

5th GTN-H Coordination Panel Session

University of Tokyo, Japan

12 – 13 March 2011

Global Terrestrial Network for River Discharge (GTN-R)

GRDC

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Global Terrestrial Network for River Discharge (GTN-R)

Aim:

 Access to near real-time river discharge data for selected stations around the world to capture the majority of the freshwater flux into the oceans.

Beneficiaries:

- Baseline river discharge network supported by the Implementation Plan for the Global Observing System for Climate in Support of the UNFCCC (GCOS-IP)
- Climate and hydrological modelling, research and assessment
- Global Terrestrial Network for Hydrology (GTN-H)
- GEO/GEOSS
- GRDC GEMS/Water products on chemical loads
- GRDC Freshwater Surface Water Flux products...

Network:

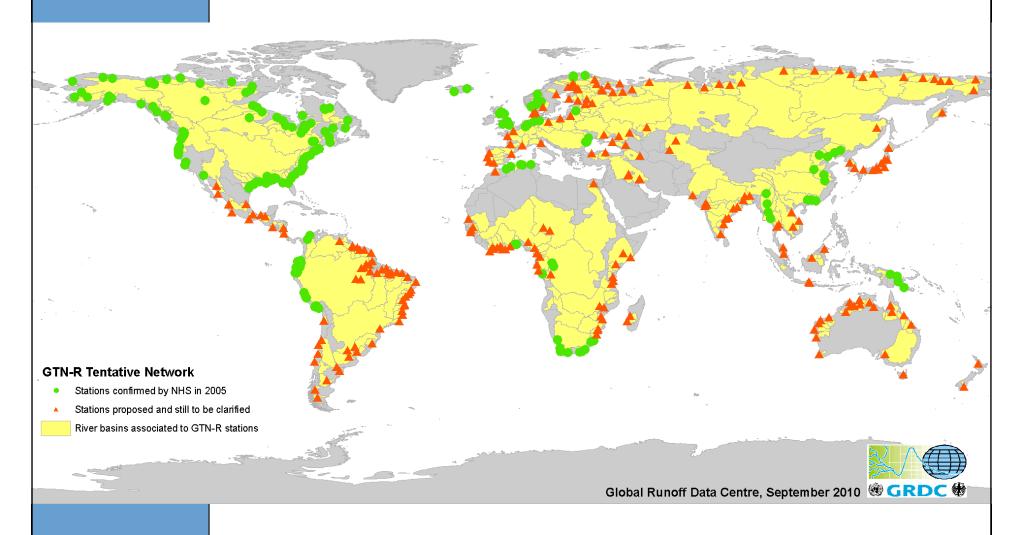
 Initial proposal of 380 near real-time river discharge stations by the GRDC for verification by the National Hydrological Services.

















GTN-R: Current Activities

Since June 2010 a GRDC part-time resource was tasked to assist with the implementation of GTN-R.

The following 15 countries have been approached directly for their participation in GTN-R due to earlier GTN-R commitments and/or good working relations with the respective hydrological services:

- Australia
- Canada
- Estonia
- Finland
- Germany
- Iceland
- Latvia
- Lithuania
- The Netherlands
- Norway
- Romania
- South Africa
- Spain
- Sweden
- United States of America

Negotiations regarding station selection, provision of station metadata, historical data and near real-time data are at various levels of progress.







GTN-R: Current Actions (continued...)

WMO support letters and information packages for GTN-R have been prepared and translated by the WMO language services and are available in

- English
- French
- Spanish
- Russian

The letters are currently being finalised by the GRDC with country specific information for final distribution to 67 concerned WMO member states.

Adoption of real-time data collection software currently operational for the ETN-R project for utilisation of GTN-R data collection.

Timeframe uncertain due to resource constraints

Participation in PF7 proposal called GEOWOW to support standardisation of hydrological data transfer in support of National Hydrological Services, WMO – WIS/WIGOS, GTN-R, GTN-H and GEO.









GTN-R: Current Actions (continued...)

Active participation in the OGC (Open Geospatial Consortium) Hydrology Domain Working Group (OGC HDWG) on standardisation of exchange of hydrological data and metadata

- OGC HDWG open to all interested parties including resources such as open mailing lists and wikis.
- Regular meetings every three months during the OGC Technical Committee meetings.
- Hosting of domain specific workshops to discuss topics of interest.
- Execution of interoperability experiments (IEs) to test and refine developments.
- More info at: http://external.opengis.org/twiki_public/HydrologyDWG/WebHome

Current key activities of the OGC HDWG

- Development of WaterML2.0 and testing within Surface Water IE
- GroundWaterML2.0 development and testing within GW IE
- Forecasting IE together with Meteorology Oceanography DWG
- Development of a Surface Water feature model
- Standard water vocabularies

GRDC Hydrological Metadata profile released in draft report in July 2009 Further development of the metadata profile with participants of the OGC HDWG

Next HDWG Workshop in Delft, The Netherlands, from 11 – 14 April 2011 **All welcome!** More info at: http://external.opengis.org/twiki_public/HydrologyDWG/IHEWkShop2011









Global Runoff Data Centre Koblenz, Germany ...more than 22 Years GRDC

Thank you for your attention!

Please visit GRDC at http://grdc.bafg.de

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