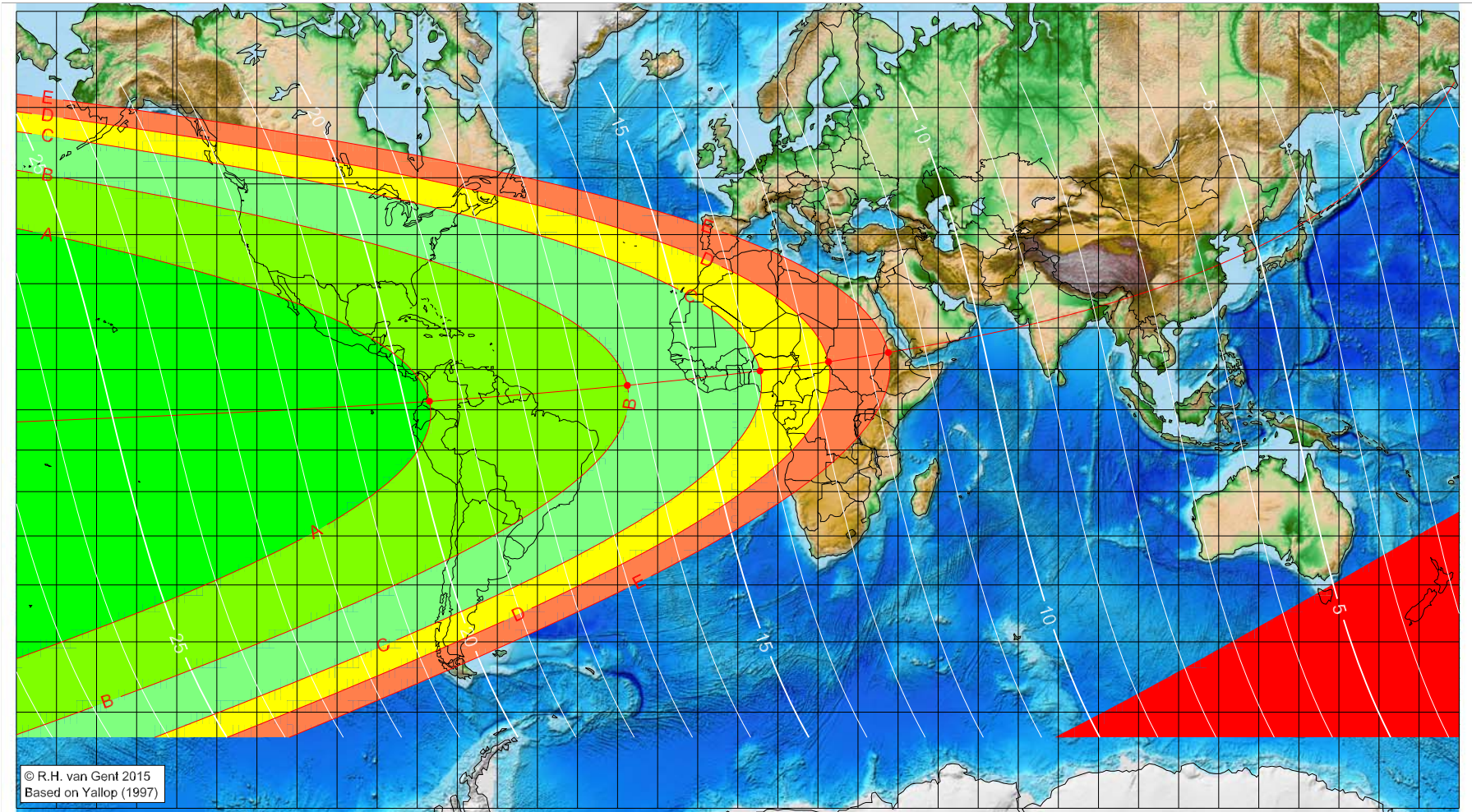


First visibility lunar crescent for Rabīʿ al-Awwal 1441 AH

Global visibility map for 28 October 2019 [Monday]
Day of luni-solar conjunction



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

Astronomical New Moon: 28 October 2019, 3h 38.6m (UTC)

First visibility (•)

Longitude (°)	Latitude (°)	Lunar age (h)
-76.95	2.12	19.58
-27.57	6.07	16.17
5.56	9.65	13.87
22.63	11.89	12.68
37.57	14.14	11.64

