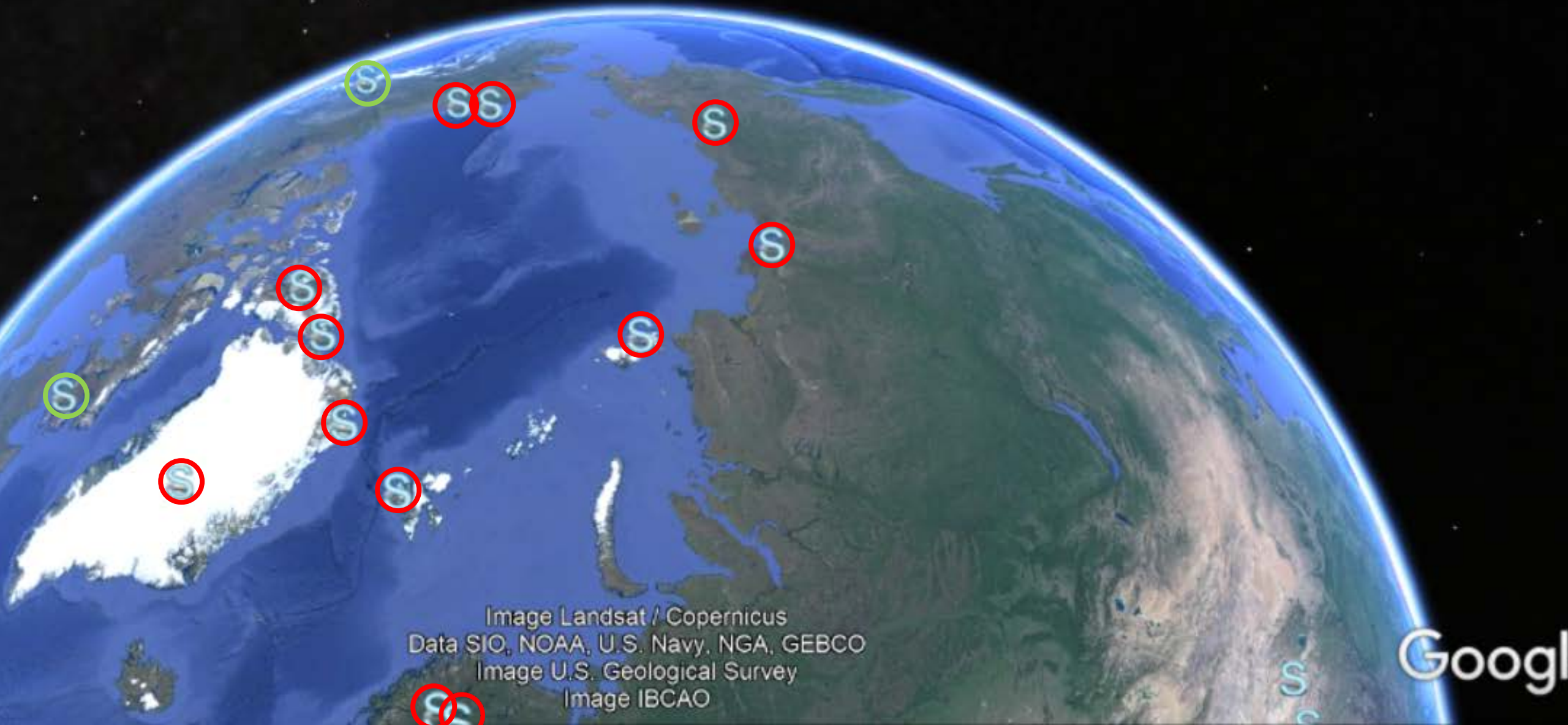


IASOA and the Year of Polar Prediction

<http://www.polarprediction.net/yopp-activities/yopp-observations-layer/>



[YOPP Data Portal](#)[YOPP Observations Layer](#)[YOPP Task Teams](#)[Getting involved with YOPP](#)[Special Observing Periods](#)[YOPP Endorsement](#)[Operational Support](#)[YOPP Explorer](#)[Recent Publications](#)[YOPP Southern Hemisphere](#)[YOPP Meetings](#)[SIDFEx](#)[Polar Prediction](#) > [YOPP Activities](#)

YOPP - The Year of Polar Prediction

MISSION

Enable a significant improvement in environmental prediction capabilities for the polar regions and beyond, by coordinating a period of intensive observing, modelling, verification, user-engagement and education activities.

