



IGS Real-time Network Prototype

Mark Caissy

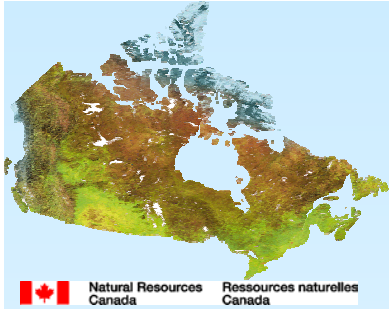
On behalf of the RTWG



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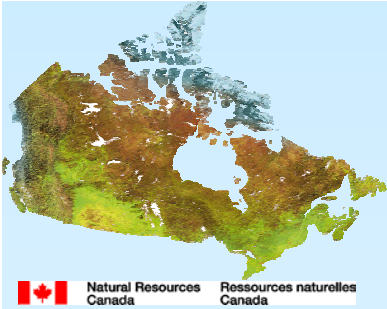
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Outline

- 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



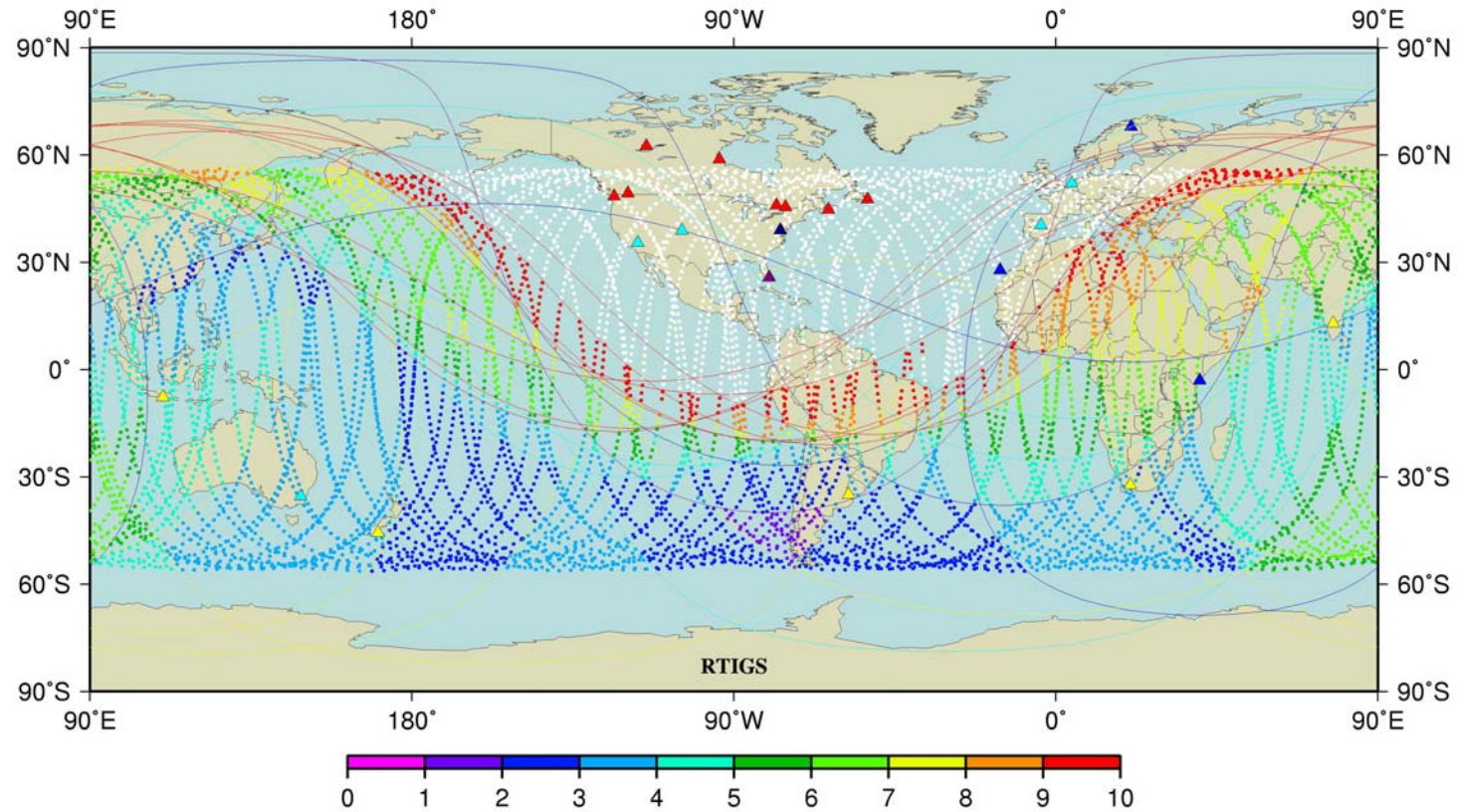
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Prototype Network

