AdNite2 - Night Illuminance

Be aware

- Times in UTC
- Lunar eclipses NOT considerated
- More info: http://adnite2.foehnwall.at

LOWG (Graz - Graz Airport) - 2016-03-14

Sun, moon and illuminance tables

1. Sun

Date	Sun set	ECET	ENET	BNMT	BCMT	Sun rise
2016-03-14	14 17:03	14 17:33	14 18:09	15 04:05	15 04:40	15 05:11

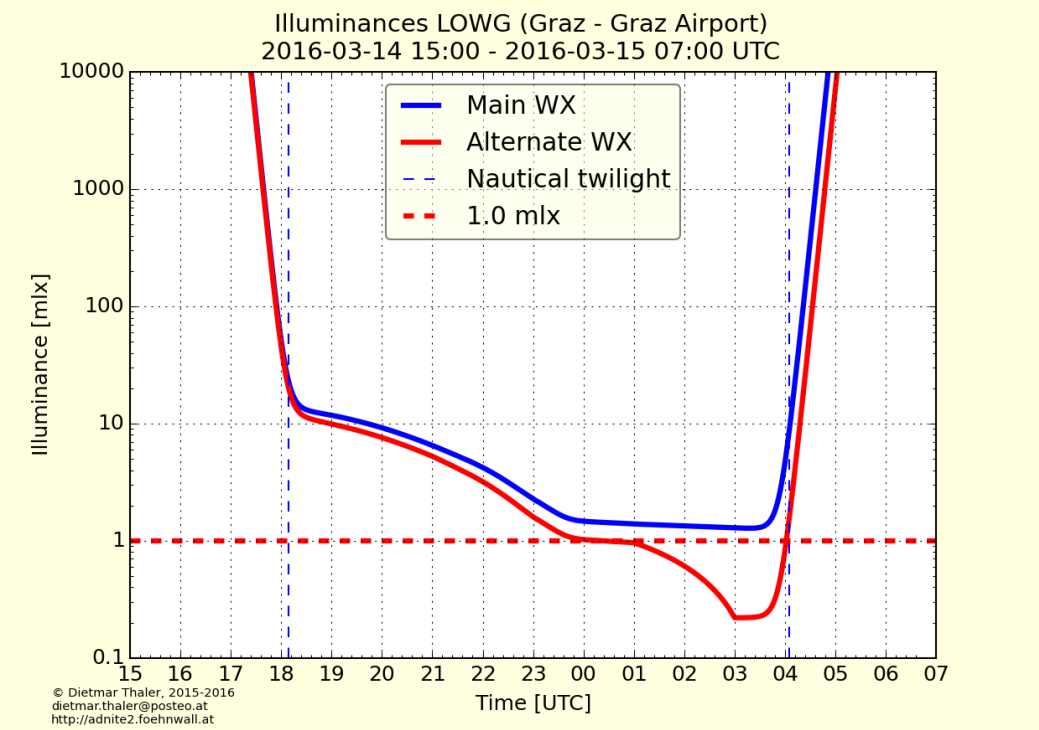
2. Mond

Date	Moon	Moon	Phase	Full moon	New moon
2016-03-14	r : 14 08:40	s : 14 23:44	42 %	2016-03-23	2016-04-07

