



GeoDAF

e-GEOS

Geodetic Data Archive Facility – ASI (Italian Space Agency) Local Data Centre
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GeoDAF has been IGS/EUREF Local Data Centre since 1999. Mainly it manages rinx files from the Italian GPS stations (not only IGS/EUREF ones) and it acts as LDC for some Greek stations too.

The screenshot displays the GeoDAF web interface. On the left, a 'Directory FTP / GEOD/GPSD in geodaf.mt.asi.it' lists various files such as 'DAILY_FINAL_SIBEX', 'EQUINOX', 'GEODESIA', 'IGRS/PUBLIC_SOLUTIONS', 'INDICIA', 'SIBEX', and 'TEMPERATURE_SOLUTIONS'. The main area shows a 'Controllo GPS' panel with a graph titled 'Ratio of complete to possible observations (%) (IGS/GC compari)'. The graph plots data for stations like GARI, GARI1, GARI2, GARI3, GARI4, GARI5, GARI6, GARI7, GARI8, GARI9, GARI10, GARI11, GARI12, GARI13, GARI14, GARI15, GARI16, GARI17, GARI18, GARI19, GARI20, GARI21, GARI22, GARI23, GARI24, GARI25, GARI26, GARI27, GARI28, GARI29, GARI30, GARI31, GARI32, GARI33, GARI34, GARI35, GARI36, GARI37, GARI38, GARI39, GARI40, GARI41, GARI42, GARI43, GARI44, GARI45, GARI46, GARI47, GARI48, GARI49, GARI50, GARI51, GARI52, GARI53, GARI54, GARI55, GARI56, GARI57, GARI58, GARI59, GARI60, GARI61, GARI62, GARI63, GARI64, GARI65, GARI66, GARI67, GARI68, GARI69, GARI70, GARI71, GARI72, GARI73, GARI74, GARI75, GARI76, GARI77, GARI78, GARI79, GARI80, GARI81, GARI82, GARI83, GARI84, GARI85, GARI86, GARI87, GARI88, GARI89, GARI90, GARI91, GARI92, GARI93, GARI94, GARI95, GARI96, GARI97, GARI98, GARI99, GARI100. The graph shows a fluctuating ratio between 50% and 100% over time.

PROCESSED FILES
 From 01/10/07 to 28/01/08

Type	Total MBytes	Total Files	Daily Average MBytes	Daily Average Files
Daily	1407	10336	47.4	349
Hourly	4542.6	171698	162.9	5769
Sub-h	757.9	23022	25.5	774
Glon D	15.7	780	0.4	25
Glon H	41.9	20766	1.4	699
SLR EOP	0	17	0	0
GEO SOL	6.7	49	0.3	1
TRO SOL	4.1	119	0	4
GEO COOR	0	17	0	0
TEC MAP	5.6	118	0	4
ROSP_MLRO	28.3	1916	1	67
ATMO	1445.9	194728	48.6	6528
ATMOxTOUGH	250.3	33048	8.3	1099
AD_MON	12.2	726	0.4	25
METEO	281	5550	9.9	187
TIMING	79.5	14470	2.6	485
DAILY_R	16.5	131	0.6	4
DAILY_F	16.4	112	0.6	4
TEMP	5.8	1	0.2	0
Total	8927.3	477504	300.1	16025

Summary by Month

Month	Daily Avg Files	Sites	Monthly Totals KBytes	Files
gen-08	5,868	150	12,342,619	170,185
dic-07	7,278	140	13,854,000	225,619
nov-07	7,649	185	18,713,074	229,482
ott-07	8,987	172	20,256,262	278,625
Totals			65,165,955	903,911

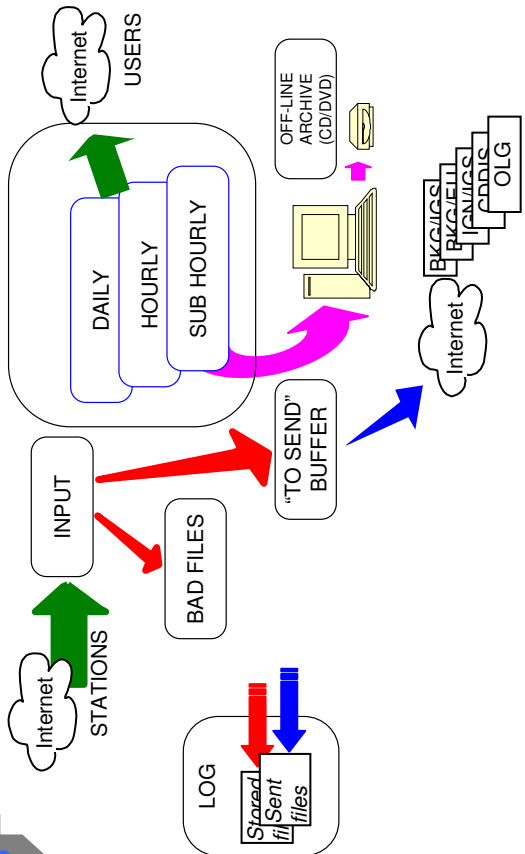
Files distributed (by FTP only)