Astronomical (Brown) Lunation Number = 1198

Islamic Lunation Number = 17283

TT - UT [= ΔT] = 1.2 min

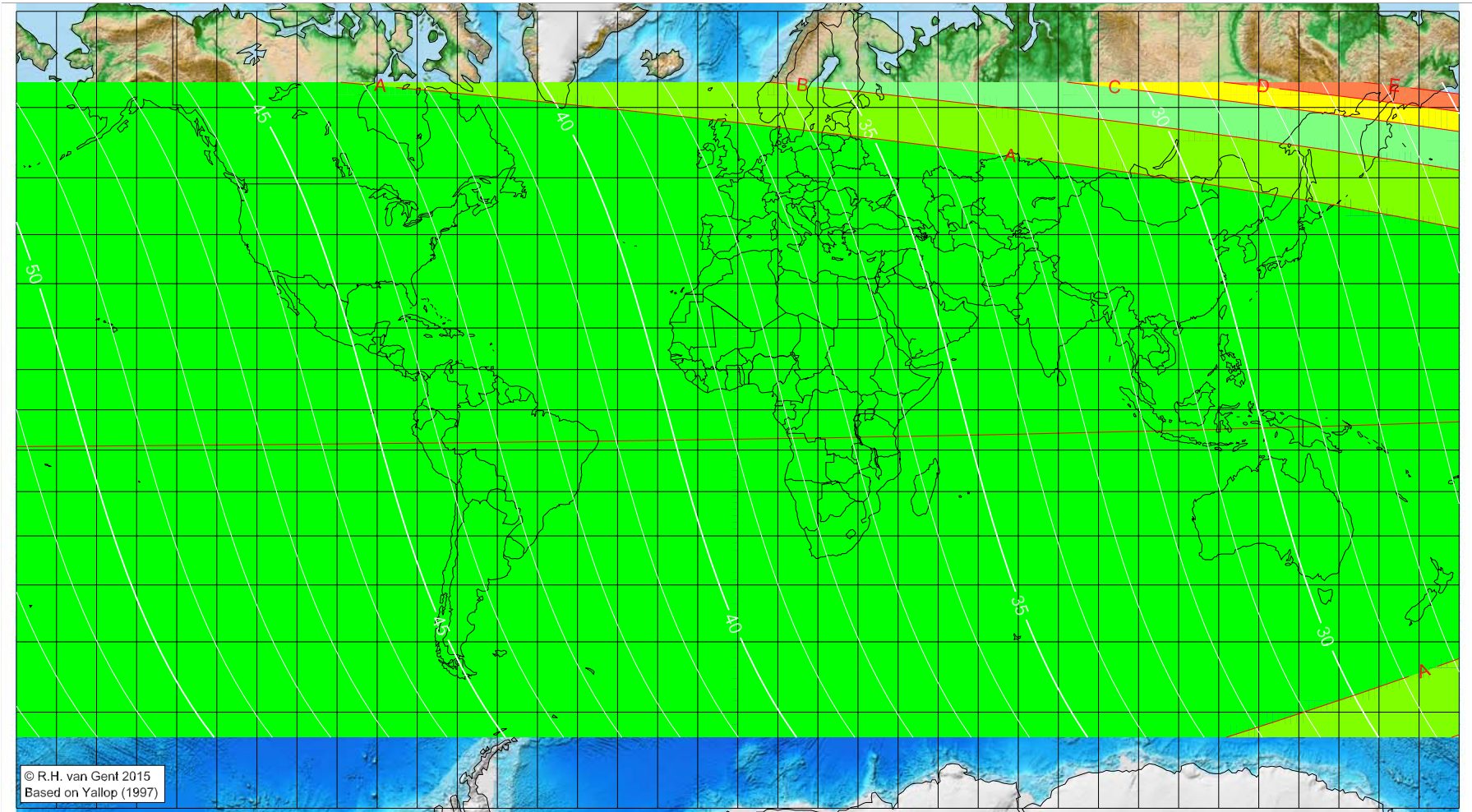
Lunar age (in hours) is given for the 'best time',
defined as the moment 4/9ths between sunset
and moonset

- 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 Rabīʿ al-Awwal 1441 AH

Global visibility map for 29 October 2019 [Tuesday]
Day after luni-solar conjunction



Astronomical New Moon: 28 October 2019, 3h 38.6m (UTC)

First visibility (•)

