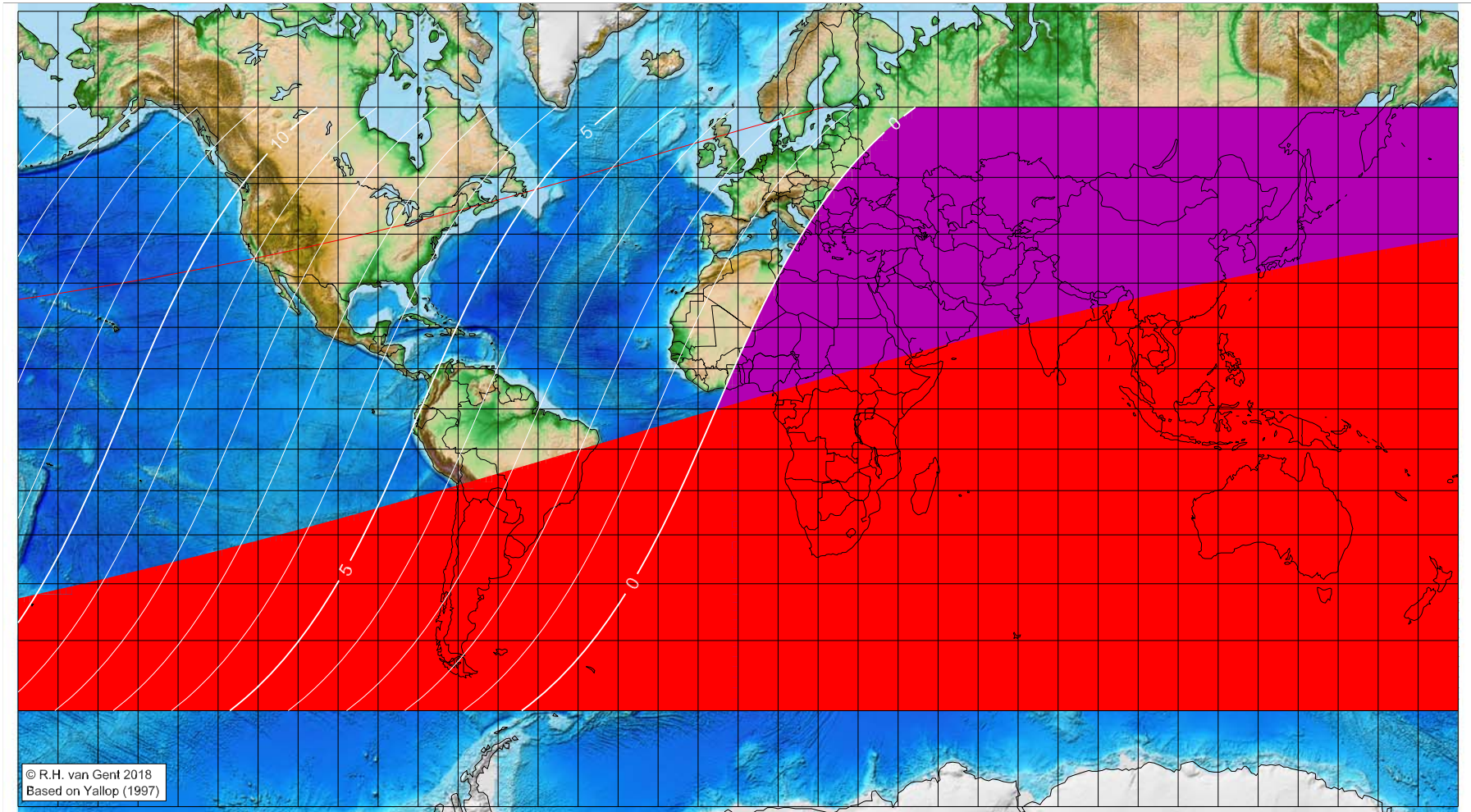


First visibility lunar crescent for Muḥarram 1445 AH

Global visibility map for 17 July 2023 [Monday]
Day of luni-solar conjunction



Astronomical New Moon: 17 July 2023, 18h 31.7m (UTC)

First visibility (•)

- 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)
not visible until the next evening	not visible until the next evening	not visible until the next evening
not visible until the next evening	not visible until the next evening	not visible until the next evening
not visible until the next evening	not visible until the next evening	not visible until the next evening
not visible until the next evening	not visible until the next evening	not visible until the next evening

