

2010 thru 2011 CJEE (Conjunction Jovian Extinction Events)

http://scottysmightymini.com/JEE/2010_CJEE.htm

Predictions by Scott Degenhardt (scotty@scottysmightymini.com) using [Occult 4](#) (D. Herald, 2010)

Based on modeling of anomalous lightcurve trends found in the [IAEP study](#) it is expected that the following predictions are for JEEs involving a Jovian moon passing behind Io and Europa close enough by line of sight to likely experience atmospheric extinction. Your observing plan should be to record at least of 1 hour of data centered on the times listed below.

Standard Nomenclature:

Dates and times are UT and represent the closest approach of the conjunction (maximum extinction for the conjunction)

“Event type” = (A) B (C)

Where:

A = object in front

B = event, where:

e = eclipse

o = occultation

x = dimming by atmospheric extinction

C = object in back

Objects:

J = Jupiter

I = Io

II = Europa

III = Ganymede

IV = Callisto

Te = Eastern tip of the Torus of Io

Tw = Western tip of the Torus of Io

“MinD” = closest approach of objects in seconds of arc

“Radii” = closest approach in radii of object in front

[Click here](#) to download a PDF of predictions for printing

Year	M	Day	Decimal Hour	Decimal Minute	Event Type	MinD "	Radii
2010	4	1	9.986111	59.167	(II) X (I)	2.029	5.3
2010	4	3	16.12639	7.583	(II) X (III)	3.915	10.3
2010	4	4	23.44861	26.917	(II) X (I)	2.282	6.0
2010	4	8	12.85083	51.050	(II) X (I)	2.53	6.7
2010	4	10	20.56056	33.633	(II) X (III)	4.503	11.9
2010	4	12	2.231667	13.900	(II) X (I)	2.784	7.3
2010	4	15	15.5725	34.350	(II) X (I)	3.036	8.0
2010	4	18	0.743889	44.633	(II) X (III)	5.143	13.5
2010	4	19	4.900556	54.033	(II) X (I)	3.294	8.7
2010	4	22	18.19972	11.983	(II) X (I)	3.554	9.4
2010	4	25	4.764167	45.850	(II) X (III)	5.837	15.4
2010	4	26	7.490556	29.433	(II) X (I)	3.819	10.1
2010	4	29	20.75889	45.533	(II) X (I)	4.087	10.8
2010	5	3	10.02028	1.217	(II) X (I)	4.362	11.0
2010	5	6	23.26333	15.800	(II) X (I)	4.639	11.7
2010	5	10	12.50083	30.050	(II) X (I)	4.922	12.5
2010	5	14	1.722778	43.367	(II) X (I)	5.21	13.2
2010	5	17	14.93972	56.383	(II) X (I)	5.503	13.9
2010	5	21	4.141944	8.517	(II) X (I)	5.799	14.7
2010	11	2	2.643056	38.583	(I) X (II)	2.23	4.1
2010	11	5	14.16611	9.967	(I) X (II)	1.847	3.4
2010	11	9	1.869167	52.150	(I) X (II)	1.602	2.9
2010	11	12	13.68611	41.167	(I) X (II)	1.447	2.6
2010	11	16	1.419722	25.183	(I) X (II)	1.357	2.5
2010	11	19	8.233056	13.983	(I) X (II)	2.413	4.4
2010	11	19	8.232778	13.967	(I) X (II)	2.413	4.4
2010	11	19	13.04528	2.717	(I) X (II)	1.351	2.5
2010	11	22	23.55944	33.567	(I) X (II)	1.639	3.0

Year	M	Day	Decimal Hour	Decimal Minute	Event Type	MinD "	Radii
2010	11	1	13.03	1.800	I x II	4.232	7.4
2010	11	2	2.6430556	38.583	I x II	2.23	3.9
2010	11	2	5.8288889	49.733	I x II	3.429	6.0
2010	11	5	2.2797222	16.783	I x II	3.903	6.8
2010	11	5	14.166111	9.967	I x II	1.847	3.2

2010	11	5	19.863333	51.800	I x II	3.874	6.7
2010	11	7	8.9391667	56.350	III x II	5.579	6.7
2010	11	8	15.601389	36.083	I x II	3.557	6.2
2010	11	9	1.8691667	52.150	I x II	1.602	2.8
2010	11	9	9.4852778	29.117	I x II	4.172	7.3
2010	11	12	4.9791667	58.750	I x II	3.21	5.6
2010	11	12	13.686111	41.167	I x II	1.447	2.5
2010	11	12	22.930556	55.833	I x II	4.39	7.6
2010	11	14	6.8158333	48.950	III x II	5.556	6.7
2010	11	15	18.501944	30.117	I x II	2.829	4.9
2010	11	16	1.4197222	25.183	I x II	1.357	2.4
2010	11	16	12.3225	19.350	I x II	4.581	8.0
2010	11	19	8.2330556	13.983	I x II	2.413	4.2
2010	11	19	8.2327778	13.967	I x II	2.413	4.2
2010	11	19	13.045278	2.717	I x II	1.351	2.3
2010	11	20	1.6469444	38.817	I x II	4.737	8.2
2010	11	21	3.7211111	43.267	III x II	5.833	7.0
2010	11	22	23.559444	33.567	I x II	1.639	2.9
2010	11	23	14.957222	57.433	I x II	4.884	8.5
2010	11	26	12.183056	10.983	I x II	4.722	8.2
2010	11	27	4.2288889	13.733	I x II	5.01	8.7
2010	11	30	17.498056	29.883	I x II	5.133	8.9

