Current status:
- A fir split window, explicit emissivity algorithm was developed for the LST retrieval.
- Examined using a comprehensive simulation database.
- Tested using current GOES Imager and SEVIRI data.
- Evaluated using radiative transfer test cases.
- Critical design review, test readiness review have been done.
- 80% readiness ATED and software have been delivered, and received approval comments.

Planned accomplishment:
- Collecting more ground LST and satellite data for comprehensive in-situ validation.
- 100% readiness A ISSU and software delivery in 2010.
- Development for validation system tools.

Baseline Products:
- Land Surface Temperature (LST)
- Fire Detection and Characterization (FDC)
- Normalized Difference Vegetation Index (NDVI)
- Surface Albedo
- Flood and Standing Water (FSW) monitoring
- Green Vegetation Fraction (GVF)

Current status:
- Application analysis has been performed for the LST retrieval.
- Examined using a comprehensive simulation database.
- Tested using current GOES Imager and SEVIRI data.
- Evaluated using in-situ LST estimation from SURFRAD stations.
- Critical design review, test readiness review have been done.
- 80% readiness ATED and software have been delivered, and received approval comments.

Planned accomplishment:
- Collecting more ground LST and satellite data for comprehensive in-situ validation.
- 100% readiness A ISSU and software delivery in 2010.
- Development for validation system tools.

Option 2 Products:
- Normalized Difference Vegetation Index (NDVI)
- Surface Albedo
- Flood and Standing Water (FSW) monitoring
- Green Vegetation Fraction (GVF)