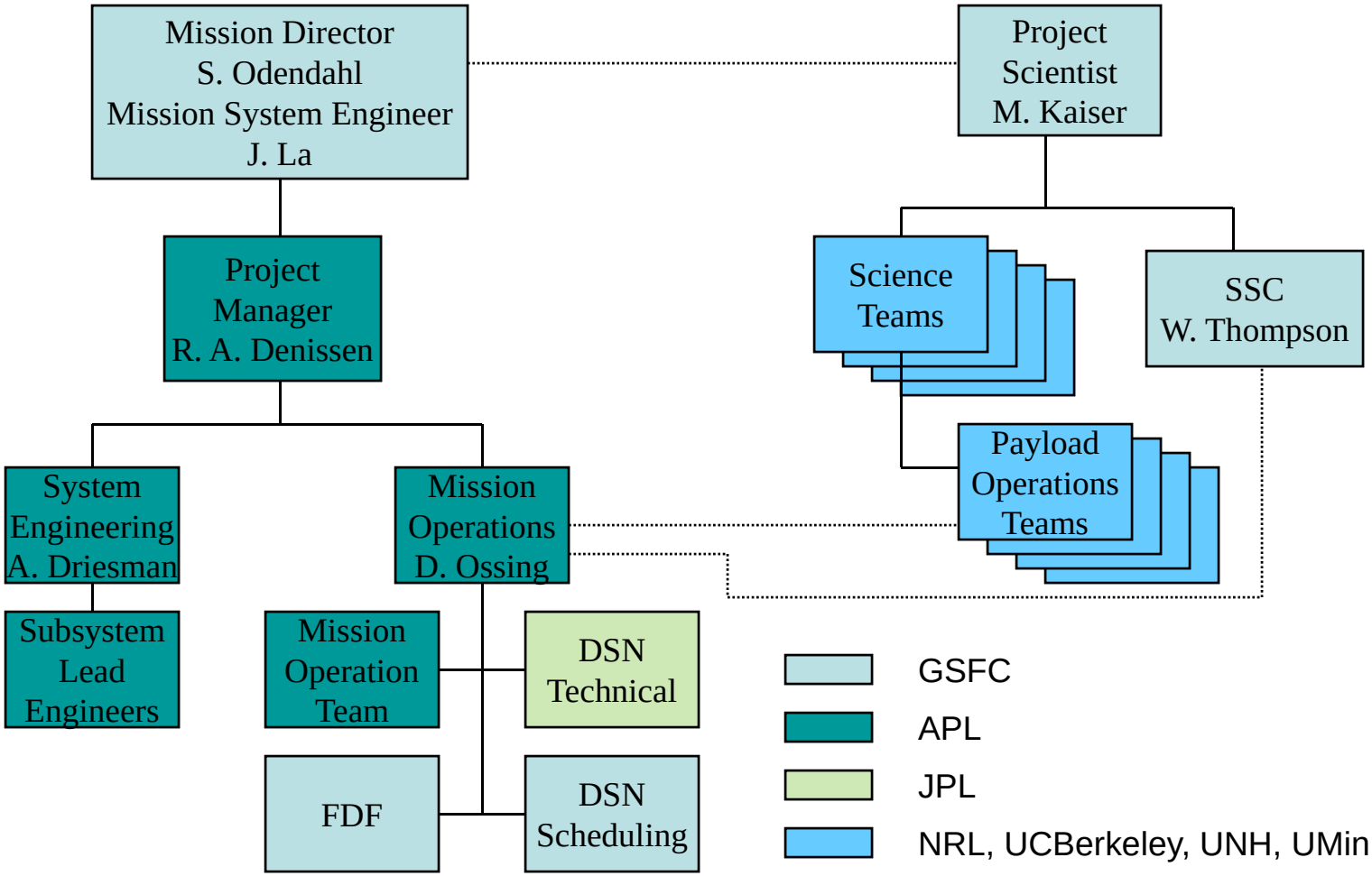
STEREO Project

Ron Denissen – APL Project Manager
Andy Driesman – APL Mission System Engineer

APL Space Department

STEREO Phase E Organization Chart



APL Space Department

Technical			Schedule						Programmatic		
Nov	Dec	Jan	Nov	Dec	Jan	Nov	Dec	Jan	Nov	Dec	Jan
G	G	G	G	G	G	G	G	G	G	G	G

- **Technical**
  - *Both Observatories operational. Completed the prime science mission successfully and are now in our first extended mission.*
- **Schedule**
  - *Routine operations – HGA and instrument cals, momentum dumps.*
- **Resources**
  - *Extended mission proposal has been accepted and we are now under contract until the end of September 2010.*
- **Programmatic**
  - *No issues at this time.*

G	No current problem All commitments can be met	Y	Major problem Identified solution Commitment is in jeopardy	R	Major problem No identified solution Commitment cannot be met

APL Space Department

Program Status

- **Mission Operations**
  - Operations team reduced 6
  - 1 attended track per week on each observatory (more if requested)
  - Collecting on Average over 7 Gbits/day
- **Special Observatory Events**
  - *55 instrument calibration events*
  - *15 High Gain Antenna Calibrations*
  - *31 Momentum Dumps (~every 6 weeks on ahead, 9 weeks on behind)*
  - *Software Patches and Parameter adjustments to RAM*
  - *Autonomy Rule Changes in RAM and EEPROM*
  - Beginning the planning cycle for:
    - *G&C/Autonomy load*
    - *IMU#2 test on SCB*
    - *GT Saturation test*

From STEREO Mission Events Schedule

	Spacecraft A	Spacecraft B
Begin 6 hour daily DSN tracks	11-May-2009	11-May-2009
Switch downlink rate to 360 kbps downlink rate	18-May-2009	8-Jun-2009
Begin 7 hour daily DSN tracks	3-Aug-2009	3-Aug-2009
Switch downlink rate to 240 kbps downlink rate	10-Aug-2009	31-Aug-2009
Begin 8 hour daily DSN tracks	19-April-2010	7-Dec-2009
Switch downlink rate to 160 kbps downlink rate	26-April-2010	8-Dec 2009

APL Space Department

Program Summary

- Began extended mission January 22nd, 2009
- The observatories are in operational mode and about 90 degrees apart.
- Beginning the planning cycle for:
  - *G&C/Autonomy load*
  - *IMU#2 testing on SCB*
  - *GT Saturation test*
- Continuing to collect science data, averaging about 6.5 Gbits/day.

APL Space Department