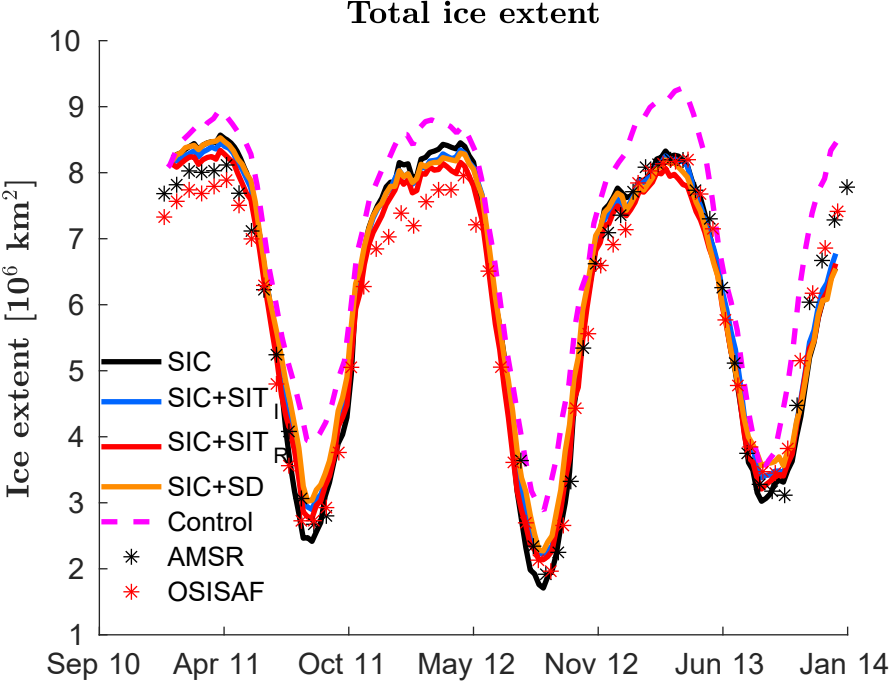
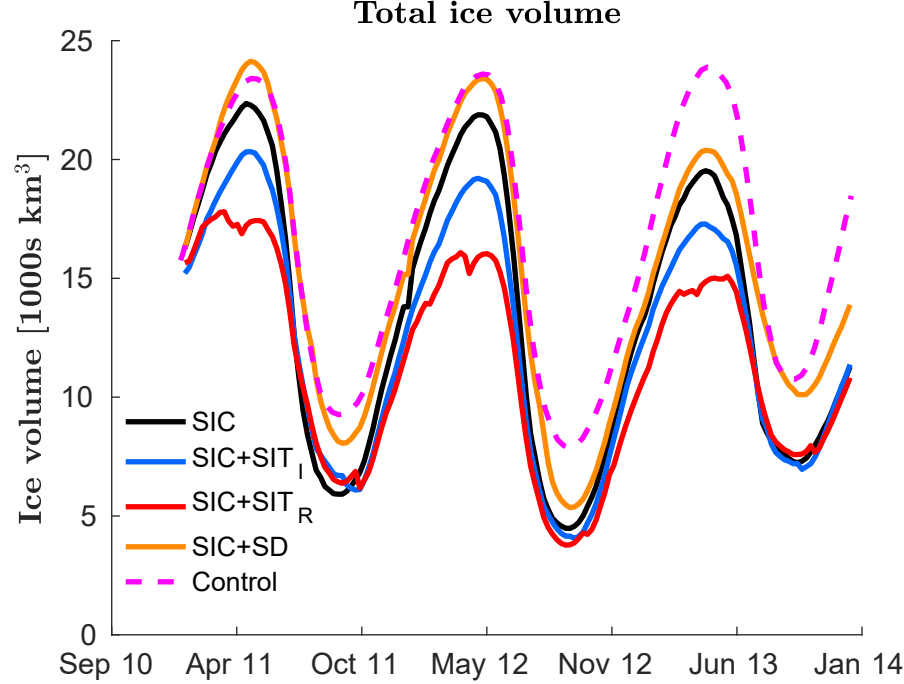
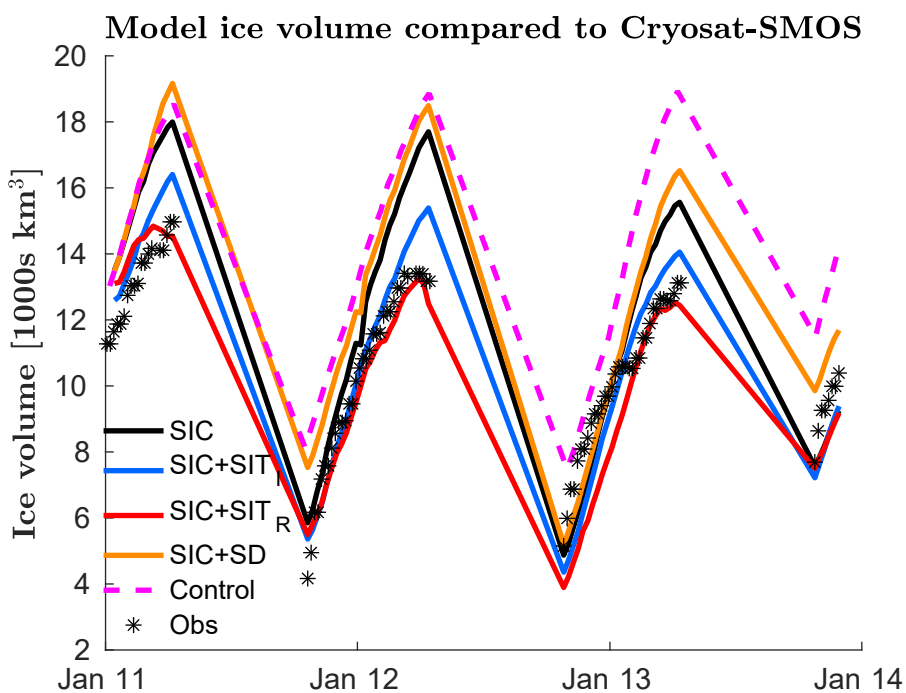

Total ice extent
Ice extent [$10^6$ km$^2$]
10
9
8
7
6
5
4
3
2
1
SIC
SIC+SIT$_I$
SIC+SIT$_R$
SIC+SD
Control
AMSR
OSISAF
Sep 10
Apr 11
Oct 11
May 12
Nov 12
Jun 13
Jan 14

(a)


Total ice volume
Ice volume [1000s km$^3$]
25
20
15
10
5
0
SIC
SIC+SIT$_I$
SIC+SIT$_R$
SIC+SD
Control
Sep 10
Apr 11
Oct 11
May 12
Nov 12
Jun 13
Jan 14

(b)


Model ice volume compared to Cryosat-SMOS
Ice volume [1000s km$^3$]
20
18
16
14
12
10
8
6
4
2
SIC
SIC+SIT$_I$
SIC+SIT$_R$
SIC+SD
Control
Obs
Jan 11
Jan 12
Jan 13
Jan 14

(c)