

MOSAIC-ACA Flight 2020 09 14

POLAR 5

Crew:

Mission PI

Marcus Klingebiel

AWI

Clemens Gollin

AWI

Est. Take Off: 10:00 LT

Eagle/Hawk

Michael Schäfer

MiRAC

Friedhelm Jansen

Est. Duration: 5 Hours 40 min

PMS

Valerian Hahn

Coordinates:

LYR	78° 14,7'	15° 28,9'
NY	78° 55,4'	11° 55,4'
W1	79° 30,0'	8° 00,0'
W2	82° 40,0'	7° 00,0'
W3	82° 40,0'	8° 24,0'
W4	81° 30,0'	7° 27,6'
W5	81° 30,0'	8° 40,0'

Dropsondes (all we have) between W1 \leftrightarrow W2

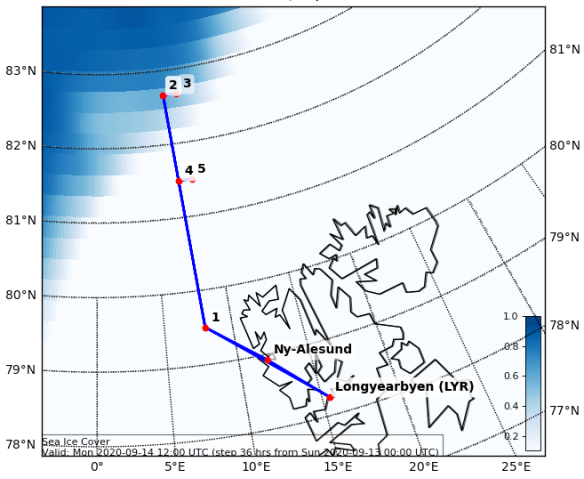
Flight Plan:

LYR – NY – W1 ascend to FL100	115 NM @ 160 kn	43 min
W1 – W2 stay at FL100	191 NM @ 160 kn	72 min
W2 – W3 stay at FL100	10 NM @ 160 kn	5 min
W3 – W2 descend to cloud top with 2,000 ft/min (inside cloud 500 ft/min)		10 min
W2 \leftrightarrow W3 different levels from below	10 NM @ 120 kn	40 min
W2 – W4 saw tooth through clouds	70 NM @ 140 kn	40 min
W4 \leftrightarrow W5 different levels from below	10 NM @ 120 kn	40 min
W4 – NY – LYR at FL100 / descending	235 NM @ 160 kn	90 min

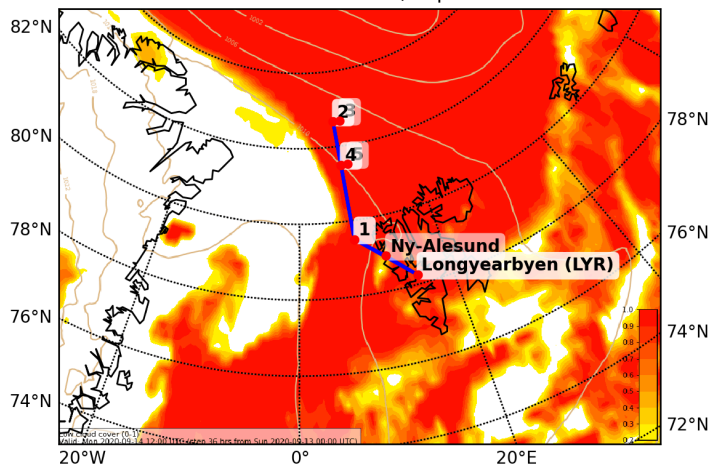
Total:

ca. 5 hours 40 min

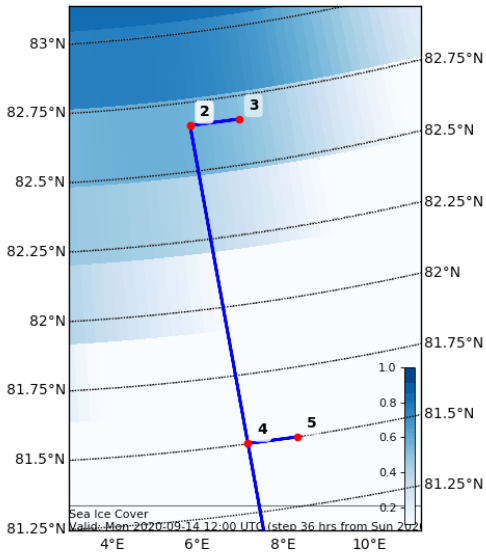
Sea Ice Cover Fraction (0-1) (pseudocolor plot)
Valid: Mo 2020-09-14 12:00 UTC (step 36 hrs from So 2020-09-13 00:00 UTC)



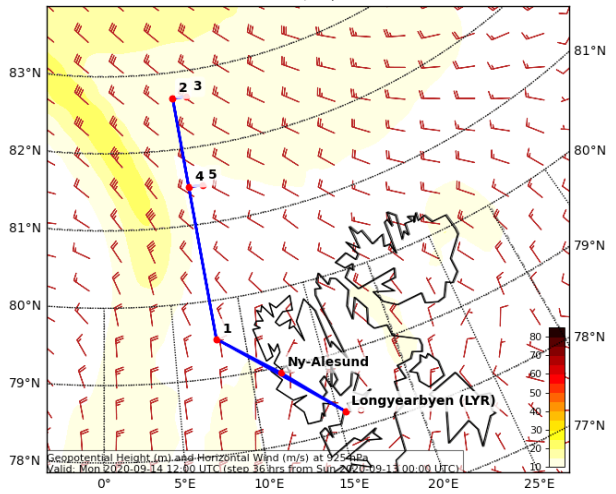
Cloud Cover (0-1) (Low Cloud Cover)
Valid: Mo 2020-09-14 12:00 UTC (step 36 hrs from So 2020-09-13 00:00 UTC)



Sea Ice Cover Fraction (0-1) (pseudocolor plot)
Valid: Mo 2020-09-14 12:00 UTC (step 36 hrs from So)



Geopotential Height (m) and Horizontal Wind (m/s) (Wind Speed 10-85 m/s) at 925.0 (Pa)
Valid: Mo 2020-09-14 12:00 UTC (step 36 hrs from So 2020-09-13 00:00 UTC)



Cloud Cover (0-1) Vertical Section
Valid: Mo 2020-09-14 12:00 UTC (step 36 hrs from So 2020-09-13 00:00 UTC)