2010	12	4	6.7425	44.550	I x II	5.243	10.1
2010	12	7	19.989444	59.367	I x II	5.352	10.3
2010	12	11	9.2194444	13.167	I x II	5.454	10.5
2010	12	14	22.453333	27.200	I x II	5.557	10.7
2010	12	18	11.674722	40.483	I x II	5.656	10.9
2010	12	22	0.9008333	54.050	I x II	5.757	11.1
2010	12	25	14.117778	7.067	I x II	5.856	11.3

2011	1	18	1.9955556	59.733	III x I	5.722	8.5
2011	1	24	23.883333	53.000	III x I	5.398	8.0

2011	3	27	3.2872222	17.233	I x II	5.933	14.0
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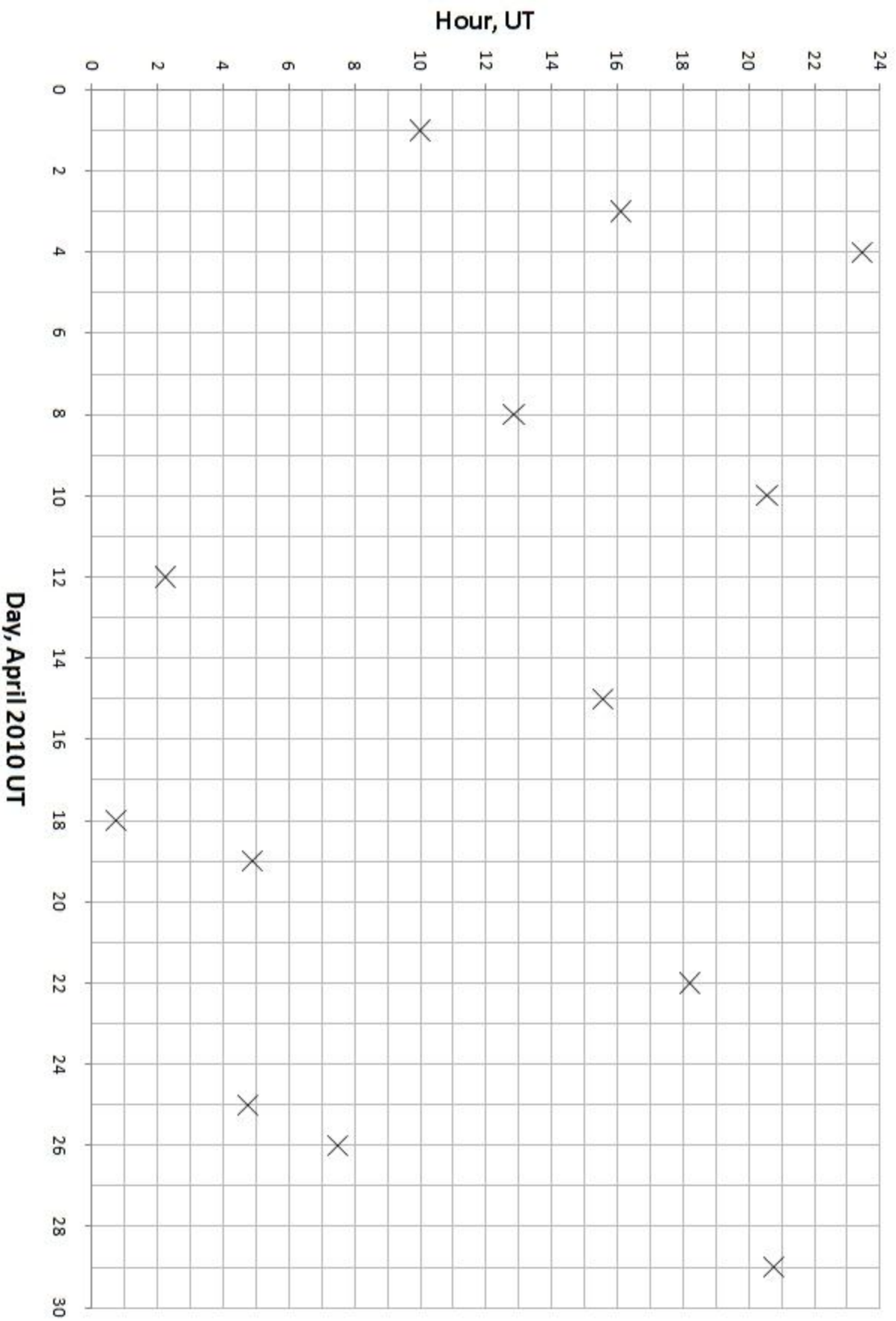
2011	4	26	14.833889	50.033	II x I	5.767	15.8
2011	4	30	4.1483333	8.900	II x I	5.634	15.4

