PLASTIC Flight Operations
November 07- April 08

K. Singer

SWG April 2008

PLASTIC Flight Operations

- 12/6/07: DOY 340 on SC B
  - Increase MCP voltage to compensate for normal gain changes
  - 3140V → 3160V
- 12/20/07 DOY 355 SC A & B
  - Changed criteria for Supra-thermal to ignore background events

PLASTIC Flight Operations

- Flight Software load 3.2.7
  - SC A: DOY 037 (2/7/08)
  - SC B: DOY 063 (3/3/08)
  - RTLT for A: 6 minutes
  - RTLT for B: 7 minutes
  - Bypassed COP1 command counter to reduce the load time

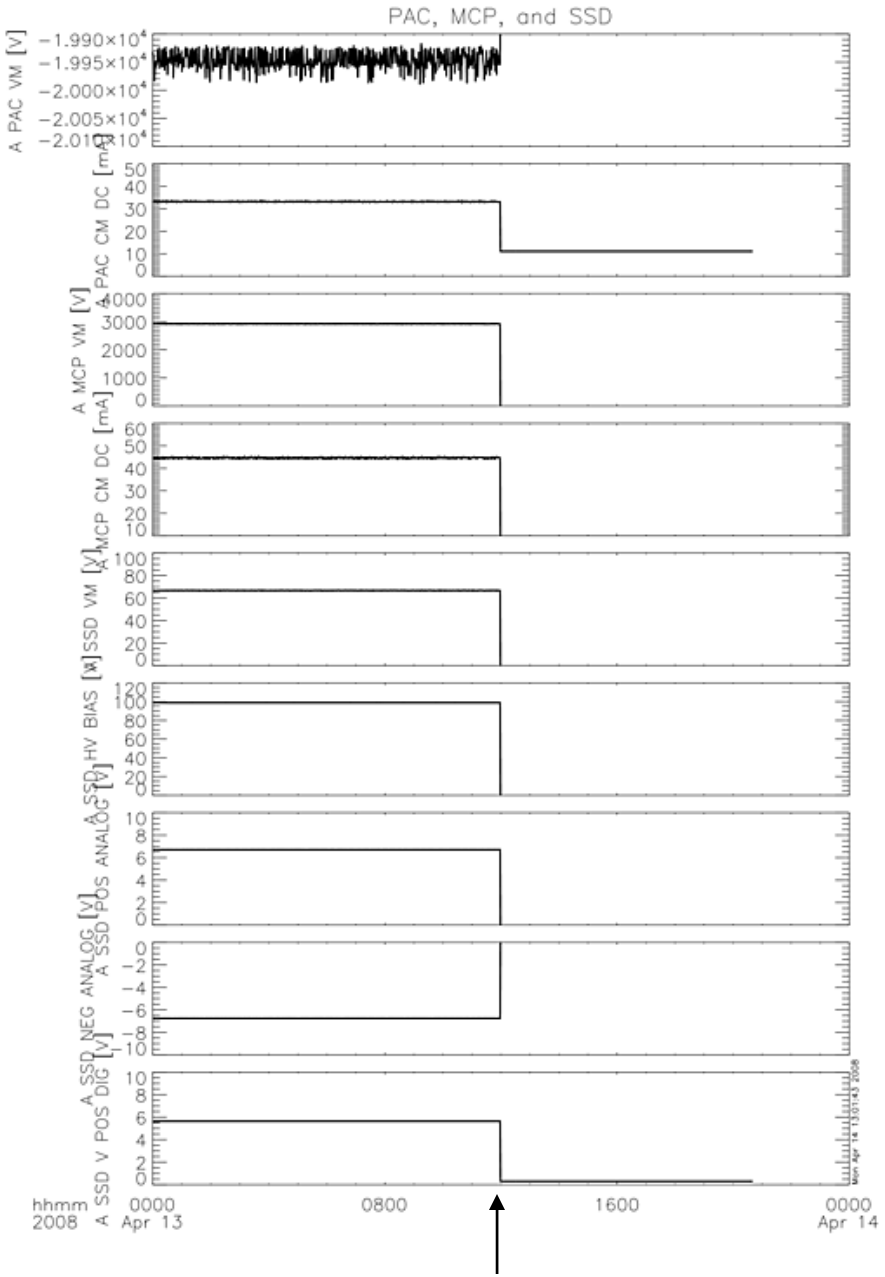
Software changes

- Included every 10th block of the EEPROM read back which was previously missing
- Corrected timestamp on science data packets

- Momentum dumps have gone smoothly—DPU has been disabling and enabling high voltages on Entrance System as necessary.
- Gain on MCP is changing more slowly since initial scrubbing and is stable.
- We are using SECCHI roll calibration data for our own calibration purposes.

