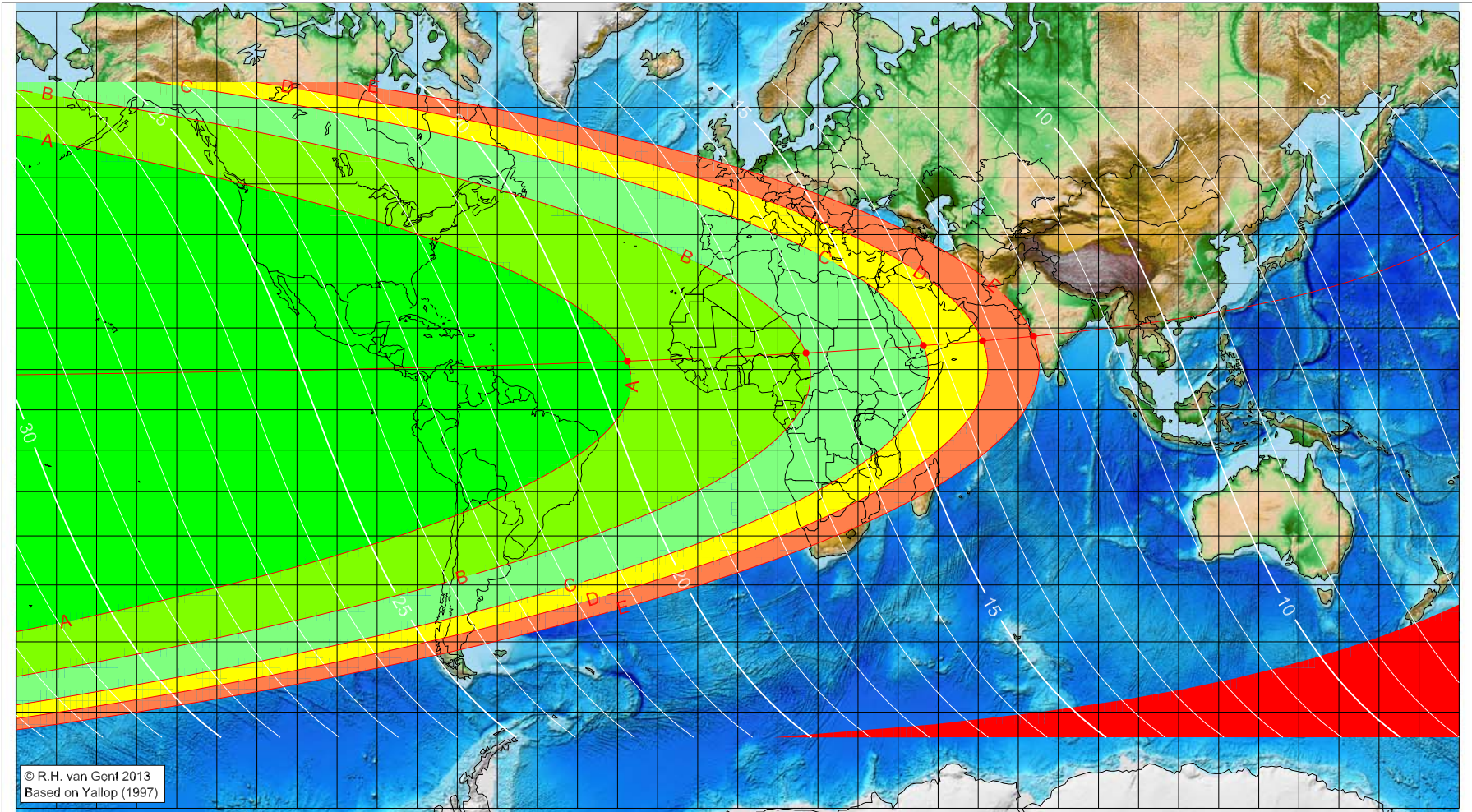


# First visibility lunar crescent for Şafar 1435 AH

Global visibility map for 3 December 2013 [Tuesday]  
Day of luni-solar conjunction



© R.H. van Gent 2013  
Based on Yallop (1997)

Astronomical New Moon: 3 December 2013, 0h 22.5m (UTC)

First visibility (•)

