

Polar WRF Modeling Settings

Boundary Layer \ Microphysics		Goddard	WRF 5-Class		Predicted Particle		Morrison Bulk 2-Moment			
YSU		1		Х						
MYJ		2		3						
MYNN										
Input Datasets				In above table x indicates a run cannot be run, numbers and colors correspond to plots						
ERA - Interim	• Boundary conditions • Initial conditions			75°W	Tell Page	Model	domair		*	
PIOMAS • Snow depth • Ice thickness				60°W —			(
• Ice extent										
Simulation Dates				45°W —		d02 d03	15			
Winter • January 1 2015 – April 1 2015							[]			
Spring • April 1 2015 – July 1 2015					500	43	KD			
Other Settings				30°W —			9 km		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Cumulus Grell–Freitas Er		nsemble Scheme		Z			3 3 1			
LW/SW Radiation RRTMG			3			•				
Surface Layer • Revised MI • ETA Similar		_						A En		
Land Surface Unified Noah L Model		and Surface		15°W				The same of the sa	27 km	
Model Version Polar WRF 4.1.4		4		ا 10°۱	N 0°	l ° 10°E	l 20°E	30°E	l 40°E	