



# Second International Arctic Vegetation Archive Workshop

An IASC Terrestrial Working Group  
and CAFF Flora Group Workshop

Czech Academy of Science Building, Prague, Czech Republic  
Arctic Science Summit Week 2017, 30-31 March



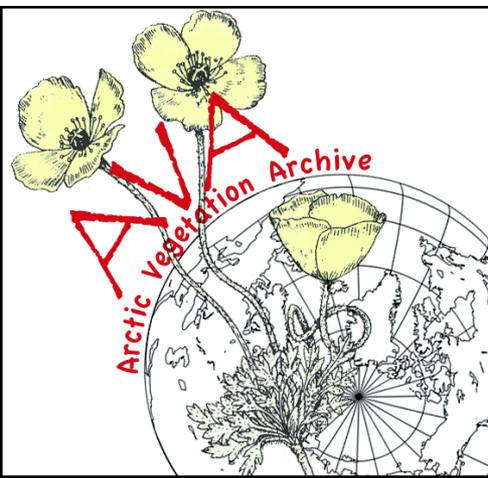
Arctic Vegetation Archive and Classification Workshop  
Czech Academy of Science, 30-31 March 2017



**Panel discussion regarding future of the AVA: From left, Jozef Šibík (Slovakia), Marilyn Walker (USA), Nadya Matveeva (Russia), Lennart Nilsen (Norway), Fred Daniëls (Germany, Greenland), Will MacKLenzie (Canada)**

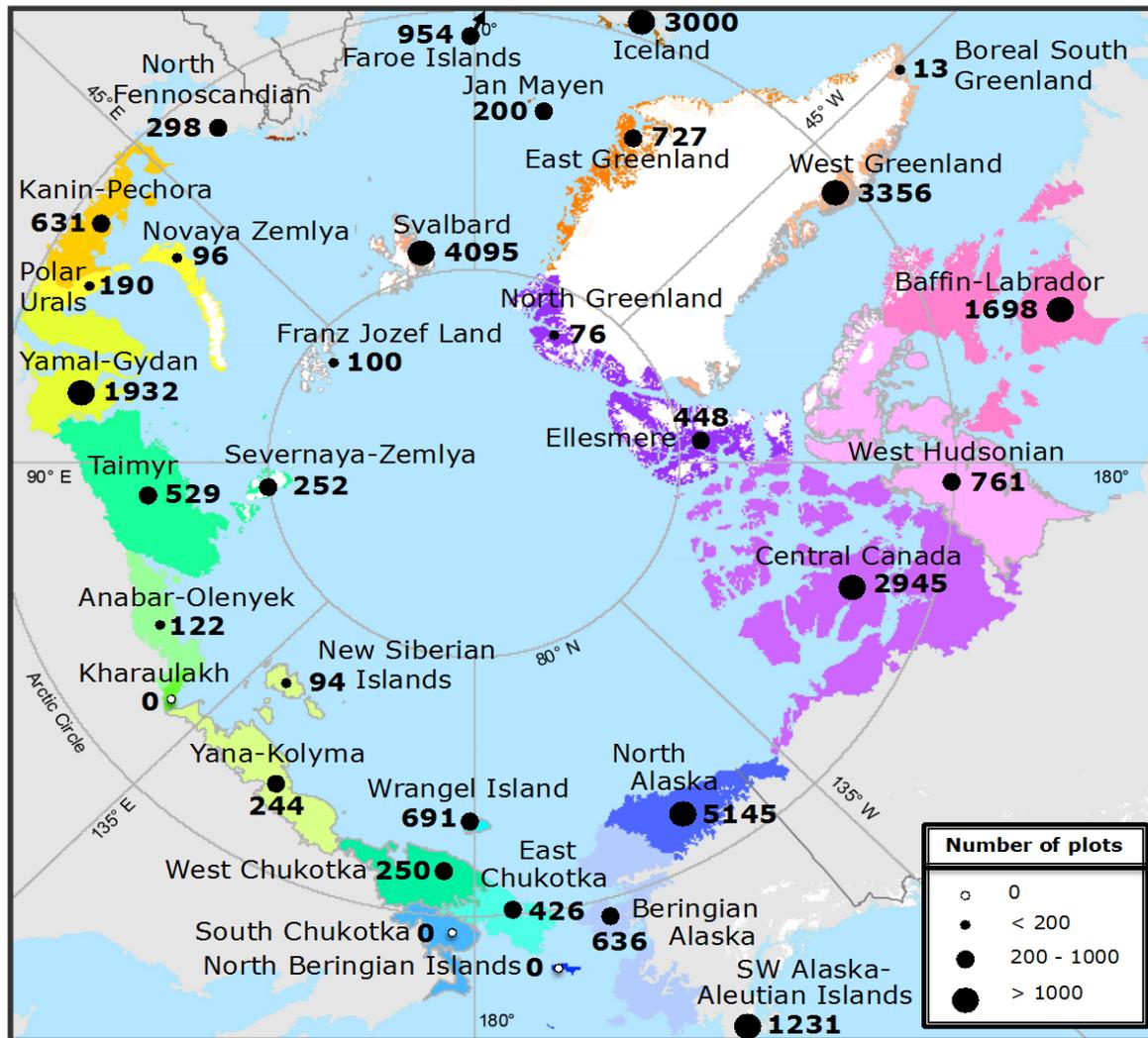
## An IASC Terrestrial Working Group Workshop