The Year of Polar Prediction (YOPP) is one of the key elements of the Polar Prediction Project. YOPP is scheduled to take place from mid-2017 to mid-2019.

YOPP will

- cover an extended period of coordinated intensive observational and modelling activities in order to improve polar prediction capabilities on a wide range of time scales in both polar regions;
- strongly engage in forecast-stakeholder interaction, verification and a strong educational component;



YOPP Summit

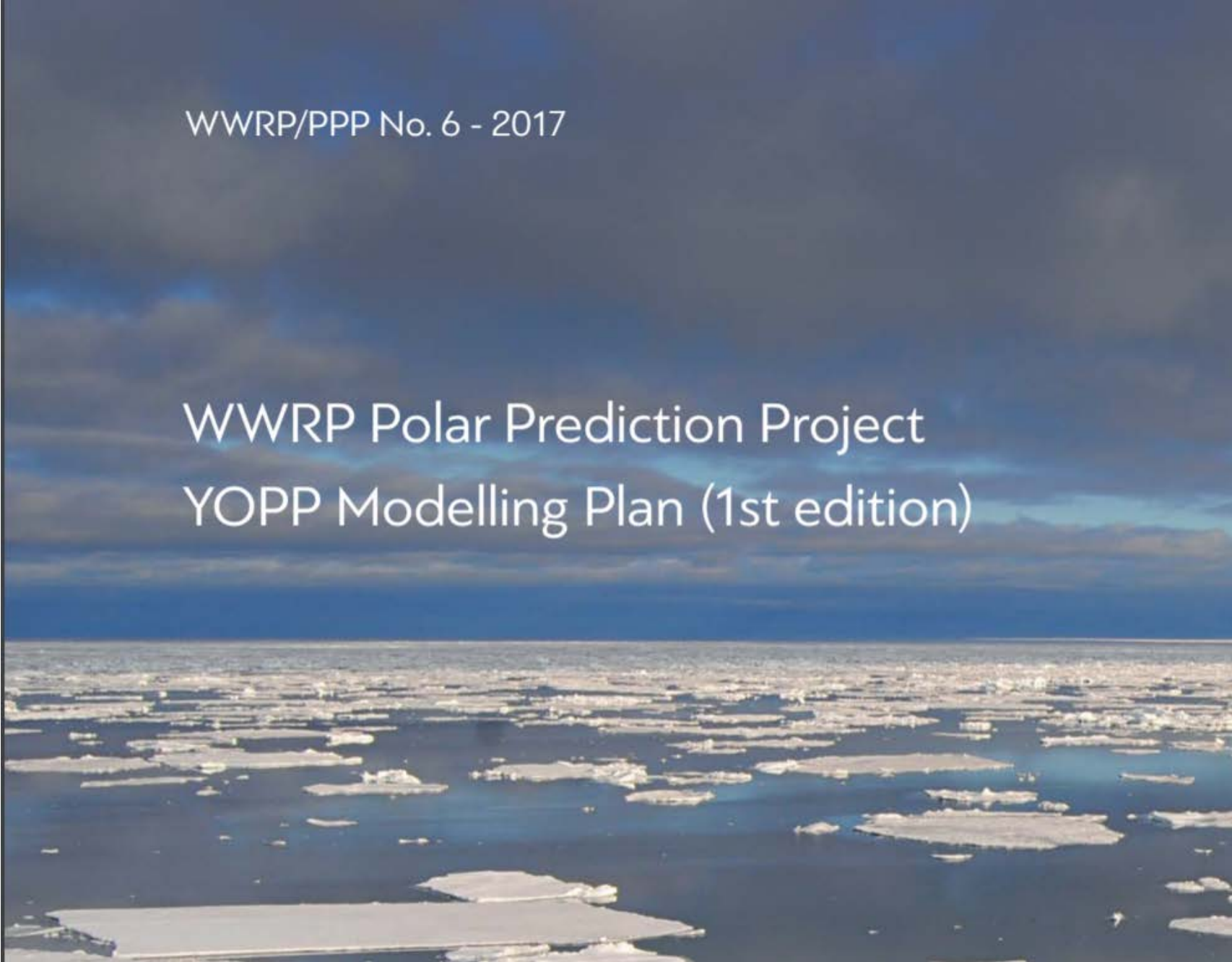
A major milestone for the preparation of YOPP was the [YOPP Summit](#), held at Geneva, 13-15 July 2015.