PLASTIC Flight Operations

- SC A: DOY 104 (04/13/08)
  - At 11:58 UT PLASTIC reset



PAC VM (V)

PAC CM (mA)

MCP VM (V)

MCP CM (mA)

SSD VM (V)

SSD HV BIAS (V)

SSD POS ANALOG (V)

SSD NEG ANALOG (V)

SSD V POS DIG (V)

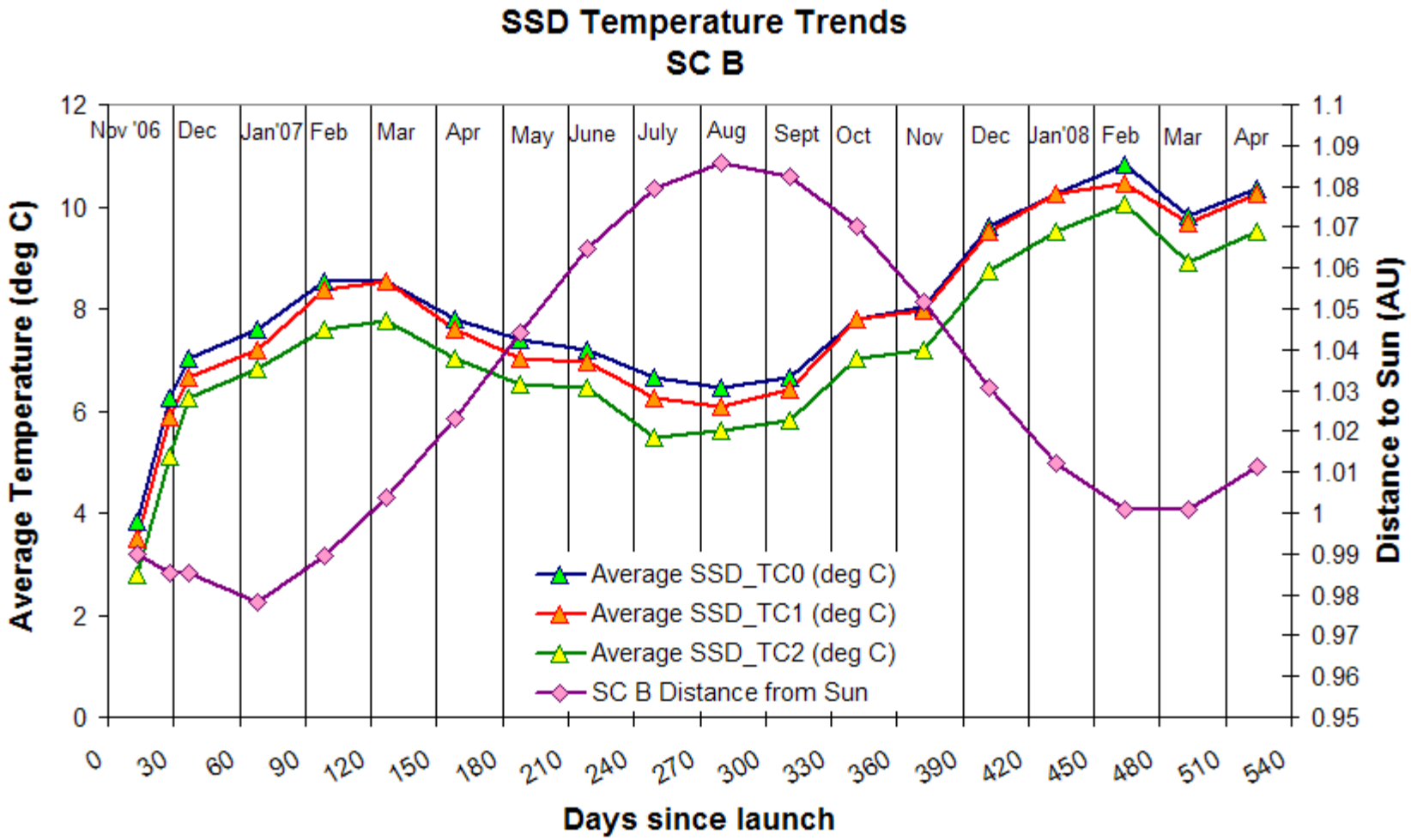
11:58 UT

PLASTIC Flight Operations

- SC A: DOY 105
  - Start turning on HV’s
- SC A: DOY 106-108
  - Continue stepping up HV’s
- SC A: DOY 108
  - Start data collection

