

Re: Truly Offensive Bad Astronomy

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- *From:* Quadibloc <jsavard@xxxxxxxxxx>
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oriel36 wrote:

I enjoy taking pretentious freaks apart so lets see how you stand up .

From your ill-informed website –

"The Second is now defined, in SI, by the physics of atoms, and no longer by the rotation of the Earth.

For the UTC time scale, the addition or subtraction of Leap Seconds accommodates the discrepancy in rate, which in 2001 was about 1 ms per day or 0.01 ppm. The UTC day thereby tracks the averaged rotation of the Earth with respect to the Earth–Sun line.

A constant rate of Leap Seconds would accommodate a constant averaged Earth rotation time differing from the nominal 86400 SI seconds. Variations in the Leap Second rate accommodate changes in the Earth's averaged rotation rate.

Long-term, the Earth's mean rotation slows by about 7 ms / year / year, largely because of the drag of sea-tides.

Leap Seconds occur simultaneously, world-wide, at UTC midnight.

Leap Seconds were introduced in principle at 1972.0 UTC; the first one was 1972-06-30 23:59:60 UTC"

<http://www.merlyn.demon.co.uk/leapsecs.htm>

The only 'leaps seconds' that are acceptable in respect to the axial cycle are from the dignified,do you hear this,the dignified Equation of Time system which resets the 24 hour clock cycle to natural noon.

Unfortunately, the SI seconds we use in our electronic devices are the

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wrong length even for the undignified average 24 hour day, and so we need "leap seconds" to make up the error with that.

And his web site was very accurately informed about those leap seconds that are in actual current use. Leaping back and forth every year to stay with the sundial is not worth the bother, but avoiding a long-term cumulative error because our second is the wrong size is needed.

John Savard

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