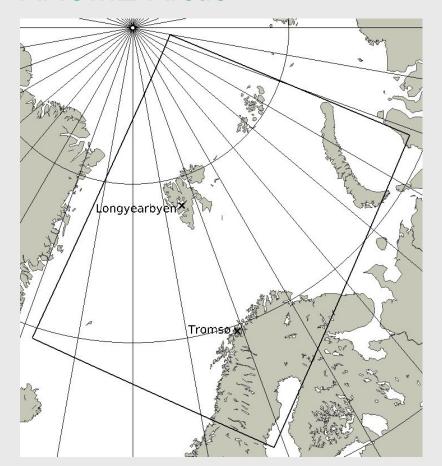


# Storm forecast using AROME-Arctic mesoscale model

Ida Fossli

#### **AROME-Arctic**



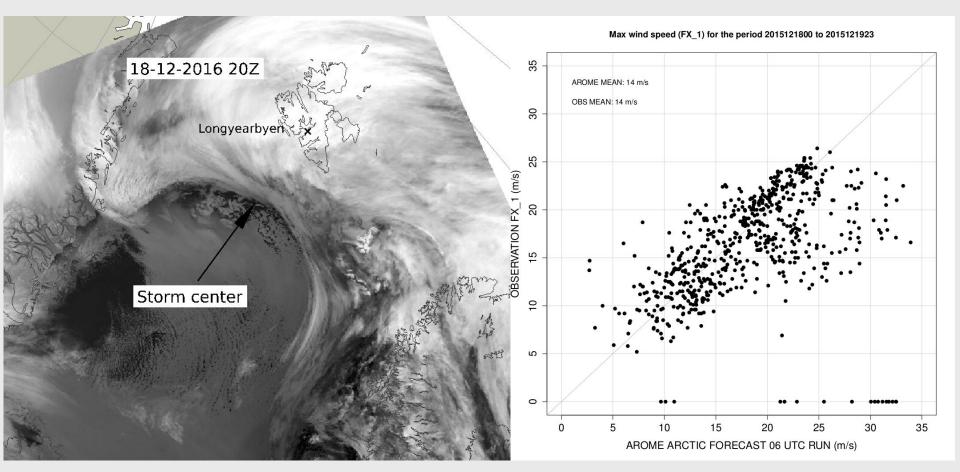
# Regional non-hydrostatic NWP model operated daily by MET Norway

- Harmonie cycle 38h1.2
- AROME physical parametrization
- 2.5km/65levels/10 hPa top
- Domain with 750x960 gridpoints
- Hourly boundaries from ECMWF
- Forecast length 66 hours
- ECOCLIMAP-2
- Surface assimilation (t2m, th2m, snow)
- 3DVAR (conventional, ATOVS, GNSS, ASCAT)
- 3-hours cycling
- SURFEX for surface modelling
- Simple Ice Scheme (SICE) for sea ice parametrization

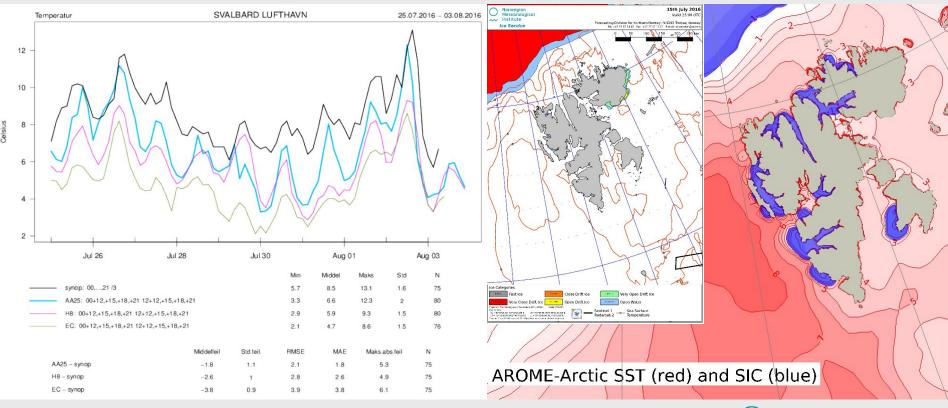
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### Svalbard Storm 18-19 December 2015

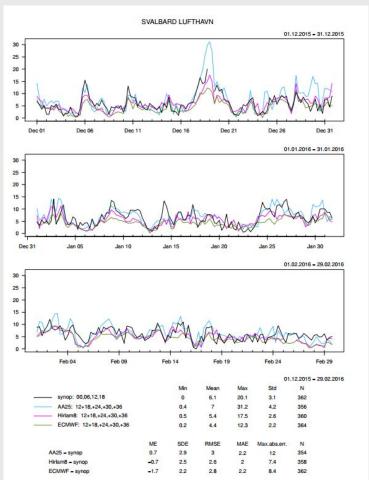


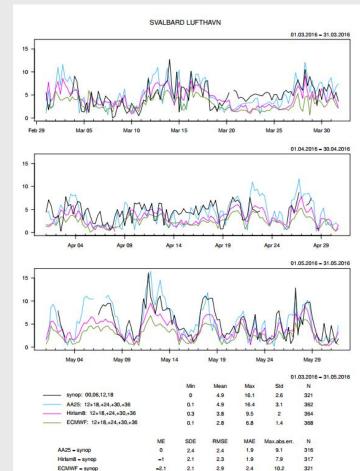
## Ongoing development: sea ice representation





#### **AROME-Arctic: Verification**





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