23 Stations

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

Coverage Map



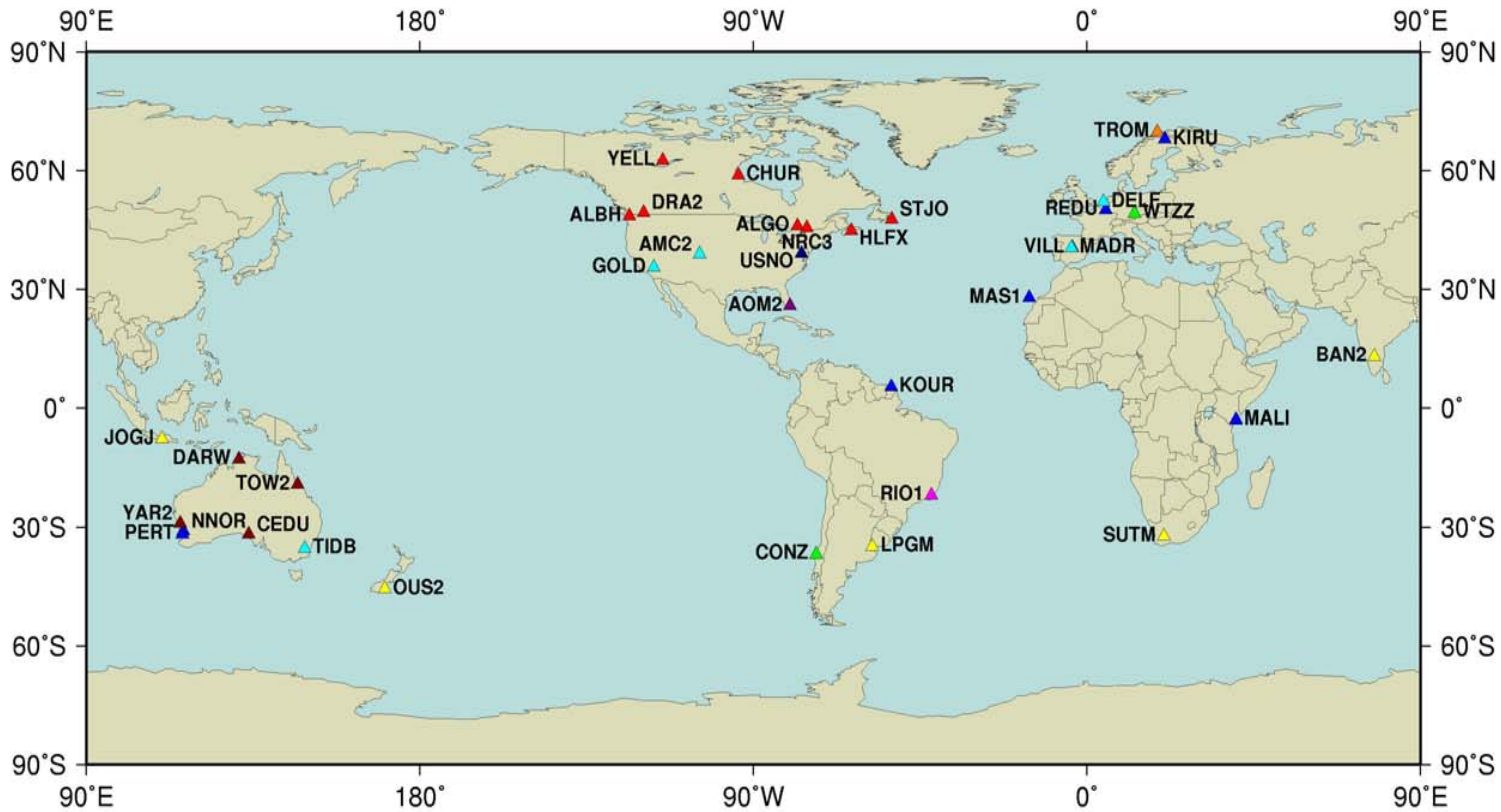


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Planned Network


37 Stations

11 AGENCIES (+GSA, BKG, NMA, IGBE)

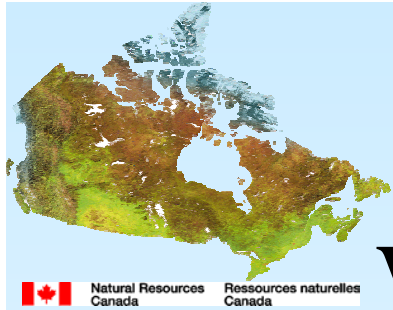




