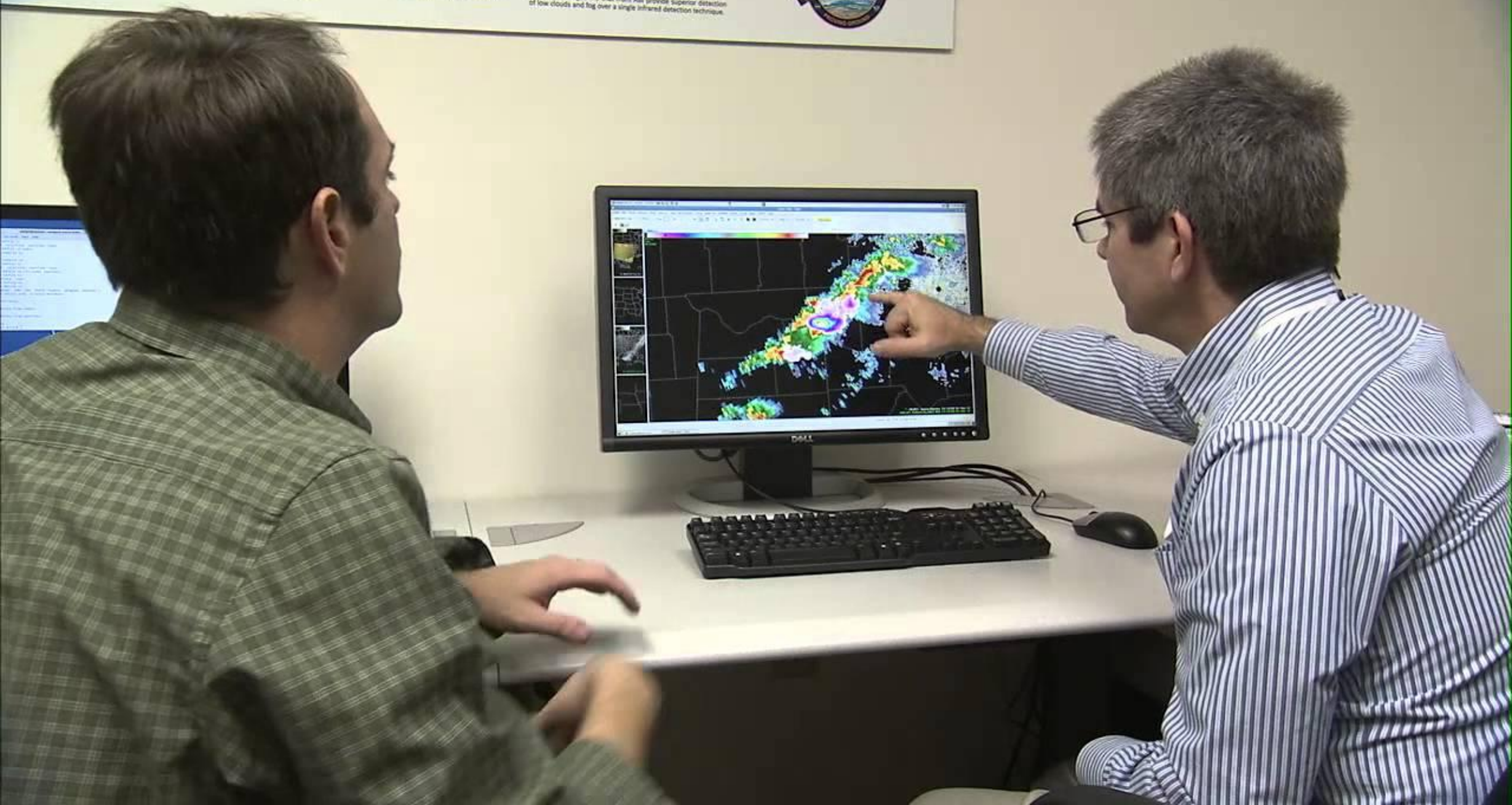


...ing around partners include several NOAA Cooperative of the twenty-three total SPUIT partner WFOs (red). Several National Centers (green circles) including NHC, OPC, and MPC are also evaluating SPUIT Preview Ground products.

MOIS-GOES Hybrid
Figure 5. Comparison of a GOES infrared image (left) to that of the MOIS-GOES hybrid image (right) representing ABI data. The hybrid is produced by replacing GOES imagery with MOIS imagery at the corresponding time and preserving ABI spatial resolution in the resulting product.

... impact the ability of a true color composite image, similar to that available from ABI, to differentiate smoke from clouds and how the combination of surface viewing channels on ABI will allow forecasters to monitor changes in snow cover (red regions in right image in Fig. 4). Figure 5 shows how RGB composite images like that from ABI provide superior detection of low clouds and fog over a single infrared detection technique.



