IGS Real-time Network Prototype

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On behalf of the RTWG
Outline

- Report on progress since Ottawa
- Prototype network
  - Existing & planned
- Prototype performance measures
  - Availability; Latency
- Next steps
Progress Since Ottawa

• Developed and implemented the recommended prototype design
  – Message format and exchange protocol
  – Software tools enabling data/product sharing
    (see RTWG poster for details)

• Involved the major elements of the IGS
  • Regional tracking
  • Analysis centers
  • Global data centers
Prototype Network
23 Stations

7 AGENCIES (GFZ/ESOC/JPL/NRCan/USNO/NGS/DELFT)

Coverage Map
Planned Network
37 Stations

11 AGENCIES (+GSA, BKG, NMA, IGBE)
| 3  |  6 |  7 |  7 |  4 |  2 |  (J) |  1 |  (N) |  4 |  1 |  (J) |  1 |  (N) |
| 2A |  3 |  3 |  A |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
Coverage with the Planned Network
Data Availability
12/26/03-01/26/04

- HLFX: 99.5%
- OUS2: 99.0%
- TIDB: 99.5%
Data Latency
12/26/03-01/26/24

ALGO: 1.1 sec
OUS2: 1.5 sec
HLFX: 0.3 sec
KIRU – Feb 26-27/04

The diagram shows the availability and latency over time. The x-axis represents time, with dates from 1 to 191. The y-axis represents the scale from 0 to 2000. The availability line is represented by a blue dot line, and the latency line by a pink dot line.
Next Steps

• Add additional stations
  – Integrate stations from agencies committed to contributing: GSA, BKG, NMA, IBGE and others.

• Management aspects
  – IODS in the data stream

• Network monitoring/feedback
  – Explore possibilities with Global Data Centers