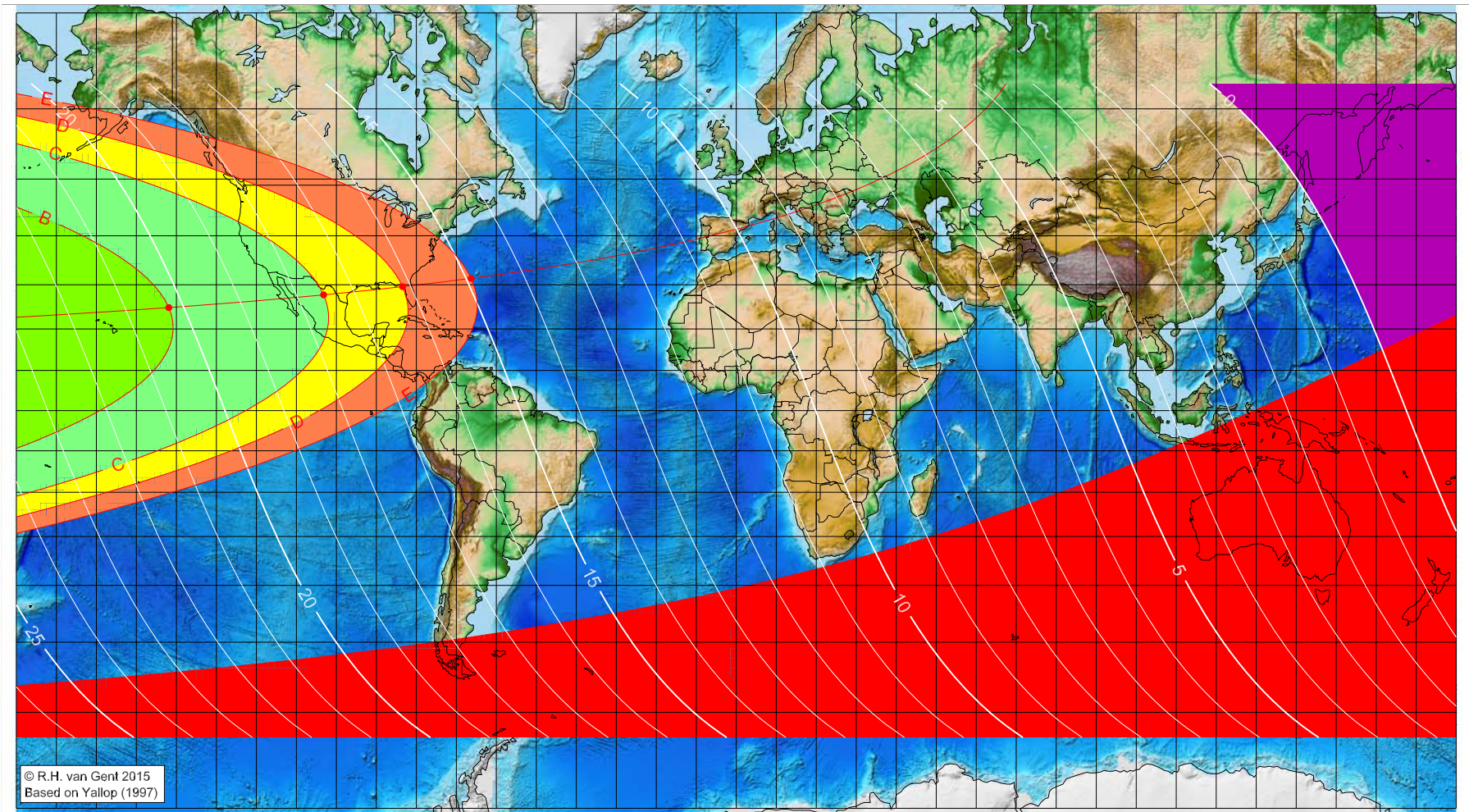


First visibility lunar crescent for Rabī al-Ākhir 1438 AH

Global visibility map for 29 December 2016 [Thursday]
Day of luni-solar conjunction



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

Astronomical New Moon: 29 December 2016, 6h 53.2m (UTC)

First visibility (●)

Astronomical (Brown) Lunation Number = 1163

Islamic Lunation Number = 17248

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)

