

## Re: accruate "sundials"

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*Source:* <http://sci.tech--archive.net/Archive/sci.astro.amateur/2005-06/msg01224.html>

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- *From:* Tim Auton <[tim.auton@xxxxxxxxxxxxxxxxxxxxxxxxxxxxx](mailto:tim.auton@xxxxxxxxxxxxxxxxxxxxxxxxxxxxx)>
  - *Date:* Thu, 16 Jun 2005 20:37:16 +0100
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geraldkelleher@xxxxxxxxxxx wrote:

>jtaylor wrote:

>> <[geraldkelleher@xxxxxxxxxxx](mailto:geraldkelleher@xxxxxxxxxxx)> wrote in message

>> [news:1118844280.682855.140220@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx](mailto:news:1118844280.682855.140220@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx)

>> > But why do we have to measure this rotation against the sun?

>> >

>> > In your sidereal foolishness \* you do gauge the rotation of the Earth

>> > against the Sun as 24 hours exactly and then gauge the rotation of the

>> > Earth against a distant star as 23 hours 56 min 04 ,the former being

>> > incorrect

>>

>> Why is one incorrect and the other correct?

>

>A location along longitude does not rotate to face the Sun every 24

>hours

We know. The sidereal rate is not based on the apparent motion of the sun. It's based on the apparent motion of background stars. You seem to think the sidereal day is defined as 4 minutes less than a particular solar day. It isn't.

Tim

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Don't tell me I'm still on that feckin' island!

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- *Follow-Ups:*

- ◆ [Re: accruate "sundials"](#)

- ◆ *From:* geraldkelleher

- *References:*

- ◆ [Re: accruate "sundials"](#)

- ◆ *From:* DT

- ◆ [Re: accruate "sundials"](#)

- ◆ *From:* geraldkelleher

- ◆ [Re: accruate "sundials"](#)

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◇ *From: jtaylor*

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◇ *From: geraldkelleher*

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