2011	5	3	17.485556	29.133	II x I	5.486	14.4
2011	5	7	6.8305556	49.833	II x I	5.332	14.0

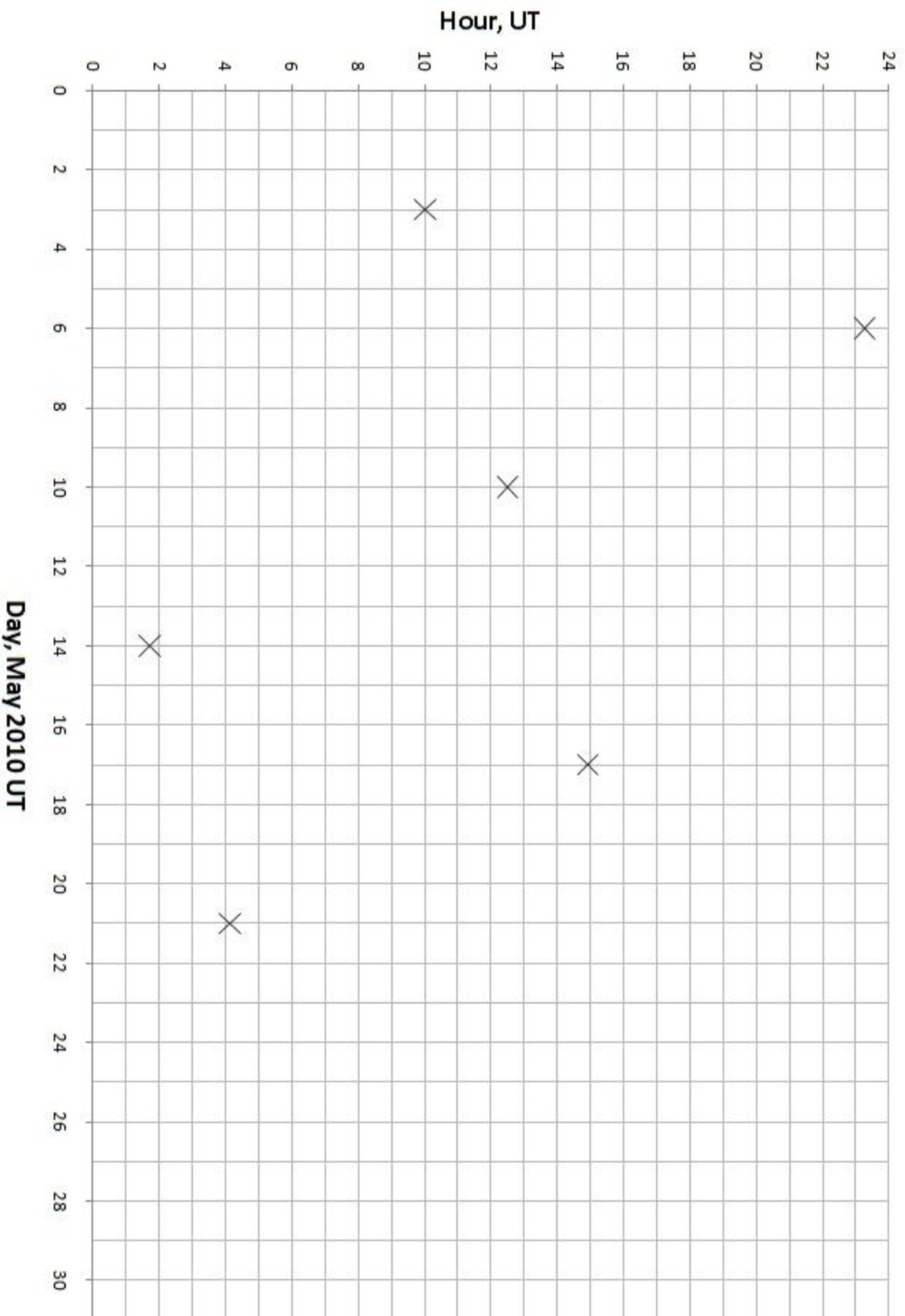
2011	5	10	20.2075	12.450	II x I	5.16	13.6
2011	5	14	9.6002778	36.017	II x I	4.978	13.1
2011	5	17	23.043056	2.583	II x I	4.772	12.6
2011	5	18	14.070556	4.233	II x I	3.542	9.3
2011	5	21	12.52	31.200	II x I	4.553	12.0
2011	5	22	0.8383333	50.300	II x I	2.946	7.8
2011	5	22	5.8763889	52.583	II x I	4.678	12.3
2011	5	23	19.992222	59.533	II x III	4.826	12.7
2011	5	25	2.0886111	5.317	II x I	4.297	11.3
2011	5	25	12.210556	12.633	II x I	2.71	7.1
2011	5	25	19.954444	57.267	II x I	5.302	14.0
2011	5	28	15.757778	45.467	II x I	4.012	10.6
2011	5	28	23.751944	45.117	II x I	2.603	6.9
2011	5	29	9.6555556	39.333	II x I	5.808	15.3
2011	5	30	16.748056	44.883	II x III	5.302	14.0

