

**Table 1: Total Lunar Eclipse of 2018 Jan 31  
Crater Immersion and Emersion Times**

<b>UT of Immersion</b>	<b>Crater Name</b>		<b>UT of Emersion</b>	<b>Crater Name</b>
11:54	Riccioli		14:12	Riccioli
11:54	Aristarchus		14:12	Grimaldi
11:55	Grimaldi		14:15	Billy
11:59	Kepler		14:22	Campanus
12:03	Billy		14:23	Aristarchus
12:04	Pytheas		14:23	Kepler
12:06	Copernicus		14:26	Tycho
12:06	Timocharis		14:32	Copernicus
12:06	Plato		14:33	Pytheas
12:11	Autolycus		14:37	Timocharis
12:14	Aristoteles		14:41	Plato
12:15	Eudoxus		14:44	Autolycus
12:16	Campanus		14:47	Manilius
12:18	Manilius		14:49	Aristoteles
12:20	Menelaus		14:49	Dionysius
12:23	Endymion		14:50	Eudoxus
12:24	Plinius		14:50	Menelaus
12:24	Dionysius		14:54	Plinius
12:29	Tycho		14:56	Censorinus
12:32	Censorinus		14:58	Endymion
12:33	Proclus		15:00	Goclenius
12:36	Taruntius		15:02	Messier
12:38	Messier		15:03	Taruntius
12:39	Goclenius		15:03	Proclus
12:43	Langrenus		15:05	Langrenus

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

Courtesy of Fred Espenak, "Eclipses During 2018", 2018 Observer's Handbook, Royal Astronomical Society Of Canada.