Astronomical (Brown) Lunation Number = 1198

Islamic Lunation Number = 17283

TT - UT [= ΔT] = 1.2 min

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

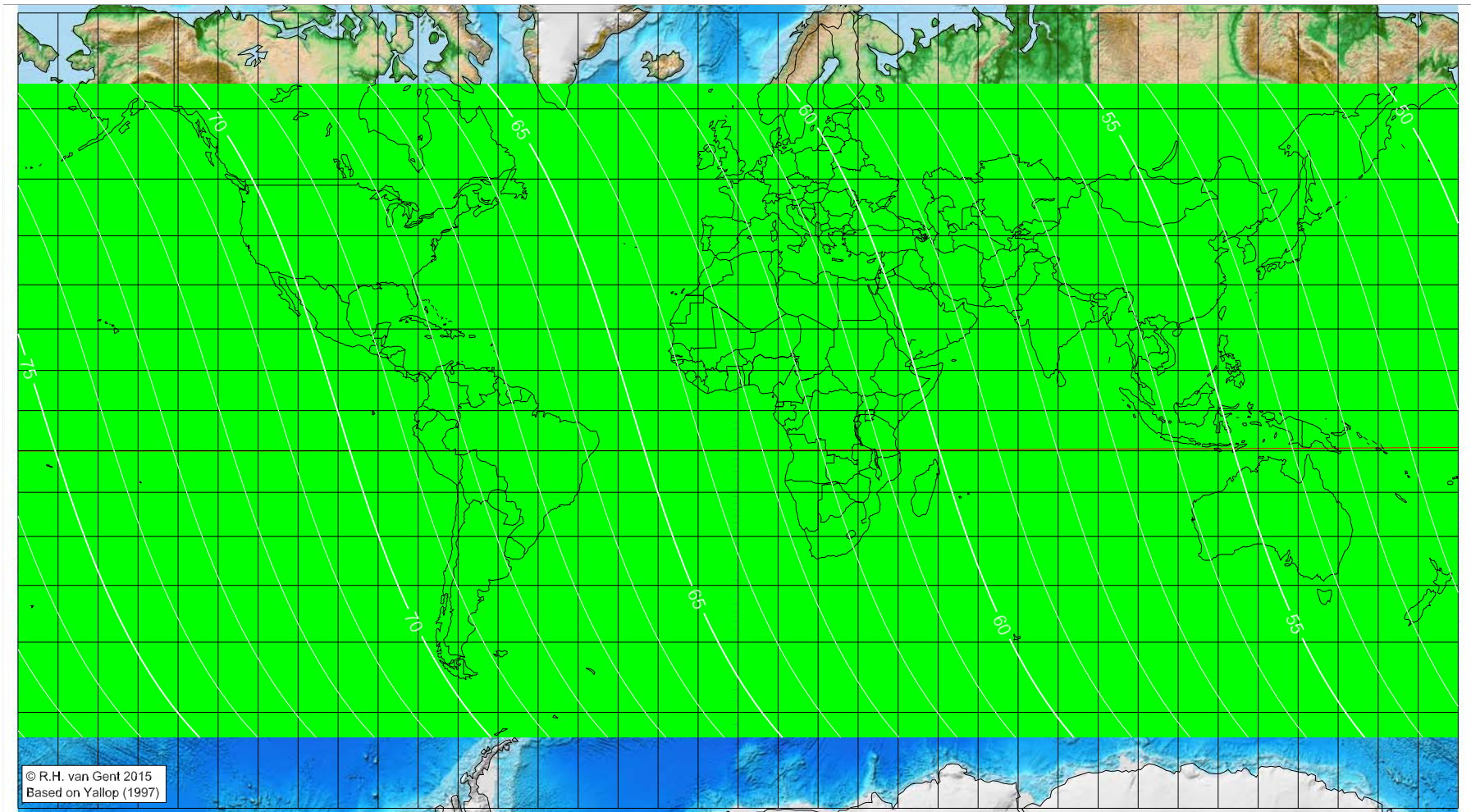
- A – easily visible to the unaided eye
- B – visible under perfect atmospheric conditions
- C – visible to the unaided eye after found with optical aid
- D – only visible with binoculars or conventional telescopes
- E – not visible with conventional telescopes
- F – below Danjon limit (7°)
- moonset 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 Rabīʿ al-Awwal 1441 AH

Global visibility map for 30 October 2019 [Wednesday]
Second day after luni-solar conjunction



Astronomical New Moon: 28 October 2019, 3h 38.6m (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 = 1198
Islamic Lunation Number = 17283
TT – UT [= ΔT] = 1.2 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/>