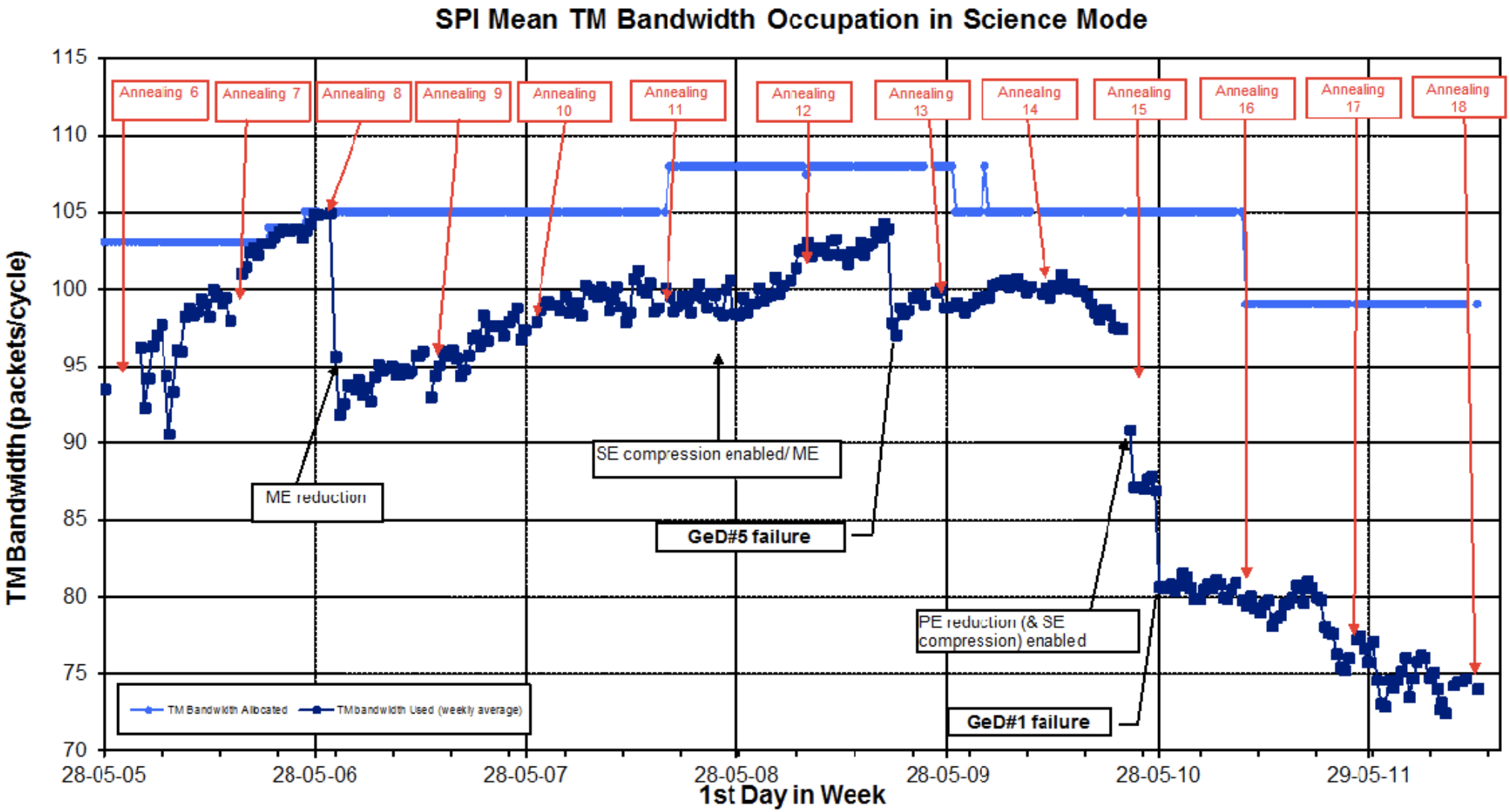
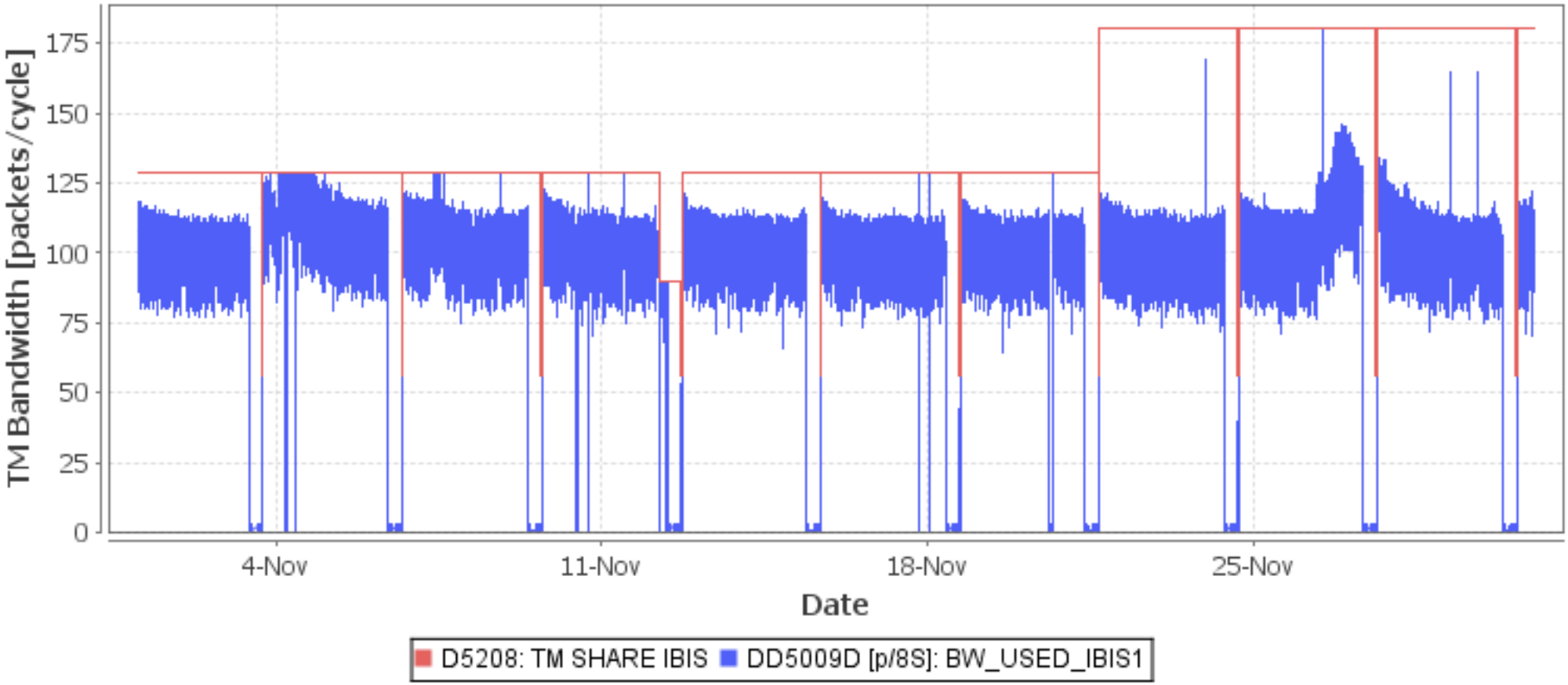

