date	Satellite	Start	End	Elev	Direction	Observer
Oct 28 Mon	lageos1	1656	1737	69	34 250	NE-W TS
Oct 28 Mon	terrasarx	1702	1706	52	129 359	SE-N
Oct 28 Mon	tandemx	1702	1705	53	121 4	SE-N
Oct 28 Mon	jason3	1705	1713	42	294 192	NW-S
Oct 28 Mon	hy2b	1714	1721	84	165 343	S -N
Oct 28 Mon	envisat	1739	1745	70	146 351	SE-N
Oct 28 Mon	saral	1744	1749	35	51 149	NE-SE
Oct 28 Mon	hy2a	1747	1754	56	191 329	S -NW
Oct 28 Mon	geoik2	1801	1808	56	195 334	S -NW
Oct 28 Mon	kompsat5	1804	1809	56	31 176	NE-S
Oct 28 Mon	paz	1809	1811	27	254 306	W -NW
Oct 28 Mon	saral	1924	1929	38	334 236	NW-SW
Oct 28 Mon	lageos1	2025	2101	52	65 309	NE-NW
Oct 28 Mon	icesat2	2031	2033	27	99 42	E -NE
Oct 28 Mon	sentinel3b	2038	2044	48	127 1	SE-N
Oct 28 Mon	swarmb	2055	2059	79	176 5	S -N
Oct 28 Mon	starlette	2103	2108	35	176 96	S -E
Oct 28 Mon	gracefol	2105	2108	46	325 214	NW-SW
Oct 28 Mon	sentinel3a	2117	2123	80	167 343	S -N
Oct 28 Mon	beaconc	2122	2126	28	172 126	S -SE
Oct 28 Mon	technosat	2153	2155	28	79 128	E -SE
Oct 28 Mon	sentinel3b	2220	2223	28	255 308	W -NW
Oct 28 Mon	starlette	2250	2258	70	243 85	SW-E
Oct 28 Mon	beaconc	2313	2321	41	221 119	SW-SE

Oct 28 Mon	technosat	2328	2331	34	328 249	NW-W
Oct 28 Mon	swarmc	2334	2337	68	18 167	N -S
Oct 28 Mon	swarma	2334	2337	82	5 175	N -S
Oct 28 Mon	lageos2	2337	0026	72	212 65	SW-NE
Oct 28 Mon	cryosat2	2339	2340	25	76 56	E -NE
Oct 28 Mon	lageos1	2350	0033	86	135 328	SE-NW
Oct 29 Tue	larets	0020	0023	30	82 19	E -N
Oct 29 Tue	snet1	0035	0039	41	334 228	NW-SW
Oct 29 Tue	starlette	0039	0047	77	271 103	W -E
Oct 29 Tue	beaconc	0106	0114	37	238 144	SW-SE
Oct 29 Tue	cryosat2	0116	0121	48	218 338	SW-N
Oct 29 Tue	larets	0156	0201	38	214 323	SW-NW
Oct 29 Tue	ajisai	0158	0204	30	158 97	S -E
Oct 29 Tue	starlette	0228	0236	50	269 143	W -SE
Oct 29 Tue	lageos1	0337	0402	32	235 309	SW-NW
Oct 29 Tue	lageos2	0341	0432	86	276 103	W -E
Oct 29 Tue	ajisai	0356	0407	67	229 81	SW-E
Oct 29 Tue	stella	0420	0426	42	43 162	NE-S
Oct 29 Tue	kompsat5	0454	0459	64	146 354	SE-N
Oct 29 Tue	saral	0506	0512	75	159 347	S -N

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Date	Satellite	Start	End	Elev	Direction	Observer
Oct 29 Tue	jason2	0539	0549	50	176 50	S -NE CP
Oct 29 Tue	hy2b	0548	0554	38	48 149	NE-SE
Oct 29 Tue	ajisai	0557	0609	83	267 94	W -E
Oct 29 Tue	tandemx	0601	0604	36	57 150	NE-SE
Oct 29 Tue	stella	0601	0605	34	324 248	NW-W
