

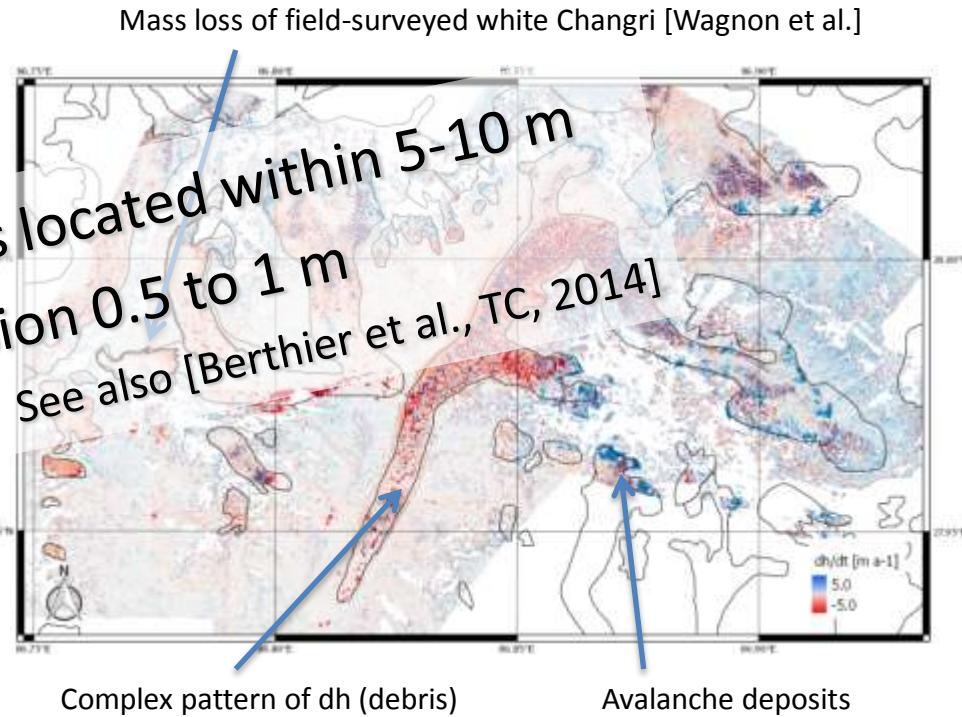
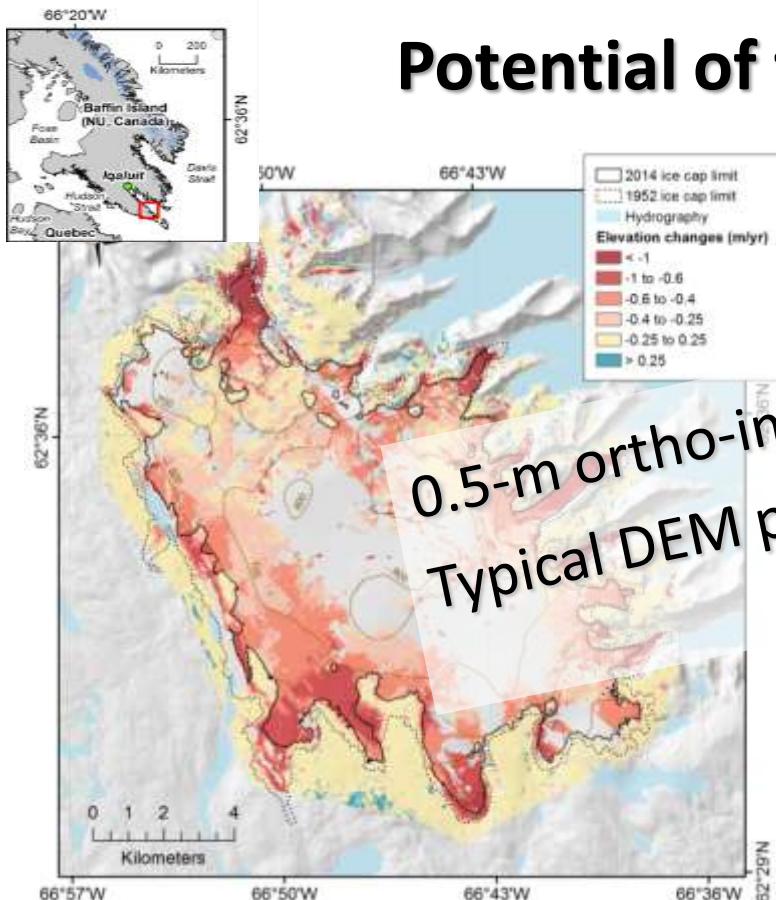


# PGO: Pléiades Glacier Observatory

Berthier E., Fontannaz D., Hosford S., Zemp M.

