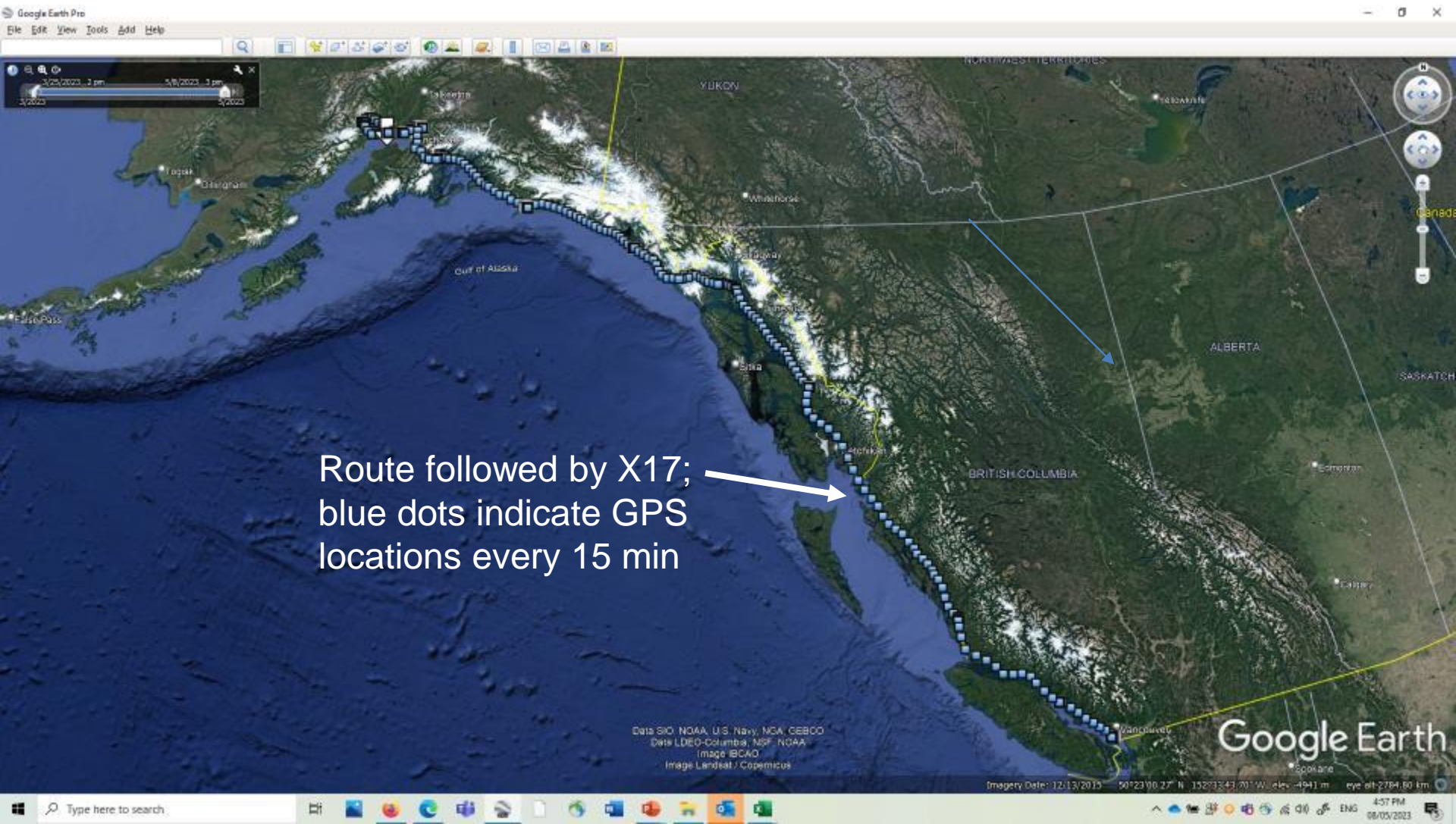




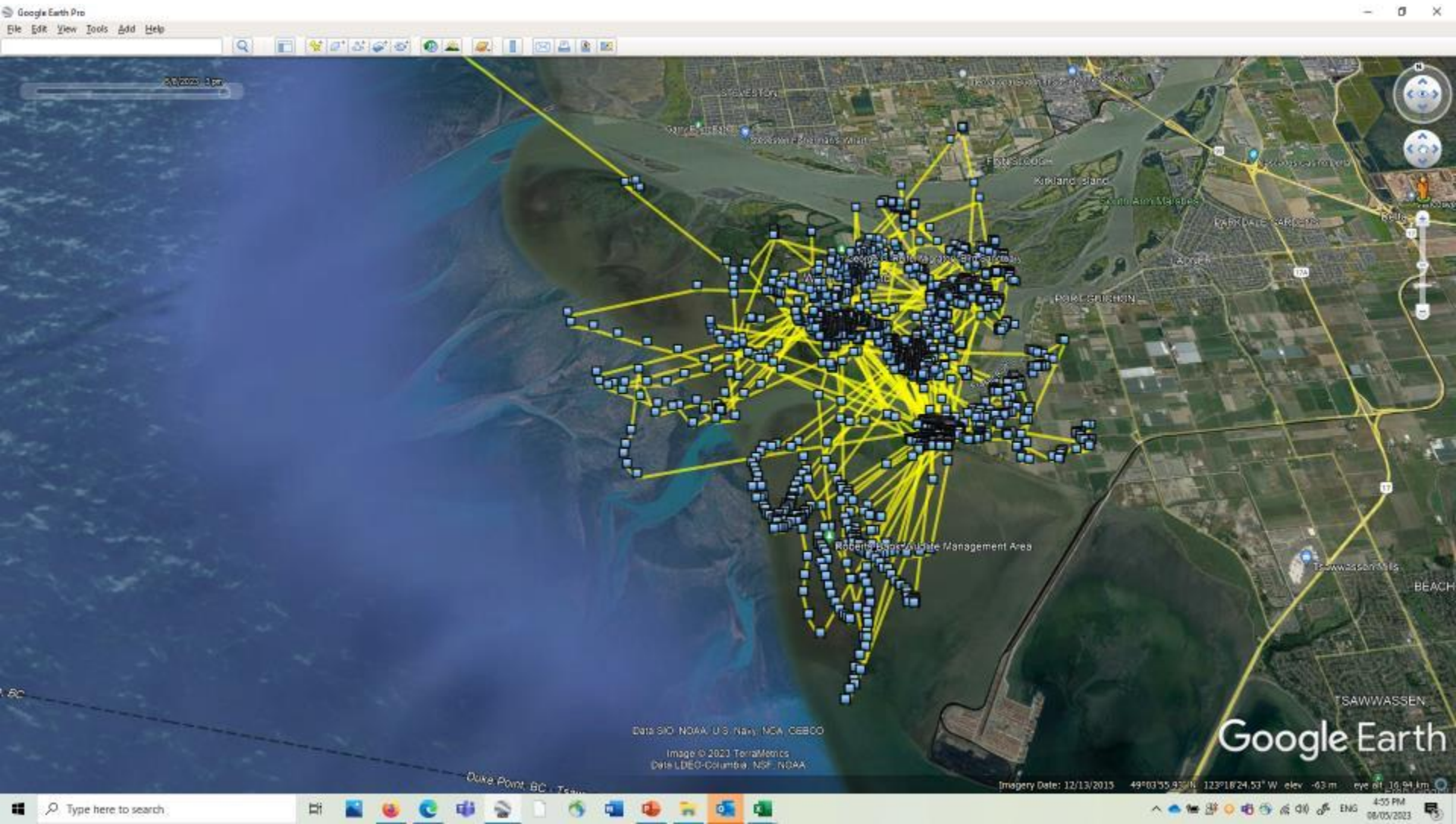
Satellite transmitter,
mounted on neck collar,
3 solar panels



X17 Male, tagged 25 March 2023, departed the Fraser River delta on 15 April at 01:48h and stopped 7 times *en route* to Anchorage AK; ca. 2,185km, 312h (13 days)



X17 foraged day and night on Westham Island and Brunswick Point farms, roosted offshore for 1-2 hours each morning, departed the Fraser River delta on 15 April; initial flight track detected on YVR radar



YVR radar image showing Snow Geese flying northwest (purple lines) at 06:00h on 13 April 2023 (44h (1.8 days) before X17 migrated)