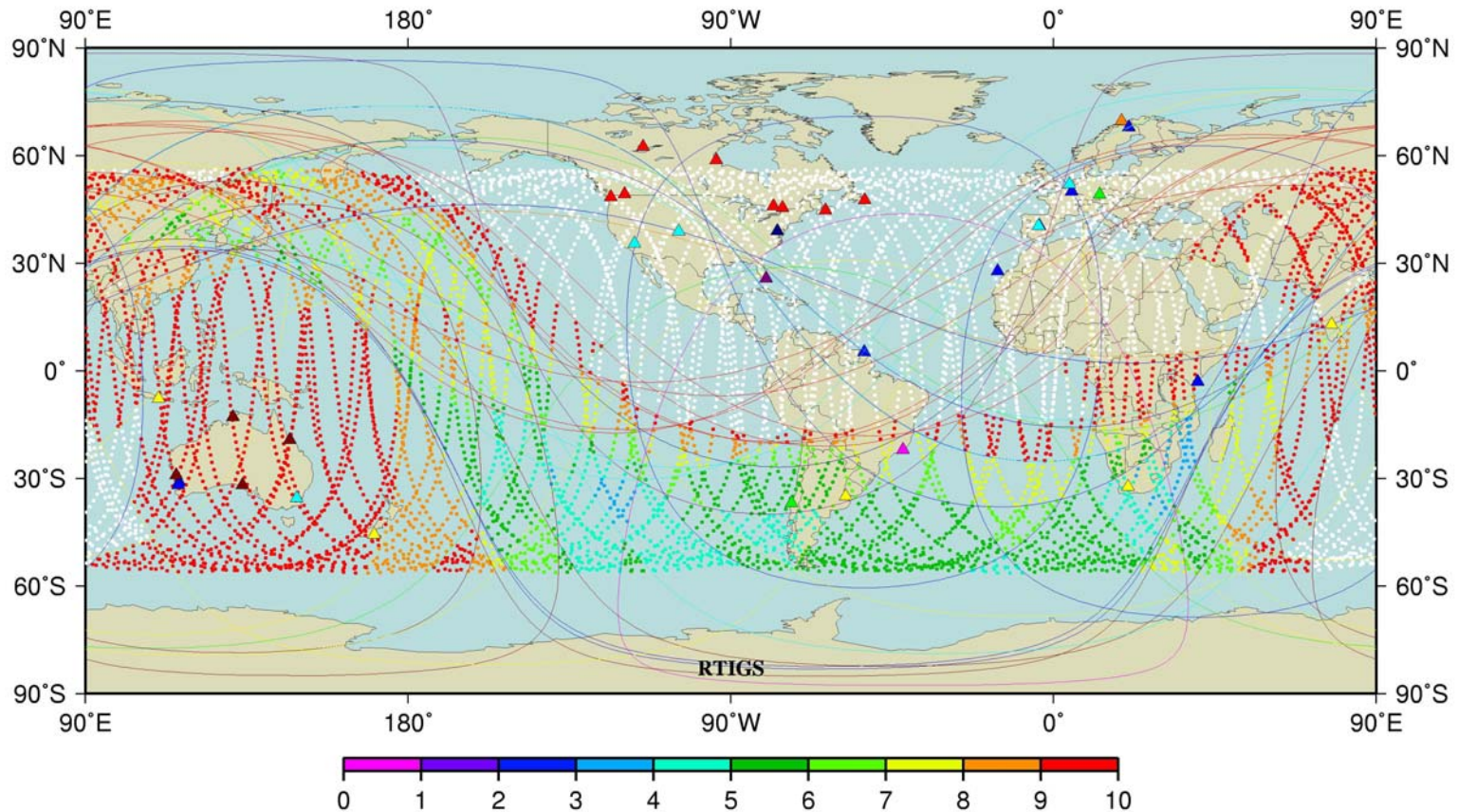
Agencies Contributing

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J P L	G F Z	N R C A N	E S O C	G S A	U S N O	N G S	B K G	D E L F T	N M A	I G B E
3 2A	6	7 3A	7	4	2 (J) (N)	1 (N)	4	1 (J)	1	1 (N)



