

WORLD METEOROLOGICAL ORGANIZATION

GCW-CNA1 / DOC 2.1.1

GLOBAL CRYOSPHERE WATCH

Date: Oct.31, 2013 V1

CryoNet Asia Workshop

First Session

AGENDA ITEM: 2.1

Beijing, China

3 -5 December 2013

**GCW-CryoNet Questionnaire for the
Beijing meeting, 3-5 December 2013**

One of the top priorities of the Global Cryosphere Watch (GCW) is the initiation of CryoNet, the surface-based observational network. Engagement of participants in advance of the meeting is essential so that background information can be shared before the meeting itself.

To start the GCW-CryoNet Asia discussion prior to the meeting and to share participants' thoughts on the purpose and benefits, structure and scope of the network, we are asking participants to (a) answer a few questions about contributions to, and benefits from, CryoNet, and (b) describe sites that you operate by completing a site questionnaire or providing the information in some other form. Additional information on the different types of sites is provided at the end of this document.

A. Background Questions

1. *How could CryoNet help meet your national, regional or global interests?*
2. *What could you or your organization contribute to the implementation of CryoNet?*
3. *What do you see as the benefits of CryoNet: (e.g. for operational and research network operators, scientific and decision/policy making community, environmental monitoring and modelling, scientists, satellite data providers, etc.)?*
4. *What do you see as existing gaps in cryospheric observations (e.g. thematic, spatial, temporal, availability, exchange, data policy, etc.) and how might CryoNet address these?*
5. *Please prioritize CryoNet activities according your personal view (indicate HIGH/MEDIUM/LOW for each):*
 - Establishment of CryoNet network:*
 - Harmonisation/coordination of cryospheric network:*
 - Standards, guidelines and training for observations:*
 - Inter-comparison experiments (e.g. sensors, methods):*
 - Cooperation with other networks:*
 - Data policy on archiving, accessibility and exchange:*
 - Support national needs:*
6. *Please share any other thoughts for participant to consider at the meeting.*

B. Site Descriptions

In order to expedite discussion we are asking participants to provide relevant information on their potential CryoNet sites, in advance of the meeting, that describes the sites and associated measuring programme. If you do not have this information in a form that is easily shared, we ask you to use the CRYONET Site Questionnaire below. The information will be posted in the documentation plan in advance of the meeting to be shared with others.

Replies to the questions above and submission of site information are requested by **November 22** so there is time to post the information and collate the responses.

Responses should be sent to:

Wolfgang Schoener (wolfgang.schoener@zamg.ac.at), CryoNet team lead
Xiao Cunde (cdxiao@lzb.ac.cn), workshop lead
Jeff Key (jkey@ssec.wisc.edu), GCW Task Team lead

Additional Information

Participants are referred to the outcomes of the First GCW implementation meeting and the current Implementation Plan (INF. 2 and 5 in the documentation plan, <http://www.wmo.int/pages/prog/www/OSY/Meetings/GCW-CN1/DocPlan.html>) for discussion to date on CryoNet. Annex 8 of the Final Report of the first GCW meeting provides some examples of what countries suggested that a supersite and a reference site might include.

CRYONET Site Questionnaire

Complete the tables below, to the extent reasonable, for each of your sites.

Site Metadata	
Name of site:	
Latitude/Longitude and altitude:	
Landscape type (e.g. arctic coastal, tundra, alpine...):	
Onsite technical staff? (yes/no):	
Year-round observations? (yes/no):	Year established:
Link to website, if available:	
Station manager (Email):	
Organisation in charge of station:	
Other information:	

Monitoring of the Atmosphere	
Basic meteorology: air temperature, humidity, wind speed and direction, air pressure:	
Solid precipitation:	Snowfall:
Trace gases:	
Aerosols:	
UV, stratospheric ozone:	
Radiation (longwave, shortwave):	
Others:	

Snow cover
Physical parameters:
Chemical parameters:
Others:

Glaciers and ice caps
Mass balance (measured parameters):

Ice flow (measured parameters):

Basal water pressure (measured parameters):

Others:

Sea ice

Mass balance (measured parameters):

Snow on ice (measured parameters):

Ice chemistry (measured parameters):

Others:

Permafrost

Borehole measurements (measured parameters):

Snow on ground (measured parameters):

Active layer thickness (measured parameters):

GST:

Others:

Ice sheet

Mass balance (measured parameters):

Snow on ice (measured parameters):

Ice chemistry (measured parameters):

Others:

Other measurements (hydrological, ecological, oceanographic, etc)

Hydrology (measured parameters):

Ecology (measured parameters):

Oceanography (measured parameters):

Other thematic linkages:

Linkages to satellite data (Describe validation programs, applications of satellite data, etc.)

Participation in international monitoring programmes (such as GAW, GTN-G, GTN-P, etc.)

Networks and start of contribution:

Measurements and Data

Are documented measurement procedures followed? If so, provide the document name.

Are the data quality controlled? (yes/no)

Are the data publicly available? If so, how/where?:

Would GCW be allowed to provide access to the data, either directly or indirectly?

Sustainability

Is this an operational or research site?

What is the outlook for long-term sustainability (funding and other support)?