Ruler

Line Path Polygon Circle 3D path 3D polygon

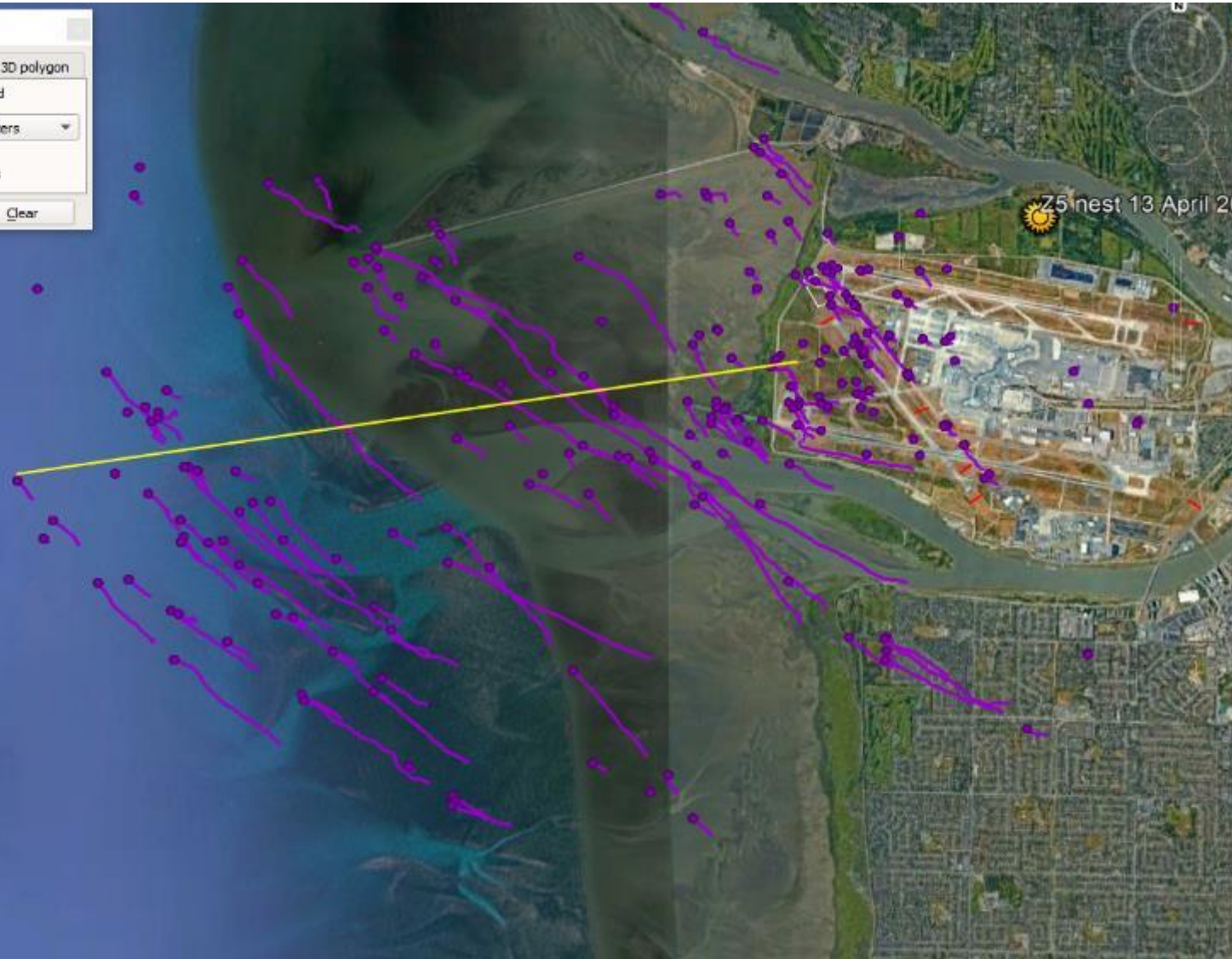
Measure the distance between two points on the ground