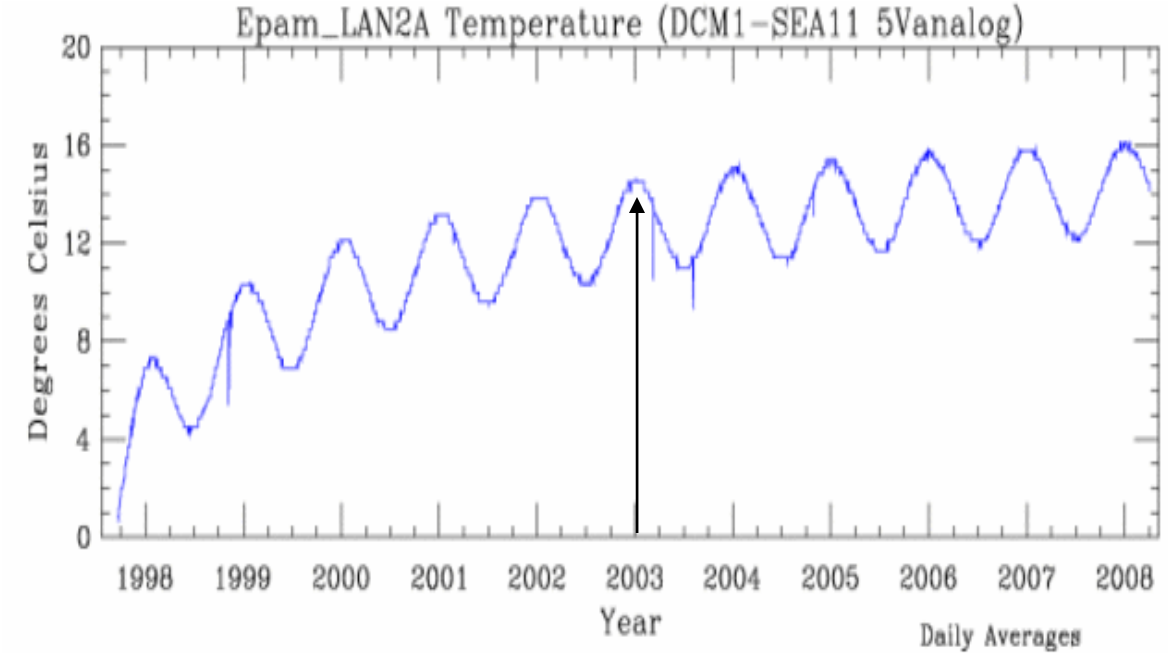
SSD Temperatures

SSD Temperatures since launch SC B

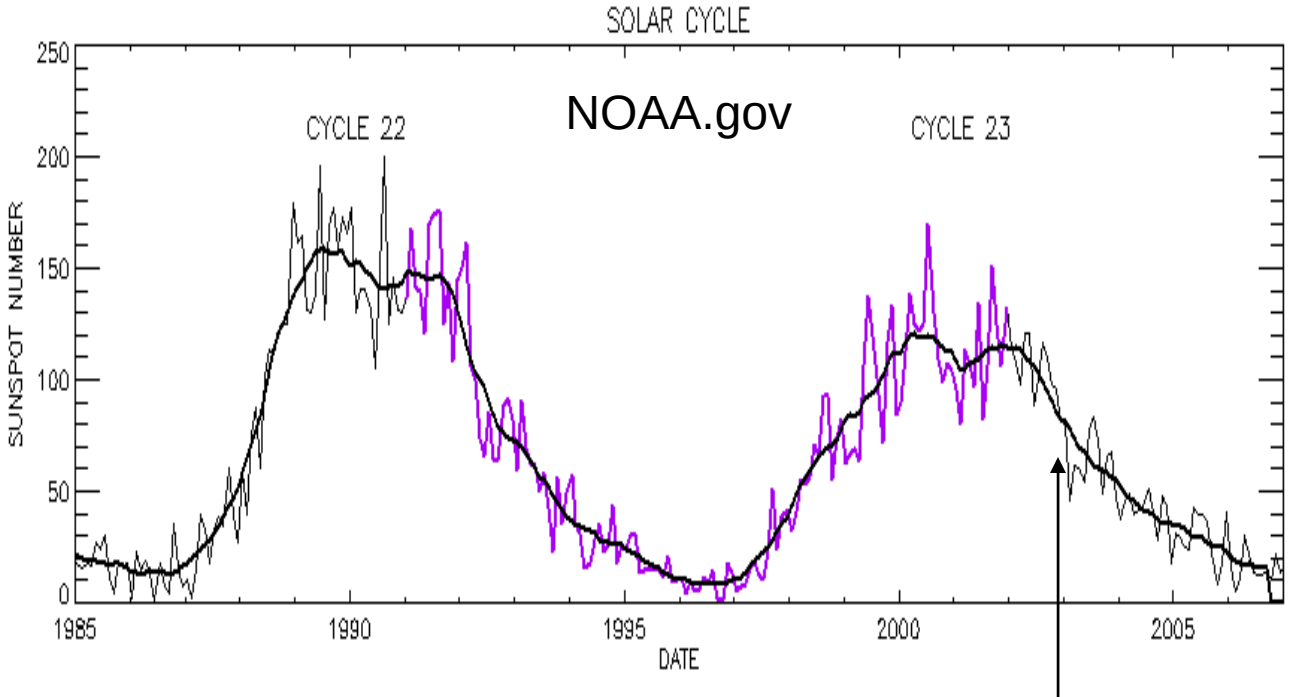


- **~6 degree temperature change since Nov ‘06**
- **Delta distance to Sun: 0.1 AU**