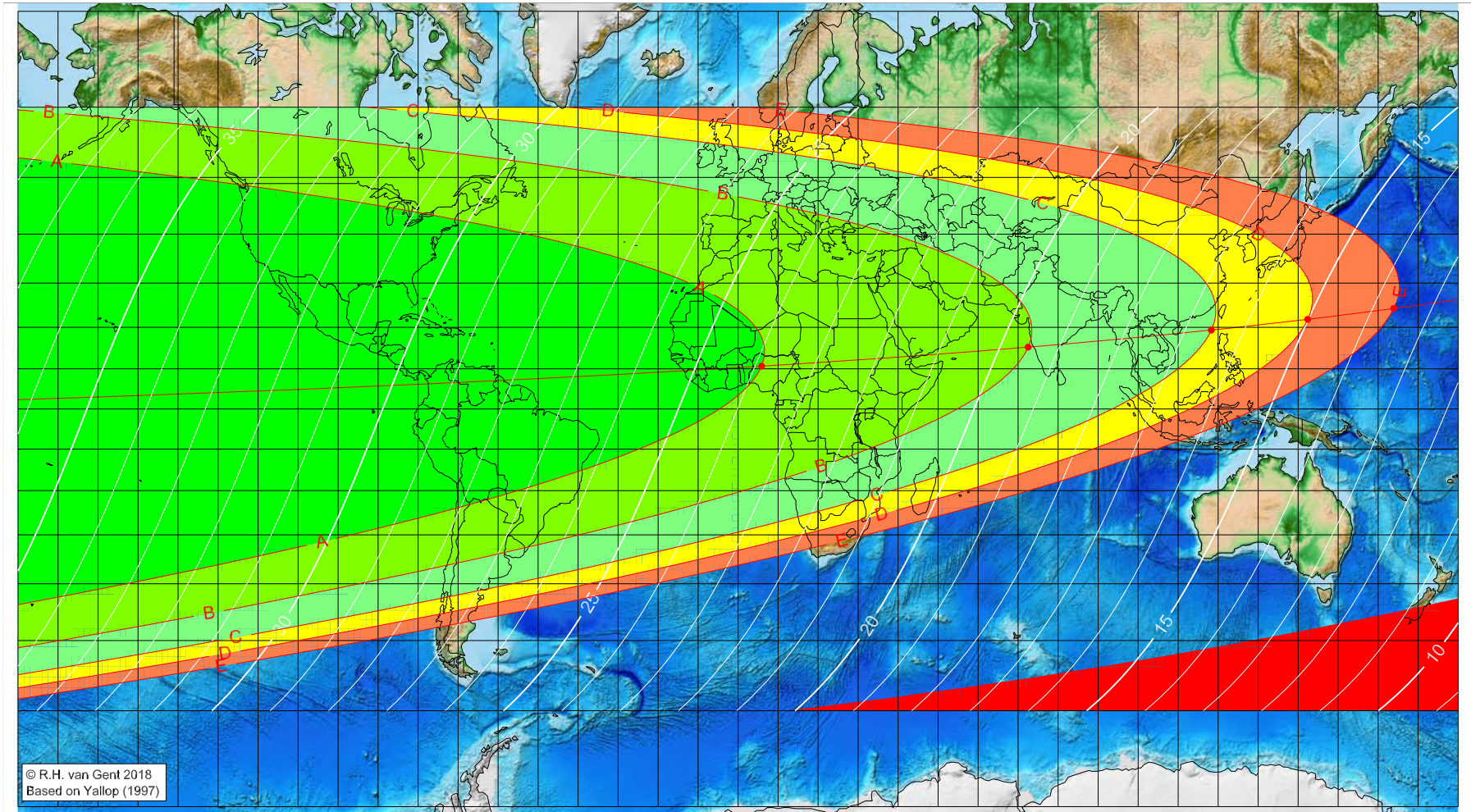
Astronomical (Brown) Lunation Number = 1244
Islamic Lunation Number = 17329
TT – UT [= ΔT] = 1.2 min

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/>

First visibility lunar crescent for Muḥarram 1445 AH

Global visibility map for 18 July 2023 [Tuesday]
Day after luni-solar conjunction



Astronomical New Moon: 17 July 2023, 18h 31.7m (UTC)

First visibility (●)

Longitude (°)	Latitude (°)	Lunar age (h)
5.89	10.64	23.89
72.51	15.28	19.52
118.30	19.35	16.56
142.38	21.86	15.01
163.88	24.35	13.64