Map Length: 7.84 Kilometers

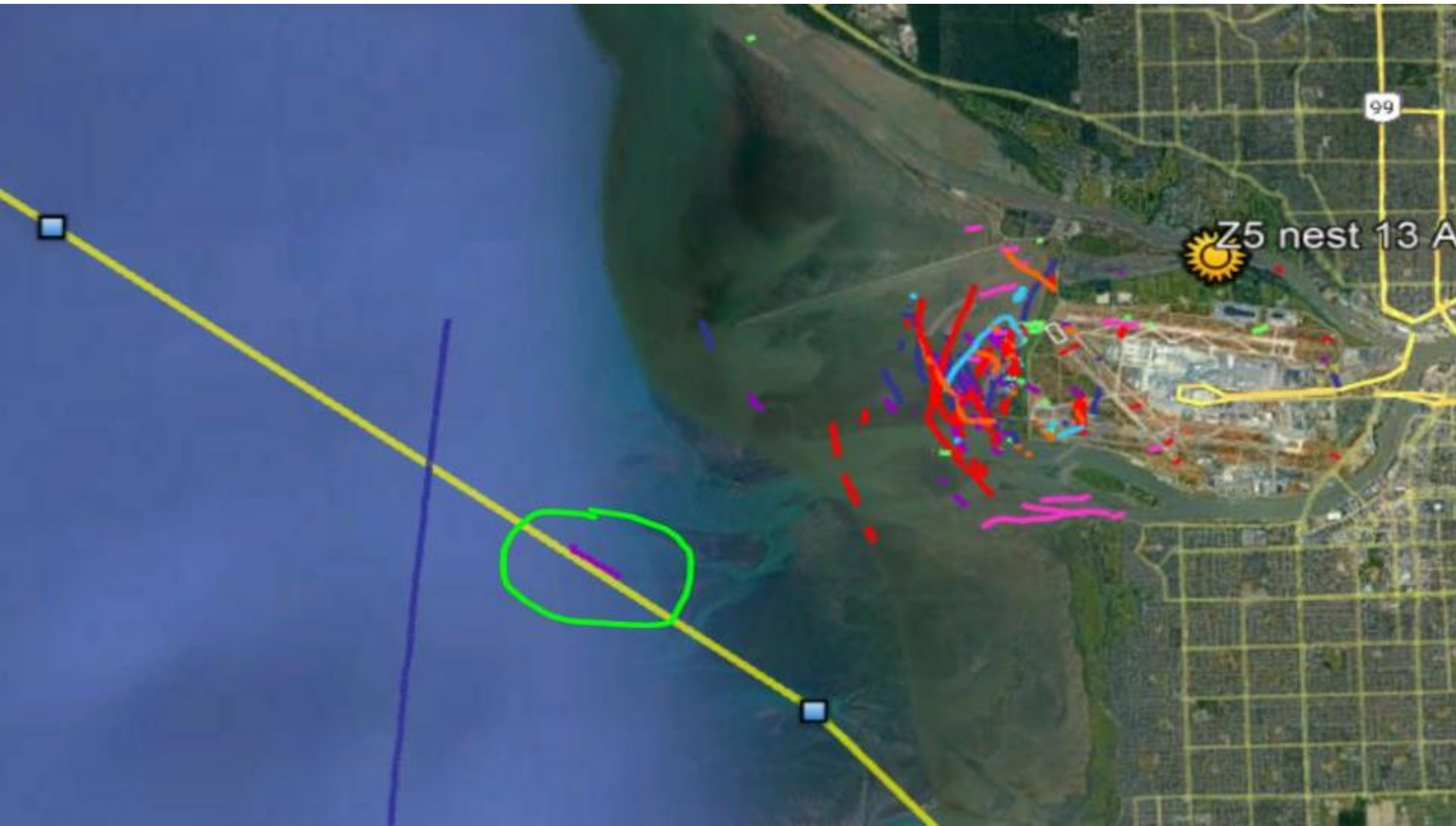
Ground Length: 7.84

Heading: 259.56 degrees

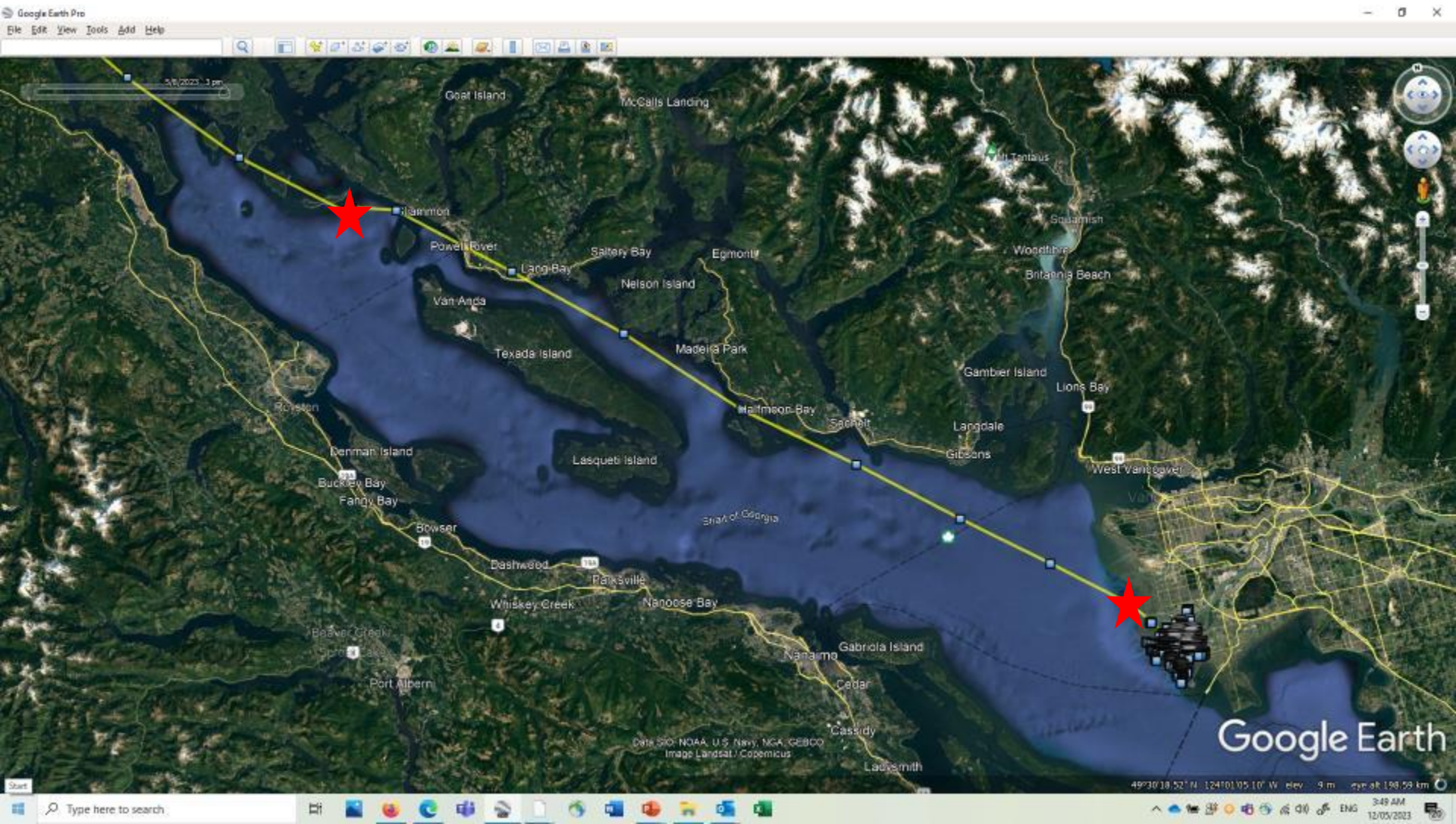
☒ Mouse Navigation Save Clear



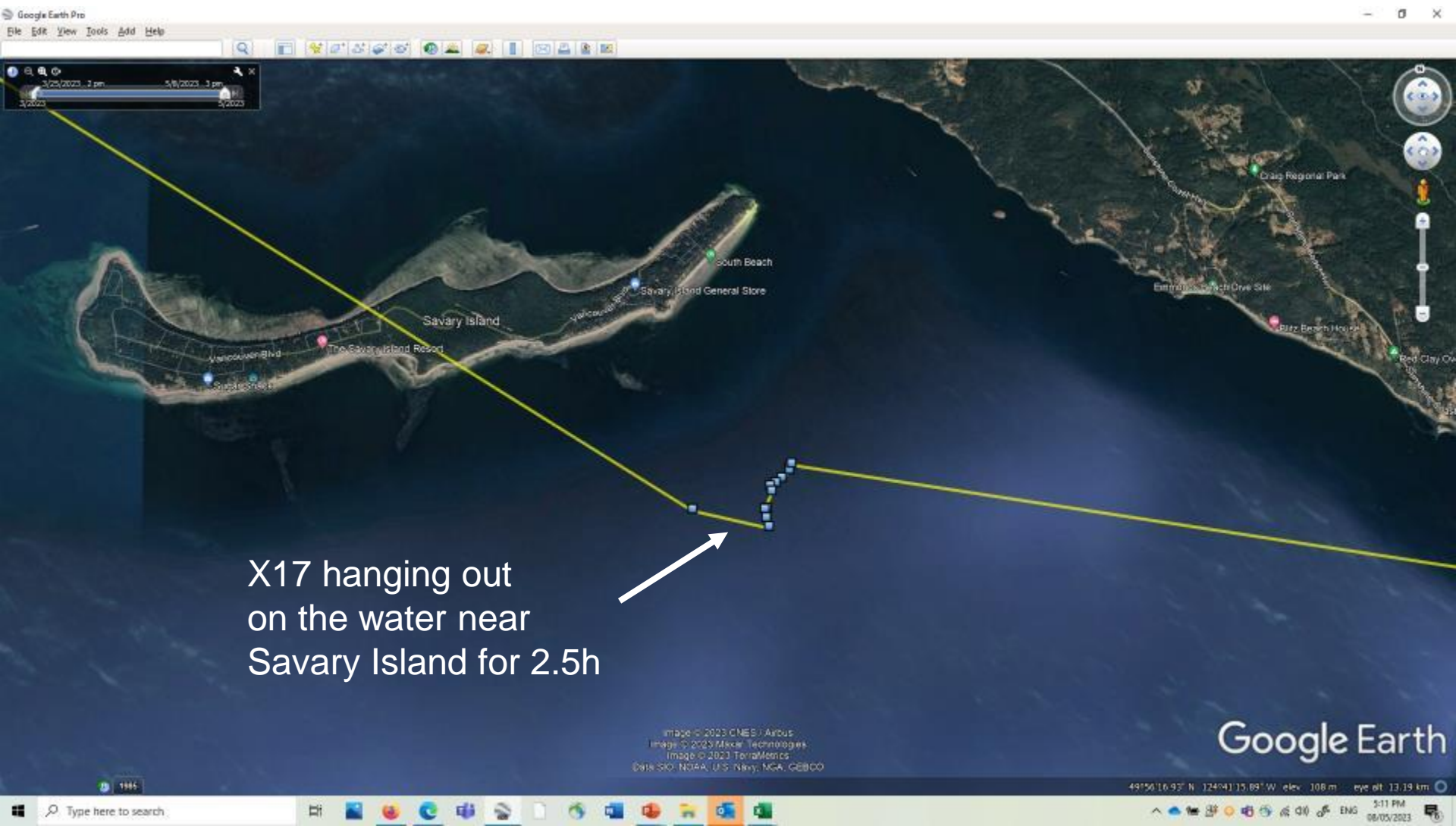
YVR radar image showing Snow Geese flying northwest (short purple line inside green circle) between 01:40h and 01:50h on 15 April 2023 and a (yellow) line connecting two X17 GPS coordinates at 01:48h and 02:03h... almost perfectly aligned



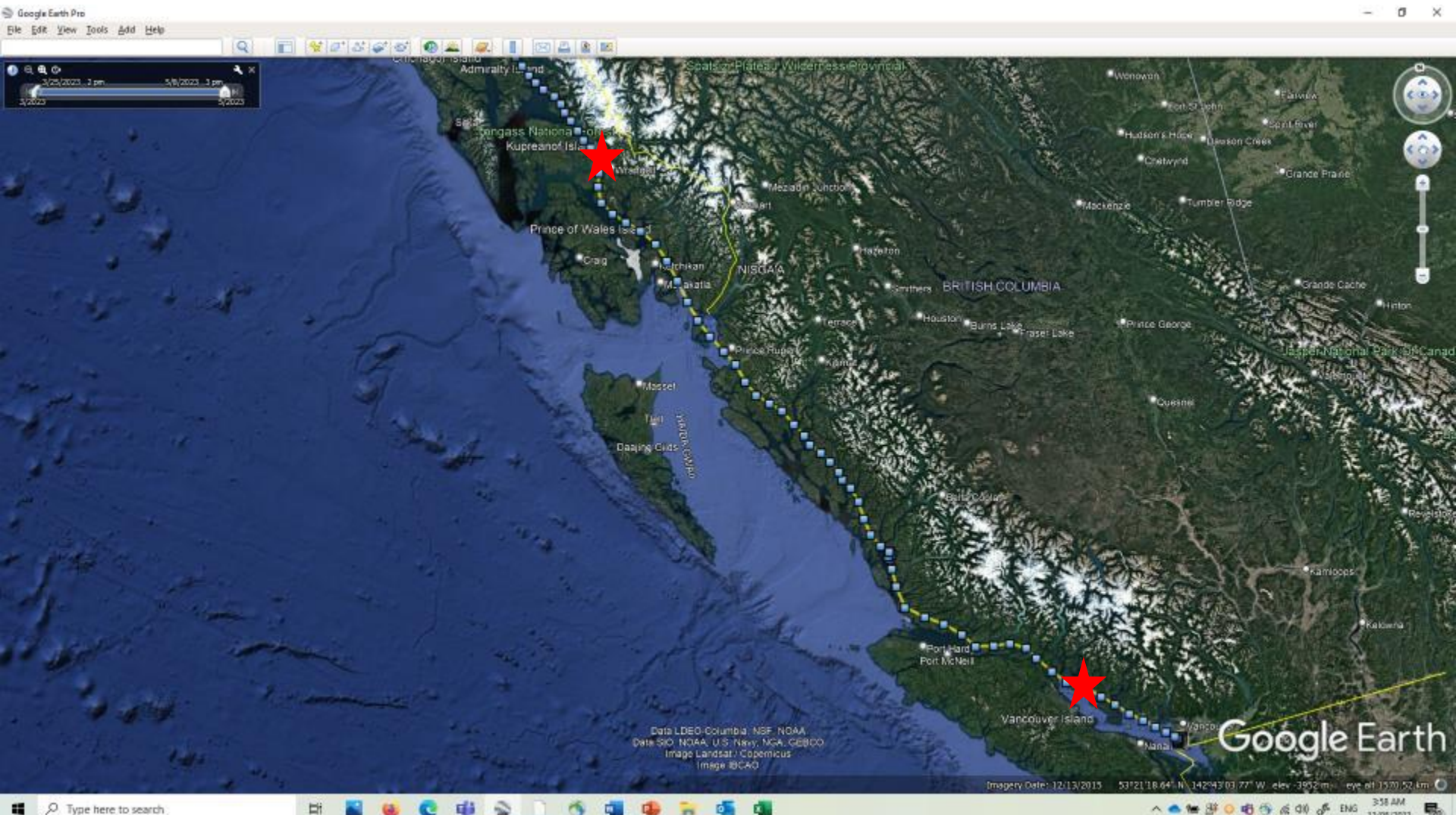
X17 flew from the Fraser River delta to Savary Island BC; 01:48h (Pacific Time) 15 April to 03:48h 15 April; ca. 2.0h, 145km
Min/Mean/Max estimates from GPS data: altitude = 84/418/595m; ground speed = 47/77/91km/h; direction = 294/301/307deg



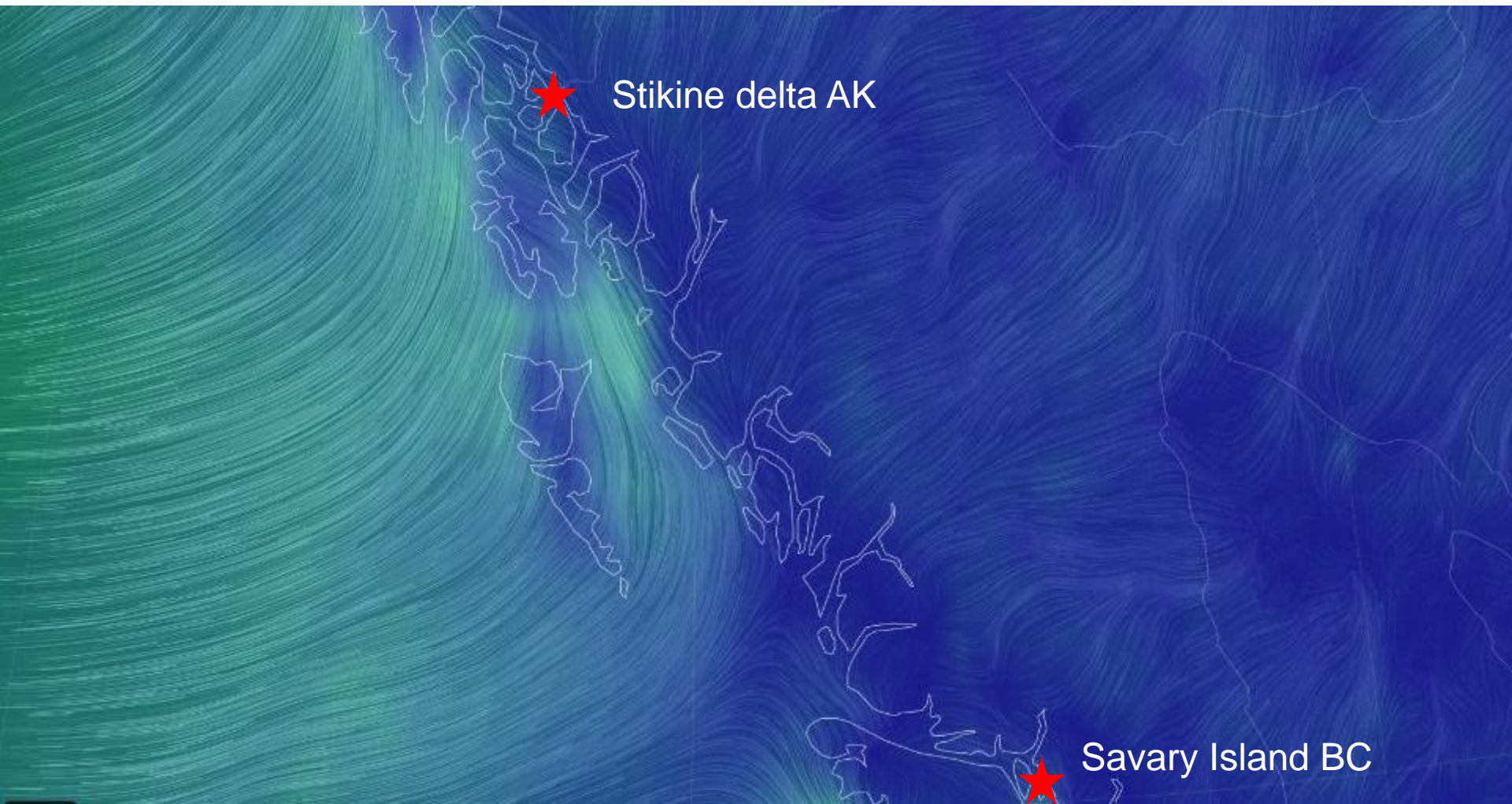
X17 rested on water near Savary Island for 2.5h



