

## JEE2013 Special Events (minima list)

Minuma Time, UT	Julian Day	Object in front	Object behind	separation arc seconds	separation Europa radii	Comments
2013-Aug-12 12:29	2456517.020	II	I	7.3	20.0	
2013-Aug-16 01:33	2456520.565	II	I	7.2	19.5	
2013-Aug-19 14:47	2456524.116	II	I	7.0	18.9	
2013-Aug-23 04:01	2456527.667	II	I	6.8	18.1	
2013-Aug-26 17:16	2456531.219	II	I	6.6	17.6	
2013-Aug-30 06:30	2456534.771	II	I	6.5	17.1	
2013-Sep-02 19:46	2456538.324	II	I	6.3	16.4	
2013-Sep-06 09:01	2456541.876	II	I	6.2	16.0	
2013-Sep-09 22:17	2456545.428	II	I	6.0	15.4	
2013-Sep-13 11:33	2456548.981	II	I	5.8	14.7	
2013-Sep-16 00:51	2456551.535	II	I	5.7	14.4	
2013-Sep-20 14:09	2456556.09	II	I	5.5	13.8	
2013-Sep-24 03:29	2456559.645	II	I	5.4	13.3	Io in Torus
2013-Sep-27 16:50	2456563.201	II	I	5.2	12.7	

2013-Sep-28 07:32	2456563.814	II	I	3.8	9.3
2013-Sep-30 03:25	2456565.642	II	III	2.9	7.0
2013-Oct-01 06:13	2456566.759	II	I	5.0	12.0
2013-Oct-01 23:00	2456567.458	II	I	5.0	12.0
2013-Oct-04 19:39	2456570.319	II	I	4.8	11.6
2013-Oct-05 13:32	2456571.064	II	I	4.7	11.3
2013-Oct-06 05:11	2456571.716	II	III	5.6	13.3
2013-Oct-08 09:11	2456573.883	II	I	4.6	11.0
2013-Oct-09 03:07	2456574.63	II	I	4.9	11.7
2013-Oct-11 22:50	2456577.451	II	I	4.4	10.4
2013-Oct-12 16:34	2456578.19	II	I	5.1	12.0
2013-Oct-13 20:20	2456579.347	II	III	3.3	7.8
2013-Oct-15 16:32	2456581.189	II	I	3.7	8.6
2013-Oct-16 05:56	2456581.747	II	I	5.4	12.6
2013-Oct-19 03:45	2456581.656	II	I	4.4	10.1
2013-Oct-19 19:15	2456585.302	II	I	5.6	12.9
2013-Oct-21 11:44	2456586.989	II	IV	7.7	17.7

2013-Oct-22 01:45	2456587.573	II	III	7.7	17.5	
2013-Oct-22 15:48	2456588.158	II	I	7.5	17	
2013-Oct-23 08:30	2456588.854	II	I	5.8	13.2	lo in Torus
2013-Oct-26 21:47	2456592.408	II	I	6.0	13.5	lo in Torus
2013-Oct-29 05:31	2456594.73	II	III	8.4	18.7	
2013-Oct-30 11:00	2456595.958	II	I	6.1	13.6	
2013-Nov-03 00:11	2456599.508	II	I	6.3	13.8	
2013-Nov-06 13:21	2456603.056	II	I	6.6	14.3	
2013-Nov-10 02:30	2456606.604	II	I	6.8	14.6	
2013-Nov-13 15:38	2456610.151	II	I	6.9	14.7	
2013-Nov-17 04:44	2456613.697	II	I	7.1	14.9	
2013-Nov-20 17:51	2456617.244	II	I	7.3	15.2	
2013-Nov-24 06:56	2456620.789	II	I	7.5	15.5	
2013-Nov-27 20:00	2456624.333	II	I	7.7	15.7	
2013-Dec-01 09:04	2456627.878	II	I	7.9	16.1	
2013-Dec-04 22:07	2456631.422	II	I	8.1	16.4	
2013-Dec-08 11:10	2456634.965	II	I	8.2	16.5	

2013-Dec-09 16:04	2456636.169	II	IV	8.5	17.0	IV enters Jupiter's shadow
2013-Dec-12 00:12	2456638.508	II	I	8.4	16.6	
2013-Dec-15 13:13	2456642.051	II	I	8.6	17.0	
2013-Dec-19 02:15	2456645.594	II	I	8.7	17.1	
2013-Dec-22 15:15	2456649.135	II	I	8.9	17.5	
2013-Dec-26 04:16	2456652.678	II	I	9.1	18.0	
2013-Dec-29 17:17	2456656.22	II	I	9.1	17.8	

---

55	Events total
7.0	Europa radii minimum
39	Events >16 radii