Coverage with the Planned Network

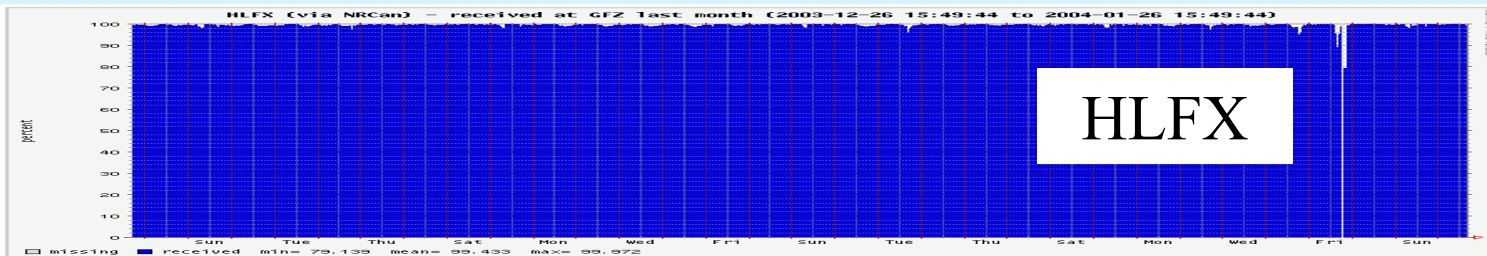




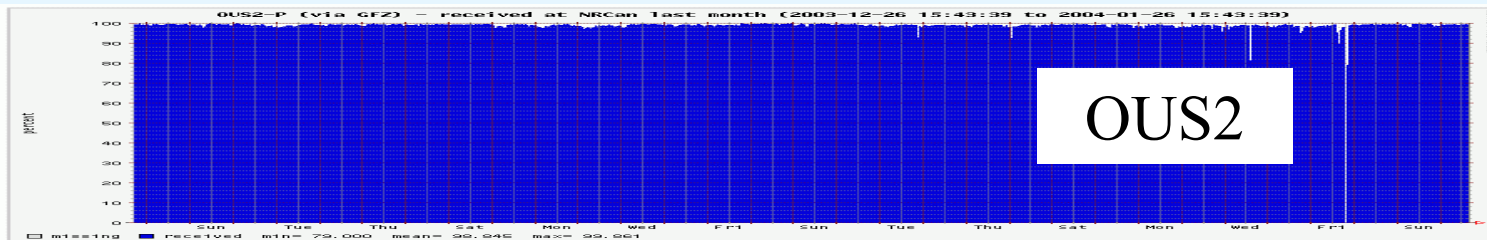
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Data Availability