1

00:00:05,210 --> 00:00:17,860

NASA's Short-term Prediction Research and Transition (SPoRT) Center accelerates the

2

00:00:17,860 --> 00:00:33,941

infusion of NASA's Earth science observations, data assimilation, and

3

00:00:33,941 --> 00:00:40,050

modeling research into the regional and local National Weather Service forecasting and decision-making

4

00:00:40,050 --> 00:00:41,469

process.

5

00:00:41,469 --> 00:00:46,710

SPoRT works closely with the National Weather Service forecasters at 24 local and regional

6

00:00:46,710 --> 00:00:51,950

Weather Forecast Offices and five National Centers for Environmental Prediction across

7

00:00:51,950 --> 00:00:58,440

the country to identify forecast problems and address them using timely, high-resolution

8

00:00:58,440 --> 00:01:02,019

NASA observations and unique research capabilities

9

00:01:02,019 --> 00:01:07,750

The forecasting success of each weather forecast office depends upon the ability to collect

10

00:01:07,750 --> 00:01:14,869

atmospheric observations, assimilate observations into numerical models, and convert model analyses

11

00:01:14,869 --> 00:01:20,619

into national environmental information, and provide local warning and forecast services

12

00:01:20,619 --> 00:01:22,850

to affected communities.

13

00:01:22,850 --> 00:01:28,460

SPoRT's products focus on the regional scale and emphasize forecast improvements on a 0

14

00:01:28,460 --> 00:01:30,280

to 48 hour time scale.

15

00:01:30,280 --> 00:01:34,430

So, just how does all this science interaction get done?

16

00:01:34,430 --> 00:01:39,649

The team develops novel data analysis and forecasting techniques and integrates them

17

00:01:39,649 --> 00:01:44,520

into a test bed environment to demonstrate their operational feasibility.

18

00:01:44,520 --> 00:01:49,780

Promising data and forecast approaches are then integrated into current National Weather

19

00:01:49,780 --> 00:01:55,530

Service decision support systems such as the Advanced Weather Interactive Processing System

20

00:01:55,530 --> 00:01:57,840

(AWIPS).

21

00:01:57,840 --> 00:02:02,950

Weather forecasters are able to easily access and display the gathered observations due

22
00:02:02,950 --> 00:02:07,651
to their seamless integration with their standard
product suite in order to generate weather

23
00:02:07,651 --> 00:02:10,479
guidance and advanced forecasts.

24
00:02:10,479 --> 00:02:15,720
This partnership has afforded SPoRT and National
Weather Service along with the Weather Forecast

25
00:02:15,720 --> 00:02:21,310
Offices the opportunity to train its team
members on new data, products, and/or capabilities

26
00:02:21,310 --> 00:02:27,100
in the form of science sharing sessions, informative
presentations, and special training modules.

27
00:02:27,100 --> 00:02:28,100
(footage)

28
00:02:28,100 --> 00:02:33,110
Regular scientific interaction with internal
team members and colleagues across the country

29
00:02:33,110 --> 00:02:36,980
is essential for effective collaboration in
the science community.

30
00:02:36,980 --> 00:02:44,710
Here in the SPoRT Visualization and Collaboration
Lab at the National Space Science and Technology

31
00:02:44,710 --> 00:02:54,871
Center an interactive, high resolution, large
format display system, or hyperwall was recently

32
00:02:54,871 --> 00:03:00,060

installed in order to facilitate better collaboration among SPoRT partners, both internally and

33

00:03:00,060 --> 00:03:01,230

externally.

34

00:03:01,230 --> 00:03:07,410

The main component of the visualization lab is a 14 x 7 foot video display which is capable

35

00:03:07,410 --> 00:03:20,000

of showing contiguous video and still imagery as if it were a single display.

36

00:03:20,000 --> 00:03:46,510

Soundbite: Andrew Molthan

The video wall in the SPoRT Video Conference

37

00:03:46,510 --> 00:03:50,090

Lab is regularly used in SPoRT collaborations by:

38

00:03:50,090 --> 00:03:51,090

Include in lower thirds on screen as footage is shown.

39

00:03:51,090 --> 00:03:55,130

hosting seminars with both internal and external presenters (show footage)

40

00:03:55,130 --> 00:03:58,970

conducting end user training and instructional workshops (Show footage)

41

00:03:58,970 --> 00:04:04,750

for internal collaboration and planning (e.g. proposal develop and collaborative software

42

00:04:04,750 --> 00:04:08,710

development ■ footage)

The video wall also supports advanced scientific