Oct 29 Tue	terrasarx	0601	0605	35	50 159	NE-S
Oct 29 Tue	hy2a	0622	0629	60	35 178	NE-S
Oct 29 Tue	lares	0630	0641	85	206 34	SW-NE
Oct 29 Tue	geoik2	0631	0638	55	35 172	NE-S
Oct 29 Tue	paz	0707	0711	37	339 228	N -SW
Oct 29 Tue	envisat	0721	0727	78	10 204	N -SW
Oct 29 Tue	hy2b	0731	0738	46	352 233	N -SW
Oct 29 Tue	jason2	0734	0744	56	251 30	W -NE
Oct 29 Tue	jason3	0740	0751	72	201 43	S -NE
Oct 29 Tue	lageos2	0747	0829	53	297 177	NW-S
Oct 29 Tue	ajisai	0759	0811	65	278 129	W -SE
Oct 29 Tue	hy2a	0806	0810	30	328 264	NW-W
Oct 29 Tue	geoik2	0815	0819	32	326 259	NW-W
Oct 29 Tue	swarmb	0819	0823	56	21 163	N -S
Oct 29 Tue	lares	0830	0839	36	280 17	W -N
Oct 29 Tue	technosat	0848	0852	35	109 11	E -N
Oct 29 Tue	gracefo1	0921	0924	37	235 330	SW-NW
Oct 29 Tue	icesat2	0925	0929	64	17 177	N -S
Oct 29 Tue	jason3	0938	0947	44	276 28	W -NE
Oct 29 Tue	sentinel3b	1027	1033	72	24 186	NE-S
Oct 29 Tue	sentinel3a	1106	1112	57	359 222	N -SW
Oct 29 Tue	snet1	1128	1132	32	223 318	SW-NW
Oct 29 Tue	jason2	1131	1137	30	344 53	N -NE
Oct 29 Tue	swarma	1140	1143	48	144 23	SE-NE
Oct 29 Tue	swarmc	1140	1143	41	134 27	SE-NE
Oct 29 Tue	lageos1	1205	1228	30	56 123	NE-SE

Oct 29 Tue	lares	1234	1240	30	4	67	N	-NE	
Oct 29 Tue	cryosat2	1312	1317	75	355	196	N	-S	
Oct 29 Tue	jason2	1326	1336	62	331	117	NW	-SE	
Oct 29 Tue	jason3	1335	1343	36	342	76	N	-E	
Oct 29 Tue	larets	1348	1352	35	67	152	NE	-SE	
Oct 29 Tue	lares	1430	1442	71	333	136	NW	-SE	
Oct 29 Tue	jason2	1522	1531	44	298	187	NW	-S	
Oct 29 Tue	larets	1525	1529	33	331	244	NW	-SW	
Oct 29 Tue	jason3	1531	1541	80	323	139	NW	-SE	
Oct 29 Tue	lageos1	1533	1617	88	32	222	NE	-SW	
Oct 29 Tue	stella	1544	1551	74	174	339	S	-N	
Oct 29 Tue	hy2a	1627	1634	44	118	1	SE	-N	
Oct 29 Tue	lares	1630	1637	34	289	212	W	-SW	
Oct 29 Tue	geoik2	1634	1640	38	105	5	E	-N	
Oct 29 Tue	terrasarx	1645	1648	35	110	20	E	-N	
Oct 29 Tue	tandemx	1645	1648	35	102	15	E	-N	
Oct 29 Tue	envisat	1703	1707	36	101	15	E	-N	
Oct 29 Tue	hy2b	1736	1743	63	187	334	S	-NW	
Oct 29 Tue	paz	1751	1754	41	217	318	SW	-NW	

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Date	Satellite	Start	End	Elev	Direction	Observer
Oct 29 Tue	kompsat5	1801	1805	51	38 168	NE-S MW
Oct 29 Tue	hy2a	1811	1817	39	221 322	SW-NW
Oct 29 Tue	geoik2	1816	1823	45	206 327	SW-NW
Oct 29 Tue	envisat	1842	1846	36	227 314	SW-NW
Oct 29 Tue	saral	1852	1858	66	4 212	N -SW