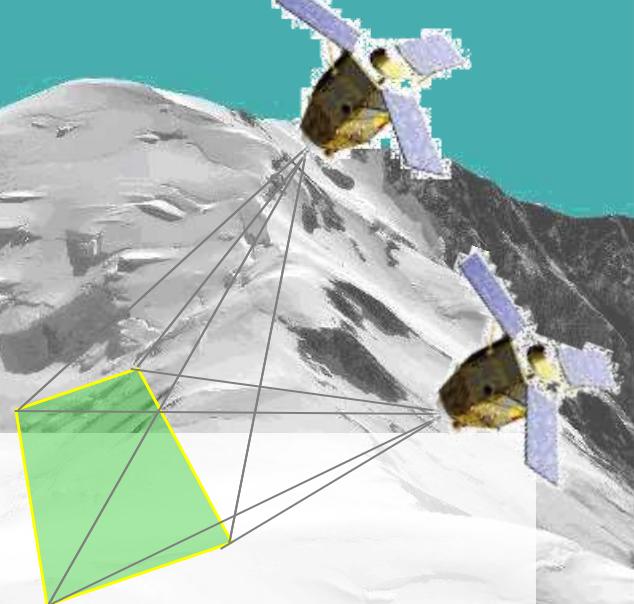


## Potential of the Pléiades data in glaciology



# The Pléiades Glacier Observatory

- Entirely funded by the French Space Agency (**CNES**)
- Facilitate access to Pléiades satellite data for glaciologists
- Acquire stereo data at the **right time of the year** (i.e. end of the melt season)
- Sites selected in coordination with **WGMS**: initial goals are to use these data to (i) provide a DEM/image of benchmark glaciers and (ii) help to assess the regional representativeness of the glaciers monitored in the field.
- One contact scientist for each site to define the acquisition parameters and validate the images when acquired.
- Raw stereo-data are provided. Possibility to get a DEM + ortho-image (generation @LEGOS using Ames Stereo Pipeline)
- PGO stereo images are **freely available to all science users**, on the condition that they sign an agreement with CNES.
- Two acquisition campaigns completed: Aug-Oct 2016 (NH) and Feb-April 2017 (SH)





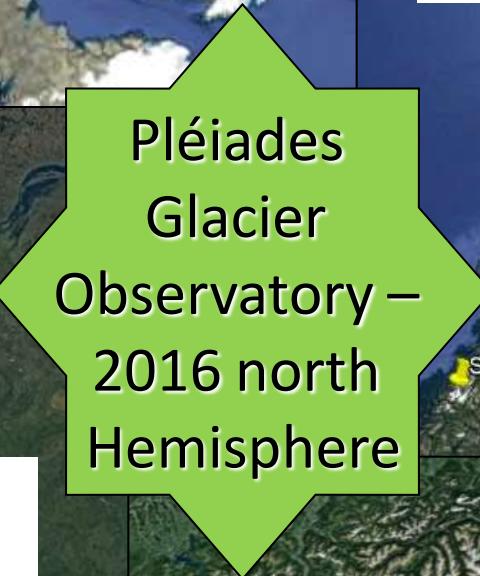
TIEN SHAN  
KARAKORAM



CANADIAN  
ARCTIC



SVALBARD  
NORWAY



Pléiades  
Glacier  
Observatory –  
2016 north  
Hemisphere

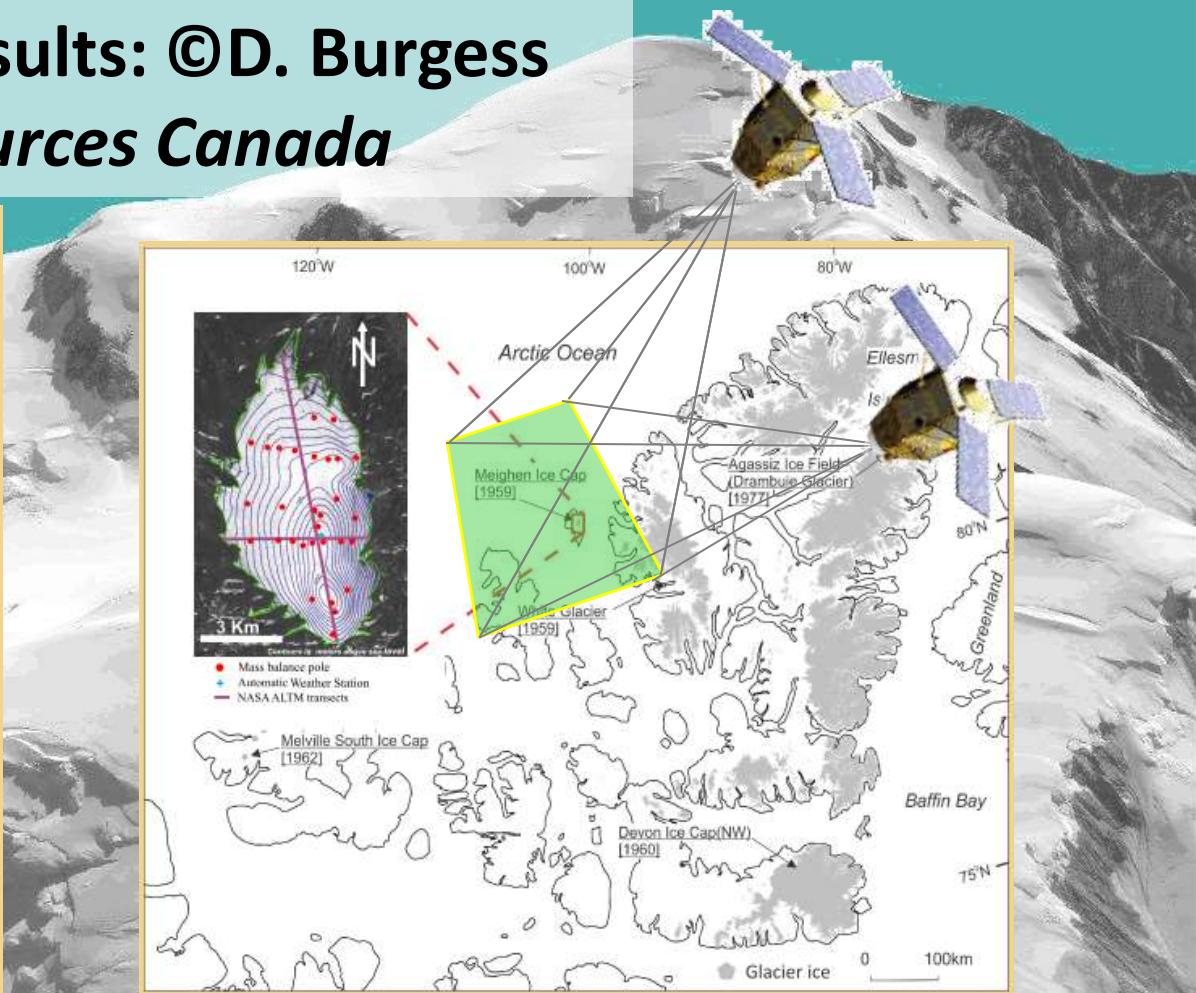
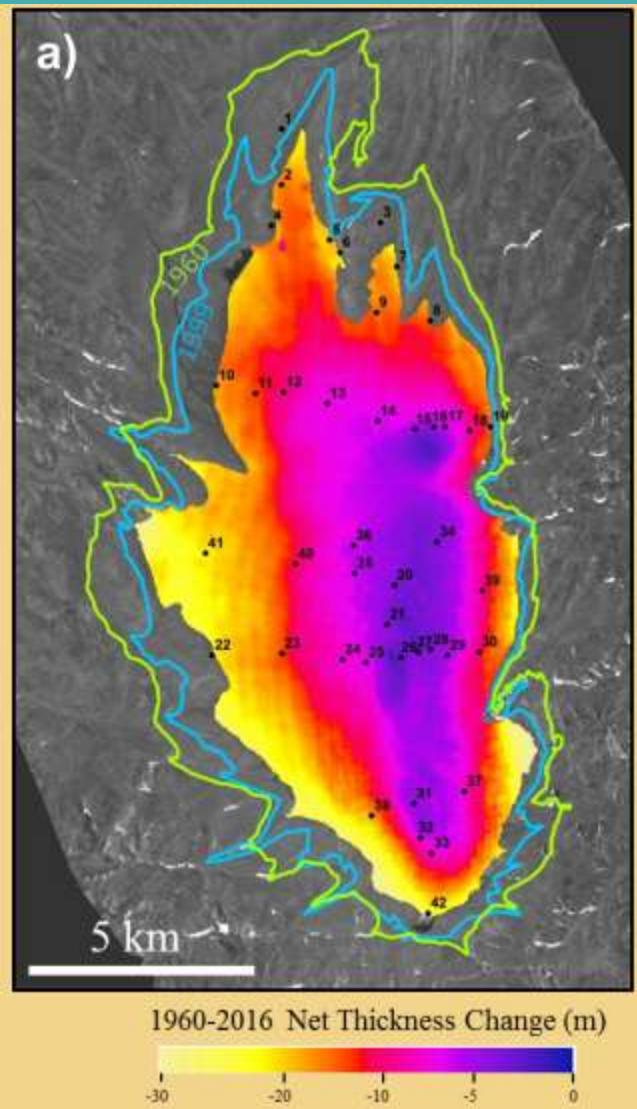


ALASKA  
ROCKIES  
COASTAL MTS



EUROPEAN  
ALPS

# Example of first results: ©D. Burgess Natural Resources Canada



Re-analysis of the Glacier Mass Balance Time Series  
From Meighen Ice Cap, Nunavut, Canada (1960-2016)

# The Pléiades Glacier Observatory

- Do not hesitate to **propose your study site** ( $< 400 \text{ km}^2$ ) for the upcoming 2017-North & 2018-South acquisition campaigns. Not all requests can be satisfied though...
- Contact us if you want to access the stereo-pairs already acquired.
- For EU researchers (including all ESA countries), access to Pléiades data is also possible through the ISIS programme. Cost of 1.8 euros /  $\text{km}^2$  ; 3.6 euros /  $\text{km}^2$  for a stereo coverage. Contact: [isis-pleiades@cnes.fr](mailto:isis-pleiades@cnes.fr)
- Questions/feedbacks?
- [etienne.berthier@legos.obs-mip.fr](mailto:etienne.berthier@legos.obs-mip.fr)

