TR&T Charter

Understand the present:

1. Review the science and user objectives, priorities and justifications defined by NASA HQ and the Science Architecture Team.

2. Assess/review current relevant modeling capabilities and their development potential with respect to the LWS program

3. Characterize the potential of targeted data analysis tasks for furthering LWS goals

Address the Near Term

4. Identify theory and modeling activities that potentially augment the LWS program for implementation in the near future using current data products now available.

5. Identify strategies for the analysis of presently available data sets with potential for LWS relevant research

6. Identify and prioritize (at the top level) goals and requirements from both science and user objectives for the next 5 years.

Address the overarching TR&T program goals

7. Define model development and data analysis priorities

8. Define model evaluation and validation procedures

9. Define data sets required for model input and validation

10. Generate objectives for tailored data analysis tasks

11. Discuss and recommend (if appropriate) procedures or methods to transition research models and research results to interagency partners concerned with operations (DOD, NSF, NOAA and NASA are primary partners, DOT, DOE, and one or two others are sort of partners with less presence)

11. Develop conceptual mechanisms to provide model access to the general research community

Address the issues of infrastructure and program implementation

12. Work with the LWS Project to obtain cost analyses of the candidate program elements, and iterate until the model elements are consistent with the budget cost cap.

13. Work with the LWS Project to develop strawman funding mechanisms, profiles, and timelines to support TR&T R&D aspects

14. Develop top-level milestones and development schedules

15. Recommend, if possible, a top-level management structure to assess development success

16. Identify, to the extent possible, the kinds of ADP assets likely required for program support.

Definition of Success for the TRTDT (Targeted Research and Technology Definition Team)

The findings and recommendations of the TMDDT will allow the Code S management
to devise an effective theory and modeling implementation plan with explicit priorities
that ensure a successful achievement of LWS goals.