Oct 29 Tue	lageos1	1905	1942	52	49 291	NE-W
Oct 29 Tue	sentinel3b	2013	2017	32	99 22	E -N
Oct 29 Tue	swarmb	2036	2040	53	149 14	SE-N
Oct 29 Tue	gracefol	2043	2047	65	352 189	N -S
Oct 29 Tue	sentinel3a	2051	2057	61	141 357	SE-N
Oct 29 Tue	starlette	2121	2128	48	207 86	SW-E
Oct 29 Tue	icesat2	2139	2142	43	226 331	SW-NW
Oct 29 Tue	lageos2	2149	2231	49	174 62	S -NE
Oct 29 Tue	sentinel3b	2152	2158	44	204 327	SW-NW
Oct 29 Tue	technosat	2202	2205	35	63 144	NE-SE
Oct 29 Tue	lageos1	2229	2310	68	107 325	E -NW
Oct 29 Tue	beaconc	2229	2237	40	213 115	SW-SE
Oct 29 Tue	swarma	2254	2256	29	57 121	NE-SE
Oct 29 Tue	swarmc	2255	2256	25	93 118	E -SE
Oct 29 Tue	starlette	2309	2317	77	257 89	W -E
Oct 29 Tue	technosat	2338	2340	28	313 264	NW-W
Oct 30 Wed	beaconc	0022	0030	40	233 136	SW-SE
Oct 30 Wed	cryosat2	0025	0030	66	153 5	SE-N
Oct 30 Wed	snet1	0039	0043	38	332 231	NW-SW
Oct 30 Wed	larets	0055	0100	61	142 357	SE-N
Oct 30 Wed	starlette	0058	0107	72	274 114	W -SE
Oct 30 Wed	lageos2	0145	0236	88	252 80	W -E
Oct 30 Wed	lageos1	0204	0244	54	189 325	S -NW
Oct 30 Wed	starlette	0248	0254	37	257 167	W -S
Oct 30 Wed	ajisai	0302	0313	55	213 81	SW-E
Oct 30 Wed	stella	0355	0358	27	77 129	E -SE
Oct 30 Wed	saral	0435	0441	48	128 1	SE-N
Oct 30 Wed	kompsat5	0451	0455	55	138 359	SE-N
Oct 30 Wed	ajisai	0503	0515	80	258 87	W -E

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Date	Satellite	Start	End	Elev	Direction	Observer
Oct 30 Wed	lares	0527	0537	50	167 45 S -NE	JR
Oct 30 Wed	stella	0533	0539	52	358 226 N -SW	
Oct 30 Wed	lageos2	0551	0640	76	294 141 NW-SE	
Oct 30 Wed	jason2	0553	0604	67	196 44 S -NE	
Oct 30 Wed	hy2b	0610	0617	54	37 171 NE-S	
Oct 30 Wed	hy2a	0644	0652	76	19 195 N -S	
Oct 30 Wed	envisat	0645	0650	53	40 168 NE-S	
Oct 30 Wed	geoik2	0646	0654	68	26 186 NE-S	
Oct 30 Wed	paz	0650	0654	55	354 211 N -SW	
Oct 30 Wed	ajisai	0705	0717	75	277 116 W -SE	
Oct 30 Wed	tandemx	0718	0721	32	324 243 NW-SW	
Oct 30 Wed	terrasarx	0719	0721	31	304 248 NW-W	
Oct 30 Wed	lares	0724	0735	54	247 23 SW-NE	
Oct 30 Wed	jason2	0750	0759	46	272 29 W -NE	
Oct 30 Wed	hy2b	0754	0759	34	334 253 NW-W	
Oct 30 Wed	swarmb	0800	0803	40	49 144 NE-SE	
Oct 30 Wed	jason3	0803	0814	82	224 37 SW-NE	
Oct 30 Wed	technosat	0857	0901	44	126 11 SE-N	
Oct 30 Wed	gracefol	0859	0903	53	205 349 SW-N	
Oct 30 Wed	icesat2	0900	0903	38	59 151 NE-SE	
Oct 30 Wed	ajisai	0907	0916	39	268 170 W -S	