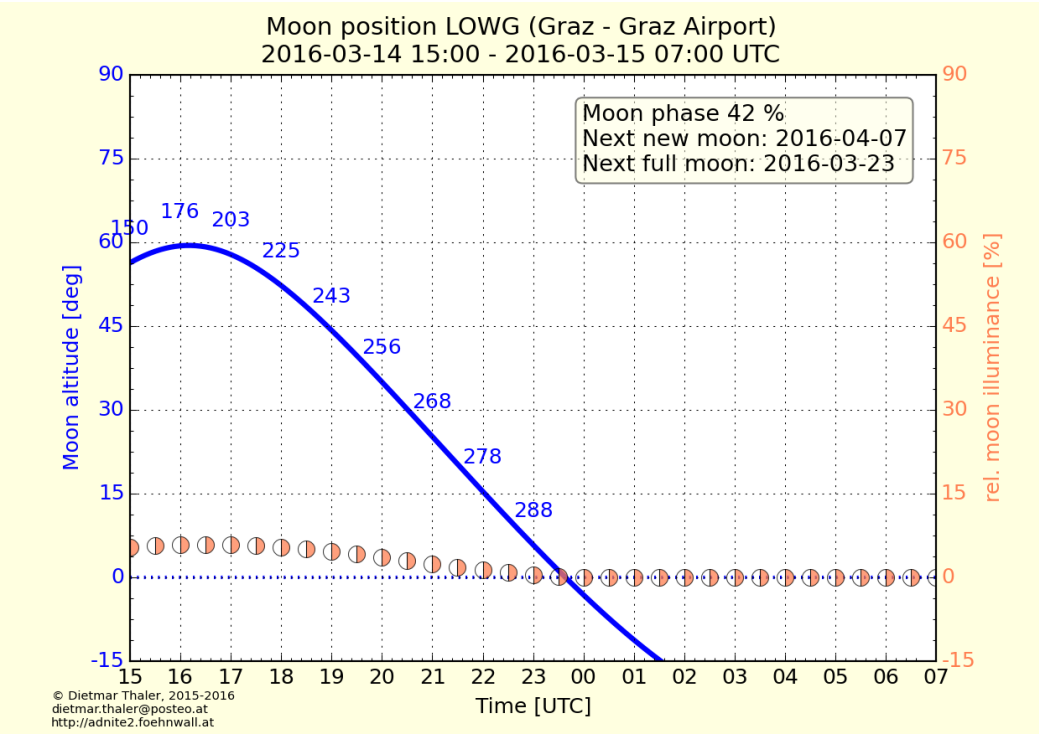
3. Moon position and illuminance

Time [UTC]	15:00	17:00	19:00	21:00	23:00	01:00	03:00	05:00	07:00
Moon alt. [deg]	56	58	44	25	6	-11	-23	-26	-19
Azimuth [deg]	150	203	243	268	288	310	336	6	35
rel. illumnin.	5 %	6 %	5 %	2 %	0 %	0 %	0 %	0 %	0 %
Prevailing	*15:00*	*17:00*	*19:00*	*21:00*	*23:00*	*01:00*	*03:00*	*05:00*	*07:00*
Clouds N/10	2	2	2	3	4	4	5	6	7
Cloud density	thn.m.	thn.m.	thn.m.	thn.m.	thn.m.	thk.m.	thk.m.	thk.m.	thick
State of ground	dry	dry	dry	dry	dry	dry	dry	dry	dry
Illumin. [mlx]	9999	9999	11.8	6.5	2.3	1.4	1.3	9999	9999
Minimum	*15:00*	*17:00*	*19:00*	*21:00*	*23:00*	*01:00*	*03:00*	*05:00*	*07:00*
Clouds N/10	4	4	4	5	7	8	10	10	10
Wolken-Dichte	thn.m.	thn.m.	thk.m.	thk.m.	thk.m.	thk.m.	thick	thick	thick
Bodenzustand	dry	dry	dry	dry	dry	dry	humid	humid	humid
Beleucht.[mlx]	9999	9999	9.9	5.3	1.6	1.0	0.2	9999	9999

Night time illuminance



Moon position and relative illuminance



Notes for use

Graphics

- **Night time illuminance**

  It shows the illuminance for standard weather conditions (blue graph) and for alternat conditions (red) in mililux. The nautical twilight is marked by dashed blue vertical line and a configurable illuminance threshold is indicated by a red horizontal dashed line.

- **Moon position und relative illuminance**

  Both, moon altitude (blue graph) and moon azimuth (blue figures), in degrees. The relative illuminance of the moon on the horizontal surface in percent of the illuminance of the mean full moon in the zenith.

  The red circels show the iconised phase of the moon.

  filled: about full moon (**phase 80-100%**)

  half filled: about the 1st quarter (northern menisphere: right filled, otherwise left filled) or about the 3rd quarter (northern hemisphere: left filled, otherwise right filled) waxing or vanning moon. (**phase 20-80%**)

  empty: about the new moon (**phase 0-20%**)

Tables

- **rel. illum. - relative illuminance of the moon**

  The relative illuminance of the moon on the horizontal surface in percent of the illuminance of the mean full moon in the zenith is shown.

- **Cloud density**:

  - *thin*: cirrus or thin cirrostratus, thin altocumulus translucidus, very thin stratus or stratocumulus.
  - *thn.m (medium thin)* : single level standard clouds without precipitation and minor thickness: fog, stratus, stratocumulus, cumulus humilis, thin altocumulus, thin altostratus or thick cirrostratus.
  - *thk.m (medium thick)*: single level or thin multilevel clouds, sometimes also with drizzle or very feeble precipitation: thick fog, thick stratus, stratocumulus, cumulus mediocris, standard altocumulus, altostratus.
  - *Thick*: nimbostratus, cumulonimbus, TCU, thick multilevel clouds, frequently associated with precipitation.

- **State of ground**
  - *dry*: Dry standard ground (meadows, fields, roads, buildings, ..)
  - *hum -- humid*: Humid by dew, drizzle or quite feeble rain, no puddles, ..)
  - *frz -- frozen*: Frozen ground but not snow covered, maybe some rime.
  - *wet*: Wet by moderate or heavy rain or rain showers, puddles have formed. A dense conifer forest can be similar.
  - *sno - old snow*: Humid or old snow, eventually also thin fresh snow or fresh snow with free patches.
  - *snf - fresh snow*: Completely covered with dense fresh snow, probably also an elder but very cold snow cover. Preferably powder snow or an untouched snow cover in high mountains.