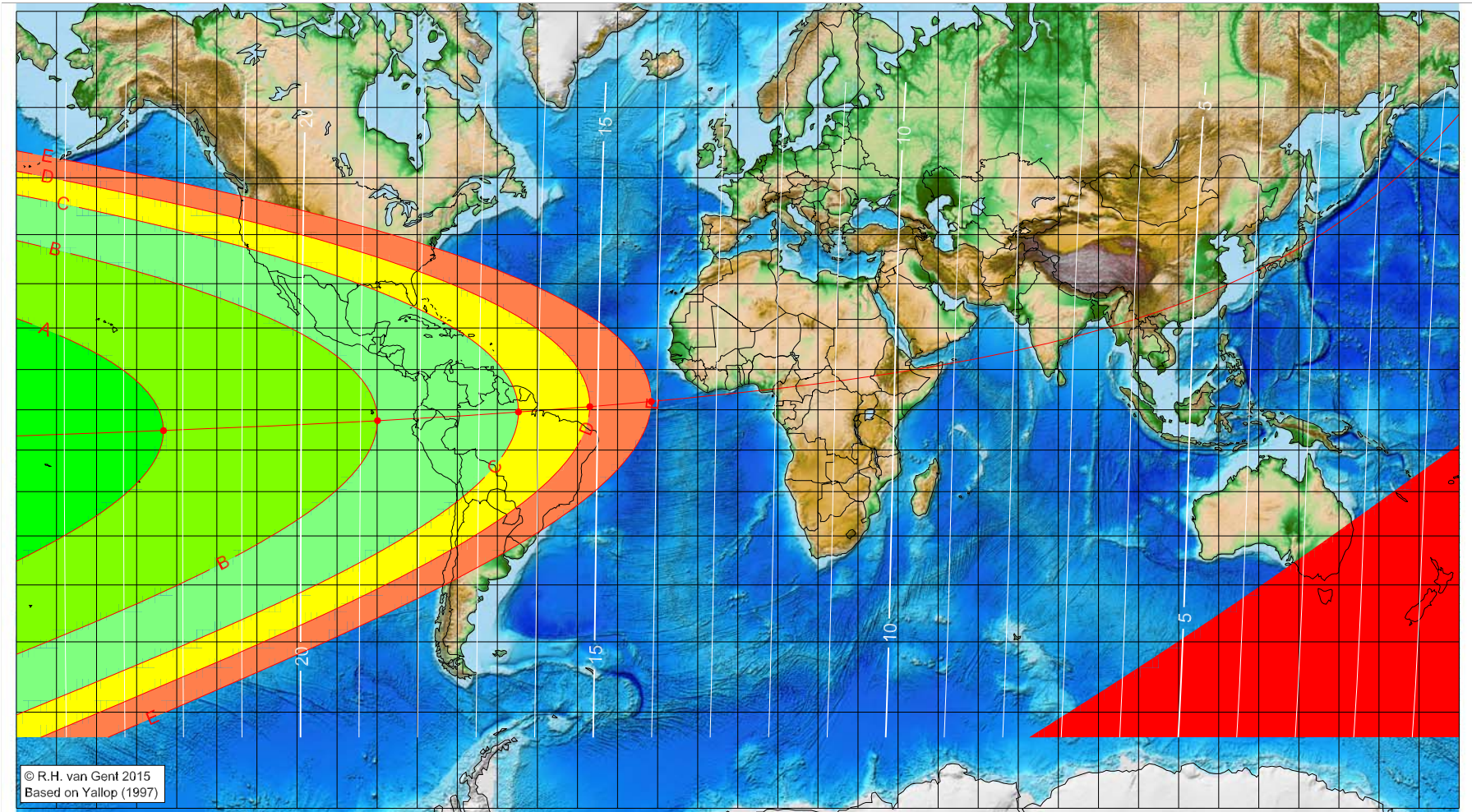


First visibility lunar crescent for Muḥarram 1439 AH

Global visibility map for 20 September 2017 [Wednesday]
Day of luni-solar conjunction



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

Astronomical New Moon: 20 September 2017, 5h 29.9m (UTC)

First visibility (●)

	Longitude (°)	Latitude (°)	Lunar age (h)
● A	-143.31	-5.19	22.33
● B	-89.90	-2.70	18.71
● C	-54.73	-0.54	16.34
● D	-36.93	0.78	15.13
● E	-21.57	2.07	14.10

