

SMAP Early**Investigator and Institution*****Selected in 2011***

Stephane Belair, Meteorological Research Division,
Environment Canada (EC)

Hosni Ghedira, Masdar Institute, UAE

Zhengwei Yang and Rick Mueller, USDA National
Agricultural Statistical Service (NASS)

Catherine Champagne, Agriculture and Agri-Food
Canada (AAFC)

Amor Ines and Stephen Zebiak, International
Research Institute for Climate and Society (IRI)
Columbia University

Lars Isaksen and Patricia de Rosnay, European
Centre for Medium-Range Weather Forecasts
(ECMWF)

Xiwu Zhan, Michael Ek and John Simko, NOAA
National Environmental Satellite Data and
Information Service, Center for Satellite Applications
and Research (NOAA-NESDIS-STAR)

Selected in 2012

Curt Reynolds, USDA Foreign Agricultural Service
(FAS)

John Eylander, U.S. Army Engineer Research and
Development Center (ERDC) Cold Regions Research
and Engineering Laboratory (CRREL)

Jim Reardon and Gary Curcio, US Forest Service
(USFS)

**Gary McWilliams, Li Li, Andrew Jones and George
Mason**, Dept. of Defense - Soil Moisture Applications
Consortium (SMAC)

Michael Ek, Marouane Temimi, Xiwu Zhan, NOAA
National Centers for Environmental Prediction
(NCEP)

John Galantowicz, Atmospheric and Environmental Research, Inc. (AER)

Jingfeng Wang, Rafael Bras and Aris Georgakakos, Georgia Institute of Technology (GIT)

Kyle McDonald, City College of New York (CUNY) and CREST Institute, and **Don Pierson**, New York City Dept. of Environmental Protection

Chris Funk, Amy McNally and James Verdin, US Geological Survey & UC Santa Barbara

Fiona Shaw, Willis, Global Analytics

Rafael Ameller, StormCenter Communications, Inc.

Adopters
Applications Research Topic
<i>Assimilation and impact evaluation of observations from the SMAP mission in Environment Canada's Environmental Prediction Systems</i>
<i>Estimating and mapping the extent of Saharan dust emissions using SMAP-derived soil moisture data</i>
<i>U.S. National cropland soil moisture monitoring using SMAP</i>
<i>Soil moisture monitoring in Canada</i>
<i>Seasonal climate forecasts with dynamic crop simulation models for crop forecasting and food security early warning applications</i>
<i>Monitoring SMAP soil moisture and brightness temperature at ECMWF</i>
<i>Transition of NASA SMAP research products to NOAA operational numerical weather and seasonal climate predictions and research hydrological forecasts</i>
<i>Enhancing USDA's global crop production monitoring system using SMAP soil moisture products</i>
<i>U.S. Army Engineer Research and Development Center (ERDC) SMAP adoption for USACE civil and military tactical support</i>
<i>Wildfire danger and estimated smoldering potential in the organic soils of the North Carolina coastal plain</i>
<i>Exploitation of SMAP data for Army and Marine Corps mobility assessment</i>
<i>Integration of SMAP freeze/thaw product into the NOAA NCEP weather forecast models</i>

Use of SMAP-derived inundation and soil moisture estimates in the quantification of biogenic greenhouse gas emissions

Application of SMAP observations in modeling energy/water/carbon cycles and its impact on weather and climatic predictions

Application of SMAP freeze/thaw and soil moisture products for supporting management of New York City's potable water supply

Incorporating soil moisture retrievals into the Famine Early Warning System (FEWS) Land Data Assimilation System (FLDAS)

eNCOMPASS – A risk identification and analysis system for insurance; Multiple catastrophe risk models, risk rating tools and risk indices for insurance and reinsurance purposes including a Global Flood Model

SMAP for enhanced decision making (emergency management)