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[IGSMAIL-5438]: IGS switch to absolute antenna model and ITRF2005

- *To:* IGSMail <igsmail@igsch.jpl.nasa.gov>
- *Subject:* [IGSMAIL-5438]: IGS switch to absolute antenna model and ITRF2005
- *From:* gend@gfz-potsdam.de
- *Date:* Mon, 9 Oct 2006 11:26:23 +0200 (CEST)
- *Sender:* owner-igsmail

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*****
IGS Electronic Mail      09 Oct 02:26:26 PDT 2006      Message Number 5438
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Author: Gerd Gendt

Dear colleagues,

After the release of the long expected ITRF2005 on 2006-10-05 the IGS can now announce

the switch to the IGS05 (the official IGS05 realization will follow soon)

and, as already announced long before (IGSMAIL-5272, 2005-12-19),
the switch to the absolute antenna models
(ftp://igsch.jpl.nasa.gov/igsch/station/general/pcv_proposed/igs05_1390.atx).

The first IGS products with IGS05 and igs05_1390.atx will be distributed for the

- Final Products starting week 1400 (distribution Nov 24)
- Rapid Products starting day 14000 (distribution Nov 06, 17:00 GMT)
- Ultra Rapid Products starting hour 14000_18 (distribution Nov 06, 21:00 GMT)

Together with this switches the IGS Analysis Centers will introduce some modelling changes like the use of the ocean tide loading model FES2004 with corresponding center of mass corrections (CMC). During the generation of the SP3 products the CMC are accounted for and the Earth-fixed SP3 files have not to be corrected further. The user of the SP3 products has to take the FES2004 model without CMC!

To reflect the used models a new comment line will be inserted into the SP3 file. Its format is attached.

Best regards

Gerd Gendt

Comment line in the SP3 file:

```
----|---1|0---|---2|0---|---3|0---|---4|0---|---5|0---|---6|0---|---7|0---|---8|
/* PCV:IGS05 TL:FES2004 Y S1S2 Y CLK:CoN ORB:CoN
```

- format: ('/* PCV:',a5,' TL:',2(a10,1x,a1,1x),' CLK:',a3,' ORB:',a3)
- Models applied during estimation of orbits
 - PCV: antanne model used (without _WWWWW)
 - TL : Ocean and atmo tide loading models plus CMC flags:

