### Lunedì 18

10:00 Registrazione  
10:45 Apertura dei lavori e saluti  
11:00 La ricerca alle Svalbard: la Stazione Artica Dirigibile Italia (A. Viola)  
11:15 Artico 2018, l'interesse dei media (M. Ferrazzoli)

#### COMUNICAZIONI ORALI

- **Oceanografia e mare** (*Chair: T. Tesi*)
  - S. Aliani *et al.*, Italian Marine Arctic Experimental Infrastructure in Ny-Ålesund  
  - G. Buscaino *et al.*, Passive acoustic monitoring of the Kongsfjorden  
  - L. Langone *et al.*, Multi-year particle fluxes in Kongsfjorden, Svalbard  
  - S. Aliani *et al.*, Ocean Heat content in Kongsfjorden, Svalbard  
  - N. Ademollo *et al.*, Disentangle local and remote contamination in fjord ecosystem of the high Arctic  
  - F. Ardini *et al.*, Trace elements in the Kongsfjorden: presence, sources and bioavailability  
  - M. Azzaro *et al.*, Microbiological research in Kongsfjorden  
  - L. Ghigliotti *et al.*, The Arctic marine fish fauna in the Kongsfjorden

- **Atmosfera** (*A. Viola*)
  - M. Mazzola *et al.*, Atmospheric Observations at the Amundsen-Nobile Climate Change Tower: climatology and processes  
  - M. Giordano *et al.*, Fiber OPTic thermOhygrometers for AdmumdseN-Nobile Climate Change Tower (CCT)  
  - D. Cappelletti *et al.*, Spatial distribution of aerosol properties in the lower troposphere upon Ny-Ålesund  
  - E. Barbaro *et al.*, Chemical composition of Arctic aerosol: water soluble organic compounds, trace and rare earth elements  
  - R. Traversi *et al.*, Aerosol Biogeochemical cycles, Sources and Transport processes in the climate sensitive ArCTic  
  - M. Malandrino *et al.*, Elemental composition and isotopes of lead in atmospheric particulate matter collected in Ny-Ålesund  
  - V. Vitale *et al.*, Monitoring of surface solar UV irradiance and ozone column at Svalbard  
  - S. Massetti *et al.*, Study of Northern Lights at high latitudes. Space Weather and Sun-Earth correlations

13:30-14:30 Pausa pranzo

14:30 – 16:30 Pausa caffè
17:00 – 18:15 **Innovazione tecnologica e scientifica** (A. Iadanza)
- C. Musacchio et al., Reassessing air temperature profiles at the Climate change Tower by on site calibrations
- G. Bruzzone et al., Autonomous marine and aerial vehicles for carrying out scientific surveys near Arctic tidewater glaciers
- A. Merlone et al., The Global Cryosphere Watch prescriptions and guidelines on measurement traceability and related WMO initiatives
- S. Masi e P. De Bernardis, Stratospheric Balloons from Svalbard Islands
- L. Spogli (De Franceschi et al.), Monitoring the ionospheric irregularities through GNSS signals: the ISACCO and GENIUS projects

**SESSIONE POSTER**

18:30 – 20:00 Poster e rinfresco

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**Martedì 19**

**COMUNICAZIONI ORALI**

9:00 – 10:15 **Criosfera** *(Chair: A. Spolaor)*
- M. Doveri et al., Isotopic signatures, physical-chemical features and flow rates of glacial drainages in the Ny-Ålesund area, Svalbard
- M. Guglielmin et al., Permafrost, active layer thickness and related morphology changes monitoring
- R. Salvatori et al., Remote e Proximal sensing per lo studio delle coperture nevose
- R. Salzano et al., Exchange processes at the air-snow interface
- A. Spolaor et al., Chemical fingerprints in Svalbard snow and ice to understand the changes occurring in Arctic

10:15 – 10:45 Pausa caffè

10:45 – 13:00 **Ecosistemi terrestri e suolo** *(Chair: A. Augusti)*
- L. D’Acqui et al., From Ice To Soil
- I. Baneschi et al., CZO@Bayelva: Observing Earth Critical Zone processes in the Bayelva basin
- E. Miccadei et al., Geomorphological Mapping In The Kongsfjorden Area
- V. Pasquali, Biological rhythms in polar animals
- E. Calizza et al., Nutrient inputs and food webs in high-Arctic lakes
- N. Cannone et al., Effects of abiotic and biotic factors on CO₂ land-atmosphere fluxes in the High Arctic
L’ARTICO VISTO DA NY-ÅLESUND
Risultati delle ricerche, nuove proposte e visioni d’insieme

