International GPS Service

Quick Reference Card

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The foundation of the IGS is a global network of over 300 permanent, continuously operating, geodetic–quality GPS tracking sites. The station data are archived at three Global Data Centers and six Regional Data Centers. Ten 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
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Pasadena, CA 91109 USA

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http://igscb.jpl.nasa.gov

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fax: +1 818 393 6686

IGS Tracking Station Data

Information:
http://igscb.jpl.nasa.gov/components/data.html

observation, navigation, and meteorological data files
Format:
RINEX V2
Defined at:
ftp://igscb.jpl.nasa.gov/igscb/data/format/rinex210.txt
Alternate format:
Hatanaka compact RINEX
Translators at:
ftp://terras.gsi.go.jp/software

De–compression tool:
http://www.gzip.org

Global Data Center locations:
ftp://cddis.gsfc.nasa.gov/gps/data/
ftp://garner.ucsd.edu/pub/rinex/
nav/
met/
ftp://igs.ensg.ign.fr/pub/igs/data/

Regional Data Center locations:
ftp://ftp.ga.gov.au/igs
ftp://gracie.grdl.noaa.gov/dist/cignet/
ftp://bodhi.jpl.nasa.gov/pub/pro/
ftp://geoid.hartrao.ac.za/rinex/
ftp://igs.ifag.de/IGS/obs

hourly RINEX data from a subnetwork of the IGS stations
Available at:
ftp://cddis.gsfc.nasa.gov/gps/data/hourly
ftp://igs.ensg.ign.fr/pub/igs/nrt/data
ftp://igs.ifag.de/IGS/nrt
ftp://garner.ucsd.edu/pub/nrtdata

Further Data Center information:
ftp://igscb.jpl.nasa.gov/igscb/center/data/
http://igscb.jpl.nasa.gov/organization/centers.html

For IGS Station information, including Operational Data Center contacts, please see
http://igscb.jpl.nasa.gov/ (click Tracking Network)
or site logs:
ftp://igscb.jpl.nasa.gov/pub/station/log/

IGS Products

Information:
http://igscb.jpl.nasa.gov/components/prods.html

orbits, clocks, erp
Format:
sp3
Defined at:
ftp://igscb.jpl.nasa.gov/igscb/data/format/sp3c.txt

clocks
format:
clock RINEX
Defined at:
ftp://igscb.jpl.nasa.gov/pub/data/format/rinex_clock.txt

erp, station positions
format:
SINEX
Defined at:
ftp://igscb.jpl.nasa.gov/pub/data/format/sinex.txt

CB Product location:
ftp://igscb.jpl.nasa.gov/igscb/product/

Global Data Center Product locations:
ftp://cddis.gsfc.nasa.gov/gps/products/
ftp://garner.ucsd.edu/pub/products/
ftp://igs.ensg.ign.fr/pub/igs/products

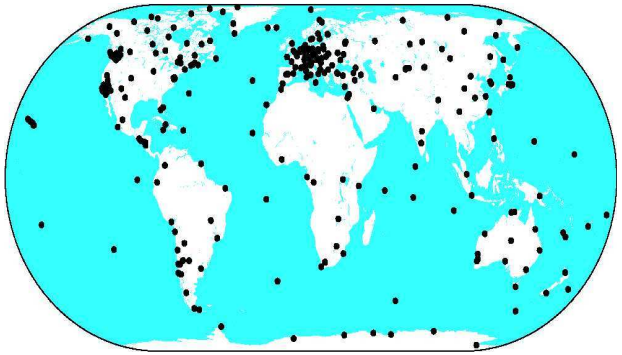
ionosphere products
Format:
IONEX
Defined at:
ftp://igscb.jpl.nasa.gov/igscb/data/format/ionex1.pdf

Global Data Center locations:
ftp://cddis.gsfc.nasa.gov/gps/products/ionex/
ftp://igs.ensg.ign.fr/pub/igs/iono/

troposphere zenith path delay
Format:
SINEX_TRO
Defined at:
ftp://igscb.jpl.nasa.gov/igscb/data/format/sinex_tropo.txt

Global Data Center Locations:
ftp://cddis.gsfc.nasa.gov/gps/products/trop
ftp://igs.ensg.ign.fr/pub/igs/tropo
ftp://garner.ucsd.edu/pub/troposphere/

Useful IGS network summaries



Central Bureau Information System
http://igscb.jpl.nasa.gov (click Tracking Network)
Station lists & maps

SINEX template
ftp://igscb.jpl.nasa.gov/pub/station/general/igs.snx
tabulation of station parameters vs. time for input to analysis

Site log history and summary
ftp://igscb.jpl.nasa.gov/pub/station/general/loghist.txt
ftp://igscb.jpl.nasa.gov/pub/station/general/logsum.txt

ITRF Station Locations
http://lareg.ensg.ign.fr/ITRF/solutions.html

Global DC daily data latency files
ftp://cddis.gsfc.nasa.gov/reports/gpsdata/check_import.cddis
ftp://igs.ensg.ign.fr/pub/igs/data/check_import.ign
ftp://lox.ucsd.edu/pub/rinex/check_import.sio

Global DC hourly data latency files
ftp://cddis.gsfc.nasa.gov/reports/gpsdata/check_hourly.cddisa
ftp://igs.ensg.ign.fr/pub/nrt/data/check_hourly.ign
ftp://lox.ucsd.edu/pub/nrtdata/check_hourly.sio

IGS email lists

IGSMail: Important IGS announcements
Archived at http://igscb.jpl.nasa.gov (click MAIL)
and ftp://igscb.jpl.nasa.gov/igscb/mail/igsmail

IGS Report: Analysis reports
Archived at http://igscb.jpl.nasa.gov/ (click MAIL)
and ftp://igscb.jpl.nasa.gov/igscb/mail/igsreport

IGS Station: Station Configuration Advisories
Archived at http://igscb.jpl.nasa.gov/ (click MAIL)
and ftp://igscb.jpl.nasa.gov/igscb/mail/igsstation

For other project-related mailing lists please
see the MAIL area at http://igscb.jpl.nasa.gov

For subscription information send an email message
with 'help' in the body to:
majordomo@igscb.jpl.nasa.gov

IGS Publications

Annual Reports
Technical Reports
Workshop Proceedings

electronically:
http://igscb.jpl.nasa.gov/overview/pubs.html
ftp://igscb.jpl.nasa.gov/igscb/resource/pubs/

IGS Analysis Center Coordination

http://www.gfz-potsdam.de/pb1/igsacc/index_igsacc.html

IGS Projects and Working Groups

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

Clock Products:
Ken Senior (Ken.Senior@nrl.navy.mil)

Ionosphere:
Manuel Hernandez-Pajares (manuel@mat.upc.es)

IGS Combination of Tropospheric Estimates:
Yoaz Bar-Sever (Yoaz.Bar-Sever@jpl.nasa.gov)

Low-Earth Orbiters:
Henno Boomkamp (Henno.Boomkamp@esa.itn)

International GLONASS Pilot Service Project:
Jim Slater (slaterj@nima.mil)

Tide Gauge Benchmark Monitoring PP (TIGA)
Tilo Schoene (tschoene@gfz-potsdam.de)

Real Time Working Group:
Mark Caissy (caissy@nrcan.gc.ca)
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Global Navigation Satellite Systems (GNSS)
Robert Weber (robert.weber@tuwien.ac.at)

For further information see
http://igscb.jpl.nasa.gov/igscb/projects/projindex.html