A growing trend in the e-learning community is related to ‘micro-training’ or micro-lessons. This training concept has been a part of the formats used by NASA’s Short-term Prediction, Research, and Transition (SPoRT) Program for many years in order to meet the training needs of operational users for satellite applications.

**SPoRT’s Application Library**

- Freely available to view or download
- Based on 15 years of experience with transition of new satellite products

**Micro-learning Applied to New Satellite Capabilities Transitioned to Operations**

- **Global Precipitation Monitoring (GPM) Mission**
  - **Objective:** Integration of satellite-based precipitation estimates in data void regions to complement operational monitoring of flooding
  - **Impact:** Improved use of satellite imagery/data for precipitation monitoring after quick example and training on product ‘best practices’

- **Total Lightning**
  - **Objective:** Application of total lightning data via new satellite capabilities; Ability to integrate with ground-based lightning after training simulation
  - **Impact:** Increased lead time for warnings related to lightning safety to allow personnel to seek shelter.

- **NASA/LaRC Icing Potential**
  - **Objective:** Demonstration of automated method for analysis of icing severity from satellite imagery fused with other data
  - **Impact:** Ease of icing analysis to more quickly diagnose areas of aircraft hazards and increase confidence for re-routing decisions

**Formats for the Library**

- **Picture & a Paragraph (1-minute)**
  - Quick read of local examples
  - Impact statement from user
  - Annotated images to help with interpretation

- **Short Learning Object/Video (3-5 minutes)**
  - Like a “how-to” video (YouTube)
  - Includes audio and animation of products within a web browser
  - Regional examples and Special cases

- **Micro-lesson (5-8 minutes)**
  - Focused on operational impact from a forecaster perspective and includes other data sets
  - Builds upon fundamentals from basic training via application
  - Some examples have been used within publications by NWA JOM