

From jimr@maia.usno.navy.mil Fri Feb 15 17:59:03 EST 2002  
Received: (from jimr@localhost)  
by maia.usno.navy.mil (8.9.3 (PHNE\_25183)/8.9.3) id RAA00756  
for gpst; Fri, 15 Feb 2002 17:56:51 -0500 (EST)  
From: Jim Ray (USNO 202-762-1444)  
Message-Id: <200202152256.RAA00756@maia.usno.navy.mil>  
Subject: [GPST] IGS Timescales Updated (fwd)  
To: gpst@maia.usno.navy.mil  
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Forwarded message (for those who do not get IGS Mail):

Date: Fri, 15 Feb 2002 21:17:37 +0000  
From: Ken Senior  
To: igsmail@igs.cb.jpl.nasa.gov  
Subject: [IGSMAIL-3741]: IGS Timescales

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IGS Electronic Mail 15 Feb 13:17:40 PST 2002 Message Number 3741  
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Author: Ken Senior

Dear Colleagues,

With reference to the new IGS clock products described in IGS Mails #3470 and #3615, we have made several more changes to the system which generates the Rapid (IGRT) and Final (IGST) IGS timescales. The complete set of plots and .clk product files have been regenerated for each timescale from the beginning of receiver clock availability (late 2000). We expect this to be the last major enhancement to the system. Any future changes should not require replacement of timescale data already posted.

The changes implemented are:

- \* The upper limit of weights each clock can carry in the ensemble is now set nominally to the maximum of {0.1, 2.5/# masers, 2.5/# clocks}. This change was necessary particularly for the Rapid timescale IGRT which has suffered from a number of data dropouts (sometimes resulting in only 1 or 2 masers available for certain days).
- \* By request, Allan deviation plots are now included for all clocks (including crystals).
- \* Chi-Square statistics using the appropriate equivalent degrees of freedom for overlapping Allan deviation computations are now performed for the calculation of confidence limits in the Allan deviation plots.

Results are available at  
<http://clockdev.usno.navy.mil/igst> and  
<ftp://clockdev.usno.navy.mil/igst>

Regards,  
Ken Senior

Time Service Department--Clock Development  
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