2011	6	1	5.7175	43.050	II x I	3.645	9.5
2011	6	1	11.134722	8.083	II x I	2.595	6.7
2011	6	4	21.655556	39.333	II x I	2.848	7.4
2011	6	8	10.030278	1.817	II x I	5.388	14.0

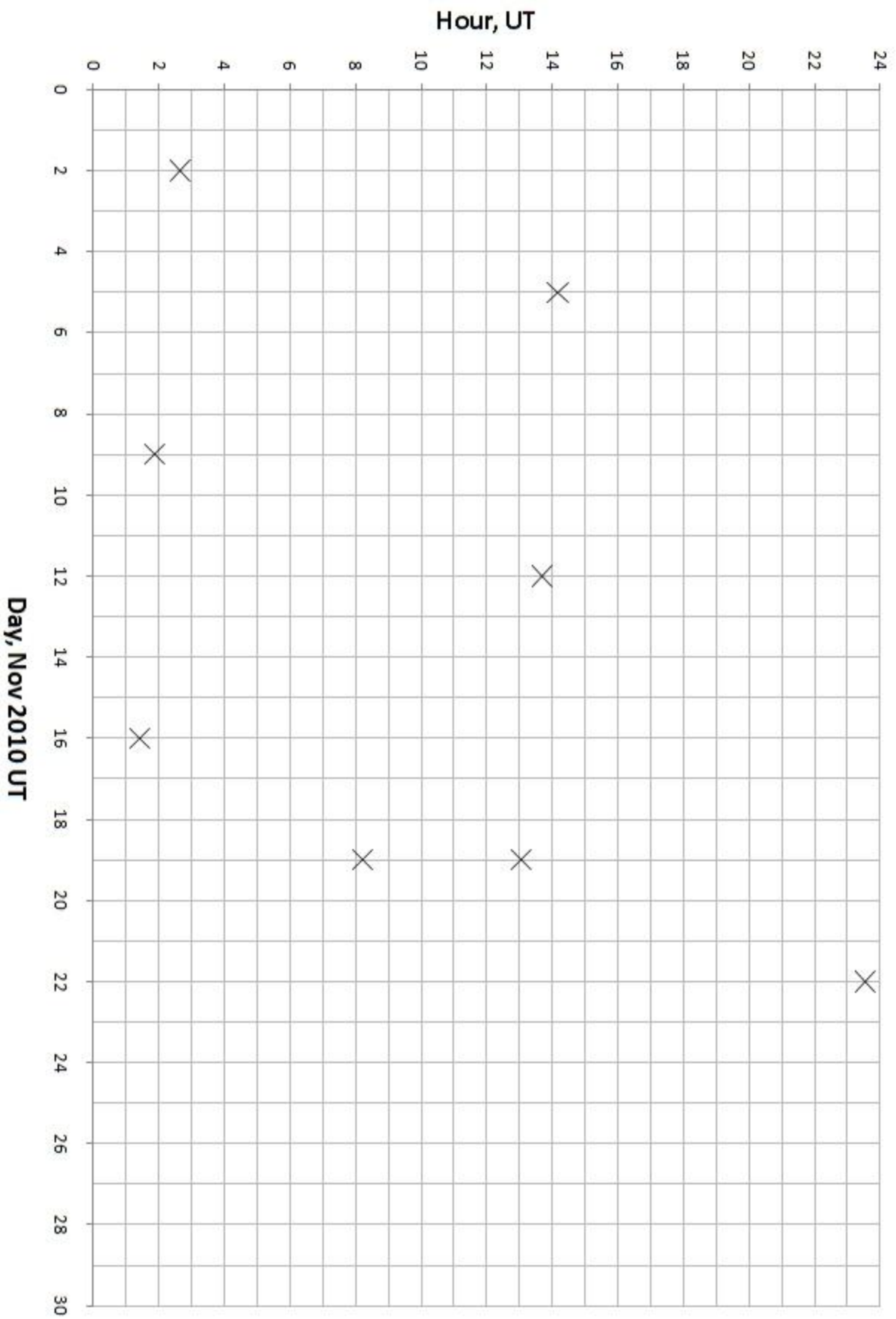
April 2010 Europa extinctions



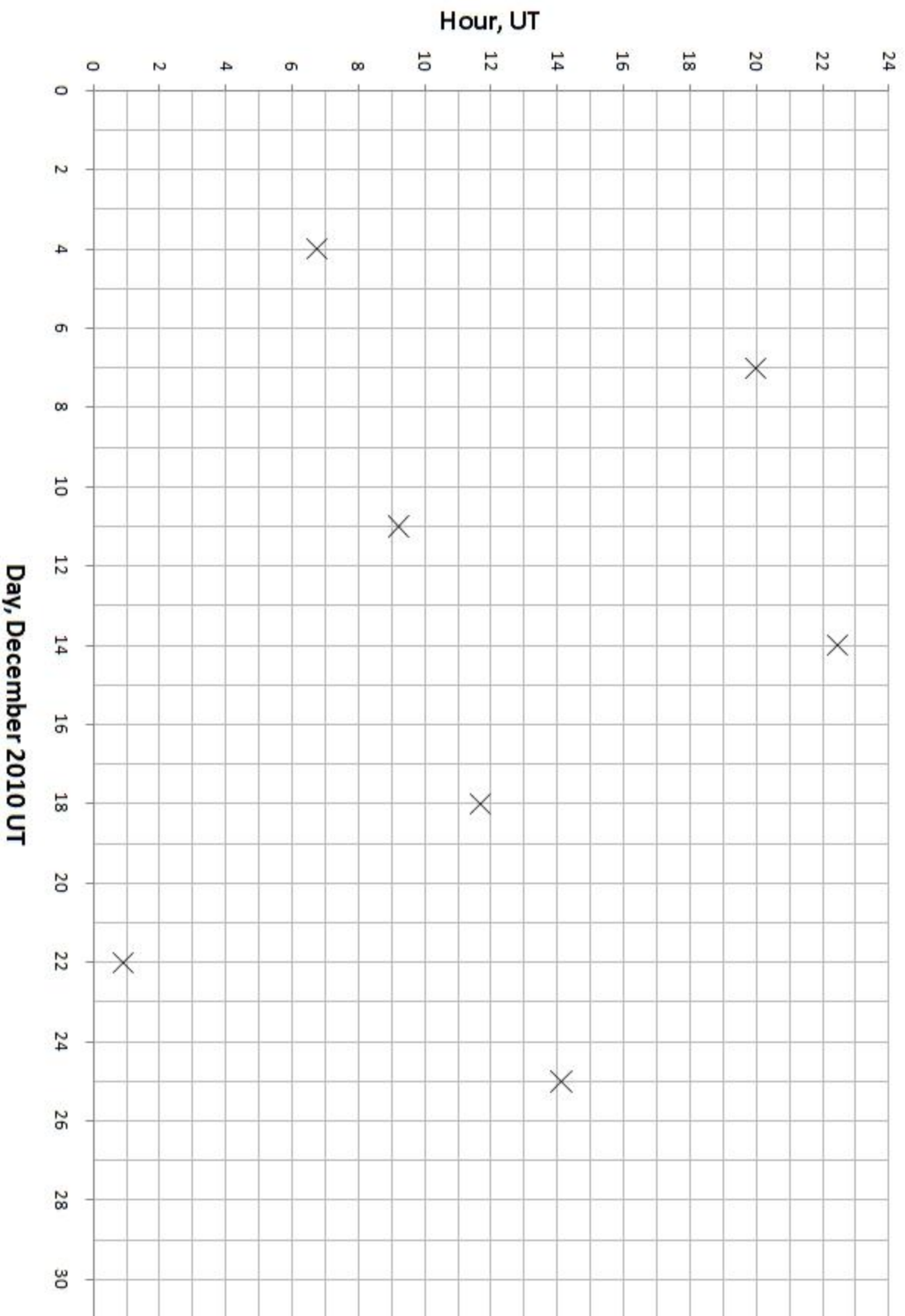
