Generic Mission Studies for the Science Working Group

1) Coverage and repeat cycle vs orbit altitude and effect on SNR (assuming sun synchronous orbit)

2) Feasibility of accommodating an EV-I class instrument (which spacecraft are available that can accommodate both a generic ASCENDS and an instrument that fits in the CII envelope)

3) Validation assets and how best to include those in the mission costing scenarios (how frequent; how long; and how many people)

4) Current SOA in data downlink capability and on orbit data storage (ScAN study; vendor survey to bound instrument data rate)