Oct 30 Wed	snet1	0957	1000	31	101 26 E -NE	
Oct 30 Wed	sentinel3b	1001	1007	46	39 163 NE-S	
Oct 30 Wed	jason3	1002	1009	36	298 23 NW-NE	
Oct 30 Wed	sentinel3a	1040	1047	87	15 198 N -S	
Oct 30 Wed	snet1	1133	1136	30	247 316 SW-NW	
Oct 30 Wed	sentinel3b	1142	1146	31	326 252 NW-W	
Oct 30 Wed	jason2	1146	1153	34	344 68 N -E	
Oct 30 Wed	cryosat2	1221	1226	42	34 147 NE-SE	
Oct 30 Wed	swarmc	1234	1236	32	260 327 W -NW	
Oct 30 Wed	lares	1327	1336	46	349 103 N -E	
Oct 30 Wed	jason2	1341	1351	77	326 133 NW-SE	
Oct 30 Wed	jason3	1358	1407	45	342 96 N -E	
Oct 30 Wed	lageos1	1411	1453	67	35 192 NE-S	
Oct 30 Wed	larets	1424	1429	74	25 186 NE-S	
Oct 30 Wed	stella	1518	1524	67	146 352 SE-N	
Oct 30 Wed	lares	1524	1535	61	317 174 NW-S	
Oct 30 Wed	jason2	1538	1544	32	280 210 W -SW	
Oct 30 Wed	jason3	1553	1604	70	315 160 NW-S	
Oct 30 Wed	hy2b	1616	1622	40	104 4 E -N	
Oct 30 Wed	geoik2	1649	1655	47	118 2 SE-N	
Oct 30 Wed	hy2a	1650	1657	60	134 353 SE-N	
Oct 30 Wed	paz	1733	1738	65	182 339 S -N	

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Date	Satellite	Start	End	Elev	Direction	Observer
Oct 30 Wed	lageos1	1744	1823	60	38 268 NE-W	RS
Oct 30 Wed	hy2b	1758	1805	44	204 324 SW-NW	
Oct 30 Wed	kompsat5	1758	1802	46	47 168 NE-S	
Oct 30 Wed	tandemx	1802	1805	32	236 317 SW-NW	
Oct 30 Wed	terrasarx	1802	1805	32	228 312 SW-NW	
Oct 30 Wed	envisat	1804	1810	70	177 339 S -N	
Oct 30 Wed	saral	1821	1827	69	25 184 NE-S	
Oct 30 Wed	geoik2	1832	1837	35	225 312 SW-NW	
Oct 30 Wed	hy2a	1835	1838	28	250 297 W -NW	
Oct 30 Wed	starlette	1954	1956	25	146 116 SE-SE	
Oct 30 Wed	lageos2	2014	2028	26	116 82 SE-E	
Oct 30 Wed	swarmb	2017	2020	38	119 28 SE-NE	
Oct 30 Wed	gracefol	2021	2026	68	11 171 N -S	
Oct 30 Wed	sentinel3a	2026	2031	39	112 10 E -N	
Oct 30 Wed	lageos1	2111	2148	56	80 318 E -NW	
Oct 30 Wed	icesat2	2113	2117	67	181 352 S -N	
Oct 30 Wed	sentinel3b	2126	2132	68	178 338 S -N	
Oct 30 Wed	starlette	2140	2147	62	227 85 SW-E	
Oct 30 Wed	beaconc	2145	2152	37	205 117 SW-SE	
Oct 30 Wed	sentinel3a	2206	2211	36	222 318 SW-NW	
Oct 30 Wed	technosat	2211	2215	43	46 159 NE-S	
Oct 30 Wed	snet1	2309	2310	27	96 120 E -SE	
Oct 30 Wed	starlette	2328	2337	83	266 95 W -E	
Oct 30 Wed	cryosat2	2336	2338	27	87 47 E -NE	
Oct 30 Wed	beaconc	2337	2346	41	237 129 SW-SE	
Oct 30 Wed	swarma	2347	2350	48	322 206 NW-SW	
Oct 30 Wed	swarmc	2347	2350	57	328 198 NW-S	
Oct 30 Wed	lageos2	2350	0040	77	221 66 SW-NE	