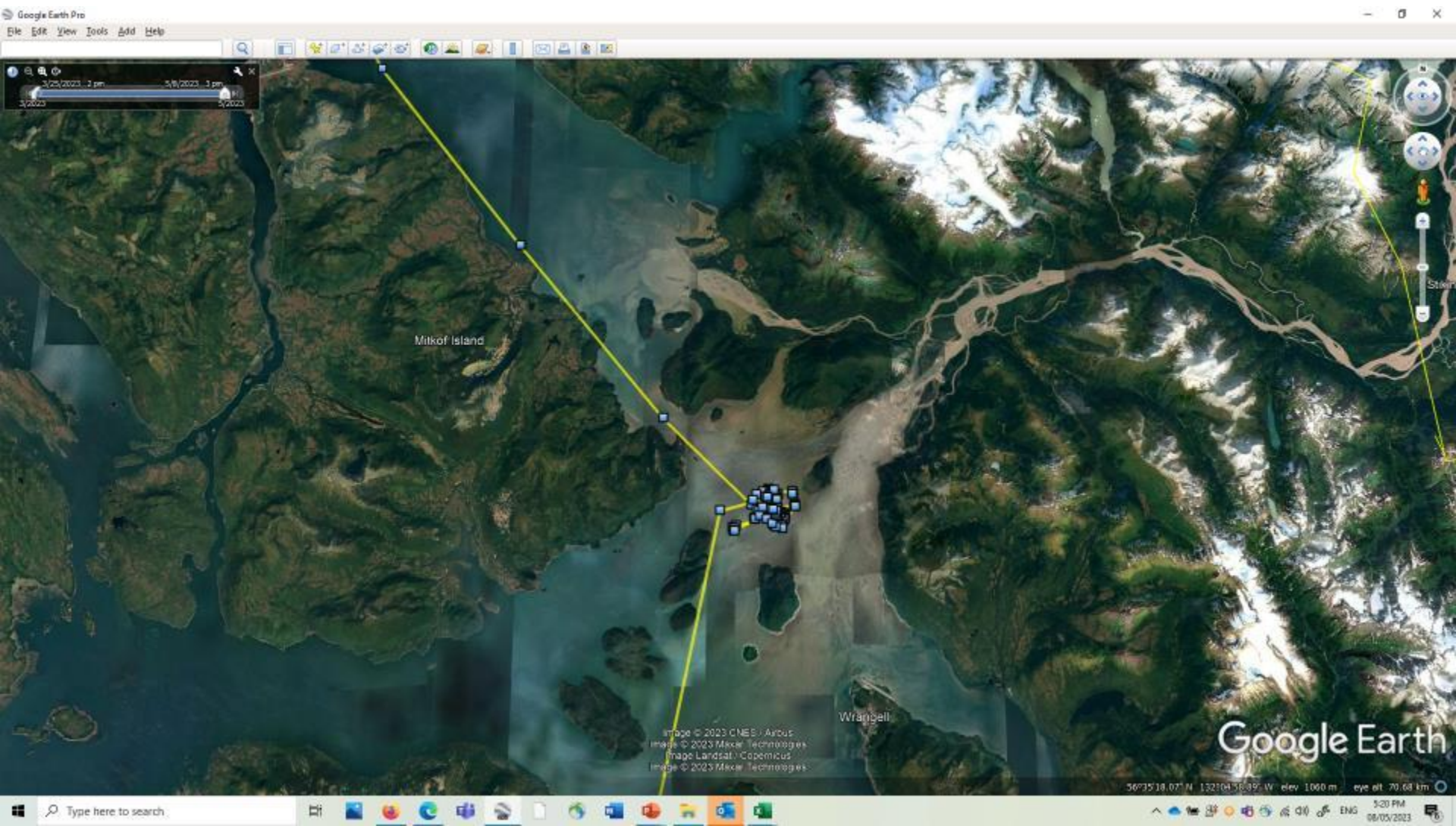
X17 flew from Savary Island to the Stikine River delta AK; 06:18h (Pacific Time) 15 April to 18:48h 15 April; ca. 12.5h, 970km
Min/Mean/Max estimates from GPS data: altitude = 0/486/947m; ground speed = 37/87/126km/h; direction = 4/294/356deg



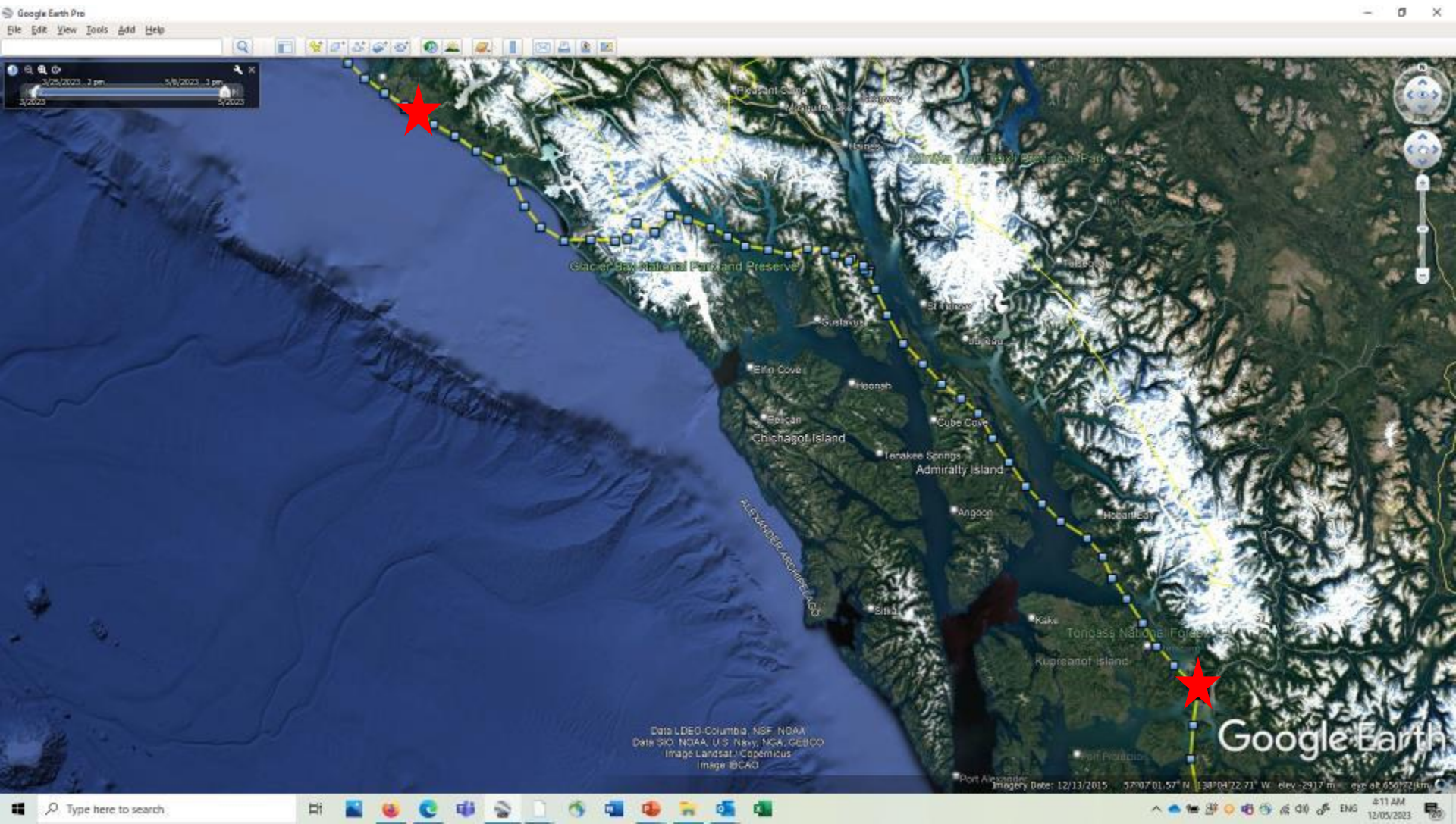
X17 flew from Savary Island to the Stikine River delta AK. Surface wind speed/direction = 50-60km/h / NW



