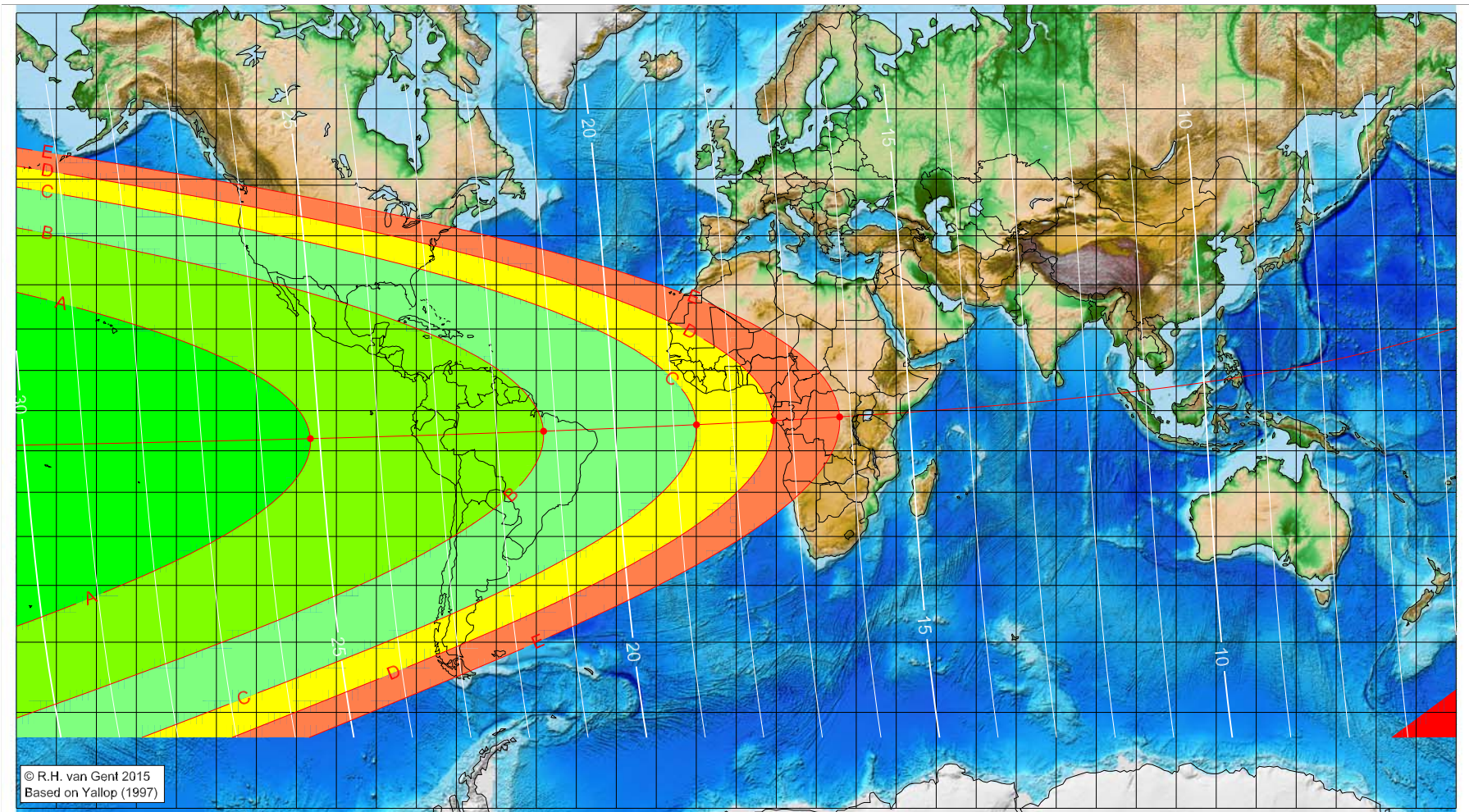


# First visibility lunar crescent for Muḥarram 1438 AH

Global visibility map for 1 October 2016 [Saturday]  
Day of luni-solar conjunction



Astronomical New Moon: 1 October 2016, 0h 11.4m (UTC)

First visibility (●)