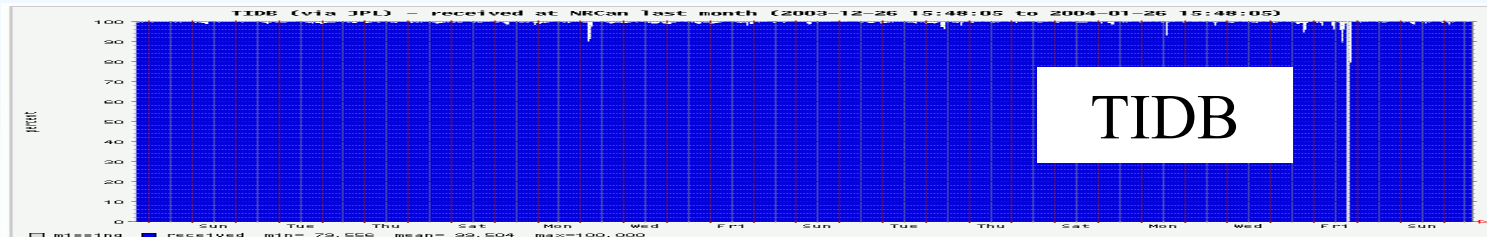
12/26/03-01/26/04



99.5%



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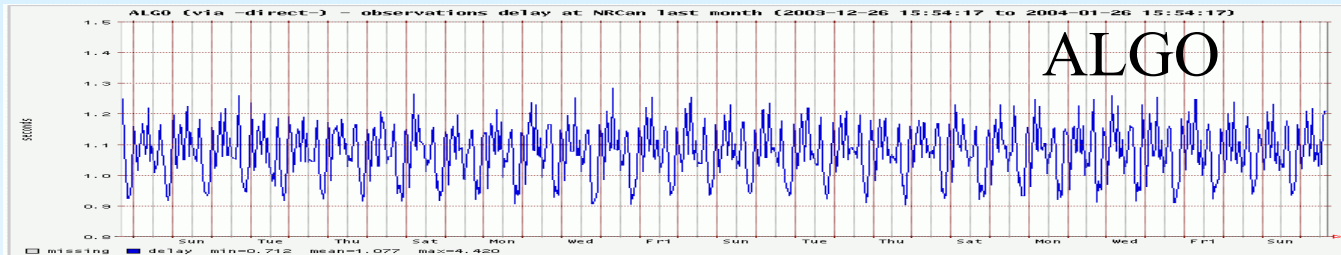
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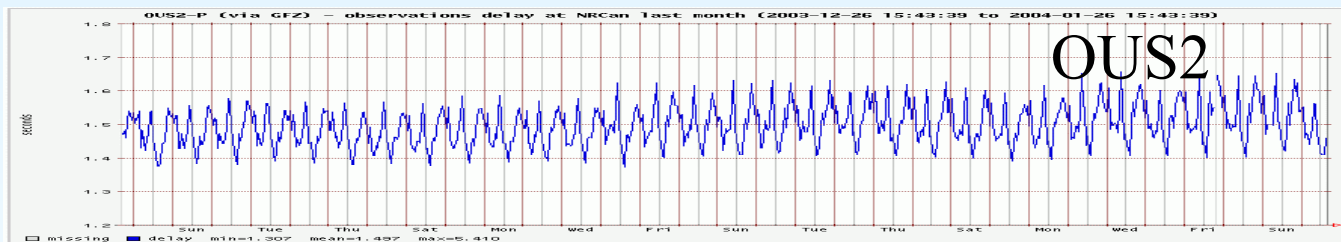
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Data Latency