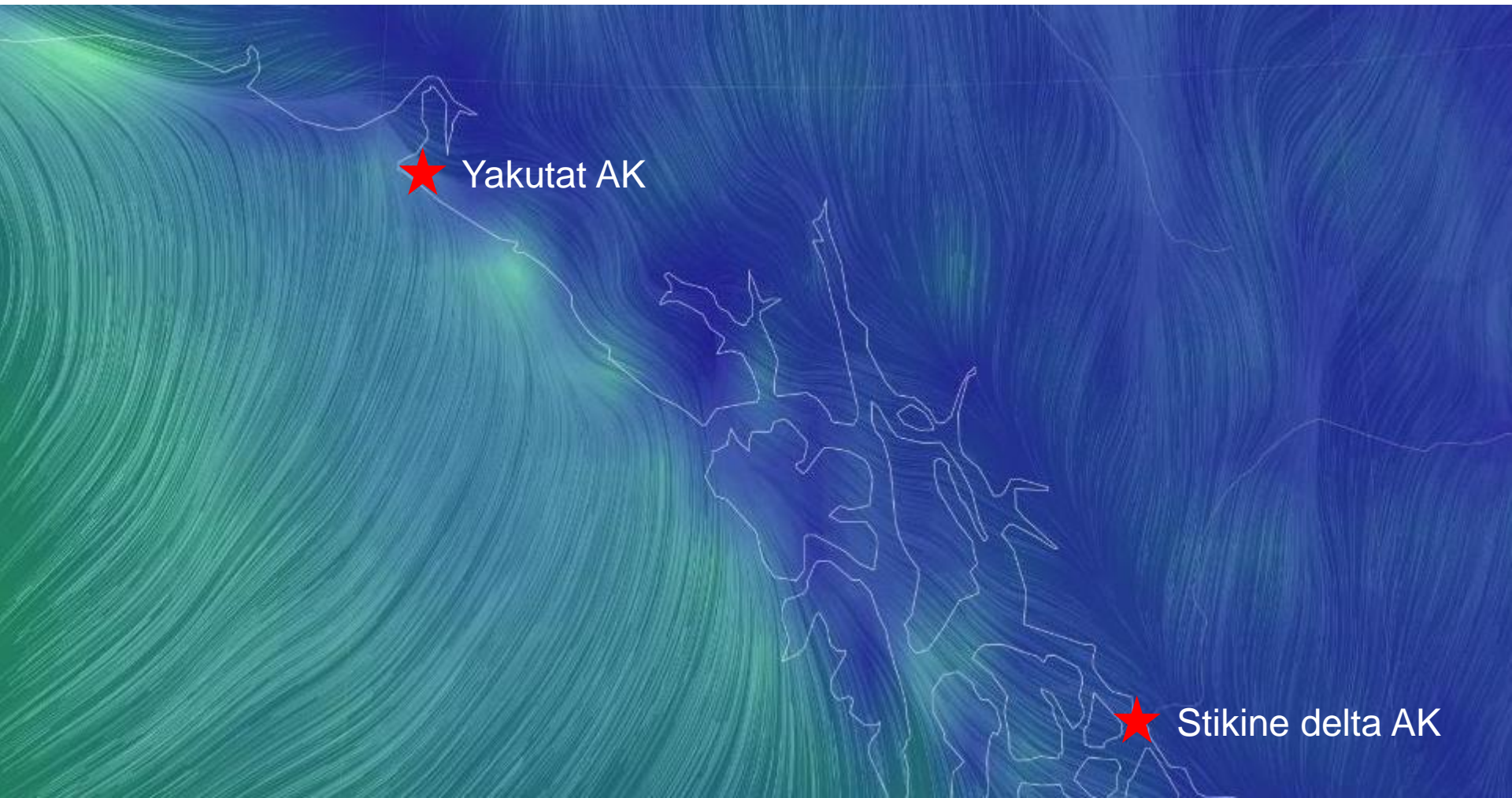
X17 staged on the Stikine River delta for 35h (1.5 days); likely foraging on *Carex lynbyei* (sedge)



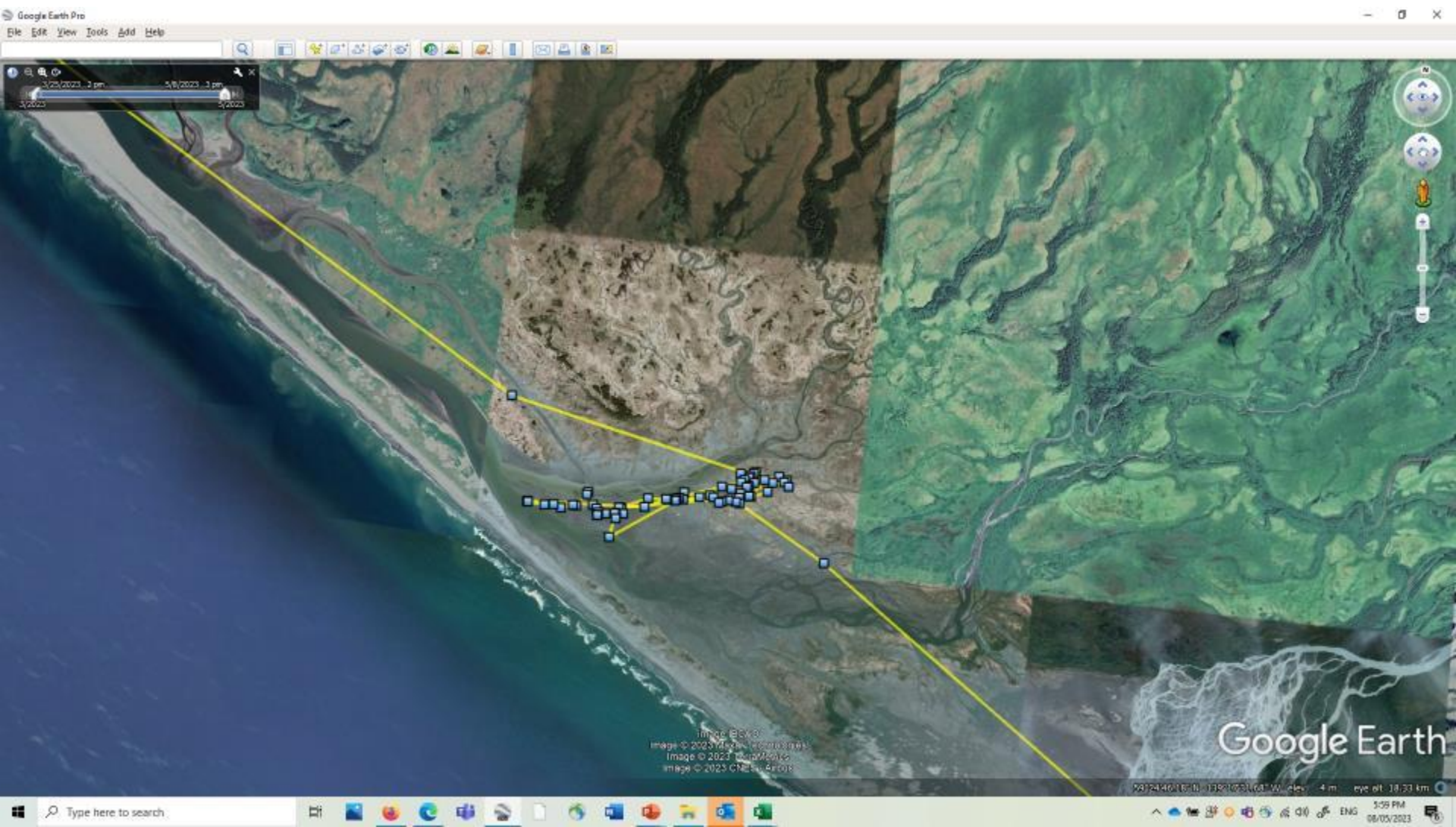
X17 flew from the Stikine River delta to an estuary south of Yakutat AK; 05:33h (Pacific Time) 17 April to 18:03h 17 April; ca. 12.5h, 558km
Min/Mean/Max estimates from GPS data: altitude = 0/638/2637m; ground speed = 31/52/74km/h; direction = 3/285/358deg



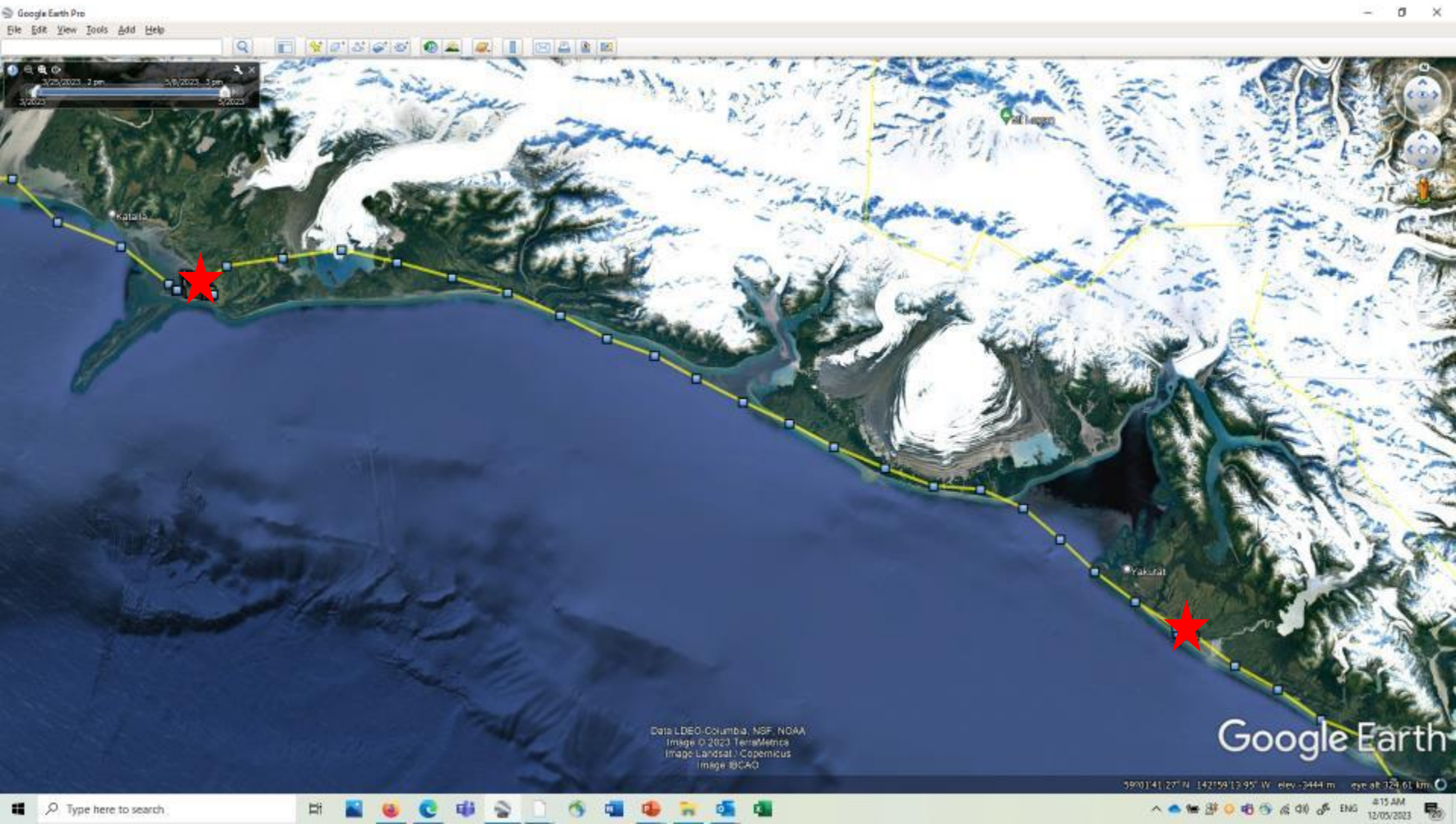
X17 flew from the Stikine River delta to an estuary south of Yakutat AK. Surface wind speed/direction = 40-50km/h / NW