May 2010 Europa extinctions



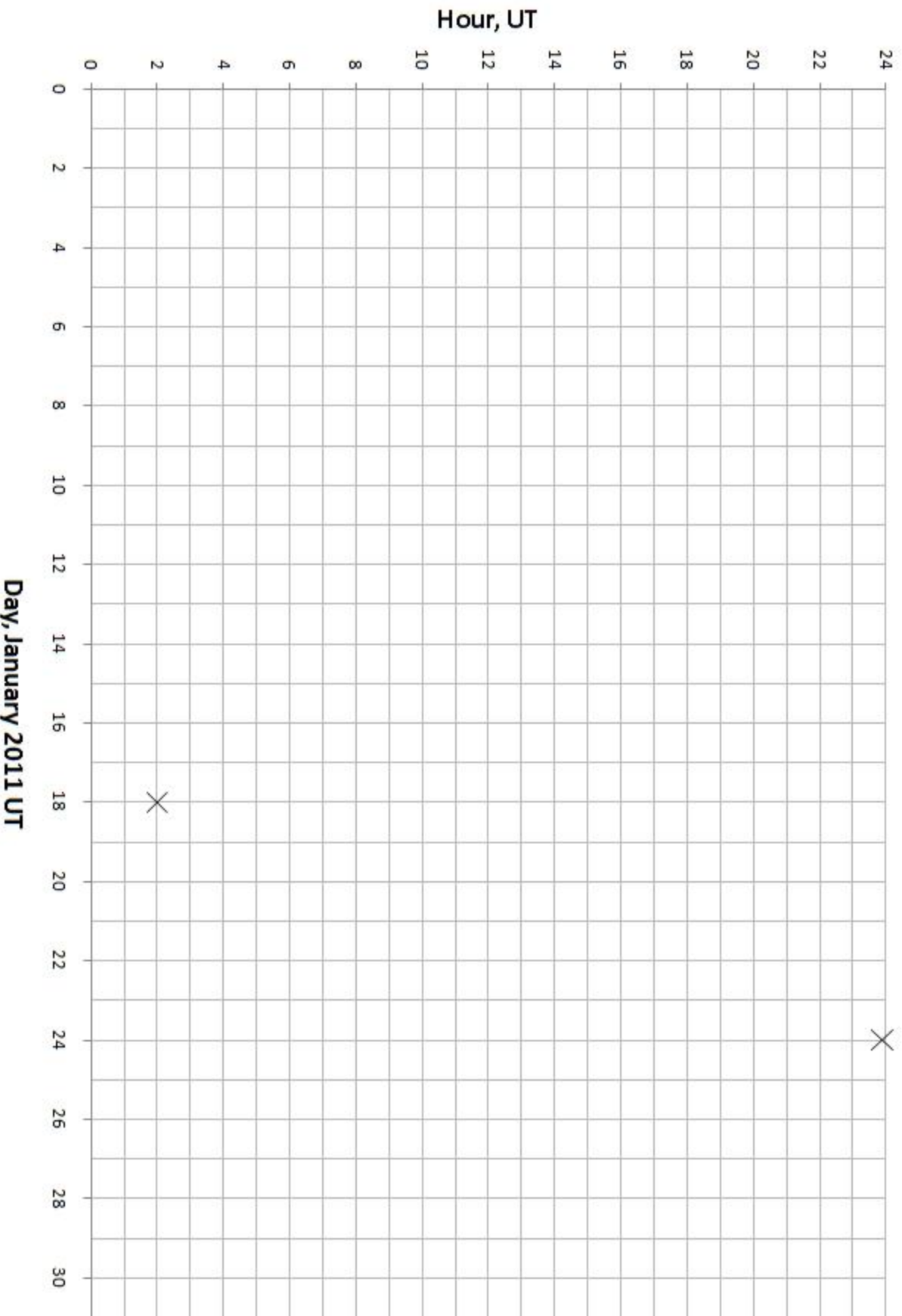
Nov 2010 Io extinctions



