

Update on DPOD2005

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DPOD2005 Web site

<http://www.ipgp.jussieu.fr/~willis/DPOD2005.htm>

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Acronym

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DPOD2005 (version 1.1, differences with earlier versions)

All positions and velocities are expressed in ITRF2005

Direct access to text file [DPOD2005](#)

Direct access to SINEX file for [discontinuities](#)

In the following columns :

Status could be :

OK final proposal (Pascal Willis and John Rice agreed, no special compilation received from the rest of the group) in black

TBC to be confirmed = proposed coordinates and velocities exist but are not confirmed in green

TDB to be done = investigation still in progress in red

Source could be :

ITRF2005 = original ITRF2005 file computed by IERS (same positions as 2000.0 and same velocities)

DPOD2005 = coordinates and velocities were derived from the DPOD2005 investigation

AMTB = coordinates were derived from station AMTB in original ITRF2005 file, adding the geodetic local file from AMTB

For each station acronym, several periods are potentially selected. For each period of observation a proposed model is provided (position in ITRF2005 at epoch 2000.0 and velocity in ITRF2005). In a few cases, the model status « XXX » meaning that no data should be used during this period for this specific DORS file occur.

Click on acronyms to get more info

Acronym	DOMES	Period (start time)	Period (end time)	X (ITRF2005) - 2000.0	Y (ITRF2005) - 2000.0	Z (ITRF2005) - 2000.0	VX (ITRF2005)	VY (ITRF2005)	VZ (ITRF2005)	Status	Source
ADMA	9150IS00	1.02.30	27.02.02	1911859.6387	1823559.2585	-3833813.5855	0.44	-14.43	-4.84	TBC	ITRF2
ADFB	9150IS02	1.03.02	06.02.08	1940478.4013	1628473.0097	-3833723.0155	0.44	-14.43	-4.84	TBC	ITRF2
ADFR	9150IS05	08.02.08	---	1940478.523	1628473.114	-3833723.385	0.44	-14.43	-4.84	TDB	ADFB
AJAB	1007S002	13.02.02	09.02.02	4696990.103	721981.156	4239679.246	-12.77	19.53	12.79	TBC	DPOI
AMSA	9140IS04	1.02.87	31.12.1995	1096061.591	4927963.001	-3837828.309	-10.91	3.87	-3.06	TBC	DPOI
AMSA	9140IS04	1.6.1996	20.04.97	XXX	XXX	XXX	XXX	XXX	XXX	TBC	DPOI
AMSB	9140IS02	21.04.97	28.08.08	XXX	XXX	XXX	XXX	XXX	XXX	TBC	DPOI
AMTB	9140IS05	29.03.01	17.04.07	1096063.0106	4927948.5135	-3837839.9925	-10.91	3.87	-3.06	TBC	ITRF2
ASCLB	9140IS04	17.04.97	---	1096063.087	4927948.611	-3837840.086	-10.91	3.87	-3.06	TBC	AMTB
AREA	4220S005	1.02.90	22.06.08	1942796.789	-304077.763	-1796919.058	11.85	-0.68	15.27	TBC	DPOI
AREA	4220S005	23.06.01	20.11.08	XXX	XXX	XXX	XXX	XXX	XXX	TBC	DPOI
AREB	4220S006	21.11.01	23.08.02	XXX	XXX	XXX	XXX	XXX	XXX	TBC	DPOI
AREB	4220S006	24.03.02	31.08.08	1942803.278	-304071.428	-1796922.120	-17.62	-7.26	-4.15	TBC	DPOI
ARFB	4220S007	2.08.06	---	1942803.215	-304071.591	-1796922.198	4.78	-0.75	4.40	TBC	DPOI

New figures

- Release of **DPOD2005** in text format
- List of **discontinuities** / SINEX

+SOLUTION/DISCONTINUITY

*CODE PT SOLN T _DATA_START_ __DATA_END__ M A
_____COMMENTS_____

```
amsa A 1 D 00:000:00000 95:365:00000 P -  
amsa A 2 D 96:001:00000 00:000:00000 X - Antenna tilt  
amsb A 1 D 00:000:00000 00:000:00000 X - Antenna tilt  
area A 1 D 00:000:00000 01:173:00000 P -  
area A 2 D 01:174:00000 00:000:00000 X - Earthquake  
asdb A 1 D 00:000:00000 02:051:00000 P -  
asdb A 2 D 02:052:00000 02:103:00000 X - Antenna corrosion  
asdb A 1 D 02:104:00000 00:000:00000 P -  
cacb A 1 D 00:000:00000 92:366:00000 P -  
cacb A 2 D 93:001:00000 93:310:00000 X - Unknown
```

- **Differences with previous versions**

Current status

- May 14: release version 1.0
- May 29: release version 1.1 (current)

Points under discussion

- Missing ADFB. Done
 - Confirmed with new data
 - Will be in version 1.2
- Missing RIQB (data available now). TBD
- Periods to be deleted
 - No coordinates provided
 - Advantages : will not be used
 - Disadvantages: ENVISAT no data provided in CNES reprocessed files (unless down-weighting)

CONCLUSIONS

- DPOD2005 : release of version 1.1
- Web site (possible to update)

<http://www.ipgp.jussieu.fr/~willis/DPOD2005.htm>

Presentation at COSPAR + article = P. Willis, J.C. Ries, L. Soudarin, N. Zelensky, E.C. Pavlis, DPOD2005 :Realization of a DORIS terrestrial reference frame for precise orbitdetermination, ADVANCES IN SPACE RESEARCH, in preparation