Astronomical (Brown) Lunation Number = 1172

Islamic Lunation Number = 17257

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°)

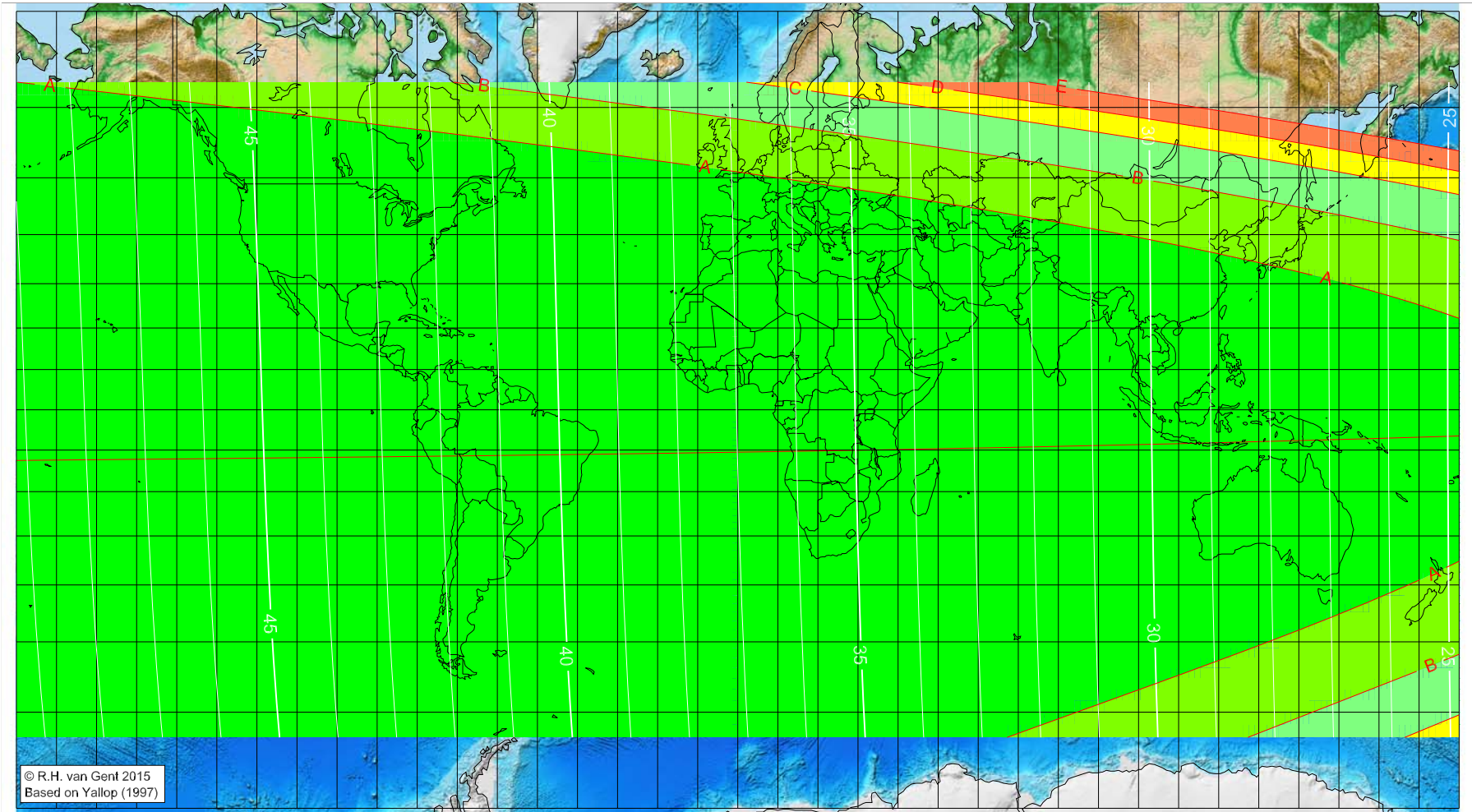
■ moonset before sunset

■ before conjunction (astronomical new moon)

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

First visibility lunar crescent for Muḥarram 1439 AH

Global visibility map for 21 September 2017 [Thursday]
Day after luni-solar conjunction



Astronomical New Moon: 20 September 2017, 5h 29.9m (UTC)

First visibility (•)