Astronomical (Brown) Lunation Number = 1160

Islamic Lunation Number = 17245

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

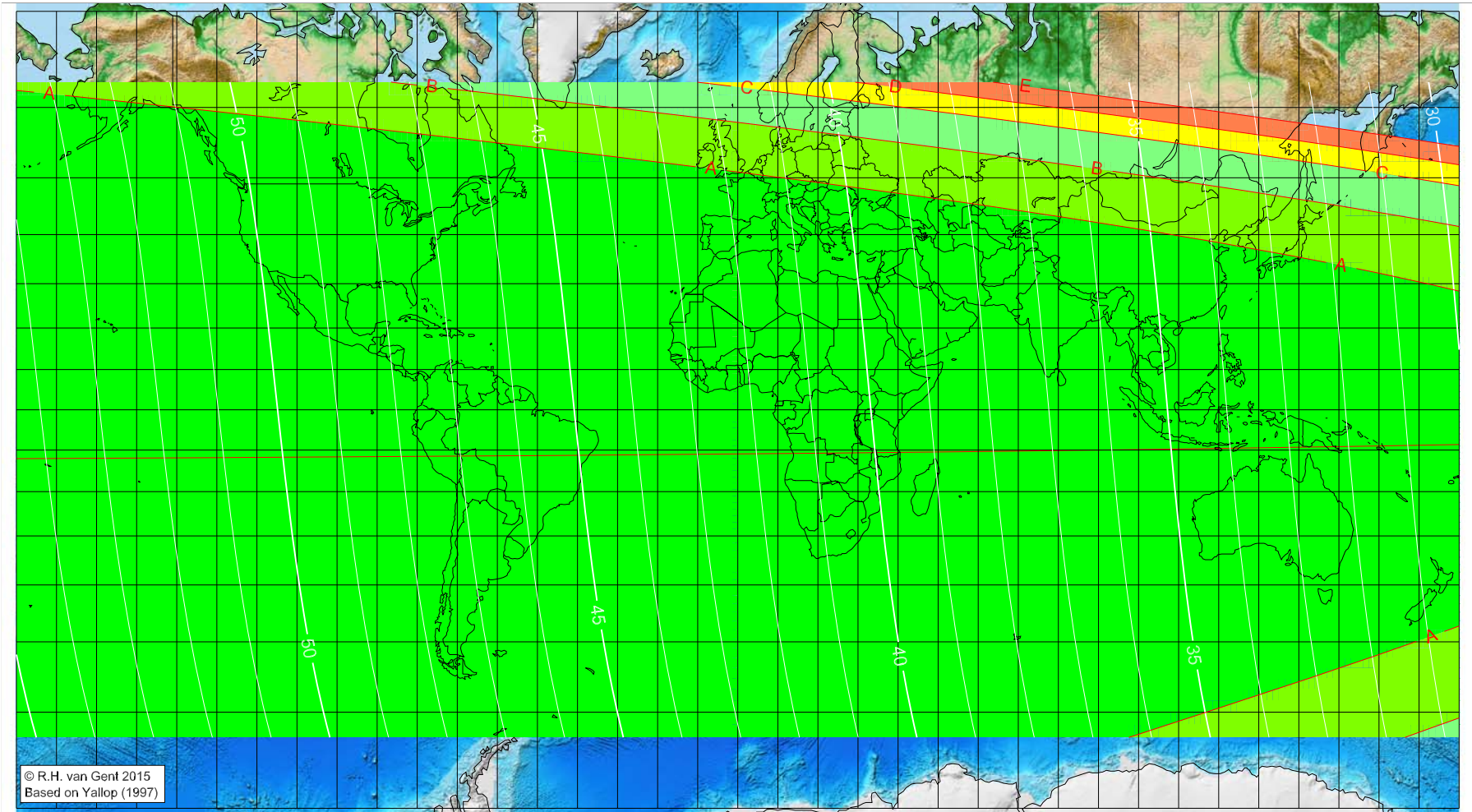
- A – easily visible to the unaided eye
- B – visible under perfect atmospheric conditions
- C – visible to the unaided eye after found with optical aid
- D – only visible with binoculars or conventional telescopes
- E – not visible with conventional telescopes
- F – below Danjon limit (7°)
- moonset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

Longitude (°)	Latitude (°)	Lunar age (h)
-106.49	-6.99	25.16
-48.18	-5.15	21.21
-9.96	-3.53	18.62
9.30	-2.54	17.31
25.86	-1.58	16.19

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

# First visibility lunar crescent for Muḥarram 1438 AH

Global visibility map for 2 October 2016 [Sunday]  
Day after luni-solar conjunction



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Based on Yallop (1997)

Astronomical New Moon: 1 October 2016, 0h 11.4m (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 = 1160