Oct 31 Thu	lageos1	0038	0121	77	155 327 SE-NW	
Oct 31 Thu	snet1	0043	0046	35	330 247 NW-SW	
Oct 31 Thu	cryosat2	0113	0118	44	214 332 SW-NW	
Oct 31 Thu	starlette	0118	0126	61	269 128 W -SE	
Oct 31 Thu	beaconc	0132	0137	28	226 173 SW-S	
Oct 31 Thu	larets	0132	0137	63	189 335 S -NW	
Oct 31 Thu	ajisai	0209	0218	43	192 88 S -E	
Oct 31 Thu	starlette	0309	0311	26	229 202 SW-S	
Oct 31 Thu	lageos2	0355	0446	88	281 110 W -E	
Oct 31 Thu	saral	0406	0409	29	79 23 E -NE	
Oct 31 Thu	ajisai	0409	0421	77	246 82 SW-E	
Oct 31 Thu	lares	0426	0430	27	119 77 SE-E	
Oct 31 Thu	kompsat5	0448	0452	53	127 359 SE-N	
Oct 31 Thu	stella	0507	0513	75	12 202 N -S	
Oct 31 Thu	saral	0544	0549	50	205 325 SW-NW	

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Date	Satellite	Start	End	Elev	Direction	Observer
Oct 31 Thu	jason2	0608	0619	83	213 40 SW-NE	TS
Oct 31 Thu	ajisai	0611	0623	82	274 105 W -E	
Oct 31 Thu	lares	0619	0631	84	213 32 SW-NE	
Oct 31 Thu	jason3	0631	0640	44	166 55 S -NE	
Oct 31 Thu	hy2b	0632	0639	75	24 188 NE-S	
Oct 31 Thu	paz	0633	0637	71	16 193 N -S	
Oct 31 Thu	terrasarx	0701	0705	45	343 221 N -SW	
Oct 31 Thu	geoik2	0701	0709	79	17 197 N -S	
Oct 31 Thu	tandemx	0701	0704	47	336 227 NW-SW	
Oct 31 Thu	hy2a	0707	0714	69	6 213 N -SW	
Oct 31 Thu	envisat	0747	0753	48	351 223 N -SW	
Oct 31 Thu	lageos2	0801	0841	47	296 186 NW-S	
Oct 31 Thu	jason2	0805	0813	38	283 22 W -N	
Oct 31 Thu	ajisai	0813	0823	51	272 150 W -SE	
Oct 31 Thu	lares	0821	0828	34	295 13 NW-N	
Oct 31 Thu	jason3	0826	0836	61	246 31 SW-NE	
Oct 31 Thu	gracefol	0837	0841	81	176 2 S -N	
Oct 31 Thu	technosat	0907	0911	53	128 0 SE-N	
Oct 31 Thu	snet1	1001	1004	33	104 24 E -NE	
Oct 31 Thu	icesat2	1008	1011	30	316 234 NW-SW	
Oct 31 Thu	sentinel3a	1015	1021	58	37 177 NE-S	
Oct 31 Thu	jason3	1026	1032	31	317 25 NW-NE	
Oct 31 Thu	sentinel3b	1115	1121	48	353 228 N -SW	
Oct 31 Thu	swarmc	1153	1157	78	178 4 S -N	
Oct 31 Thu	swarma	1153	1157	72	190 360 S -N	
Oct 31 Thu	jason2	1201	1209	39	344 84 N -E	
Oct 31 Thu	lares	1223	1230	32	357 72 N -E	
Oct 31 Thu	jason3	1225	1230	30	351 48 N -NE	
Oct 31 Thu	lageos1	1250	1325	44	43 156 NE-SE	
Oct 31 Thu	cryosat2	1309	1315	65	355 198 N -S	
Oct 31 Thu	jason2	1356	1406	79	319 149 NW-SE	
Oct 31 Thu	lares	1420	1431	80	331 142 NW-SE	
Oct 31 Thu	jason3	1420	1430	57	333 113 NW-SE	
Oct 31 Thu	stella	1452	1457	44	118 8 SE-N	
