

**Table 2: Total Lunar Eclipse of 2019 Jan 21
Crater Immersion and Emersion Times**

UT of Immersion	Crater Name		UT of Emersion	Crater Name
03:39	Grimaldi		05:53	Aristarchus
03:41	Billy		05:53	Grimaldi
03:46	Campanus		06:00	Kepler
03:51	Tycho		06:00	Billy
03:52	Kepler		06:01	Plato
03:57	Aristarchus		06:05	Pytheas
03:59	Copernicus		06:07	Timocharis
04:04	Pytheas		06:08	Copernicus
04:10	Timocharis		06:11	Aristoteles
04:13	Dionysius		06:12	Campanus
04:14	Manilius		06:13	Eudoxus
04:17	Menelaus		06:21	Manilius
04:20	Goclenius		06:21	Tycho
04:20	Plinius		06:24	Menelaus
04:23	Plato		06:28	Plinius
04:25	Langrenus		06:28	Dionysius
04:25	Taruntius		06:37	Proclus
04:27	Eudoxus		06:40	Taruntius
04:29	Proclus		06:42	Goclenius
04:30	Aristoteles		06:47	Langrenus

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

**"Eclipses During 2019", Fred Espenak,
Observer's Handbook 2019, Royal Astronomical Society of Canada**