Basic questions

- Describe how SNPP/JPSS products provide continuity from legacy POES, METOP, DMSP, EOS? Or is SNPP/JPSS a new capability for our application?
  - Soil Moisture, GVF, (and density of vegetation), veg type, soil type
    - SMOPS combines soil moisture for global composite
  - *Many legacy products not exploited operationally are being used in R&D, so consistency with NPP/JPSS is important*.
  - LDA requires climatology and its consistency – reprocessing and dynamic continuity
- What benefits or improvements do you expect from SNPP/JPSS?
  - Expected impact (low, medium, high) and why?
    - Impact is contingent of the readiness of the operational model transition from R&D to operation is critical
    - Eventually high impact
    - *Consistency between land products and between land and cryo, global 1km*
    - *VIIRS NDE GVF weekly at 4km, subdaily LST, SA*
    - *Ops needs for radiance assimilation are very basic – Community wants improvements but hindered by requirements*
    - *Need for spectral emissivity from blended product incl. CrIS*
    - *Additional data products (MODIS heritage}*

Basic questions

- Provide Details on:
  - when do you plan to use the SNPP/JPSS Product?
    - Is there an actionable plan?
      - Soil Moisture, GVF near future
    - Is it funded? Partly – JCSDA activities, funding for testbed
    - What is the priority? High
    - Have you thought about how you will get the data and have you identified the issues with your operational use of SNPP/JPSS ?
      - Need to transition to ops within NCEP
    - Initialization (GVF, albedo) vs. assimilation (NASA LIS) – snow, soil moisture
    - LST: verification (systematic planned), potential for assimilation
  - Are the current legacy products well utilized?
    - *AVHRR TOA NDVI 5 yr climo (GVF); Snow cover and depth (DMSP & AMSR E); old snow albedo DB; MODIS Sfc Type.*
    - *All are prepackaged…not xDR.*
    - *Plans for more routine validation use.*
  - Is the SNPP/JPSS product part of a blended product?
    - Potential for blended albedo from mid-am/pm platforms
  - What additional work needs to be done to ensure that the SNPP/JPSS product is/will be well utilized?
    - *Need better dialogue between operational use and researcher on what is needed – better requirements definition…global values are inadequate.*

Are enhancements needed for:

- Accessibility (data flow, latency, format)
  - Latency varies per product. Snow is daily, but working with NSIC on sub-daily; GVF weekly; burned area currently has daily rolling based on weekly, but would prefer daily
  - GRIB2
- Product performance (accuracy, precision)
  - Error characterization
    - Recommend keeping levels of validation maturity
    - Encourage independent validation
  - Rqmts in terms of global APU for all conditions doesn't reflect real needs
- User applications (modifications to modeling , decision tools, visualization to use the new products)
  - Post-processing of EDRs is critical
  - Current EDRs are important fundamental products