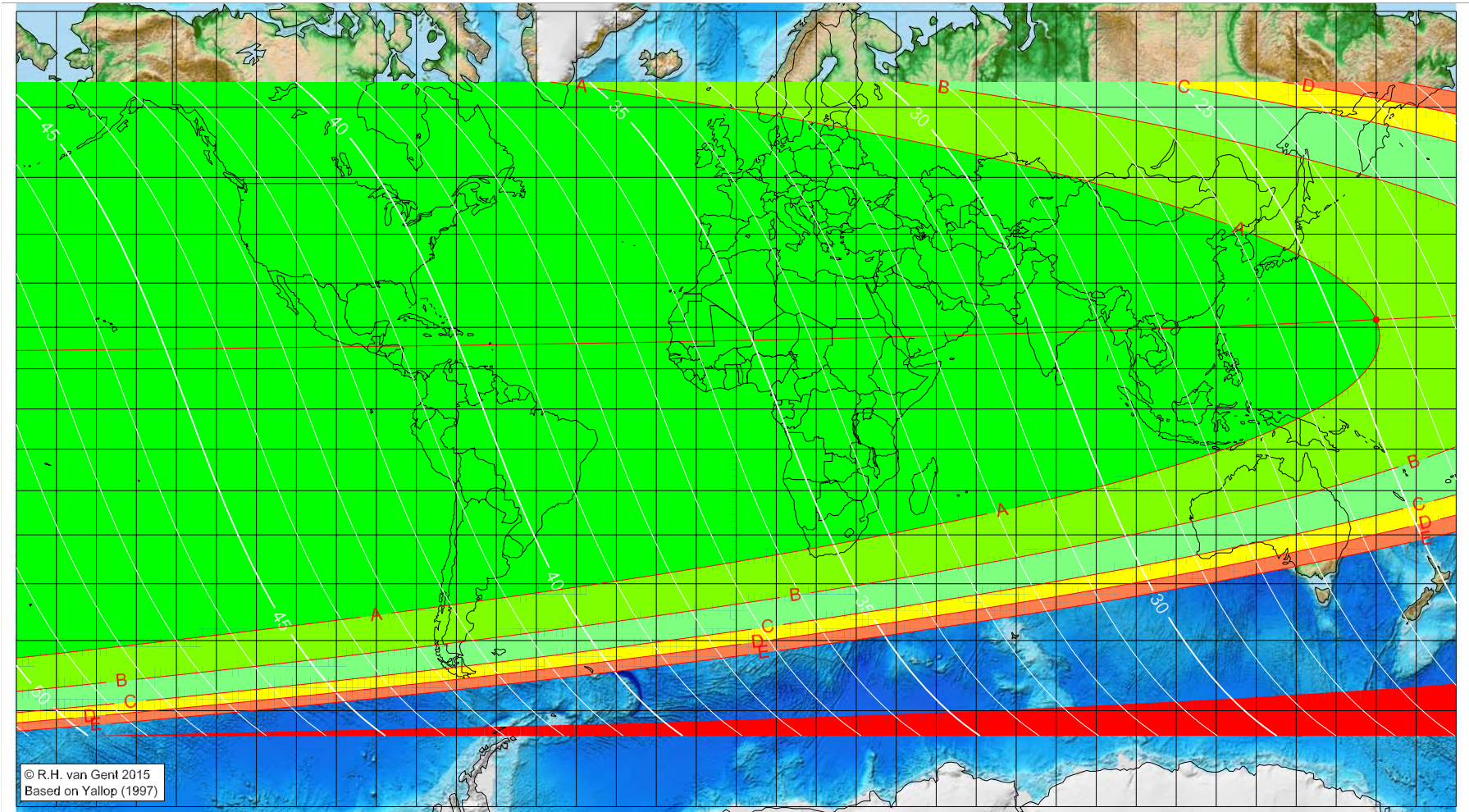
Longitude (°)	Latitude (°)	Lunar age (h)
-141.89	24.93	20.25
-103.19	27.79	17.54
-83.45	29.58	16.14
-66.30	31.37	14.91

not visible until the next evening

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

First visibility lunar crescent for Rabī al-Ākhir 1438 AH

Global visibility map for 30 December 2016 [Friday]
Day after luni-solar conjunction



Astronomical New Moon: 29 December 2016, 6h 53.2m (UTC)

First visibility (•)

Longitude (°)	Latitude (°)	Lunar age (h)
160.00	21.77	24.29
		visible on the previous evening
		visible on the previous evening
		visible on the previous evening

