

The 2019 ISPRS Workshop on Cryosphere and Hydrosphere for Global Change Studies (CHGCS 2019)

June 14, 2019

Enschede, The Netherlands

In conjunction with the ISPRS Geospatial Week 2019, June 10-14, 2019

GSW 2019 Website: <https://www.gsw2019.org/chgcs/>

First Circulation

The cryosphere represents the water in solid form, including the two polar ice caps, glaciers, icebergs, seasonal ice, as well as permafrost, while the hydrosphere refers to all the water in liquid state on earth, including oceans, land water masses, and moisture in soils. The cryosphere and hydrosphere interact with other spheres such as the atmosphere and lithosphere. In recent years, with the significant global climate warming, the ice is melting, the global sea level is rising, and changes in the pattern of precipitation are bringing intense rainfall and floods to some areas and devastating droughts to others. Extreme high temperature (>30 °C) occurred in Arctic in 2018. Satellite remote sensing and associated airborne and in-situ measurements have been crucial for advancing our understanding of the dynamics and impacts on changes of cryosphere and hydrosphere.

Following successful CHGCS 2017 in Wuhan, China (in conjunction with the ISPRS Geospatial Week 2017), CHGCS 2019 will provide an opportunity for all professionals involved in cryosphere and hydrosphere to share research ideas and results, foster and enhance cooperation, draw inspirations and maximize potentials. It will take place on June 14, 2019, in Enschede, the Netherlands, organized by ISPRS WG III/9 Cryosphere and Hydrosphere. The event will be held in conjunction with the ISPRS Geospatial Week 2019 (website: <https://www.gsw2019.org/>) from June 10-14, 2019.

Themes of the Workshop

The themes of the event cover a wide range of remote sensing research and applications relevant to cryosphere and hydrosphere, including, but not limited to the following aspects:

- ice sheets, glaciers, and ice shelves
- sea ice in the Arctic and Antarctic
- mass balance
- river and lake ice
- albedo at high latitudes
- permafrost
- cryosphere-atmosphere interaction

- himalayan cryosphere
- surface water and groundwater hydrology
- coastal environments and sea-level rise
- data assimilation and cryospheric and hydrological models
- retrieval of satellite cryospheric and hydrological parameters

Submission of Papers

High-quality extended abstracts or full papers covering one or more of the above topics should be submitted electronically, and will be gone through a peer review process. The submissions should be prepared according to the ISPRS guidelines for preparing manuscripts (<http://www.isprs.org/documents/orangebook/app5.aspx>) and should not exceed 8 pages for a full paper and should not be less than 4 pages for an extended abstract. Accepted submissions will appear as a Volume of Archives (extended abstracts) or a Volume of Annals (full papers) of Photogrammetry, Remote Sensing and the Spatial Information Science. Appropriate research results are encouraged to be submitted as full papers.

Key Dates

Jan. 17, 2019: Full paper submission deadline (for Annals)

Feb. 4, 2019: Abstract submission deadline (for Archives, min. 4 pages)

Mar. 1, 2019: Abstract author notification

Mar. 8, 2019: Full paper author notification

Apr. 2, 2019: Camera ready paper submission

Apr. 2, 2019: Early bird registration deadline

June 6, 2019: Late registration deadline

June 14, 2019: Workshop

ISPRS Working Group Officers:

Co-chairs

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