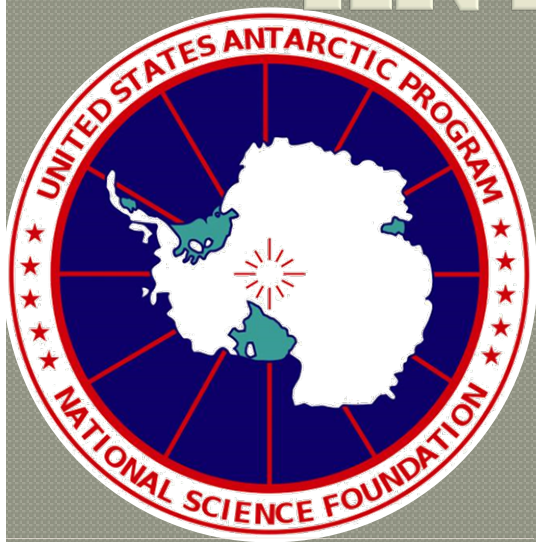


USAP Meteorology:
SCIENCE TO
OPERATIONS
COOPERATIVES FOR
ANTARCTIC WEATHER
FORECASTING





Need to Improve

- Remote Forecasting
- Unknown patterns, unknown adaptations
- Smarter
 - Add Confidence to Forecasts using Ensemble
 - Auto generate finished customer products
 - Lobby for AMPS improvements

SOPP McMurdo Staffing								
	MCM Pre-ROF		MCM Post ROF		MCM With LAWRs		MCM Potential	
	Staffing #	% Reduction	Staffing #	% Reduction	Staffing #	% Reduction	Staffing #	% Reduction
MET *	17	-	15	12%	12	29%	9	47%
ATC	17	-	8	53%	-	-	-	-
Site Mgr #	1	-	1	0%	-	-	-	-
Christchurch Changes					Reduced to 1/2 Season			
BaseOps	3	-	1	67%	0.5	83%		
	Pre-MLS		Post MLS		Potential** (2015-16)			
	Staffing #	% Reduction	Staffing #	% Reduction	Staffing #	% Reduction		
GEM	17	-	15	88%	11	35%		
	SOPP Total Off Ice Reduction						# Bodies	% Reduction
	<i>(Based on Pre-2005 Staffing)</i>						Current	16 31%
							Potential	23 44%

* Potential reductions based on ability to automate or move ASC Observation input from SOPP watch floor
 # Site Manager dual hat primarily with ATC Manager
 **GEM potential reduction based on move from seasonal Techs to fulltime (greater capability from trained staff)



Current

- Pending initiative that has been presented to SOPP includes:
 - Re-analysis of West Antarctica
 - AWARE (requires further coordination)

- **Internal initiatives:**
 - Employment of a Research Analyst
 - AIREP – Reengaging ATC to provide meteorology parameters
 - Fog Alert – continued development of fog alert calculator based on vertical measures. (*ADVECTION remains a problem*)
 - Crater Hill enhancement with the addition of Temperature/Dew Point Sensor
 - Automatic updates from the AWS Database



2015 and beyond

- Future Improvement discussions
 - TeraScan issues
 - Radar
 - WebCams
 - Redesign of Field Party MET Kits
 - May include rangefinder Binoculars
 - Smaller/lighter for greater employment



Questions or Concerns?