

NIDIS Knowledge Assessment Workshop
“Contributions of Satellite Remote Sensing to Drought Monitoring”
David Skaggs Research Center, NOAA, Room GB124
February 6-7, 2008

Wednesday, February 6, 2008

9:00-9:30 am: Workshop Overview

9:00-9:15 am: **Opening Remarks:** Roger Pulwarty, NOAA/NIDIS

9:15-9:25 am: **Workshop Objectives:** Jim Verdin, USGS/NIDIS

9:25-9:30 am: **Participant Introduction:** Workshop planning team

9:30 am-12:30 pm: Remote Sensing of Vegetation: Crops, Rangeland, and Forests

Panel Presentations:

9:30-9:50 am: Jeff Eidenshink, USGS/EROS ,

“A 16-year time series of 1-km AVHRR satellite data of the conterminous United States and Alaska”

9:50-10:10 am: Jesslyn Brown, SAIC/USGS,

“Using eMODIS Vegetation Indices for Operational Drought Monitoring”

10:10-10:30 am: Brian Wardlow, NDMC, University of Nebraska, Lincoln

“The Vegetation Drought Response Index (VegDRI): A New Drought Monitoring Approach for Vegetation”

10:30-10:50 am: Felix Kogan, NOAA/NESDIS

“Monitoring Drought and its Impacts on Vegetation from Space”

10:50-11:10 am: Wim VanLeeuwen, University of Arizona

“AVHRR and MODIS Vegetation Index Data for Rangeland Decision Support”

11:10-11:30 am Break

11:30 am-12:30 pm: Panel Discussion, Q & A led by Panel Chair

Panel Chair: David Stooksbury, GA State Climatologist

12:30-1:30 pm: Lunch

1:30-4:30 pm: Remote Sensing of Precipitation and Snow Cover

Panel Presentations

Precipitation:

1:30-1:50 pm: Pingping Xie, Climate Prediction Center, NCEP, NOAA

“Precipitation Analyses and Their Applications in Drought Monitoring at NOAA’s Climate Prediction Center”

1:50 pm-2:10 pm: Chris Funk, TRMM

“Tropical Rainfall Measuring Mission”

2:10-2:30 pm: Victor Murphy, NOAA/NWS
“NWS Precipitation Analysis Product”

Snow

2:30-2:50 pm: Donald Cline, NOAA
“NOAA’s National Snow Analyses”

2:50-3:10 pm: Richard Armstrong, NSIDC, University of Colorado,
“Northern Hemisphere Snow Extent Derived from Microwave and Optical Satellite Data”

3:10-3:30 pm: **Break**

3:30-4:30 pm: **Panel Discussion, Q & A led by Panel Chair**
Panel Chair: Nolan Doesken, State Climatologist, Colorado State University

4:30 pm: **End of Workshop Day 1**

Thursday, February 7, 2008

8:30-8:45 am: Opening remarks, recap of first day: Jim Verdin, USGS/NIDIS,
Jesslyn Brown, SAIC, USGS

9:00-12:00 pm: Remote Sensing of Evapotranspiration and Soil Moisture/Groundwater

Panel Presentations

Soil Moisture/Groundwater

9:00-9:20 am: Son Nghiem, NASA JPL
“Satellite Remote Sensing of Soil Moisture for Drought Applications”

9:20-9:40 am: Eric Wood, Land Surface Hydrology Research Group, Princeton University
“Remote Sensing and Land Surface Models”

9:40-10:00 am: Matt Rodell, NASA/GSFC
Remote Sensing of Terrestrial Water Storage and Application to Drought Monitoring

10:00-10:20 am: **Break**

Evapotranspiration

10:20-10:40 am: Graeme Aggett, Riverside Technology
Enhancing Water Management Decision Support Systems with High Spatio-temporal Resolution Mapping of Actual Evapotranspiration

10:40-11:00 am: Martha Anderson, USDA/ARS
Mapping Evapotranspiration and Drought at Local to Continental Scales with a Thermal-based Surface Energy Balance Model“

11:00-11:20 am: Gabriel Senay SAIC, USGS/EROS

*Landscape Evapotranspiration Estimates Using Remotely Sensed Data for
Operational Applications in Agriculture and Hydrology“*

*11:20 am-12:20 pm: **Lunch***

*12:20-1:20 pm: **Panel Discussion, Q & A led by Panel Chair***

Panel Chair: Dennis Todey, State Climatologist, South Dakota State University

1:20-2:30 pm: Workshop Wrap-up

*1:20-2:20 pm: **Identify crosscutting themes, user gaps, and recommendations:** Led by workshop planning team*

*2:20-2:30 pm: **Closing Remarks:** Roger Pulwarty*