Simulation of airborne radar measurements in the Arctic using weather models and an advanced forward operator

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HALO Status Colloquium

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SUMMARY

- The HiRes simulations allow for a better representation of clouds and wind fields
- The instrument forward simulations and trajectory modeling will help in the flight planning phase and in the post-mission data interpretation
- The size of the simulation domain must be adapted to reduce the computational cost
- Forward simulations are also expensive. Working on a LUT scattering table implementation for fast (online) computations during the campaign

