



Achievements, Challenges and Outlook

For the SC-26 2018: Michael Zemp, Wolfgang Wagner, Simon Eggleston, Valentin Aich









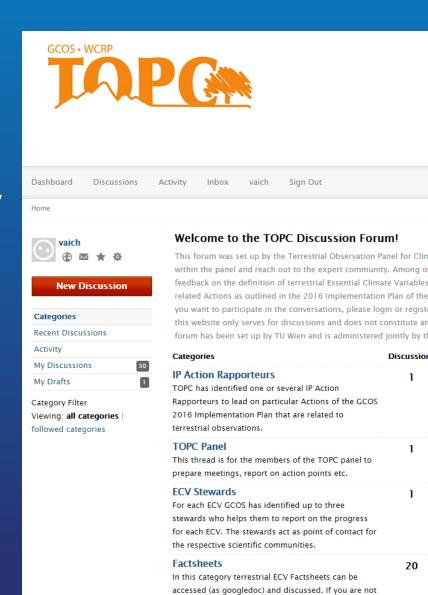
Outline

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- 2. Terrestrial ECVs
 - A. IP Action Rapporteurs
 - **B. ECV Stewards**
 - C. Factsheets
 - D. Update of Requirements
- 3. The Task Team for Climate Adaptation Observations
- 4. Expectations for the Joint panel Meeting 2019
- 5. Expectations from the Steering Committee



The TOPC Online Forum

- The forum was established for the TOPC meeting in March 2018
- It facilitates discussion amongst the Panel
 Members and the wider community
- Created to enable discussions for updating ECV
 Requirements and progress on TOPC IP Actions
- Short online introduction:
 - https://board.geo.tuwien.ac.at/
- Currently 32 users (7 non TOPC) and growing
- → Needs patience but proved to be very helpful



The TOPC Online Forum



Discussions

Activity

Inbox

mzemp

Sign Out

- TOPC Panel
- ECV Stewards
- IP Action Rapporteurs
- ECV Factsheets
- ECV Requirement Specifications
- ECV Climate Signals
- GCOS IP Action Items

ECV Stewards as of 2018



wwagner

March 20 edited August 17 In ECV Stewards 212.203.112.169

HYDROSPHERE

Anthropogenic water use: Nigel Tapper

Groundwater: Claudia Ruz Vargas, Stephan Dietrich, Matthew McCabe Lakes: Valery Vuglinsky, Jean-Francois Cretaux, Stephan Dietrich

River discharge: Ulrich Looser, Stephan Dietrich

Soil moisture: Wolfgang Wagner

CYROSPHERE

Glaciers: Huilin Li

Ice sheets and ice shelves: Hiroyuki Enomoto

Permafrost: Philippe Schoeneich

Snow: Huilin Li

BIOSPHERE

Albedo: Nadine Gobron FAPAR: Nadine Gobron

Land surface temperature: Darren Ghent Evaporation from land: Matthew McCabe

LAI: Nadine Gobron

Above-ground biomass: Martin Herold, Sassan Saatchi

Anthropogenic GHG fluxes: Greet Maenhout

Fire: Kevin Tansey

Land cover: Martin Herold Soil carbon: Kevin Tansey

Terrestrial ECVs: ECV Stewards

- Each ECV has one or more ECV Stewards
- They are a point of contact for the respective communities

ECV Steward Tasks:

- → Coordinate all relevant issues of the ECV
- → Are the point of contact for all GCOS related questions regarding the ECV
- → Keep list of data sources up to data and review new suggestions within the review process for "WMO endorsed High-Quality Climate Data Sets"