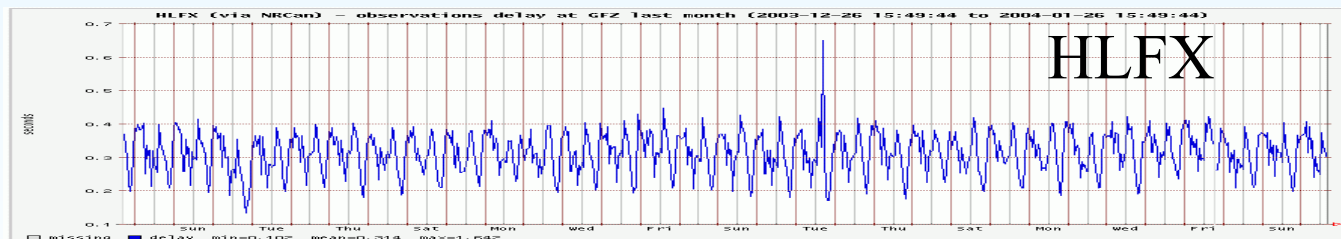
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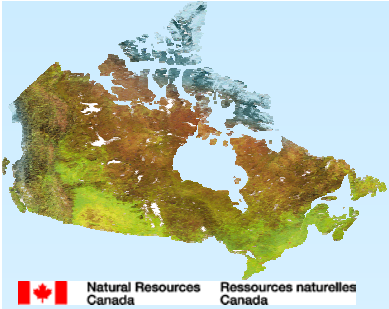
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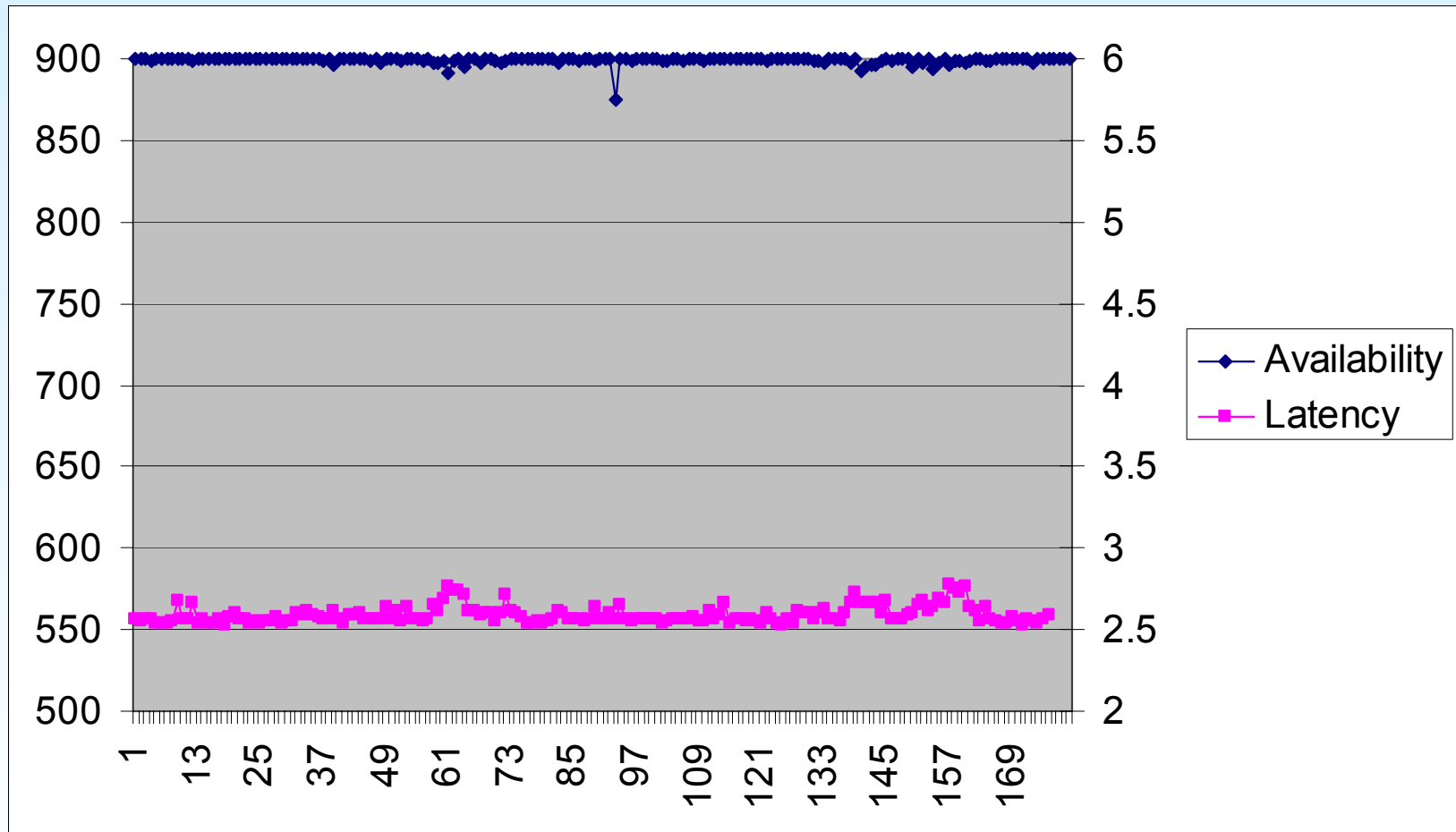
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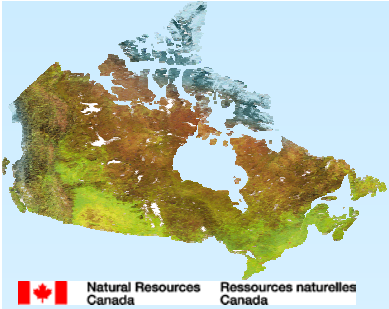


