What is a training paradigm? An accepted means to develop and deliver training.

Over the past 15 years, training for satellite matters for forecasters has been used to supplement gaps in education and as a means to present new and improved operational products. How has it evolved?

Training Audience: USA: National Weather Service

One language, one government, relatively easy to collaborate with neighboring offices.

International: Partner with WMO Regional Training Centers of Excellence in Costa Rica, Barbados, Argentina, and Brazil

Comprised of more than 30 different countries of varying sizes, with 3 primary languages. These 2 factors can hinder communication between contiguous countries.

Face to Face Training: 2-week events

Topics:
- Radiative Transfer
- Satellites: Status, Orbits, and Products
- GOES Imager Channels and Products
- GOES Sounder and Products
- POES Sensors and Products
- Satellite derived winds

Pros: Good learning environment away from the office
Cons: Costly

Virtual Training

Contains topics listed above + more

Ideal: Blended – Face to Face + Virtual

Progression of understanding

Aware
Knowledgeable
Capable
Skilled
Mastery
Expert
- In the US, with a Bachelor degree, a new intern to the NWS has knowledgeable or better understanding.
- In other countries, knowledgeable or better is possible, but an intern may be starting at the awareness level.

GOES Satellite Imagery

Relatively consistent over the last 15 years
With persistent viewing, develop "intuitive" knowledge over time.
- The expert in the office.
- What does it take to be an expert?
  Practice: 10,000 hours
  3.5 hours/day * 365 days/year ~ 10 years
- How many satellite experts do we have out there?
- Are we taking advantage of their mentoring capabilities?

Language considerations

Native – It is more meaningful when you can understand what is being said or shown. Research to operations – Dito the above statement. Are the two working with the same measuring units or visualizing the data from the same perspectives?

What imagery/tool is needed for training?

Depends on what needs to be seen. Some tools are "ageless"