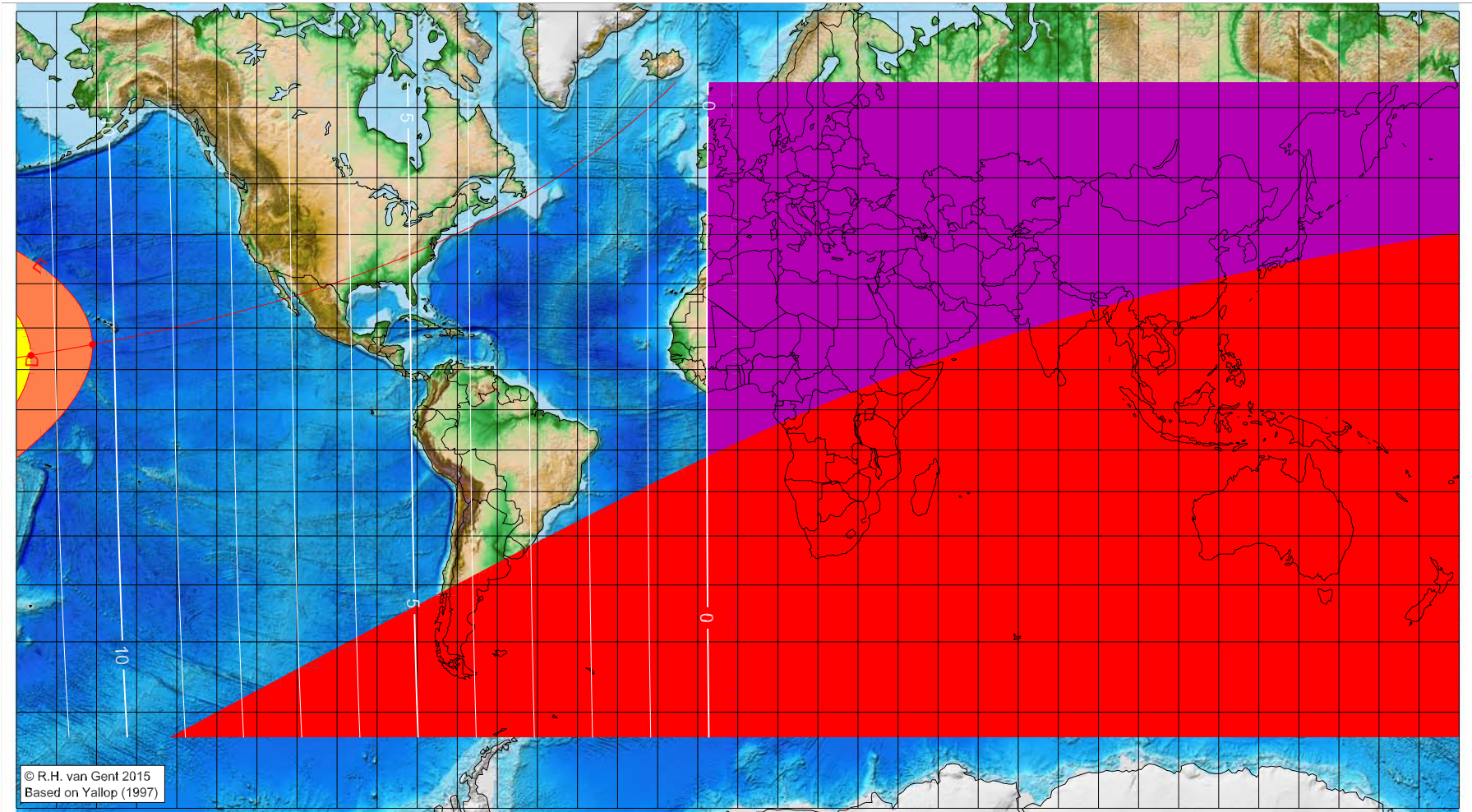


First visibility lunar crescent for Şafar 1441 AH

Global visibility map for 28 September 2019 [Saturday]
Day of luni-solar conjunction



© R.H. van Gent 2015
Based on Yallop (1997)

Astronomical New Moon: 28 September 2019, 18h 26.5m (UTC)

First visibility (•)

Astronomical (Brown) Lunation Number = 1197
Islamic Lunation Number = 17282
TT - UT [= ΔT] = 1.2 min

- A – easily visible to the unaided eye
- B – visible under perfect atmospheric conditions
- C – visible to the unaided eye after found with optical aid
- D – only visible with binoculars or conventional telescopes
- E – not visible with conventional telescopes
- F – below Danjon limit (7°)

Longitude (°)	Latitude (°)	Lunar age (h)
-176.39	13.44	11.41
-161.02	16.06	10.36

Lunar age (in hours) is given for the 'best time', defined as the moment 4/9ths between sunset and moonset

