

Figure 1. Seasonal variability of the sea ice thickness from CIS (red curve) and AO-FVCOM (blue curves) over the period 1979–2017.

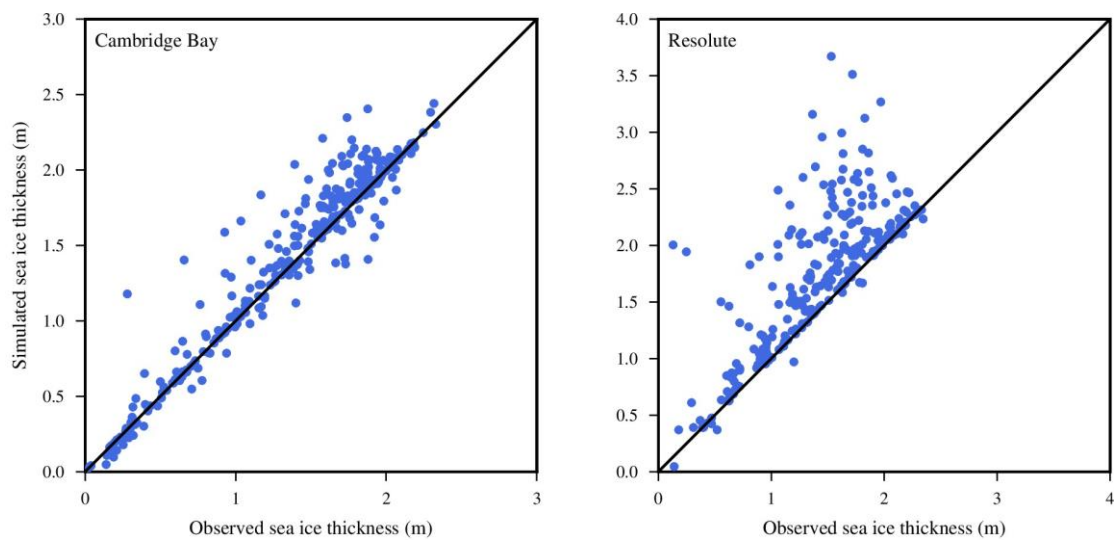


Figure 2. Comparison of AO-FVCOM sea ice thickness with sea ice thickness observations over the period 1979–2017.

Table 1. Mean sea ice thickness, trend and maximum sea ice thickness trend of observations and AO-FVCOM in the Cambridge Bay and Resolute, and mean absolute differences, correlation coefficient, RMSE between observations and AO-FVCOM.

	Cambridge Bay		Resolute	
	Observations	Simulation	Observations	Simulation
Mean sea ice thickness (m)	1.32	1.38	1.41	1.73
Trend of sea ice thickness (m/10a)	-0.07(p<0.05)	-0.12(p<0.01)	0.03	0.00
Trend of maximum sea ice thickness (m/10a)	-0.07(p<0.05)	-0.12(p<0.01)	-0.07(p<0.05)	-0.06
Mean absolute differences (m)		0.10		0.33
Correlation coefficient		0.96(p<0.01)		0.77(p<0.01)
RMSE (m)		0.18		0.52