

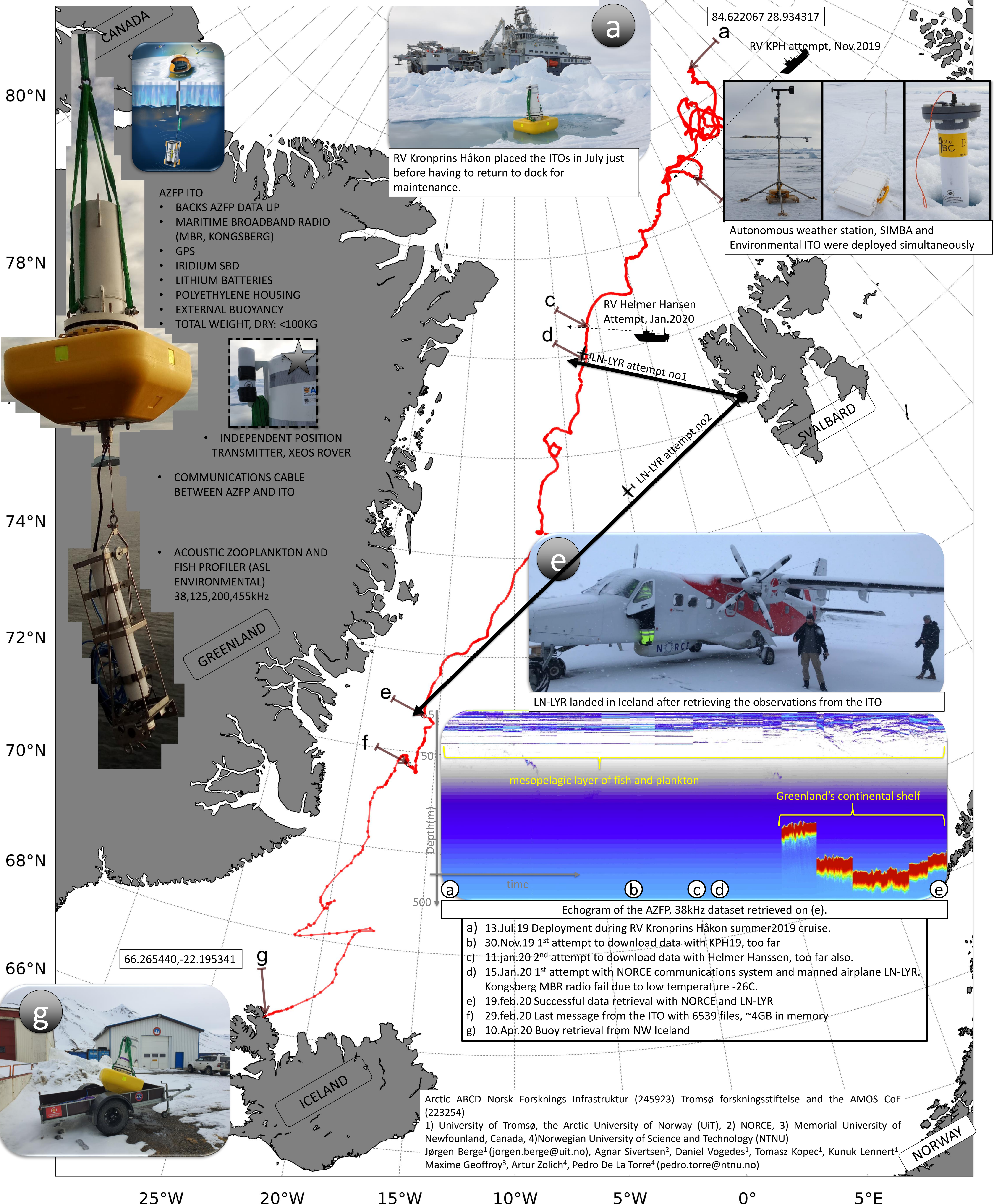
Radio data transfer from an autonomous scientific buoy to a commercial airplane

Large datasets (4 to 10GB) can now be exchanged via radio to NORCE communications system on Luftransport's aircraft LN-LYR. This is the proof of concept of a data transfer from the AZFP ice tethered observatory (ITO) after drifting from the High Arctic through the Fram Strait, finally landing in Iceland.



40°E

60°E



- a) 13.Jul.19 Deployment during RV Kronprins Håkon summer2019 cruise.
- b) 30.Nov.19 1st attempt to download data with KPH19, too far
- c) 11.jan.20 2nd attempt to download data with Helmer Hanssen, too far also.
- d) 15.Jan.20 1st attempt with NORCE communications system and manned airplane LN-LYR. Kongsberg MBR radio fail due to low temperature -26C.
- e) 19.feb.20 Successful data retrieval with NORCE and LN-LYR
- f) 29.feb.20 Last message from the ITO with 6539 files, ~4GB in memory
- g) 10.Apr.20 Buoy retrieval from NW Iceland

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