# Second International Arctic Vegetation Archive Workshop



- The Arctic Vegetation Archive (AVA) is essential for developing an Arctic Vegetation Classification (AVC) and is needed for a variety of international Arctic initiatives that involve Arctic vegetation information.
- Vegetation and environmental data from approximately 31 000 legacy vegetation plots are being assembled in a standardized format for vegetation classification and analysis (next slide).
- The primary goal is to develop a strategy for each country to assemble its own archive with common protocols that will later allow the databases to be united into a single AVA using TurboVeg v3 and then use JUICE software to create a Pan Arctic vegetation classification.
- Twenty-nine individuals from most of the Arctic countries participated the two-day workshop at the Czech Academy of Science Building in Prague, Czech Republic, 30-31 April 2017.
- Review of the datasets and plots that are available for each of the floristic provinces in each circumpolar country.
- Discussions focused on the exchange of data between different database approaches, reflections on the realization of a pan-Arctic vegetation classification, steps still needed to achieve the AVC, and how to elevate goals of the workshop in the IASC 5-year Science Plan.

# Distribution of known Arctic 30,980 known vegetation plots by Arctic floristic subprovinces



# Prague AVA Vegetation Synthesis Resolution

**The assembled members resolved to accomplish the following within 5 years:**

- Promote the updating, and maintenance of the Panarctic Flora (PAF) and the Arctic lichen, moss, and hepatic checklists as a panarctic standard for plant nomenclature.
- Develop a checklist of existing described Arctic vegetation habitat and vegetation types according the European Vegetation Classification approach (an Arctic prodromus).
- Secure funds for completing the AVA and AVC.
- Develop and use standardized plot-data collection and archiving methods modeled after the European Vegetation Archive and the Alaska Arctic Vegetation Archive.
- Modify the existing vector-based Circumpolar Arctic Vegetation Map to a raster-based format with 12.5-km resolution, and incorporate modifications based on new knowledge.
- Develop a funding strategy to complete the Circumboreal Vegetation Map (CBVM) and link it to the Circumpolar Arctic Vegetation Map (CAVM) with a revised treeline, and a raster format.
- Work with the Arctic Data Center (ADC) to develop data-sharing methods and rules for Arctic vegetation data.
- Facilitate and promote the application of AVA, AVC, CAVM, and CBVM to the Arctic research community, land managers, and policy makers.
- Contribute to training a new generation of young professional Arctic botanists and vegetation scientists through international field courses at the University of the Arctic and the Association of Polar Early Career Scientists (APECS).
- Meet again at Arctic Science Summit Week 2019 in Arkhangelsk, Russia.