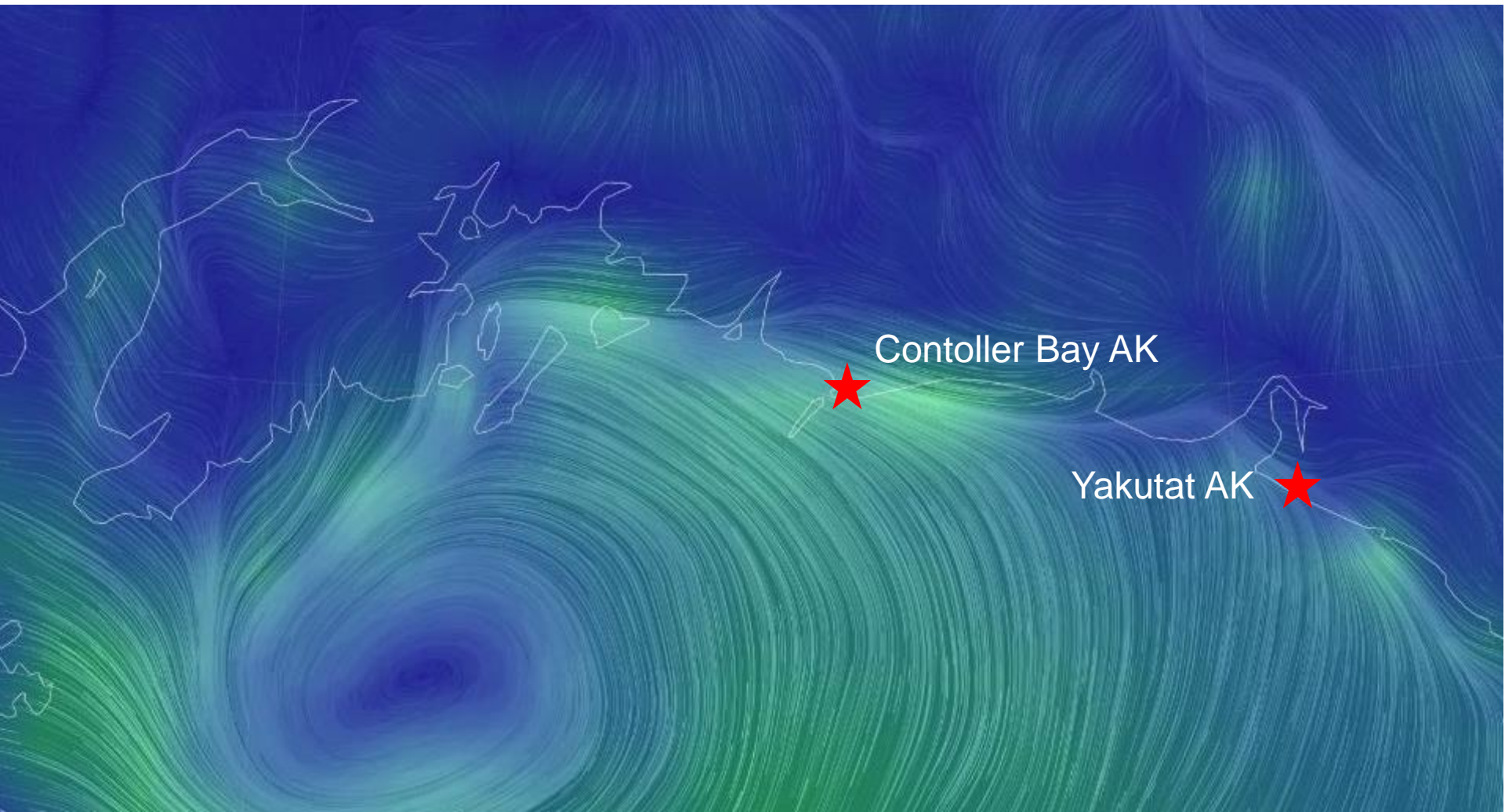
X17 staged on the estuary south of Yakutat AK for 16.5h (0.7 days)



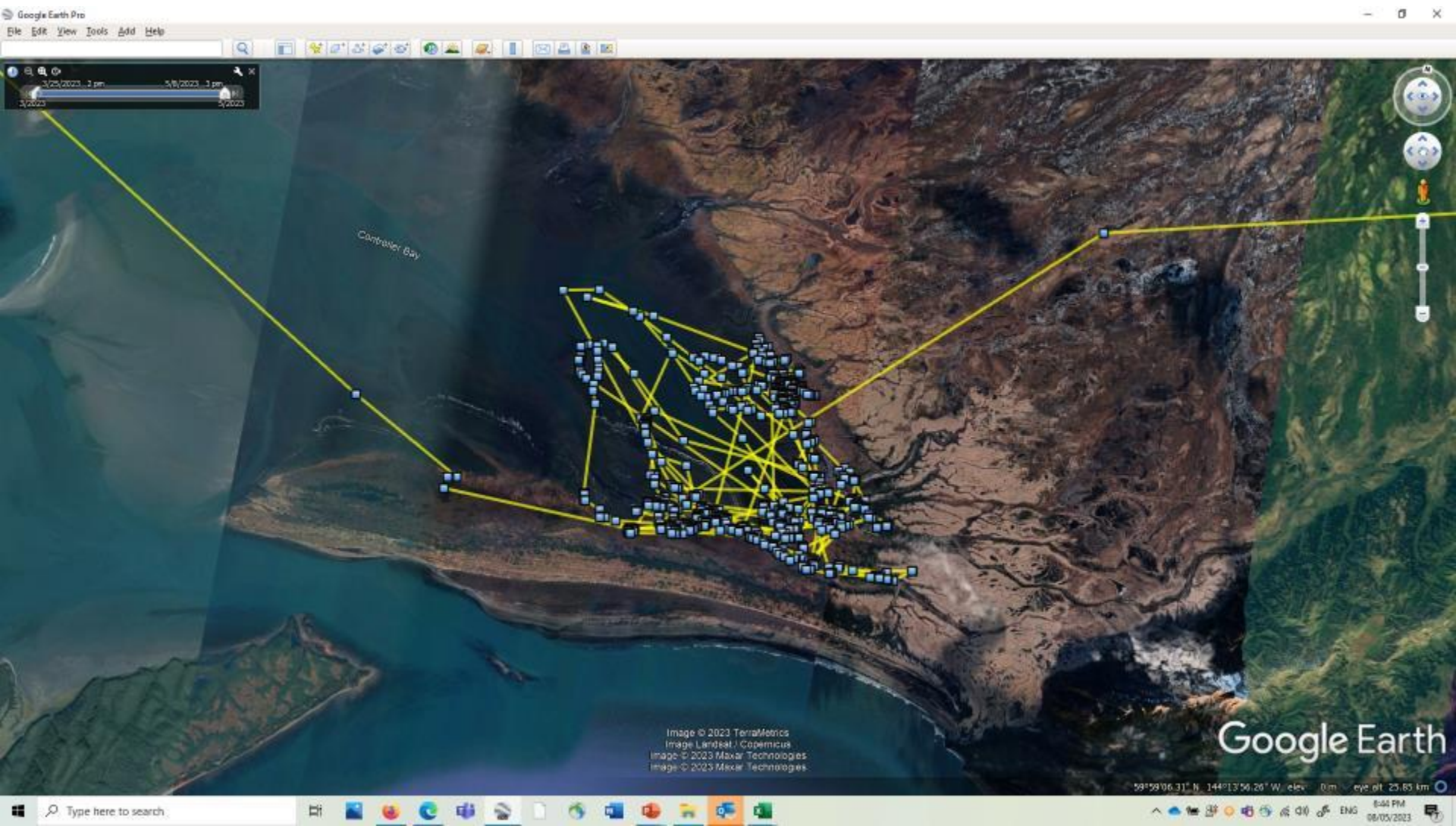
X17 flew from the Yakutat area to Controller Bay AK; 10:18h (Pacific Time) 18 April to 15:33h 18 April; ca. 5.3h, 290km
Min/Mean/Max estimates from GPS data: altitude = 0/233/748m; ground speed = 43/54/64km/h; direction = 225/286/323deg