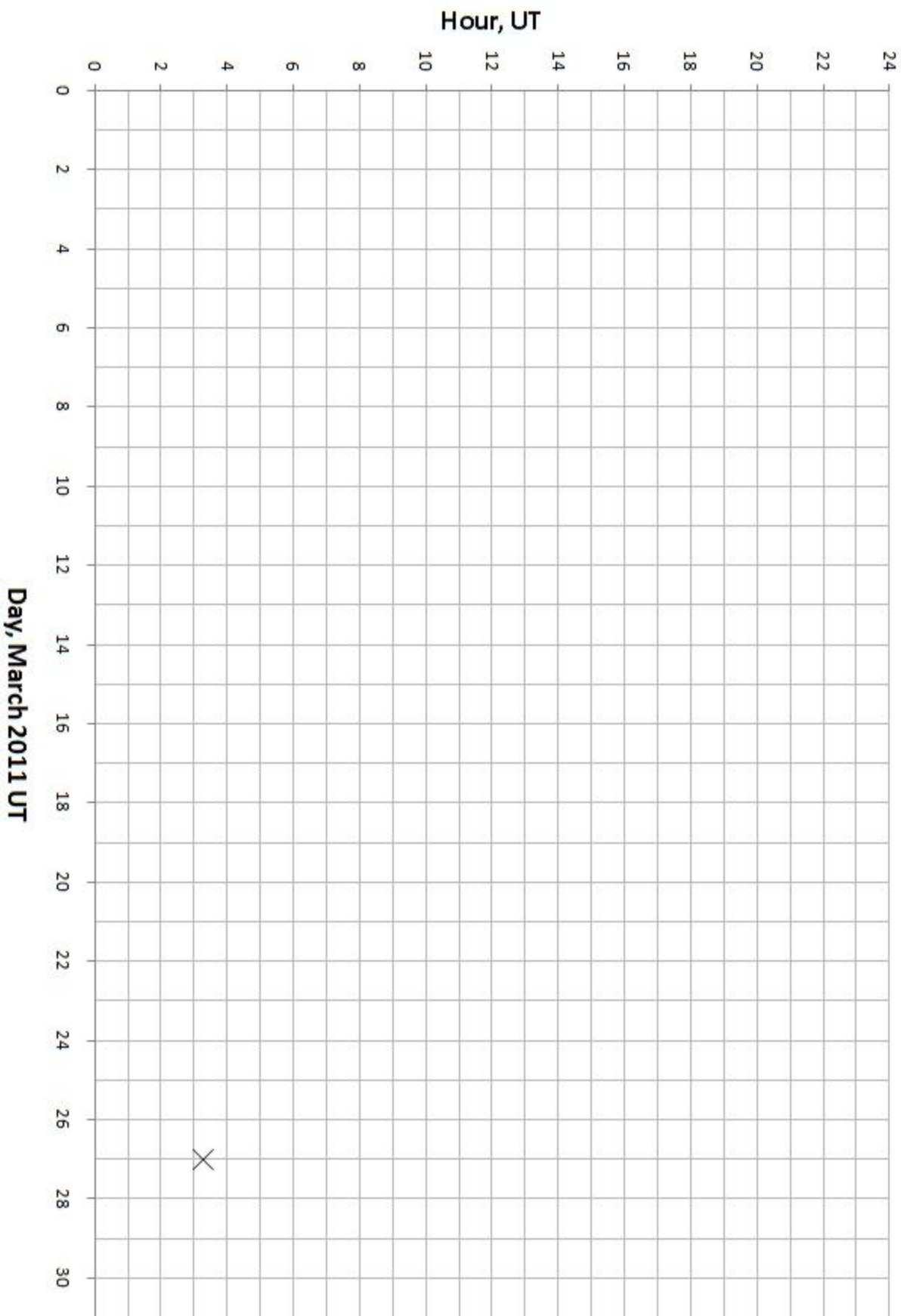
December 2010 CJEE Minima



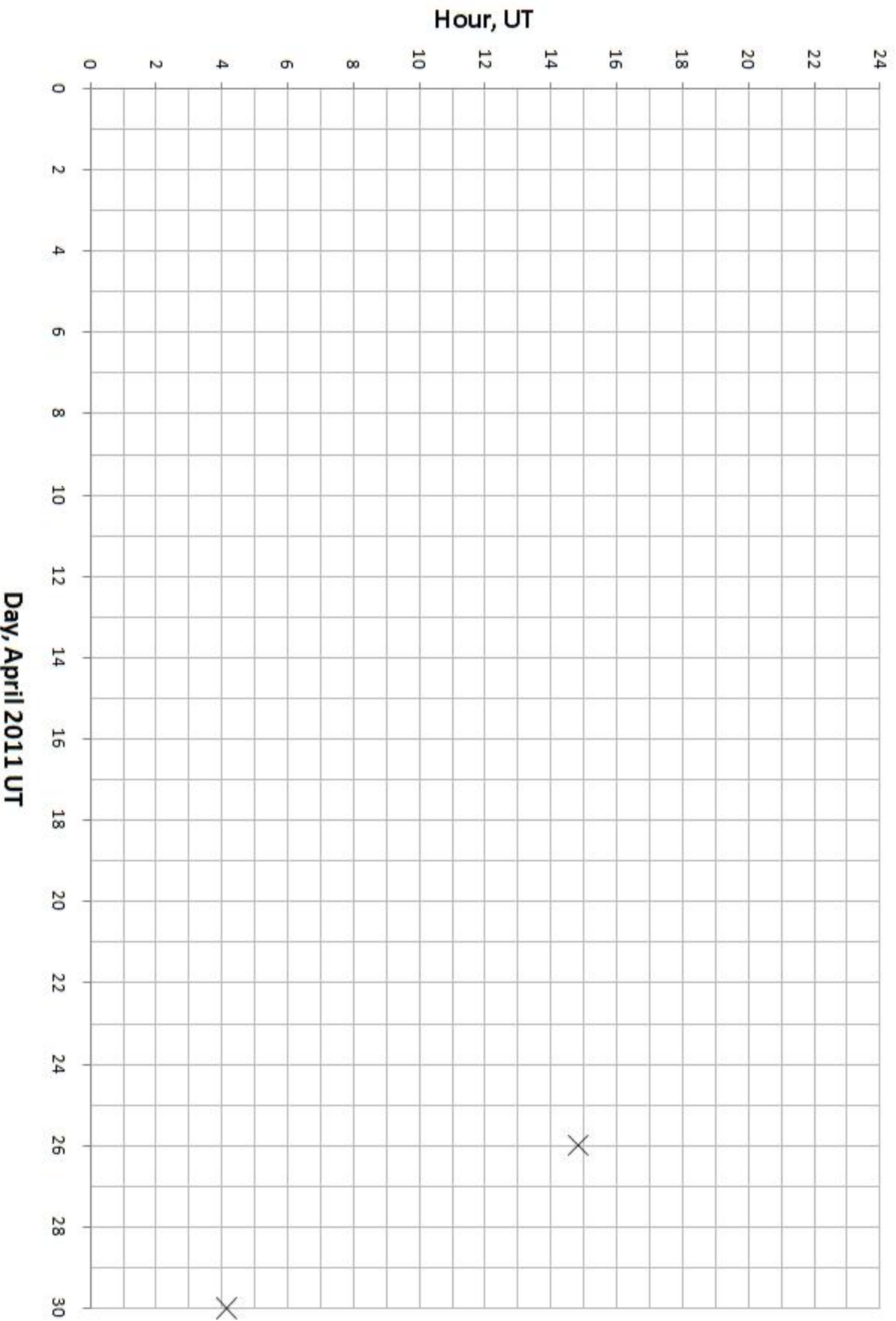
January 2011 CJEE Minima