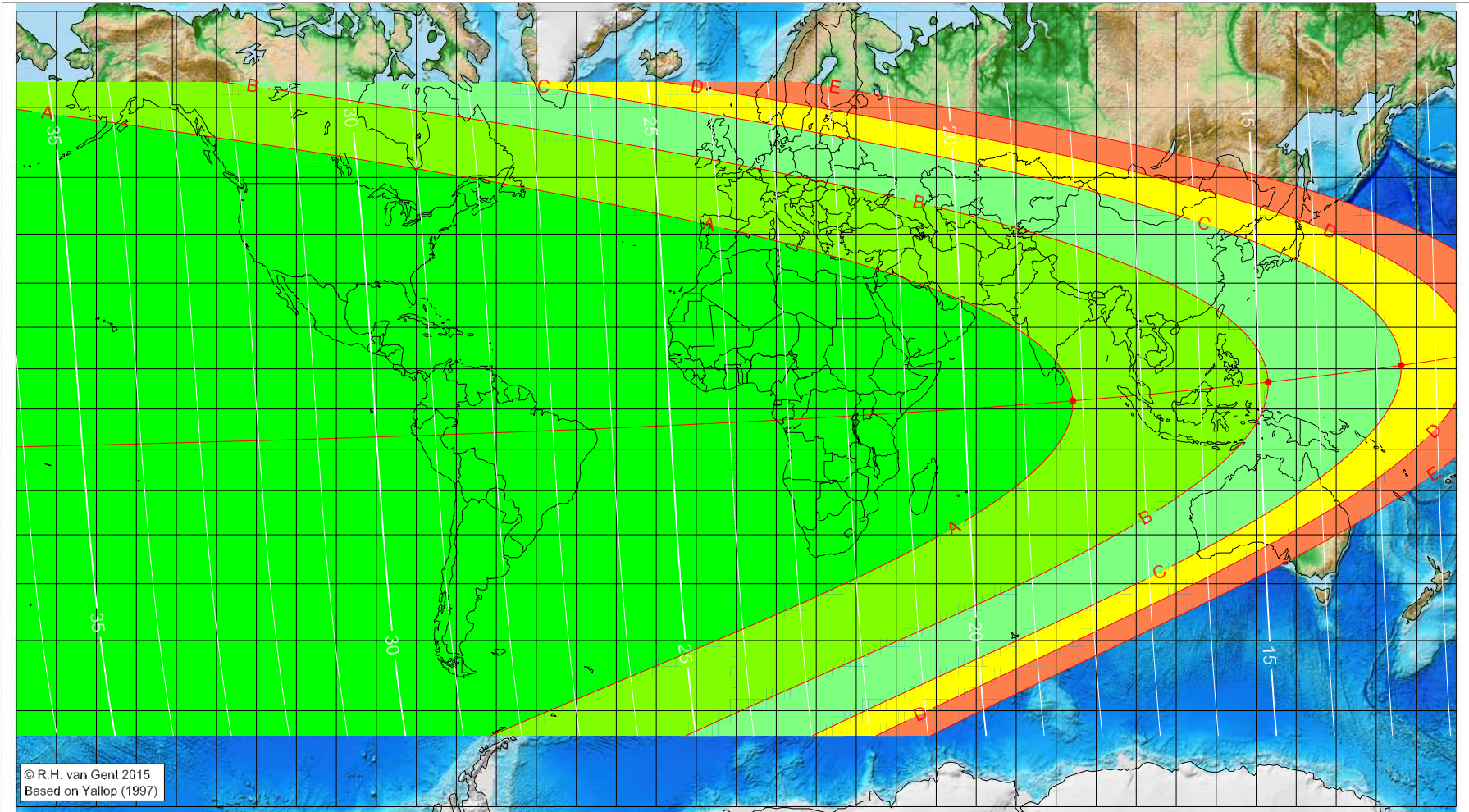
■ moonset before sunset

■ before conjunction (astronomical new moon)

More info: <http://www.staff.science.uu.nl/~gent0113/>

First visibility lunar crescent for Şafar 1441 AH

Global visibility map for 29 September 2019 [Sunday]
Day after luni-solar conjunction



Astronomical New Moon: 28 September 2019, 18h 26.5m (UTC)

First visibility (●)

Astronomical (Brown) Lunation Number = 1197
Islamic Lunation Number = 17282
TT - UT [= ΔT] = 1.2 min

- A – easily visible to the unaided eye
- B – visible under perfect atmospheric conditions
- C – visible to the unaided eye after found with optical aid
- D – only visible with binoculars or conventional telescopes
- E – not visible with conventional telescopes
- F – below Danjon limit (7°)
- moonset before sunset
- before conjunction (astronomical new moon)