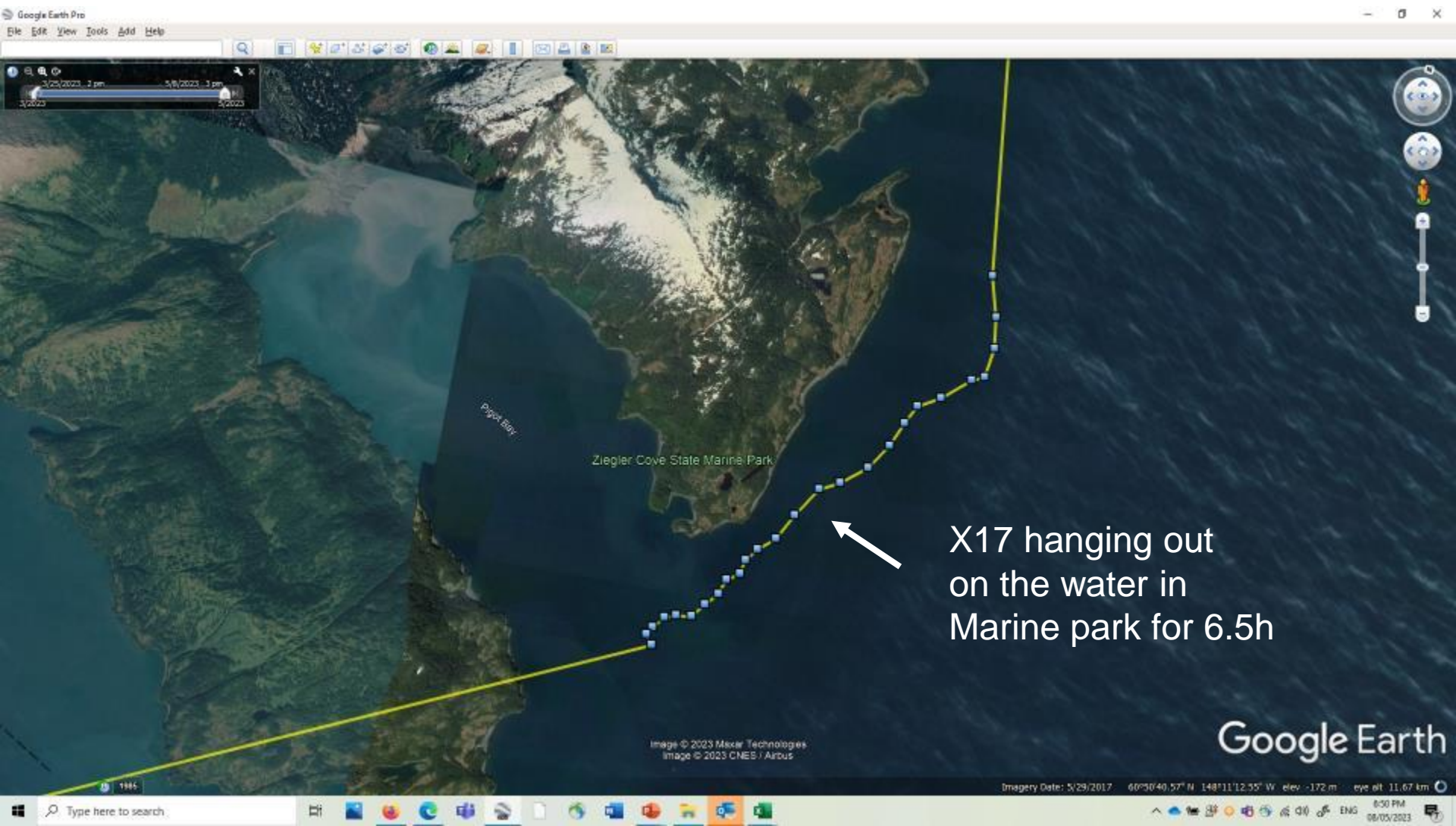
X17 flew from the Yakutat area to Controller Bay AK. Surface wind speed/direction
= 50-60km/h / NW



X17 staged in Controller Bay AK for 219h (9.1 days)

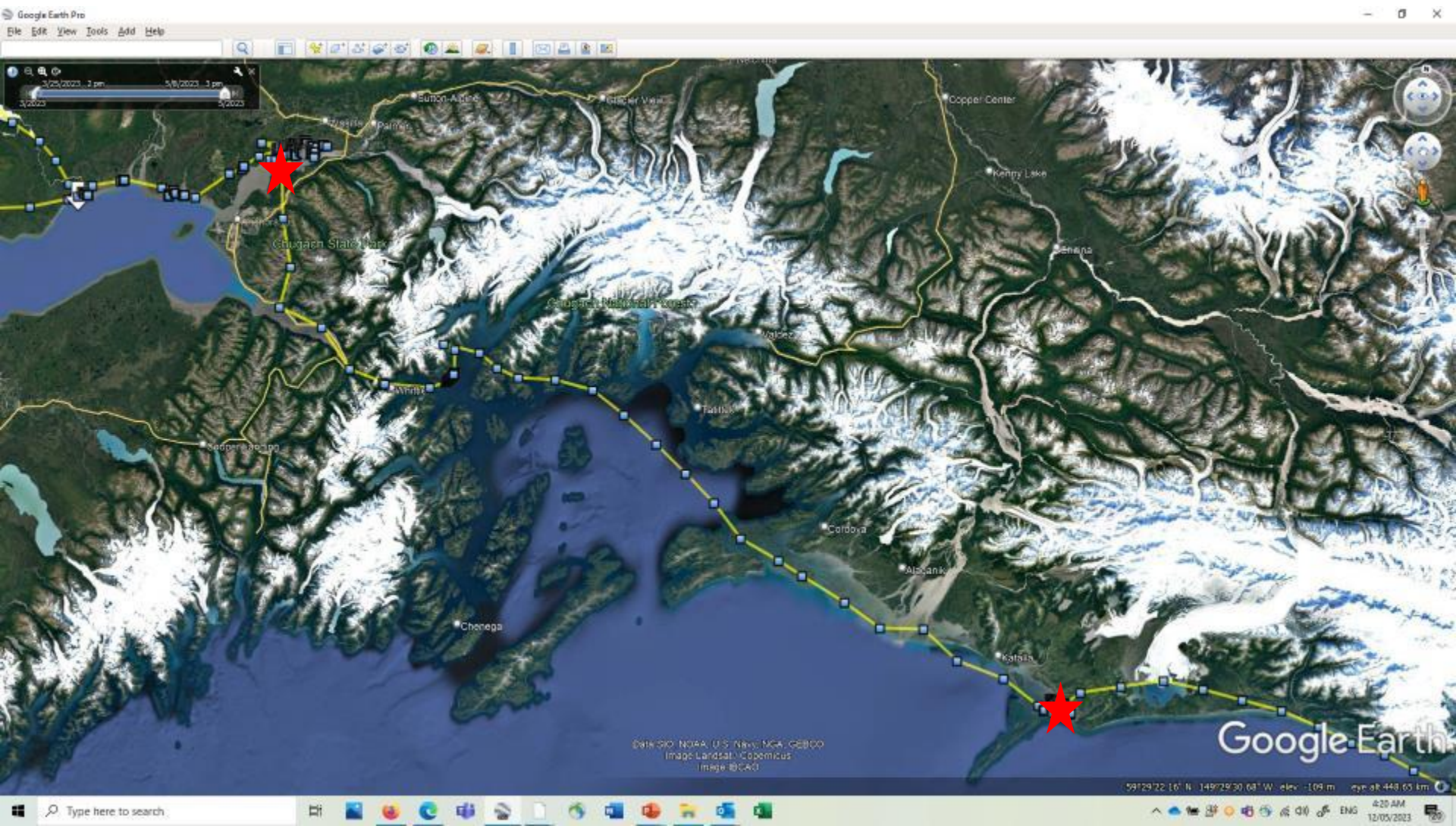


X17 stopped at Ziegler Cove Marine Park AK for 6.5h between Controller Bay and Anchorage AK