Oct 31 Thu	larets	1501	1506	51	346 219 N -SW	
Oct 31 Thu	jason3	1616	1626	48	304 181 NW-S	
Oct 31 Thu	lares	1620	1625	30	283 229 W -SW	
Oct 31 Thu	lageos1	1622	1704	75	33 241 NE-SW	
Oct 31 Thu	stella	1633	1637	32	242 315 SW-NW	
Oct 31 Thu	hy2b	1637	1644	54	130 357 SE-N	
Oct 31 Thu	geoik2	1704	1711	59	133 353 SE-N	
Oct 31 Thu	hy2a	1712	1720	81	158 345 S -N	
Oct 31 Thu	paz	1716	1721	80	159 349 S -N	
Oct 31 Thu	envisat	1728	1733	57	131 359 SE-N	

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Date	Satellite	Start	End	Elev	Direction	Observer
Oct 31 Thu	tandemx	1744	1748	49	198 329 S -NW	JR
Oct 31 Thu	terrasarx	1745	1749	50	211 333 SW-NW	
Oct 31 Thu	saral	1751	1756	39	58 159 NE-S	
Oct 31 Thu	kompsat5	1755	1758	44	59 158 NE-S	
Oct 31 Thu	hy2b	1822	1826	31	241 306 SW-NW	
Oct 31 Thu	geoik2	1848	1852	27	242 304 SW-NW	
Oct 31 Thu	saral	1930	1935	35	338 243 N -SW	
Oct 31 Thu	lageos1	1952	2028	51	59 304 NE-NW	
Oct 31 Thu	swarmb	1958	2000	26	97 44 E -NE	
Oct 31 Thu	gracefo1	2000	2004	41	36 153 NE-SE	
Oct 31 Thu	sentinel3a	2002	2004	26	69 33 E -NE	
Oct 31 Thu	starlette	2011	2017	36	188 92 S -E	
Oct 31 Thu	icesat2	2048	2051	53	129 11 SE-N	
Oct 31 Thu	sentinel3b	2100	2106	70	149 352 SE-N	
Oct 31 Thu	beaconc	2101	2107	33	197 121 S -SE	
Oct 31 Thu	swarmb	2133	2134	26	272 300 W -NW	
Oct 31 Thu	sentinel3a	2139	2145	58	189 330 S -NW	
Oct 31 Thu	starlette	2159	2207	74	245 85 SW-E	
Oct 31 Thu	2200	2245	55	185 62 S -NE		
Oct 31 Thu	technosat	2220	2225	54	33 172 NE-S	
Oct 31 Thu	beaconc	2253	2301	42	232 128 SW-SE	
Oct 31 Thu	swarmc	2307	2310	48	41 155 NE-SE	
Oct 31 Thu	swarma	2307	2310	58	29 161 NE-S	
Oct 31 Thu	snet1	2312	2315	29	69 140 E -SE	
Oct 31 Thu	lageos1	2316	2359	79	126 327 SE-NW	
Oct 31 Thu	starlette	2348	2356	79	271 105 W -E	
Nov 1 Fri	cryosat2	0022	0028	67	160 2 S -N	
Nov 1 Fri	larets	0032	0036	38	104 10 E -N	
Nov 1 Fri	beaconc	0047	0053	31	233 164 SW-S	
Nov 1 Fri	snet1	0047	0050	32	329 251 NW-W	
Nov 1 Fri	ajisai	0116	0123	32	171 98 S -E	
Nov 1 Fri	starlette	0137	0144	47	265 149 W -SE	
Nov 1 Fri	lageos2	0159	0250	86	258 85 W -E	
Nov 1 Fri	larets	0210	0213	29	246 309 SW-NW	
Nov 1 Fri	lageos1	0258	0330	39	217 316 SW-NW	
Nov 1 Fri	ajisai	0315	0327	69	232 80 SW-E	
Nov 1 Fri	jason2	0430	0437	34	145 64 SE-NE	
Nov 1 Fri	stella	0440	0446	62	30 176 NE-S	
Nov 1 Fri	kompsat5	0444	0448	50	133 6 SE-N	

OBSERVING SCHEDULE (Times are in U.T.)