Astronomical (Brown) Lunation Number = 1163

Islamic Lunation Number = 17248

TT - UT [= ΔT] = 1.1 min

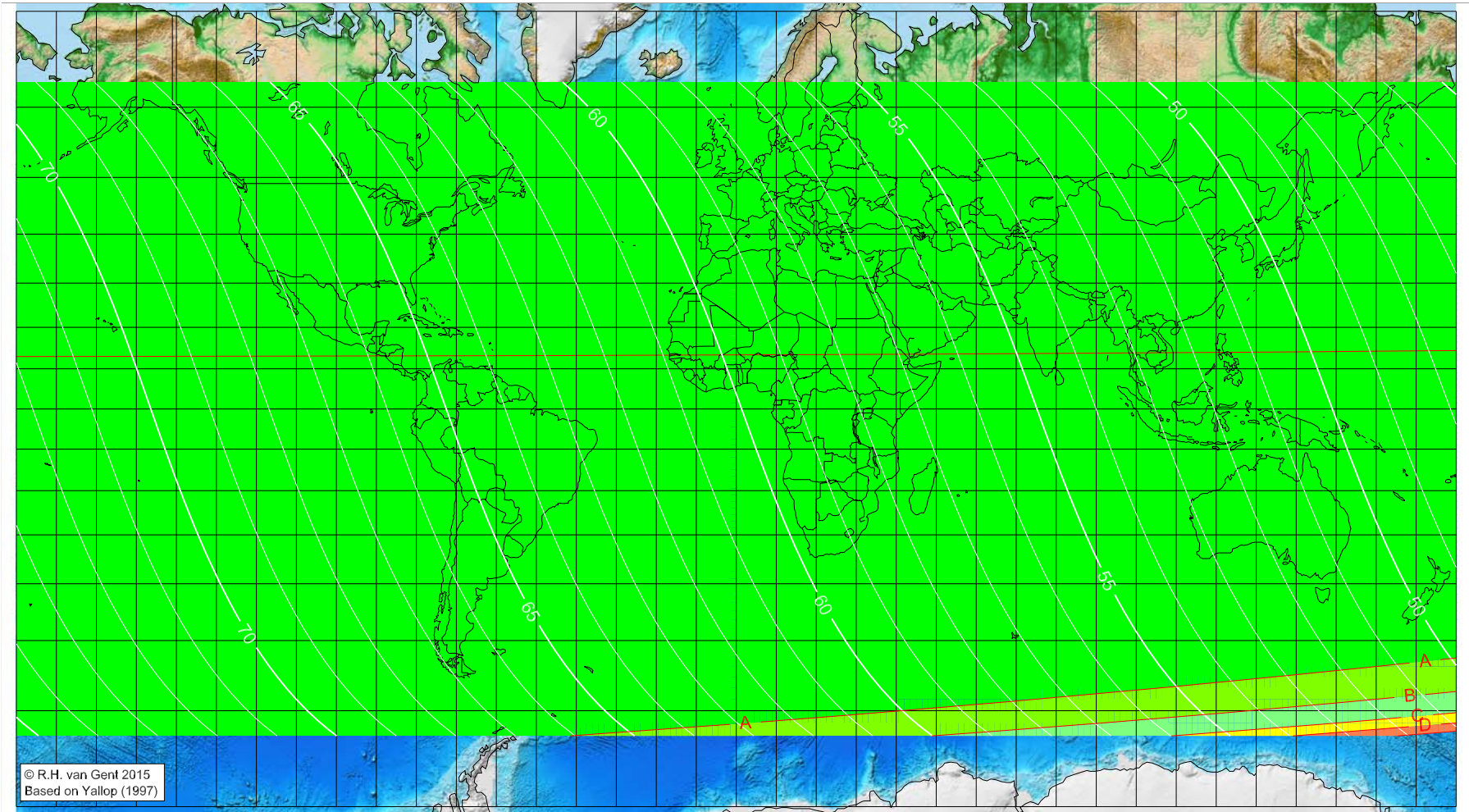
Lunar age (in hours) is given for the 'best time', defined as the moment 4/9ths between sunset and moonset

- 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 Rabī al-Ākhir 1438 AH

Global visibility map for 31 December 2016 [Saturday]
Second day after luni-solar conjunction



Astronomical New Moon: 29 December 2016, 6h 53.2m (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 = 1163
Islamic Lunation Number = 17248
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

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