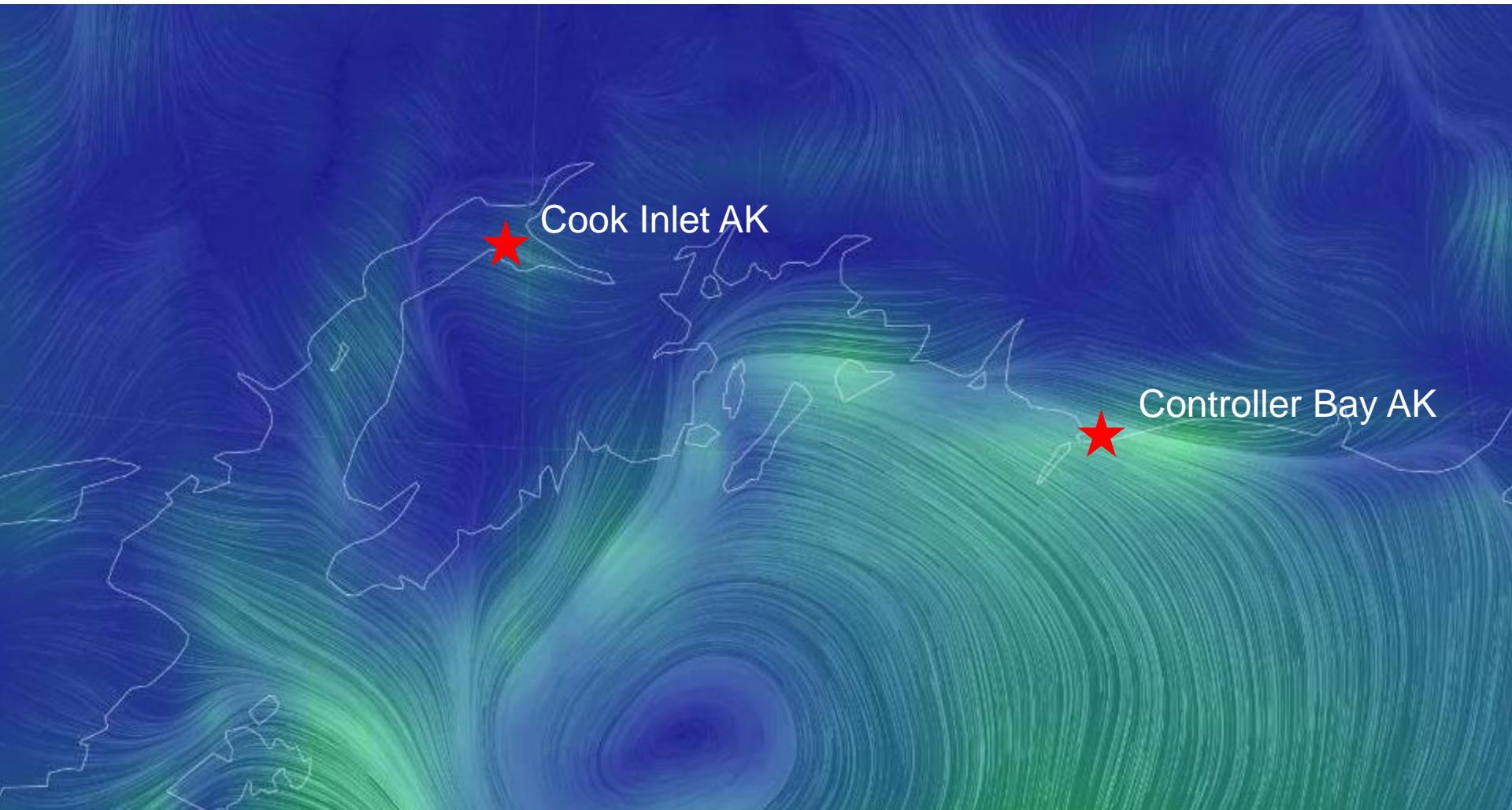


X17 flew from Controller Bay to Cook Inlet near Anchorage AK (including the 6.5h stop at Ziegler Cove Marine Park); 18:33h (Pacific Time) 27 April to 08:03h 28 April; ca.13.7h, 367km

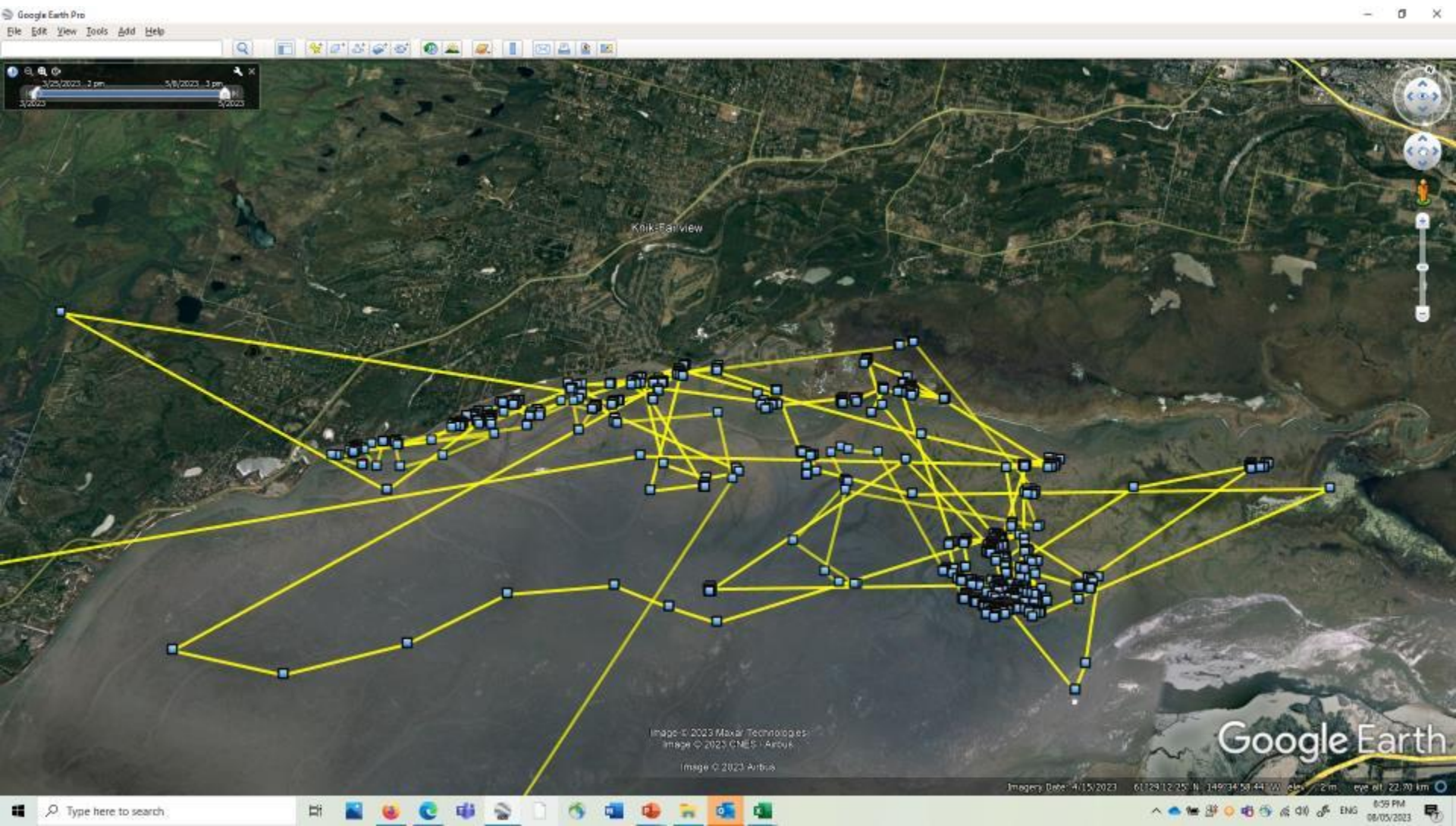
Min/Mean/Max estimates from GPS data (excludes short stop): altitude = 0/298/931m; ground speed = 42/62/79km/h; direction = 17/259/332deg



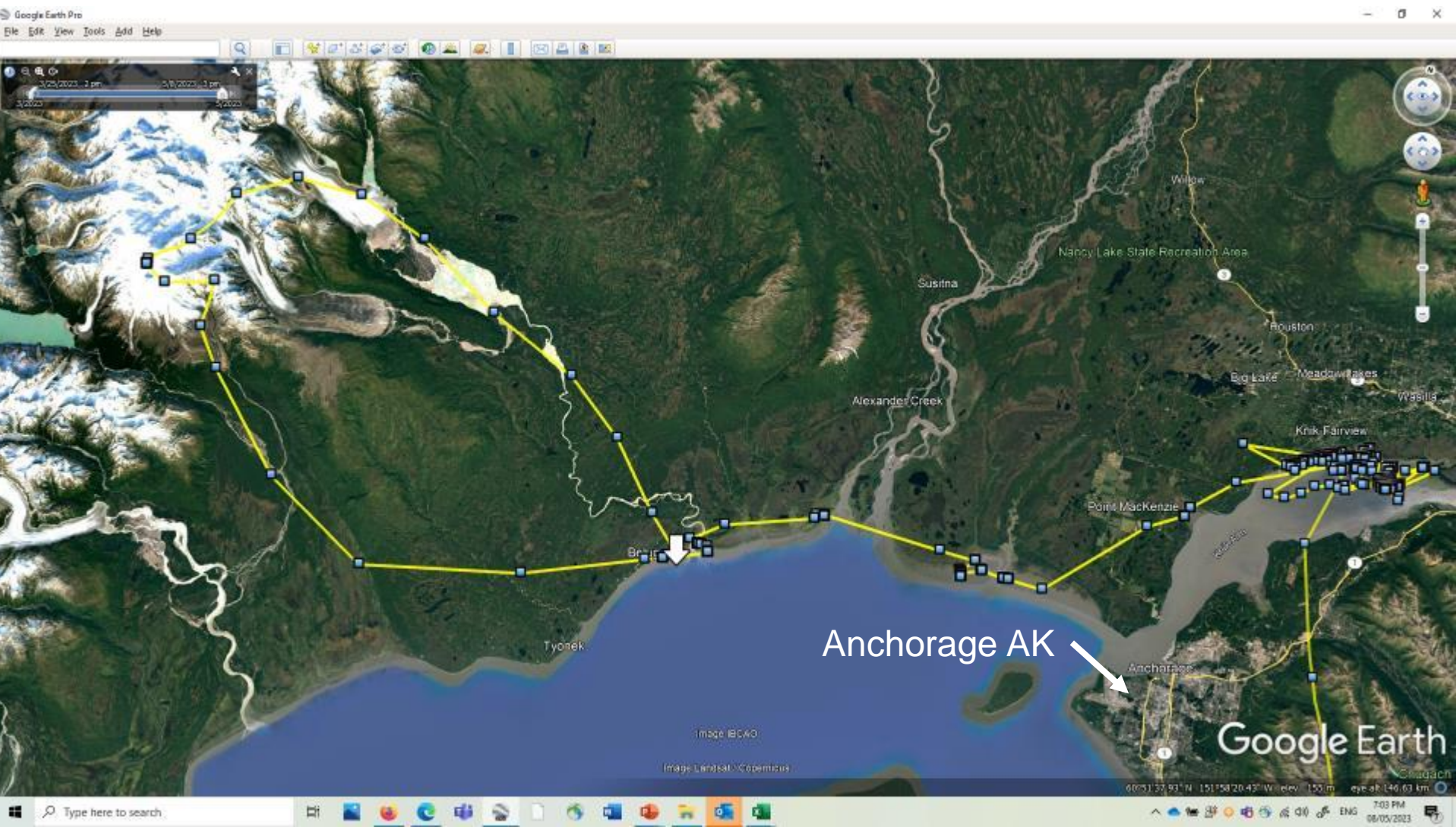
X17 flew from Controller Bay to Cook Inlet near Anchorage AK (including the 6.5h stop at Ziegler Cove Marine Park). Surface wind speed/direction = 50-60km/h / NW



X17 staged in Cook Inlet near Anchorage AK for 214h (8.9 days)



X17 flew from Cook Inlet along the coast, to the top of a glacier NW of Anchorage, and then back to the coast; temperature difference = 15°C ($+10^{\circ}\text{C}$ on coast, -5°C on glacier)



X17 stopped on top of the glacier (3,000m) for 2.5h which was @ 700 hPa. The web site 'earth' indicates a wind speed of 60-70km/h going NW (i.e., in the direction toward Wrangel). If correct, then this goose returned to Cook Inlet for some other reason than a strong headwind.