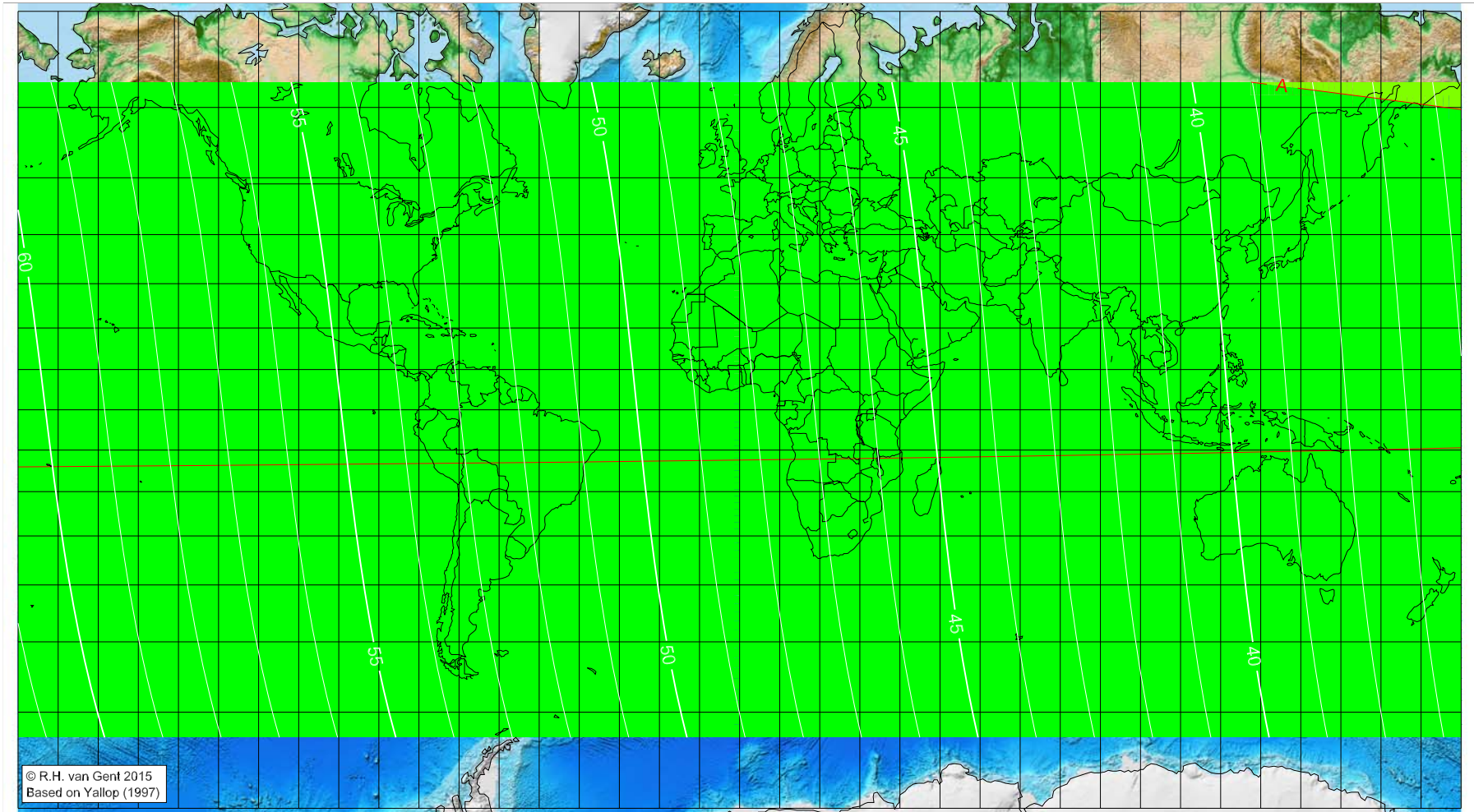
Longitude (°)	Latitude (°)	Lunar age (h)
84.15	2.04	18.17
133.00	6.67	14.85
166.26	10.83	12.59
visible on the previous evening		
visible on the previous evening		

Lunar age (in hours) is given for the 'best time', defined as the moment 4/9ths between sunset and moonset

More info: <http://www.staff.science.uu.nl/~gent0113/>

First visibility lunar crescent for Şafar 1441 AH

Global visibility map for 30 September 2019 [Monday]
Second day after luni-solar conjunction



Astronomical New Moon: 28 September 2019, 18h 26.5m (UTC)

- A – easily visible to the unaided eye
- B – visible under perfect atmospheric conditions
- C – visible to the unaided eye after found with optical aid
- D – only visible with binoculars or conventional telescopes
- E – not visible with conventional telescopes
- F – below Danjon limit (7°)
- moonset before sunset
- before conjunction (astronomical new moon)

Astronomical (Brown) Lunation Number = 1197
Islamic Lunation Number = 17282
 $TT - UT [= \Delta T] = 1.2 \text{ min}$

Lunar age (in hours) is given for the 'best time', defined as the moment 4/9ths between sunset and moonset

More info: <http://www.staff.science.uu.nl/~gent0113/>