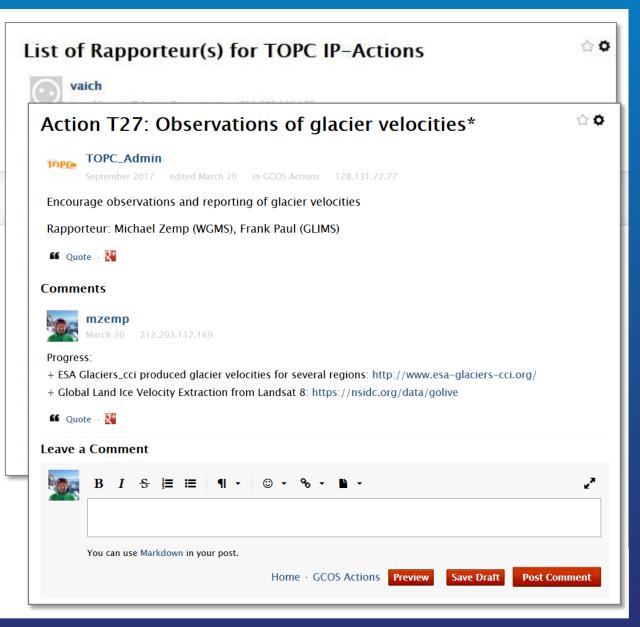


The TOPC Online Forum



Discussions Activity Inbox mzemp Sign Out

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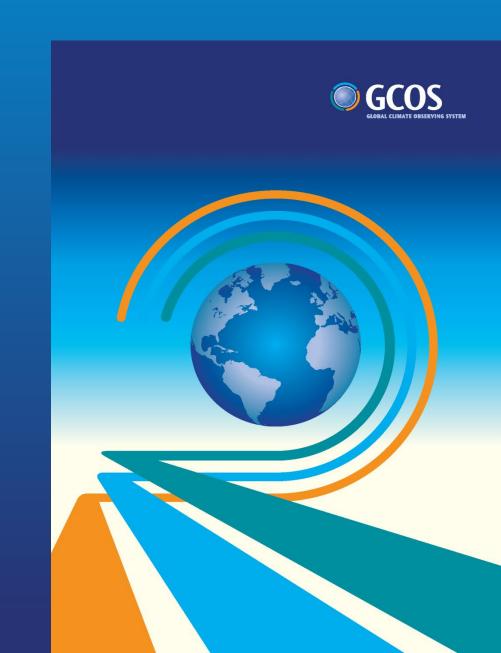


IP Action Rapporteurs

 IP Action Rapporteurs promote and monitor the implementation of IP Actions related to the terrestrial domain

Rapporteurs Tasks:

- → Prepare and curate update on actions as basis for status report in 2021
- → Point TOPC to issues during the implementation



Terrestrial ECVs: ECV Factsheets

 Almost all terrestrial ECV factsheets are reviewed by the respective ECV

Steward(s) and ready to publish

 Suggested that any update of requirements only made on online version in addition to current requirements from the 2016 IP



Task Team on Climate Adaptation Observations

TOPC-20 2018 decided to establish a Task Team on Climate Adaptation Observations

Members / Affiliation / Expertise:

- Nigel Tapper (Chair) / Monash University / Urban Planning, heat related health
- Kelly Leilani Main / MIT / Urban Planning
- Matthew McCabe/ Kast University/ Dry lands, water and agriculture
- Jean Palutikof/ Australian National Climate Change Adaptation Research Facility/coastal adaptation
- Gina Ziervogel / Cape Town University / Water and food security
- Ben Preston/ Rand cooperation/ Energy, infrastructure, policy
- Paul Watkiss/ Consultant/ Adaptation policy appraisal, cost-benefit analysis
- Hartwig Kremer/ UN Environment, GEMS Water Unit & Climate Technology Centre and Network, CTCN/ Water & economics

Task Team on Climate Adaptation Observations

Terms of Reference (Excerpt):

Identify indicators to monitor adaptation.
 These indicators may be based on physical as well as socio-economic data.

Potential for cross-panel task team...

- Report on current status of observation availability and adequacy for adaptation and outline benefits improvements could produce
- Consider what requirements, guidance and best practice for climate observations for adaptation may be needed and how to produce them
- Advise Scientific Panels of GCOS on how to promote observations for adaptation in the existing global climate observing system
- The task team shall exist for an initial period of one year and will be extended according to identified needs.

TOPC Expectations for the Joint Panel Meeting 2019

- Limit plenary sessions to 1 day, leaving time for meetings of individual panels and cross-panel task groups
- Clear timeline for update of Implementation Plan
- Reporting on all terrestrial ECV, status and Implementation Plan actions
- How to make use of programs/projects dedicated to ECVs (C3S, ...)

- => Guidance from SC for plenary & cross-panel tasks
- => Teleconference between Panel Chairs & GCOS Secretariat to define topics



TOPC expectations from Steering Committee

- Stronger guidance from GCOS Steering Committee with respect to
 - Tasks
 - Priorities
 - Timelines
 - Cross-panel task teams
 - Cross-panel implementation processes (cf. agenda point 4d)



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