

Table 6

**Crater Immersion and Emergence Times for the
Total Lunar Eclipse of 2010 Dec 21**

UT of Immersion	Crater Name	UT of Emergence	Crater Name
06:38	Grimaldi	09:02	Grimaldi
06:41	Billy	09:04	Aristarchus
06:48	Campanus	09:10	Billy
06:52	Kepler	09:11	Kepler
06:53	Tycho	09:14	Plato
06:56	Aristarchus	09:17	Pytheas
07:01	Copernicus	09:19	Timocharis
07:05	Pytheas	09:19	Copernicus
07:11	Timocharis	09:22	Campanus
07:16	Dionysius	09:24	Aristoteles
07:16	Manilius	09:26	Eudoxus
07:19	Menelaus	09:31	Tycho
07:22	Plinius	09:34	Manilius
07:23	Goclenius	09:37	Menelaus
07:23	Plato	09:41	Dionysius
07:27	Langrenus	09:41	Plinius
07:28	Taruntius	09:50	Proclus
07:28	Eudoxus	09:53	Taruntius
07:30	Aristoteles	09:54	Goclenius
07:31	Proclus	09:59	Langrenus

Predictions include a ~1% enlargement of the umbral shadow due to Earth's atmosphere.

Fred Espenak, "Eclipses During 2010," **Observer's Handbook 2010**, Royal Astronomical Society of Canada, University of Toronto Press, Toronto, 2009.