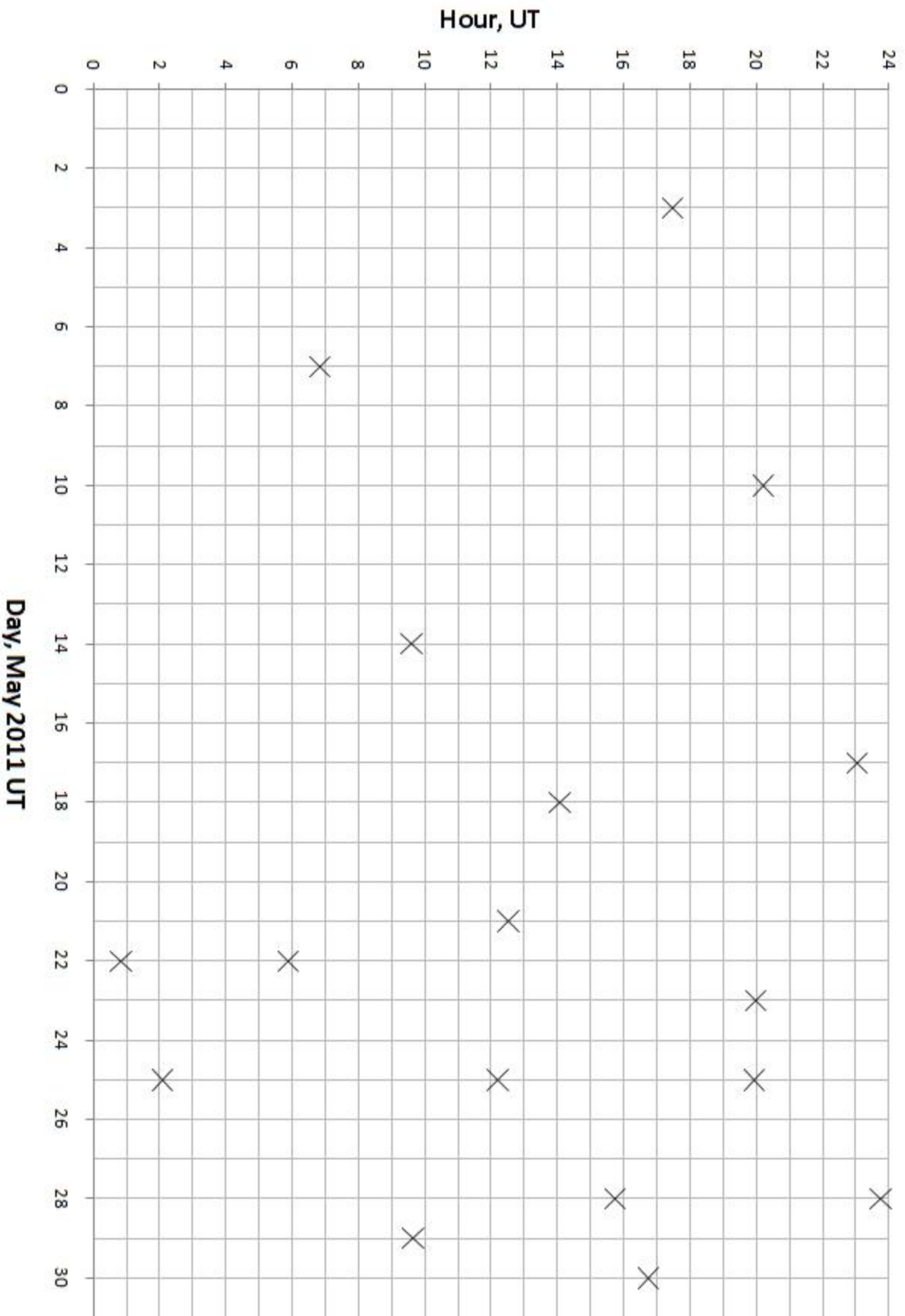
March 2011 CJE Minimums



April 2011 CIEE Minima



May 2011 CJEE Minima



June 2011 CJEE Minima