Date	Satellite	Start	End	Elev	Direction	Observer
Nov 1 Fri	saral	0512	0519	87	165 344 S -N	CP
Nov 1 Fri	lares	0516	0527	56	176 42 S -NE	

Nov	1	Fri	ajisai	0516	0528	86	269	95	W	-E
Nov	1	Fri	hy2a	0547	0553	34	52	148	NE	-SE
Nov	1	Fri	lageos2	0605	0653	71	296	149	NW	-SE
Nov	1	Fri	paz	0616	0620	54	41	176	NE	-S
Nov	1	Fri	jason2	0623	0633	73	231	35	SW	-NE
Nov	1	Fri	tandemx	0643	0648	73	6	203	N	-SW
Nov	1	Fri	terrasarx	0644	0648	64	2	204	N	-SW
Nov	1	Fri	jason3	0653	0703	64	191	46	S	-NE
Nov	1	Fri	hy2b	0654	0702	76	11	205	N	-SW
Nov	1	Fri	envisat	0710	0716	78	17	193	N	-S
Nov	1	Fri	lares	0714	0724	50	254	19	W	-N
Nov	1	Fri	geoik2	0717	0724	74	8	208	N	-SW
Nov	1	Fri	ajisai	0718	0730	63	278	132	W	-SE
Nov	1	Fri	hy2a	0730	0737	49	353	228	N	-SW
Nov	1	Fri	gracefol	0816	0820	51	143	12	SE	-N
Nov	1	Fri	jason2	0821	0828	33	299	22	NW	-N
Nov	1	Fri	jason3	0849	0859	47	264	29	W	-NE
Nov	1	Fri	swarmb	0856	0859	33	297	218	NW	-SW
Nov	1	Fri	technosat	0916	0921	67	148	353	SE	-N
Nov	1	Fri	icesat2	0942	0946	51	344	206	N	-SW
Nov	1	Fri	sentinel3a	0949	0954	36	51	149	NE	-SE
Nov	1	Fri	snet1	1005	1009	36	108	9	E	-N
Nov	1	Fri	sentinel3b	1049	1056	75	9	205	N	-SW
Nov	1	Fri	swarma	1113	1116	35	128	31	SE	-NE
Nov	1	Fri	swarmc	1114	1116	30	89	33	E	-NE
Nov	1	Fri	sentinel3a	1129	1134	39	339	239	N	-SW
Nov	1	Fri	jason2	1215	1225	47	335	101	NW	-E
Nov	1	Fri	cryosat2	1219	1224	46	38	154	NE	-SE
Nov	1	Fri	jason3	1247	1254	34	343	66	N	-NE
Nov	1	Fri	lares	1316	1326	50	343	110	N	-E
Nov	1	Fri	larets	1400	1405	45	45	164	NE	-S
Nov	1	Fri	jason2	1411	1421	63	310	165	NW	-S
Nov	1	Fri	jason3	1443	1453	74	327	132	NW	-SE
Nov	1	Fri	lageos1	1459	1543	83	33	212	NE	-SW
Nov	1	Fri	lares	1514	1524	54	312	183	NW	-S
Nov	1	Fri	stella	1605	1611	50	198	330	S	-NW
Nov	1	Fri	jason3	1640	1647	32	284	206	W	-SW
Nov	1	Fri	envisat	1652	1656	30	91	16	E	-N
Nov	1	Fri	hy2b	1659	1706	75	150	349	SE	-N
Nov	1	Fri	paz	1659	1703	51	137	4	SE	-N