Files distributed by country for March 2008:

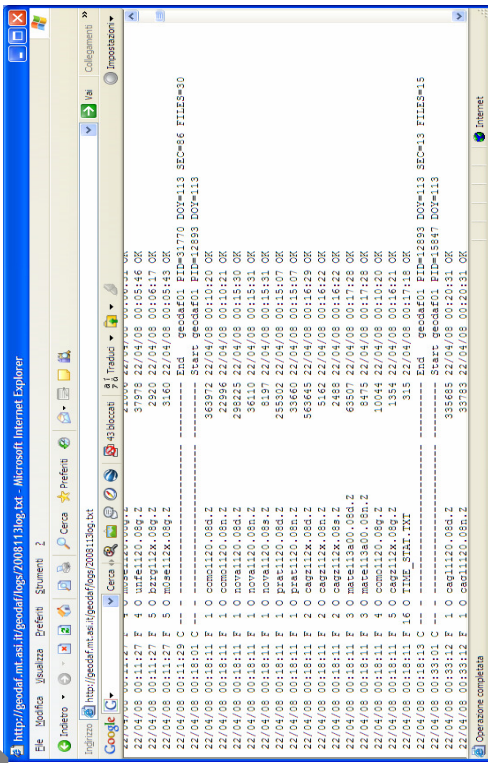
- Italy: 492
- Switzerland: 192
- US Educational: 192
- Belgium: 182
- France: 182
- Spain: 182
- Germany: 182
- United Kingdom: 132
- United States: 132
- Czech Republic: 132

Files received and "published"

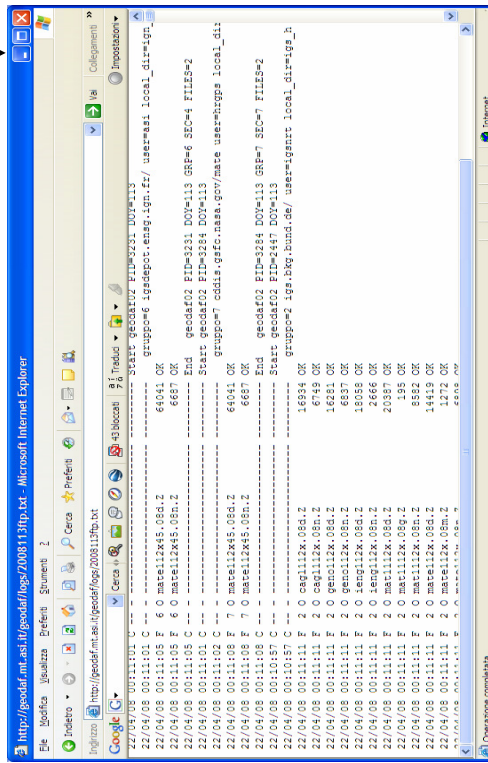
GPS Data Files go to FTP Server. Other files are mainly Analysis Products. They are used to automatically update Web pages.



- System: HP E60 Server (Linux Red Hat)
- Web Server: Apache
- FTP Server: VSFTP
 - ❖ Migration to new server is in progress
 - ❖ DELL PowerEdge 2900
 - ❖ 2 x Intel Xeon Dual-Core 2.0GHZ/4MB/1333 MHz 5130
 - ❖ 4 GB DDR2 ECC Fully Buffered FSB 667 MHz (2x2GB)
 - ❖ 2 x 300 GB SAS 10k rpm Hot Swap - 3.5"
 - ❖ Red Hat Linux 4 ES
- Designed to run services unattended
- Data flow (red and blue arrows), including log file updates, validity checks, etc., are managed by Bash Shell Scripts (approx 4000 lines of code)
- Transfers to off-line PC are performed automatically on daily base
- Files to be sent to RDC/GDC remain into buffer up to the time of successfully transfers (for automated fail safe operations)



“Received” files Log



“Sent” files Log



International GNSS Service
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