NASA-Sponsored GPS Global Network Activities

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Activities in 2002

Funding has been provided by NASA Earth Science Research (Code YS) Natural Hazards Program to JPL/Caltech and UNAVCO in support of these tasks.

NASA supported IGS sites established in 2002, and partner agencies:

AMC2 – Alternate Master Clock, Colorado, US Naval Observatory
BREW – Brewster, Washington, NRAO VLBA
GLPS – Puerto Ayora, Galapagos Island, Ecuador
GUAO – Urumqi, Xingjiang, China, Urumqi Astronomical Observatory
KELY – Kellyville, Greenland, The Sondrestrom Research Facility
SIMO – Simonstown, Hartebeesthoek RAO

NASA supported IGS sites upgraded with modern receivers:

CHPI – Cachioera Paulista, near Sao Paulo, Brazil, in collaboration with INPE
SEY1 – Seychelles, Seychelles National Oil Company, IRIS/IDA
EISL – Easter Island, Universidad de Chile, IRIS/IDA
QUIN – Quincy California, US Forest Service, Mt. Hough Ranger District
KOKB – Kokee Park, Hawaii
FAIR – Fairbanks, Alaska
AREQ – Areqipa, Peru
NSSP – Yerevan, Armenia, National Survey for Seismic Protection
SUTH – Sutherland, South Africa, Hartebeesthoek RAO

Site support emphasis is based on geographic coverage, multi-technique space geodesy instruments (SLR/VLBI) nearby, long-term site history, partnering opportunities, and IGS-related programs or pilot projects such as Ionosphere and Tide Gauge activities.

High-rate (1s sample rate) data continues to be available with global distribution. Initially installed in cooperation with GFZ as ground support for the CHAMP LEO mission, and in response to the IGS call for support of LEO missions in general, real-time GPS applications have provided the impetus to continue to expand the high-rate sub-network. In most cases, these sites are multi-function, providing 1s data with very low latency as well as the traditional hourly and daily 30 IGS RINEX file products.

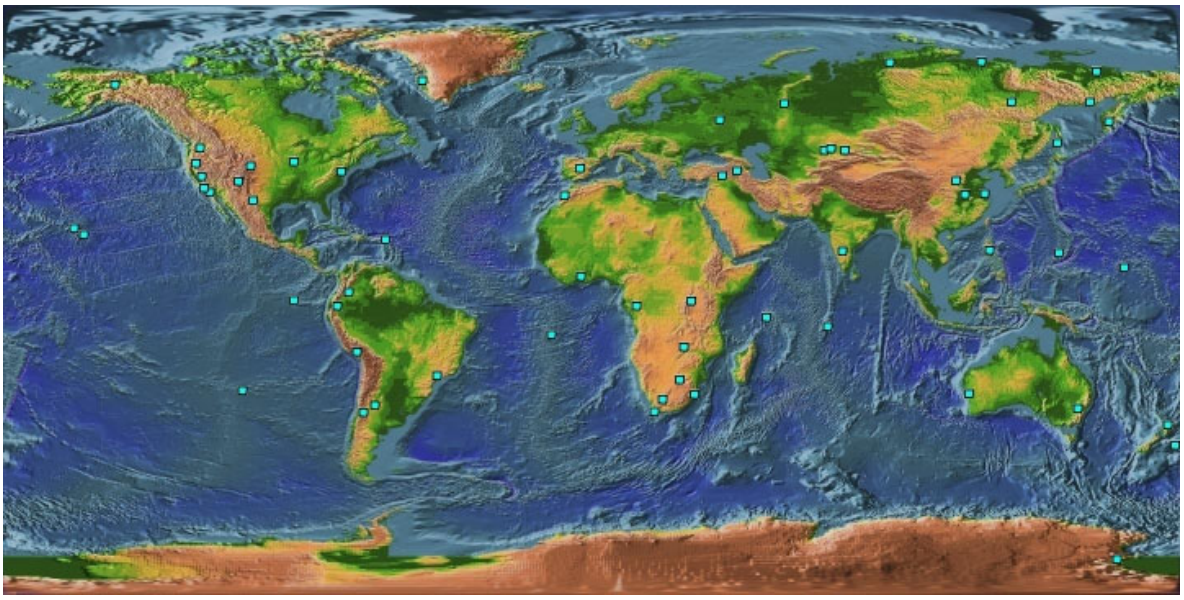

Figure 1. NASA Supported Site Distribution (non-exhaustive)

NASA Supported IGS sites (see Figure 1):

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amc2 ASHTECH Z-XII3T
aoa1 ROGUE SNR-8000
areq ASHTECH UZ-12
artu ASHTECH Z-XII3
asc1 AOA SNR-8000
auck ASHTECH Z-XII3
bili ASHTECH Z-XII3
bogt ASHTECH Z-XII3
brew ASHTECH UZ-12
casa ROGUE SNR-8000
chat ASHTECH Z-XII3
chpi ASHTECH UZ-12
chum ROGUE SNR-8000
cic1 ROGUE SNR-8000
cord ROGUE SNR-8000
cro1 ASHTECH Z-XII3
dgar AOA SNR-8000
dyr2 ROGUE SNR-8000
eisl ASHTECH UZ-12
fair ASHTECH UZ-12
glps ASHTECH Z-XII3
gode AOA SNR-8000
gol2 ROGUE SNR-12
gold ASHTECH Z-XII3
guam ASHTECH Z-XII3
guao ASHTECH UZ-12
harv AOA SNR-8000
hrao ASHTECH Z-XII3
iisc ASHTECH Z-XII3
jplm ROGUE SNR-8100
kely ASHTECH Z-XII3
kokb ASHTECH UZ-12
kunm ROGUE SNR-8000
kwj1 AOA SNR-8100
mad2 ROGUE SNR-12
madr ASHTECH Z-XII3
mag0 ASHTECH Z-XII3
mbar ASHTECH Z-XII3
mcm4 AOA SNR-12
mdo1 ROGUE SNR-8000
mkea ASHTECH Z-XII3
mobn ASHTECH Z-XII3
msku ASHTECH Z-XII3
nlib ROGUE SNR-8000
nril ASHTECH Z-XII3
nssp ASHTECH UZ-12
petp ASHTECH Z-XII3
pie1 ROGUE SNR-8000
pimo ASHTECH Z-XII3
pol2 ASHTECH Z-XII3
quin ASHTECH UZ-12
rabt ROGUE SNR-8000
rbay ROGUE SNR-8000
riop ROGUE SNR-8000
sant ASHTECH Z-XII3
sele ROGUE SNR-8000
sey1 ASHTECH UZ-12
shao ROGUE SNR-8100
simo ROGUE SNR-8000
suth ASHTECH UZ-12
*thu1 ROGUE SNR-8100
tid2 ROGUE SNR-12
tidb ASHTECH Z-XII3
tixi ASHTECH Z-XII3
usno ASHTECH Z-XII3T
usud ASHTECH Z-XII3
wes2 ROGUE SNR-8000
wuhn ASHTECH Z-XII3
xian ROGUE SNR-8100
yakt ASHTECH Z-XII3
yar1 ROGUE SNR-8100
ykro ROGUE SNR-8000
yssk ASHTECH Z-XII3
zamb ROGUE SNR-8000

*thu1 deprecated to thu3 (an
Ashtech UZ-12) and eventually
turned off.

"Support" ranges from complete end-
to-end equipment provision and
operations, to simply supporting
data flow (and just about
everything in between).
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