Islamic Lunation Number = 17245

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

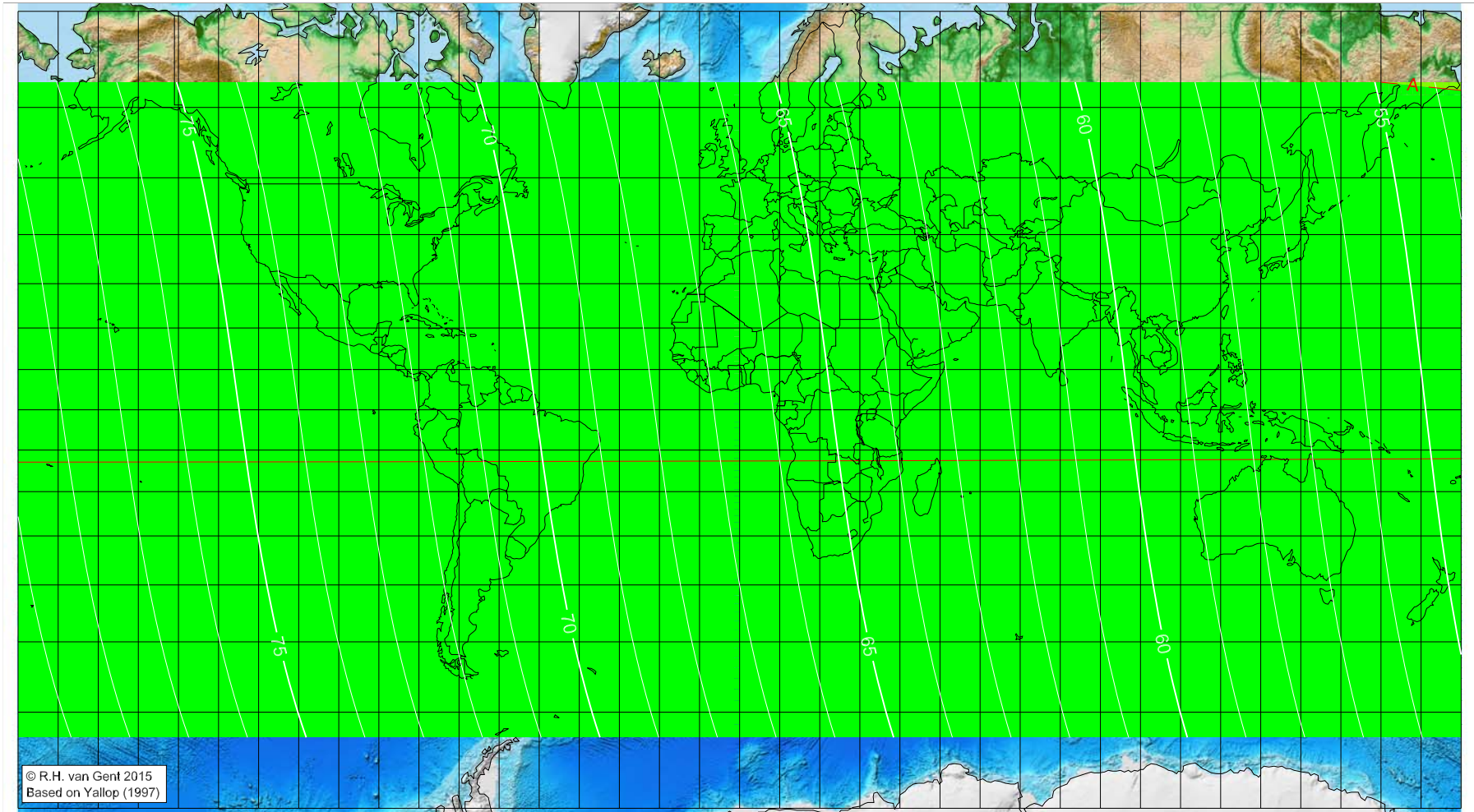
- A – easily visible to the unaided eye
- B – visible under perfect atmospheric conditions
- C – visible to the unaided eye after found with optical aid
- D – only visible with binoculars or conventional telescopes
- E – not visible with conventional telescopes
- F – below Danjon limit (7°)
- moonset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

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



# First visibility lunar crescent for Muḥarram 1438 AH

Global visibility map for 3 October 2016 [Monday]  
Second day after luni-solar conjunction



Astronomical New Moon: 1 October 2016, 0h 11.4m (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 = 1160  
Islamic Lunation Number = 17245  
 $TT - UT [= \Delta T] = 1.1 \text{ min}$

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/>