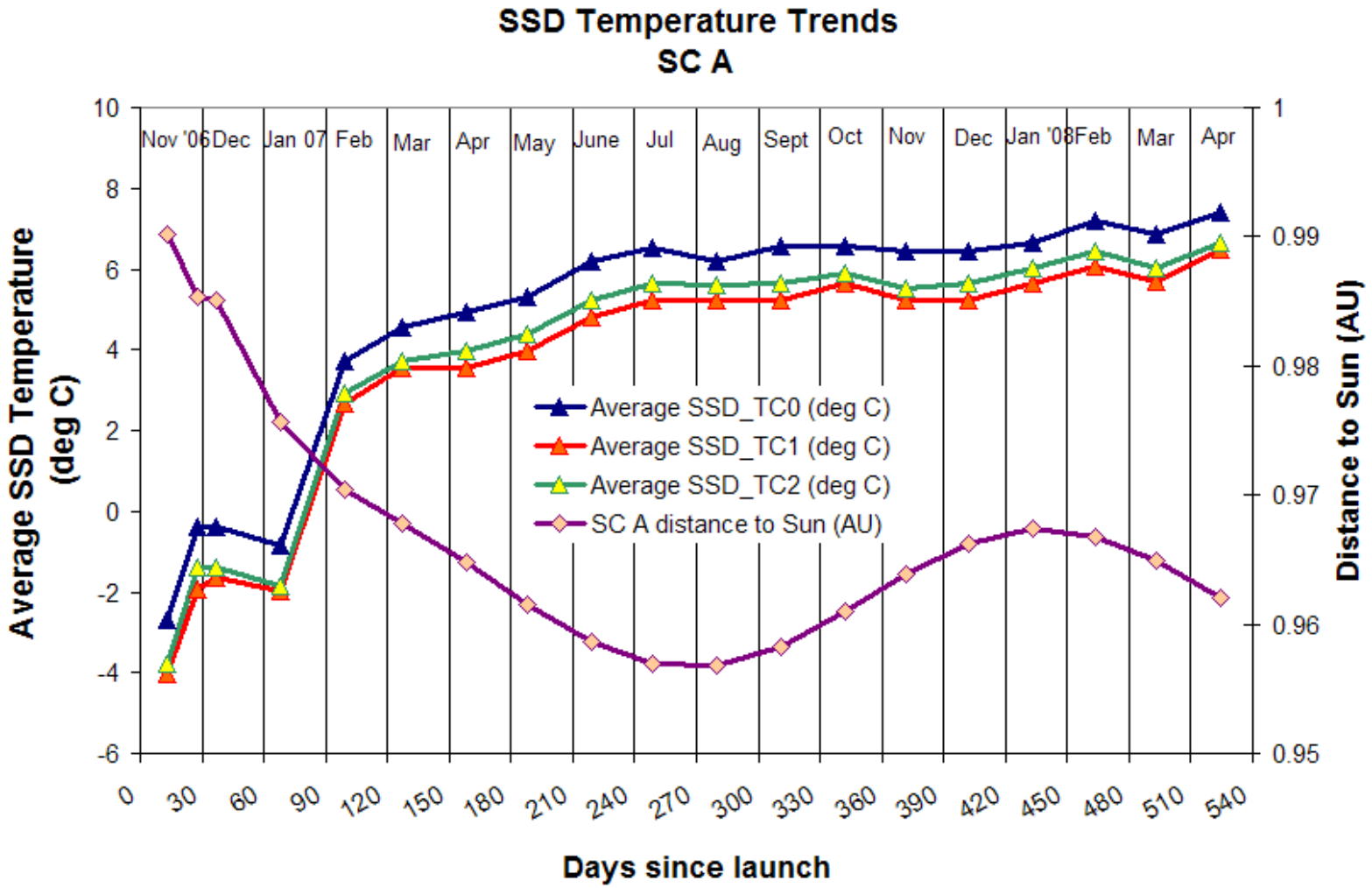
ACE Temperatures



- Increase in temperature is due to the degradation of the thermal blanket and not the solar cycle



SSD Temperatures since launch SC A



- **~11 degree temperature change since Nov ‘06**
- **Since January 2007 Delta distance to Sun 0.01 AU**
- **Exterior radiator**

Any questions?