



IGS Tracking Station Data

IGS Products

International GPS Service

Quick Reference Card

rev. 23 Aug 2001

The foundation of the IGS is a global network of over 200 permanent, continuously operating, geodetic-quality GPS tracking sites. The station data are archived at three Global Data Centers and five Regional Data Centers. Seven Analysis Centers regularly process the data and contribute products to an Analysis Center Coordinator, who produces the official IGS combined products. The Central Bureau is responsible for day-to-day management of the IGS consistent with policies set by the IGS' International Governing Board.

The IGS classic product set of satellite orbits, clocks, earth rotation parameters, and station positions is augmented by newer products born from IGS Working Groups and Pilot Projects: tropospheric zenith path delay, ionospheric grid total electron content, precise time transfer, International GLONASS Service pilot project, low-earth orbiters, real-time working group, and sea level & tide gauges.

The IGS reference frame coordinator determines site coordinates and velocities in the International Terrestrial Reference Frame (ITRF), and organizes the IGS contribution to ITRF.

This reference card provides information on accessing the IGS data and products, IGS informational email lists, and IGS publications. Please direct questions to the IGS Central Bureau:

Jet Propulsion Laboratory
4800 Oak Grove Dr. MS 238-5440
Pasadena, CA 91109 USA
igscb@igscb.jpl.nasa.gov

<http://igscb.jpl.nasa.gov>
tel: +1 818 354-5434
fax: +1 818 393 6686

Observation, navigation, and meteorological data files

Format:

RINEX V2

Defined at:

<ftp://igscb.jpl.nasa.gov/igscb/data/format/rinex210.txt>

Alternate format:

Hatanaka compressed RINEX

Translators at:

<ftp://igscb.jpl.nasa.gov/igscb/software/compress>

Global Data Center locations:

<ftp://cdmra.gsfc.nasa.gov/gps/gpsdata/>
<ftp://lox.uscd.edu/pub/rinex/nav/>
<ftp://gs.ensg.ign.fr/pub/gs/met/>

Regional Data Center locations:

<ftp://auslig.gov.au/igs/>
<ftp://gracie.gsfc.nasa.gov/dist/cignet/>
<ftp://boodi.jpl.nasa.gov/pub/pro/>
<ftp://ludwig.hattrao.ac.za/rinex/>
<ftp://gs.igag.de/GS/obs/>

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Orbits, clocks, erp

Format:

SP3

Defined at:

<ftp://igscb.jpl.nasa.gov/igscb/data/format/sp3.txt>

Clocks

Format:

clock RINEX

Defined at:

ftp://igscb.jpl.nasa.gov/igscb/data/format/rnex_clock.txt

erp, station positions

Format:

SINEX

Defined at:

<ftp://igscb.jpl.nasa.gov/igscb/data/format/sinex.txt>

CB Product location:

<ftp://igscb.jpl.nasa.gov/igscb/product/>

Global Data Center Product locations:

<ftp://cdmra.gsfc.nasa.gov/gps/products/>
<ftp://lox.ucsd.edu/pub/products/>
<ftp://gs.ensg.ign.fr/pub/gs/products>

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Ionosphere products

Format:

IONEX

Defined at:

<ftp://igscb.jpl.nasa.gov/igscb/data/format/ionex1.pdf>

Hourly RINEX data from a subnetwork of the IGS stations

Available at:

<ftp://cdmra.gsfc.nasa.gov/gps/nrtdata/>
<ftp://gs.ensg.ign.fr/pub/gs/nrtdata>
<ftp://gs.igag.de/GS/nrt>
<ftp://lox.uscd.edu/pub/nrtdata>

Troposphere zenith path delay

Format:

SINEX_TRO

Defined at:

<ftp://igscb.jpl.nasa.gov/igscb/data/format/tropo.txt>

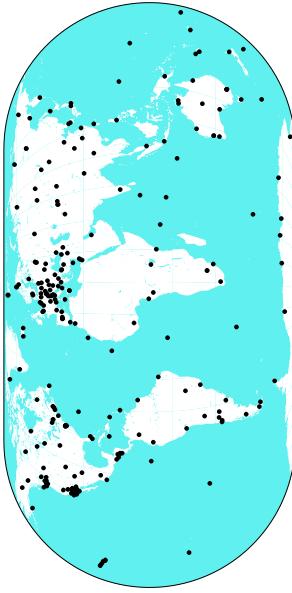
Global Data Center Locations:

ftp://cdmra.gsfc.nasa.gov/gps/products/*/trop
<ftp://gs.ensg.ign.fr/pub/gs/trop>
<ftp://lox.ucsd.edu/pub/troposphere/>

For IGS Station information, including Operational Data Center contacts, please see

<http://igscb.jpl.nasa.gov/> (click Tracking Network)
or site logs:
<http://igscb.jpl.nasa.gov/pub/station/log/>

Useful IGS network summaries



IGS email lists

IGSMail: Important IGS announcements

Archived at <http://igscc.jpl.nasa.gov/> (click MAIL)
and <ftp://igscc.jpl.nasa.gov/igsccb/mail/igsmail>

IGS Report: Analysis reports

Archived at <http://igscc.jpl.nasa.gov/> (click MAIL)
and <ftp://igscc.jpl.nasa.gov/igsccb/mail/igsreport>

Central Bureau Information System (click Tracking Network)

Station lists & maps

SINEX template

<ftp://igscc.jpl.nasa.gov/pub/station/general/igs.snx>
tabulation of station parameters vs. time for input to analysis

Site log history and summary

<ftp://igscc.jpl.nasa.gov/pub/station/general/loghist.txt>
<ftp://igscc.jpl.nasa.gov/pub/station/general//logsum.txt>

ITRF Station Locations

<http://areg.ensign.fr/ITRF/solutions.html>

Global DC daily data latency files

ftp://cddis.gsfc.nasa.gov/pub/reports/gpsdata/check_hourly.cddisa
ftp://igs.ensign.fr/pub/igs/data/check_import.ign
ftp://lox.uscd.edu/pub/rinex/check_import.sio

Global DC hourly data latency files

ftp://cddis.gsfc.nasa.gov/pub/reports/gpsdata/check_hourly.cddisa
ftp://igs.ensign.fr/pub/ntdata/check_hourly.ign
ftp://lox.uscd.edu/pub/ntdata/check_hourly.sio

igsnet

<ftp://igscc.jpl.nasa.gov/igsnet>
weekly report by station giving quality, quantity, and latency scores
(documented at <ftp://igscc.jpl.nasa.gov/igsccb/data/network/igsnet.doc>)

IGS Analysis Center Coordination

<http://www.aiub.unibe.ch/acc.html>

IGS Projects and Working Groups

IGS Reference Frame Working Group:
Remi Ferland (ferland@geod.emr.ca)

IGS/BIPM Time Transfer Project:
Jim Ray (jimr@maia.usno.navy.mil)

Towards an IGS Combined Ionosphere Product:
Joaichim Feltens (joachim.Feltens@esa.int)

IGS Combination of Tropospheric Estimates:
Gerd Gendt (gend@gfz-potsdam.de)

Working Group on Low-Earth Orbiters:
Michael Watkins (Michael.M.Watkins@jpl.nasa.gov)

International GLONASS Pilot Service Project:
Jim Slater (slaterj@nima.mil)
Tilo Schoene (tschoene@gfz-potsdam.de)

Real Time Working Group:
Mark Caissey (mcassis@nican.gc.ca)
Ron Muellerschoen (Ron.Muellerschoen@jpl.nasa.gov)

For further information see
<http://igscc.jpl.nasa.gov/igsccb/projects/projindex.html>