Astronomical (Brown) Lunation Number = 1125

Islamic Lunation Number = 17210

TT - UT [= ΔT] = 1.1 min

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

- 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

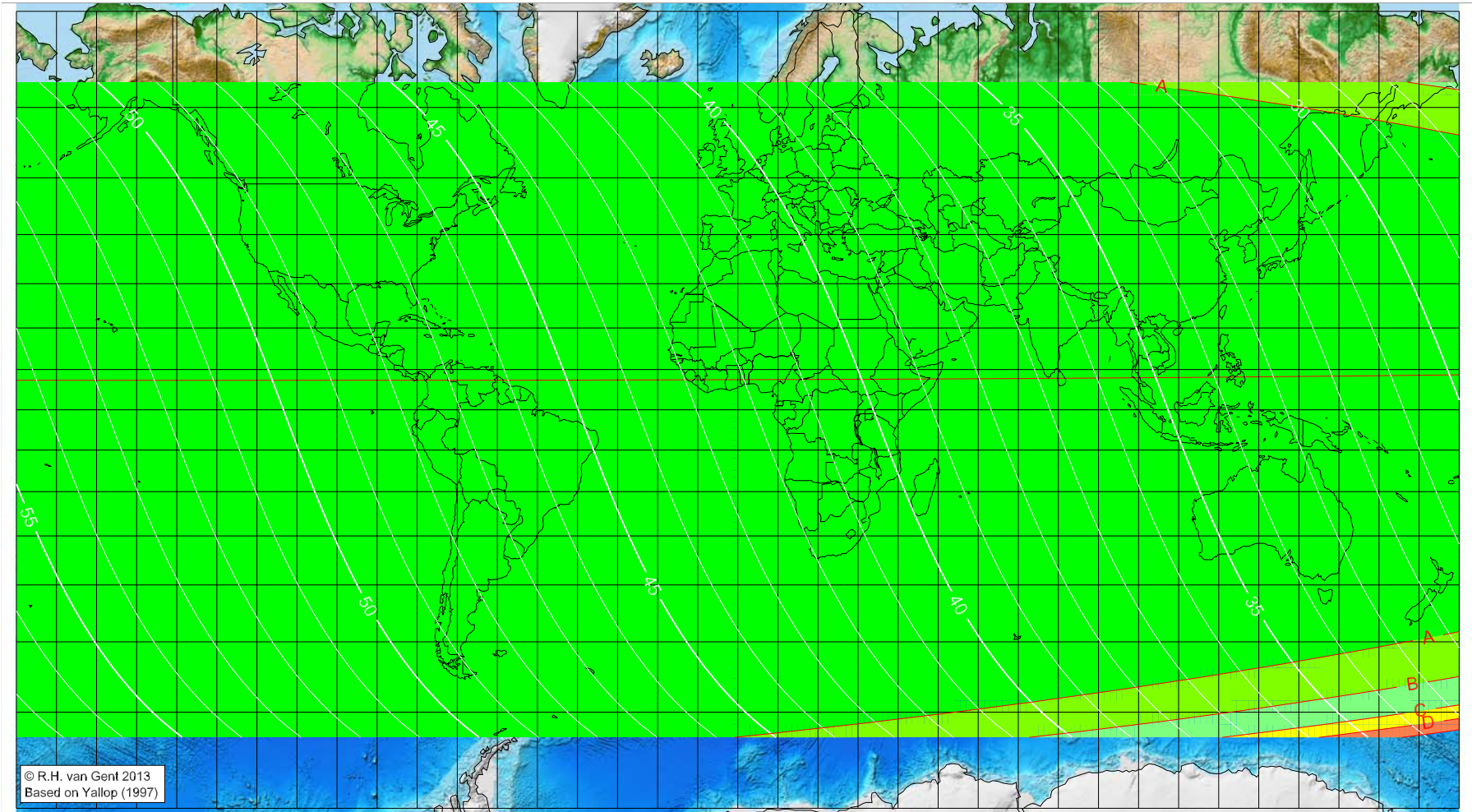
■ before conjunction (astronomical new moon)

Longitude (°)	Latitude (°)	Lunar age (h)
-27.54	12.06	19.38
17.02	14.04	16.30
46.30	15.83	14.26
61.08	16.94	13.23
73.79	18.04	12.33

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

# First visibility lunar crescent for Şafar 1435 AH

Global visibility map for 4 December 2013 [Wednesday]  
Day after luni-solar conjunction



© R.H. van Gent 2013  
Based on Yallop (1997)

Astronomical New Moon: 3 December 2013, 0h 22.5m (UTC)

First visibility (•)

Longitude (°)	Latitude (°)	Lunar age (h)
		visible on the previous evening
		visible on the previous evening
		visible on the previous evening
		visible on the previous evening

Astronomical (Brown) Lunation Number = 1125  
Islamic Lunation Number = 17210  
TT - UT [= ΔT] = 1.1 min