Astronomical (Brown) Lunation Number = 1244
Islamic Lunation Number = 17329
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°)

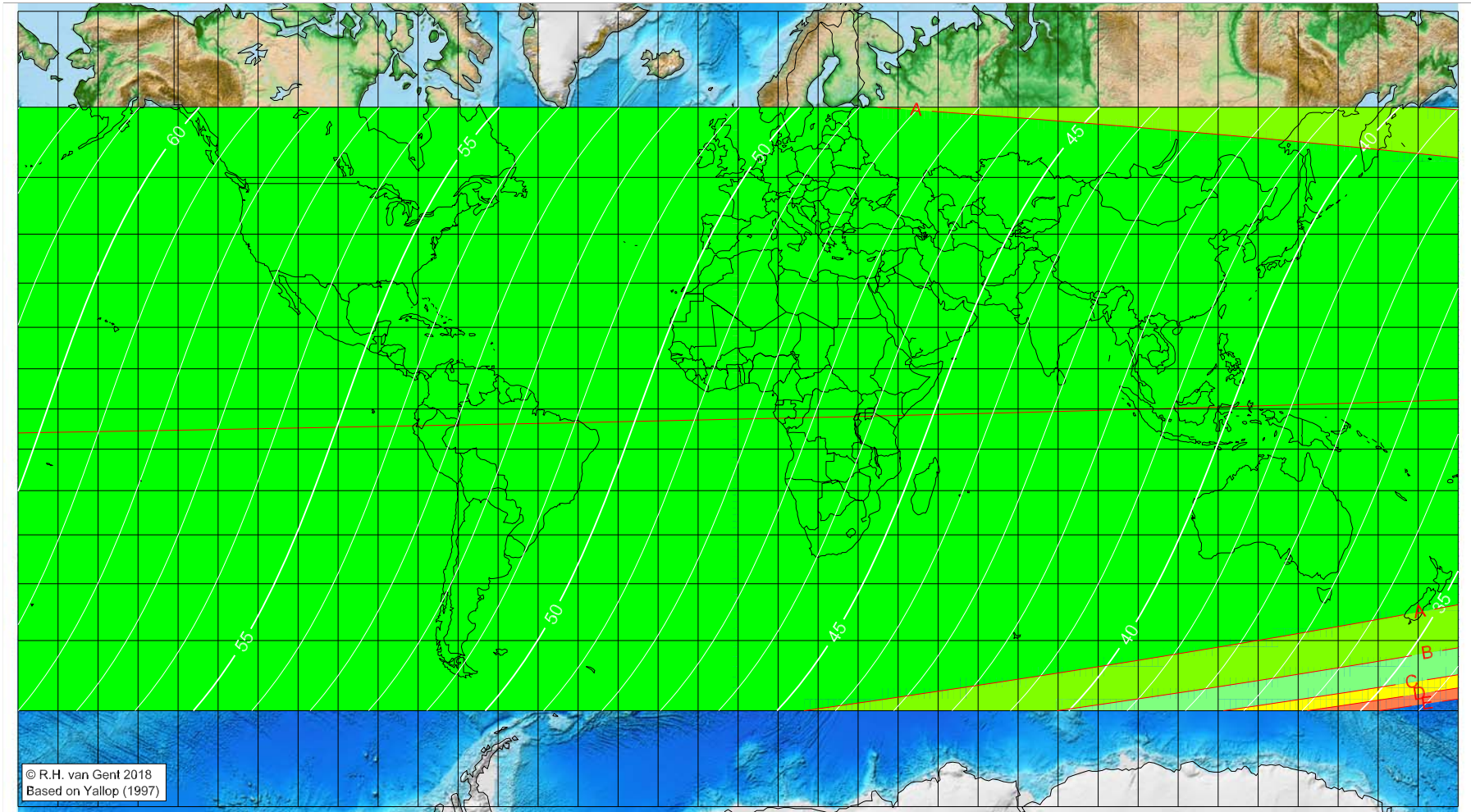
■ moonset before sunset

■ before conjunction (astronomical new moon)

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

First visibility lunar crescent for Muḥarram 1445 AH

Global visibility map for 19 July 2023 [Wednesday]
Second day after luni-solar conjunction



Astronomical New Moon: 17 July 2023, 18h 31.7m (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 = 1244
Islamic Lunation Number = 17329
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/>