

GpsTools Release Notes for ver. 0.6.4

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SYSTEM REQUIREMENTS

OS : Windows XP, Windows Vista, 32bit or 64bit
MATLAB® : v.7.3 (R2006b) or later versions, 32bit or 64bit

INSTALL and EXECUTION

- (1) Extract package `gt_0.6.4.zip` to an appropriate directory.
- (2) Delete directory `gt_<older_ver>` from MATLAB search paths if exists.
- (3) Add directory `gt_0.6.4` of (1) to MATLAB search paths.
- (4) Type the following command in MATLAB command window.

```
>> gpstools
```

MANUAL

Refer the help file (`gt_0.6.4/help/gpstools.htm`).

LICENCE

Refer the license file (`gt_0.6.4/help/licence.txt`).

SUPPORT

Refer the support web page: http://gpspp.sakura.ne.jp/gpstools/gt_support.htm

CHANGES (ver.0.6.3 -> ver.0.6.4):

- (1) Support MATLAB v.7.4 (R2007a) and higher versions.
- (2) Support MATLAB 64bit for Windows.
- (3) No longer supports MATLAB v.6 or lower versions.
- (4) Support high-rate analysis up to 100Hz (0.01s as Estimation Interval).
- (5) Support long continuous session up to 1 year (24*366hr as Estimation Unit Time).
- (6) Support 'GPS32' and 'GPS33'-'GPS99' as Satellite for GPS PRN32 and other satellites.
- (7) Support 'IGS 30s', 'CODE 5s' and 'IGS/CODE 5s' options for Satellite Clock in Estimated/Fixed Parameters.
- (8) Support 'IGS05' and 'ITRF2005' options for Receiver Position of Estimated/Fixed Parameters.
- (9) Add 'Obs. Time Tolerance', 'Exclude Unhealthy Satellite' and 'Ionos Smoothing Window' settings to Observation Data Editor Settings.

- (10) Add 'Adjust Phase' and 'Adjust Code' options for Repair Steered Clock Jump of Observation Data Editor Settings.
- (11) Add 'No Tropos' option for Tropospheric A Priori Model of Estimation/Measurement Model.
- (12) Add 'VMF1' option for Tropospheric Mapping Function of Estimation/Measurement Model.
- (13) Add 'Sat Clock' and 'SatClk+Shapiro-Delay' options for Measurement Corrections-Relativistic Effects of Estimation/Measurement Model.
- (14) Add 'GPT' option for Meteorological Parameters' of Estimation/Measurement Model.
- (15) Add '%O' keyword-replacement for Data/Directory/Files settings and Clean Observation Data Directory.
- (16) Add 'Output Position' option dialog for Plot-Receiver Position to specify time format, position format etc. of output text file.
- (17) Support data download via proxy server in Data/Products Downloader.
- (18) Support http for data download protocol in Data/Products Downloader.
- (19) Add functions of trop_gpt, readvmfgrid, readvmf and mapf_vmfl to common libraries.
- (20) Update dcbs_plcl.m, prm_gpssrcs.m, rcvs_noncc.txt, rcvs_params.txt, rcvs_poss.txt, sats_params.txt files in gt_<ver>/data directory.
- (21) Add IGS03P33_RS99.snx, igs05.atx, IGS05.snx, ITRF2000_GPS.SSC.txt and ITRF2005_GPS.SSC.txt files to gt_<ver>/data directory.
- (22) Update utilities of teqc.exe, rnx2crx.exe, crx2rnx.exe and wget.exe in gt_<ver>/private directory.
- (23) Incorporate patch of gt_0.6.3p1, gt_0.6.3p2, gt_0.6.3p3b, gt_0.6.3p4, gt_0.6.3p5, gt_0.6.3p6 and gt_0.6.3p7 to fix bugs in ver.0.6.3.
- (24) Fix other many bugs in ver.0.6.3. For details, refer headline comments in each m-file.

KNOWN PROBLEMS

- (1) Output files can not be read by the older version GT on MATLAB v.6 or lower version because of mat-file compatibility issue.
- (2) On MATLAB v.7.4, v.7.5 (R2007a, R2007b) 64bit with -nojvm option, input in edit boxes is not recognized unless return-key pushed.