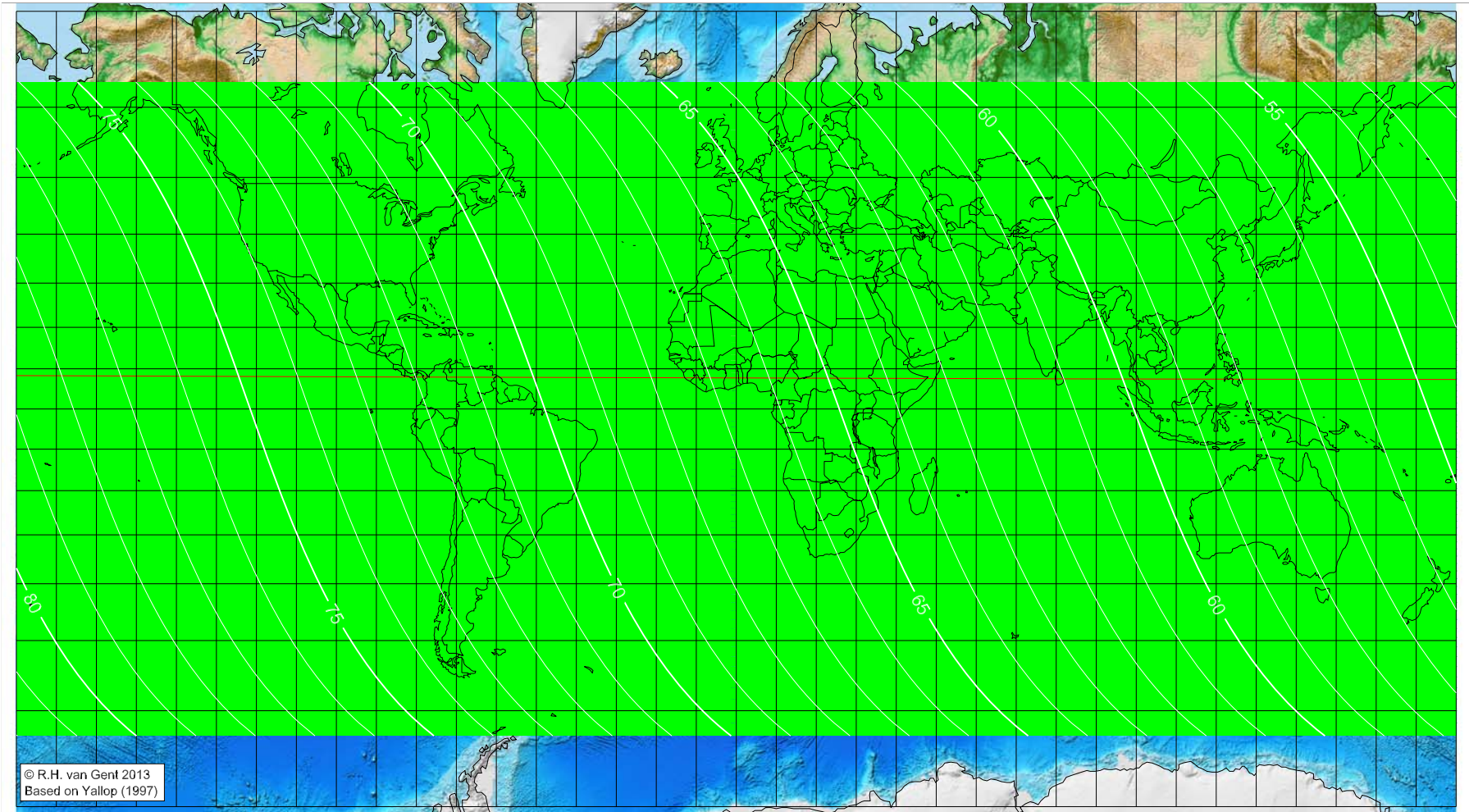
Lunar age (in hours) is given for the 'best time',  
defined as the moment 4/9ths between sunset  
and moonset

- 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)

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

# First visibility lunar crescent for Şafar 1435 AH

Global visibility map for 5 December 2013 [Thursday]  
Second day after luni-solar conjunction



Astronomical New Moon: 3 December 2013, 0h 22.5m (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 ( $7^\circ$ )
- moonset before sunset
- before conjunction (astronomical new moon)

Astronomical (Brown) Lunation Number = 1125  
Islamic Lunation Number = 17210  
 $TT - UT [= \Delta T] = 1.1 \text{ min}$

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/>