

Guide 9 Lunar Eclipse Predictions

Lunar Eclipse Tetrad

Penumbra entered	15 Apr	2014	0:53	EDT
Umbra entered	15 Apr	2014	1:57	EDT
Totality begins	15 Apr	2014	3:05	EDT
Totality ends	15 Apr	2014	4:26	EDT
Umbra left	15 Apr	2014	5:34	EDT
Penumbra left	15 Apr	2014	6:39	EDT

Penumbra entered	8 Oct	2014	4:14	EDT
Umbra entered	8 Oct	2014	5:14	EDT
Totality begins	8 Oct	2014	6:23	EDT
Totality ends	8 Oct	2014	7:26	EDT
Umbra left	8 Oct	2014	8:35	EDT
Penumbra left	8 Oct	2014	9:35	EDT

Penumbra entered	4 Apr	2015	5:00	EDT
Umbra entered	4 Apr	2015	6:15	EDT
Totality begins	4 Apr	2015	7:49	EDT
Totality ends	4 Apr	2015	8:12	EDT
Umbra left	4 Apr	2015	9:46	EDT
Penumbra left	4 Apr	2015	11:00	EDT

Penumbra entered	27 Sep	2015	20:11	EDT
Umbra entered	27 Sep	2015	21:06	EDT
Totality begins	27 Sep	2015	22:10	EDT
Totality ends	27 Sep	2015	23:25	EDT
Umbra left	28 Sep	2015	0:28	EDT
Penumbra left	28 Sep	2015	1:24	EDT