18-19 marzo 2019
Roma

- F. Ferlazzo et al., Biological rhythms and decision-making in high arctic residents during summer and winter
- N. Cannone, Climate warming impacts on Arctic vegetation
- Augusti et al., The Contribution of Tundra Ecosystem to Carbon Fluxes

13:00 – 14:00 Pausa pranzo

14:30-15:00 Stato e prospettive della ricerca Italiana alle Svalbard (A. Provenzale)

15:00-16:30 Discussione

16:30 Chiusura dei lavori
**Sessione Poster**

**Oceanografia e mare**
- V. Iannilli et al., First evidence of microplastics ingestion in benthic amphipods from Svalbard
- R. Grammauta et al., Real-time acoustic monitoring system in Ny-Ålesund
- G. Alonge et al., A new methodology for the study of ice calving events from underwater acoustic data
- M. Lelli et al., AR-DIS-CO2: Arctic Dissolved CO2 project
- G. Buscaino et al., Seasonal distribution of vocalizations and analysis of some acoustic parameters of haddock fish *Melanogrammus aeglefinus* in Kongsfjorden
- C. Cantoni et al., Glacial drivers of marine biogeochemistry in an Arctic fjord: the Kongsfjorden case study
- L. Langone et al., Particulate organic carbon fluxes off Storfjorden
- S. Misericocchi et al., Modern sediment distribution and composition in Kongsfjorden, Svalbard
- T. Tesi et al., Paleo climate reconstruction in Kongsfjorden over the last 1k years: preliminary results of C3 project
- E. Papale et al., Detection of the acoustic presence of beluga (*Delphinapterus leucas*) in the Kongsfjorden

**Atmosfera**
- F. Dallo et al., Laboratory calibration and field assessment of low-cost electrochemical Ozone sensors in Alpine and Arctic environments
- S. Gilardoni et al., Short climatology of Brown Carbon in Ny-Ålesund
- D. Cava et al., The highly stable boundary layer as a driver of atmospheric dynamics and thermodynamics at high latitudes
- M. Rinaldi et al., Spring and Summer-time INP Observations at Ny-Ålesund by DFPC
- L. Caiazzo et al., Biogenic Aerosol, oceanic Primary production and Nucleation Events in the Arctic – BioAPNEA
- F. Carotenuto et al., Application of Low-Cost Sensors in Extreme Environments: One Year of Measurements
- L. Di Liberto et al., Lidar measurement in the arctic Planetary Boundary Layer
- M. Feltracco et al., Free and combined L- and D-amino acids in Arctic aerosol
- M. Mazzola et al., Moon-Photometric Observations during the Polar Night
- A. Cecinato et al., Organic pollutant in the Ny-Ålesund’s atmosphere

**Innovazione tecnologica e scientifica**
- C. Elefante (A. Viola et al.), The Italian Arctic Data Center (IADC): an integrated interoperable digital system for arctic data management
- V. Romano et al., NARWHALS, an ESA funded project to support the maritime navigation in Arctic
- G. Bruzzone et al., Autonomous marine and aerial vehicles for carrying out scientific surveys near Arctic tidewater glaciers

**Criosfera**
- E. Barbaro et al., Free amino acids in the Arctic snow and ice core samples: Potential markers for paleoclimatic studies
- E. Barbaro et al., Change in chemical composition of the annual snow layer: the effects of rain event and melting processes
- A. Spolaor et al., Degradation of the climate signal preserved in Svalbard ice archive
- A. Spolaor et al., Diurnal cycle of iodine and mercury concentrations in Svalbard surface snow
- F. Burgay et al., Iron species in ice cores. First results and new directions of research
- M. Vecchiato et al., Local and long-range sources of fragrances in snow and seawater of Ny-Ålesund

**Ecosistemi terrestri e suolo**
- G. Giacalone et al., Extraction and identification of biological patterns from multibeam acoustic data acquired in Kongfjorden