**Satellite Foundational Course for GOES-R**

**Pre-Convective Environment Jobsheet**

**Performance Objective:**

* + Using the WES-2 Workstation and knowledge from previous modules, assess the pre-convective environment and provide a short term forecast for convective initiation by issuing a special weather statement.

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***Instructor Notes:***

* ***Weak ascent from H5/7 DPVA (H7 shrtwv)***
* ***Exit region of H3 Jet ovr IA at 12z***
* ***Strong Cdfnt approaching CWA from NW***
* ***Weak TSTM outflow bndry located acrs SERN part of the CWA***
* ***Significant area of differential htg from W-E acrs CWA***
* ***H7-H5 lapse rates 7.5 to 8.0 deg C/km***
* **Simulation Time : 1700 – 1830 UTC 27 May 2015**
* **CWA: Dodge City, KS (DDC)**

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| **Task:** | **Answer** |
| Using the satellite data, identify any boundaries on which convection could form (if there are any). |  |
| Identify any pre-convective cloud features which could lead to convection. (e.g. HCRs, TCU, etc…) |  |
| Using satellite data, identify any features that indicate an impact on storm mode. |  |
| Identify any Elevated Mixed Layers |  |
| Using satellite, identify any regions of orographic lifting or mountain waves. |  |