Astronomical (Brown) Lunation Number = 1172

Islamic Lunation Number = 17257

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

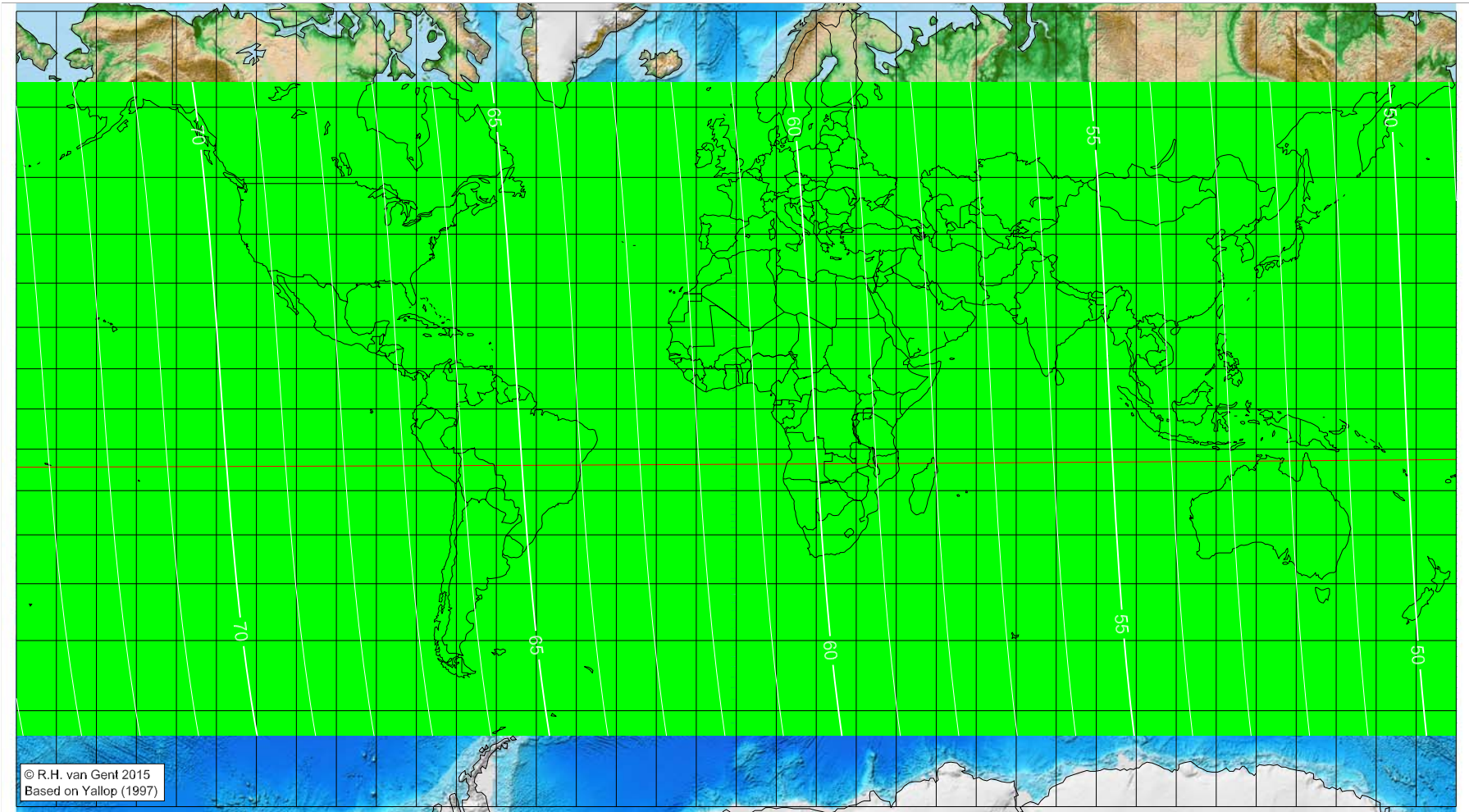
- A – easily visible to the unaided eye
- B – visible under perfect atmospheric conditions
- C – visible to the unaided eye after found with optical aid
- D – only visible with binoculars or conventional telescopes
- E – not visible with conventional telescopes
- F – below Danjon limit (7°)
- moonset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

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

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

First visibility lunar crescent for Muḥarram 1439 AH

Global visibility map for 22 September 2017 [Friday]
Second day after luni-solar conjunction



Astronomical New Moon: 20 September 2017, 5h 29.9m (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 = 1172
Islamic Lunation Number = 17257
 $TT - UT [= \Delta T] = 1.1 \text{ min}$

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/>