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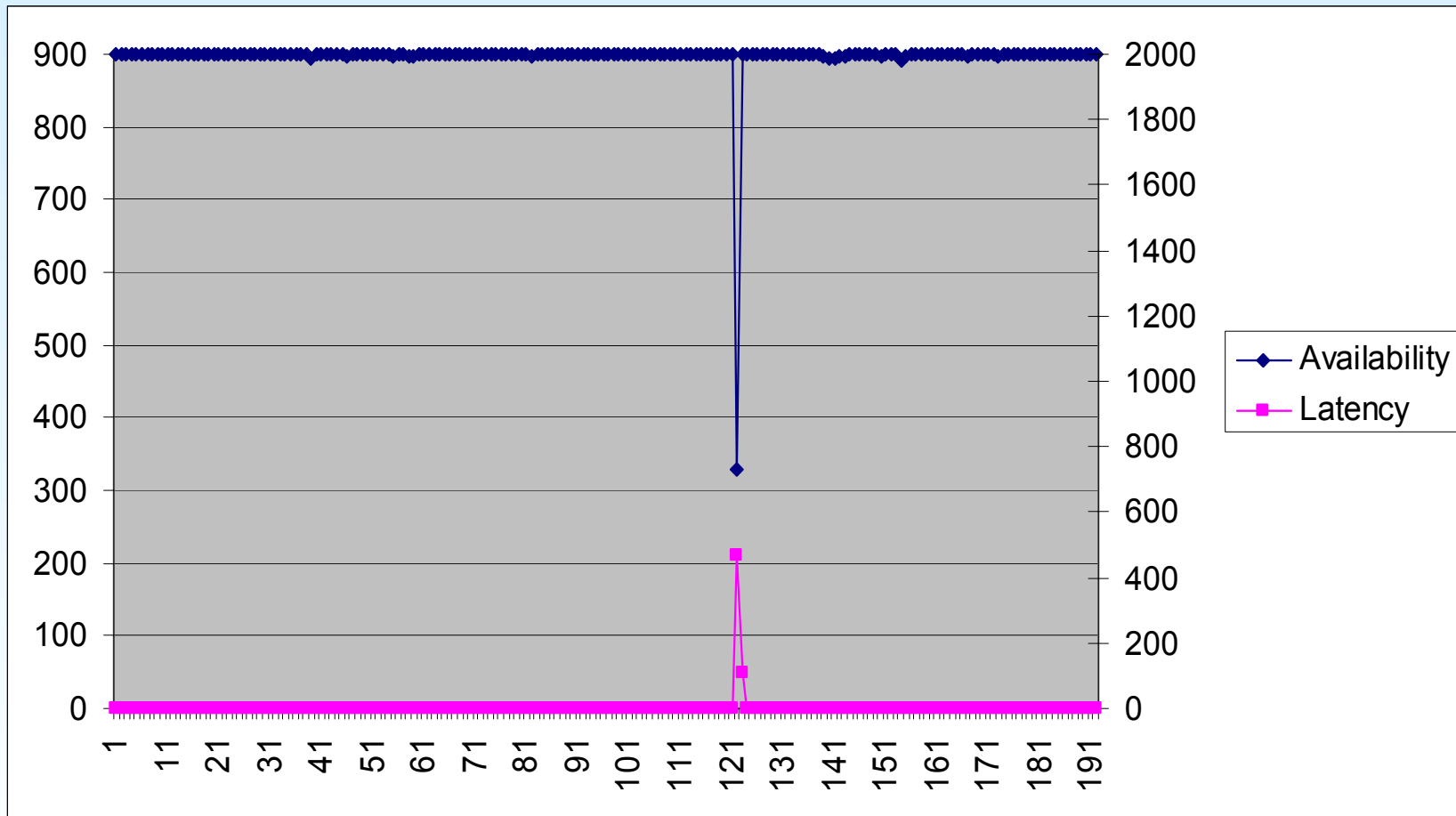


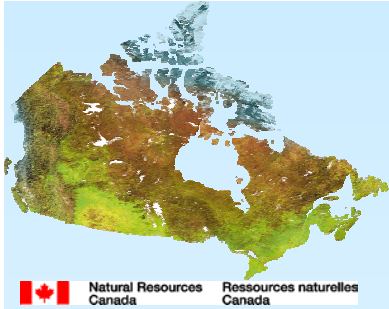
MAS1 – Feb 26-27/04





KIRU – Feb 26-27/04





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