YOPP Implementation Plan

The new [YOPP Implementation Plan \(version 2.0\)](#) outlines the planned activities during the Year of Polar Prediction. The revised version reflects the decisions that were made at the YOPP Summit including a specified

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WWRP Polar Prediction Project
YOPP Modelling Plan (1st edition)



A common set of model output for YOPP

Introduction – Core Model Output

This document sets out a common set of model fields that should be output, where feasible, from all model simulations carried out in conjunction with the Year of Polar Prediction (YOPP). It should be read in conjunction with the YOPP modelling plan (YOPP, 2017), which describes plans for producing a set of YOPP reference datasets and running a variety of modelling experiments to address key scientific issues. This specification for YOPP common model output has been developed by the YOPP model task team, whilst taking into account the primary verification goals, as set out by the YOPP verification task team (Casati et al, 2017).

Outputting a consistent set of core fields, with common units and conventions, will facilitate the use of YOPP data for a wide range of research, projects, including:

- comparisons between different model runs; and
- verification of model data against observations.

Section A of this document defines a core set of fields that should be output at all model grid points. In addition, modelling teams are requested to more detailed output at key observation locations, see section B on *Site-specific Output*. For detailed local process modelling, using single-column models (SCM) or large eddy simulation (LES), output should follow the guidelines set out in section B.

It is recognised that not all variables will be relevant to all models: for example,

**YOPP
Verification**

Outlining a YOPP verification strategy, and develop and support a YOPP verification effort

YOPP Verification plan

Barbara Casati (PPP SG; barbara.casati@canada.ca)

Greg Smith (PPP Steering Group), Helge Goessling (ICO), Thomas Haiden (ECMWF), Eugene Petrescu (NOAA)

Currently working on draft of a YOPP Verification Document
Barbara.Casati@Canada.ca

What can IASOA aerosols
Contribute to this list?

Observed Surface Variables
Compare time-series

In-Situ + Active Sensor Sites	In-Situ Sensor Sites	
	GHCND T	FROM GTS
	GHCND	FROM GTS
	GHCND P	
	LWD	IN-SITU surface
	LWU	
	SWD	
	SWU	
	SH	
	LH	
	Albedo	
	Methane	
	O ₃	
	eBC	
	CO ₂	
	Ground Heat Flux	
	Snow accumulation	
	Snow Depth	
WVP		INTEGRATED
IWP		INTEGRATED
LWP		INTEGRATED
AOD		INTEGRATED
Cloud Base		Height Resolved
Cloud Top		Height Resolved

Observed Multi-Level Variables
Compare x-sections

	Rawinsondes and Active Sensors
FROM GTS	GTS T
	GTS P
	GTS RH
PROFILES	Cloud Base
	Cloud Top
	Winds
	IWC
	LWC
	Extinction
	Moisture Fluxes

