

An Observational Approach for Training to Enhance User Understanding of New Channels on VIIRS and GOES-R

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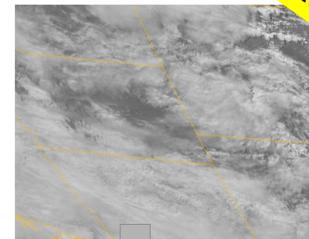
What matters in the presentation and the learning process?

Training

Face to face versus virtual
Lecture versus module versus discussion
Quick examples

Encounter different types of learners at different stages of learning.

repeat
repeat
repeat
repeat



South or North?

Familiar Language and Orientation

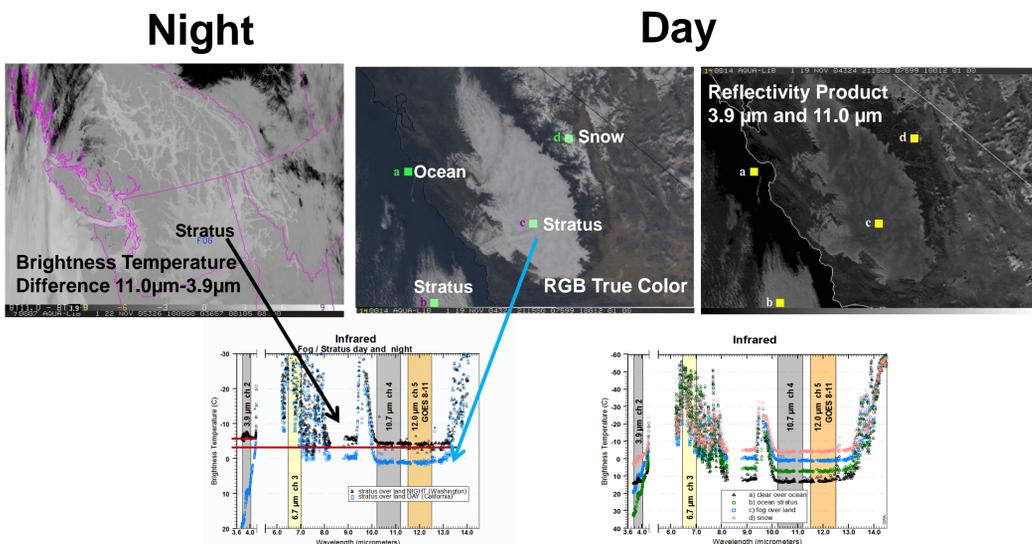
Trainers Observation/ Example:

Simple Fog Product:

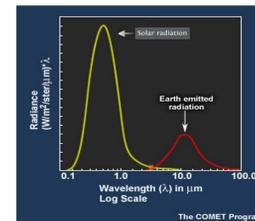
Users want:

- high contrast
- yes/no
- contextual
- how and why

Training to "how and why" promotes a deeper subject understanding.



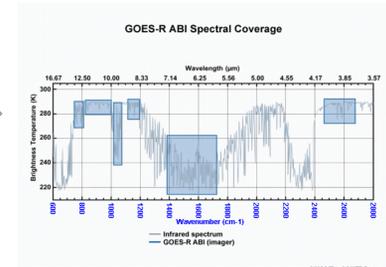
Familiar Language / Units Example - Back to Radiation Basics



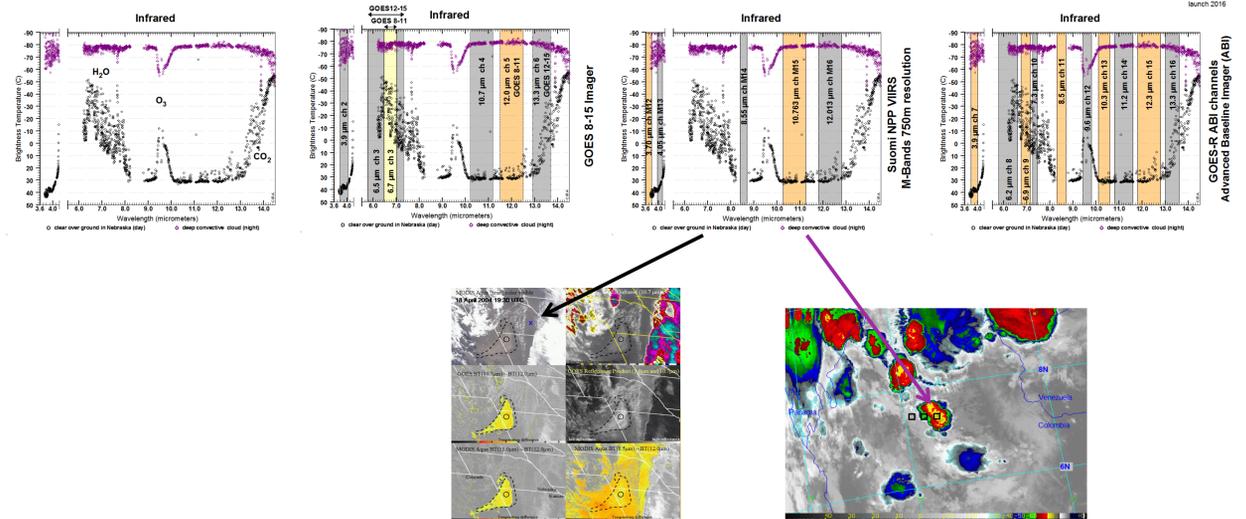
Planck Irradiance Equation

$$B_{\lambda}(T) = \frac{c_1 \lambda^{-5}}{\exp(c_2/\lambda T) - 1}$$

$c_1 = 1.19 \times 10^{-8} \text{ (W m}^{-2} \text{ ster}^{-1} \text{ cm}^4)$
 $c_2 = 1.439 \text{ (Kelvin * cm)}$
 $T = \text{Temperature of the Emitting Surface}$
 $\lambda = \text{Wavelength of the Emitted Energy}$



Research to Operations...
Do Units and Orientation Matter?
Which graph is easier to interpret? or Why?
Does it depend on familiarity?



<http://rammb.cira.colostate.edu/training/rmtc/newsat.asp>

Acknowledgments

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