SPI Mean TM Bandwidth Occupation in Science Mode
TM Bandwidth (packets/cycle)
1st Day in Week
115
110
105
100
95
90
85
80
75
70
28-05-05
28-05-06
28-05-07
28-05-08
28-05-09
28-05-10
29-05-11
Annealing 6
Annealing 7
Annealing 8
Annealing 9
Annealing 10
Annealing 11
Annealing 12
Annealing 13
Annealing 14
Annealing 15
Annealing 16
Annealing 17
Annealing 18
ME reduction
SE compression enabled/ ME
GeD#5 failure
PE reduction (& SE compression) enabled
GeD#1 failure
TM Bandwidth Allocated
TM bandwidth Used (weekly average)


TM Bandwidth [packets/cycle]
175
150
125
100
75
50
25
0
4-Nov
11-Nov
18-Nov
25-Nov
Date
D5208: TM SHARE IBIS
DD5009D [p/8S]: BW_USED_IBIS1

- Perigee altitude currently at ~3300 km. Minimum of 2756.4 km was reached on 25 October 2011 – lowest value since revolution 3!
- No problems reported from instruments, but effects visible on solar arrays and startracker blemish pixels.
- Perigee altitude will improve again up to end 2015, but might be issue for long-term future.

- G. Bélanger has repeated analysis of variation concen-trating on recent years. Based on electron counts.
- Proposed finer steps not yet used, playing it safe.
- Ongoing effort MOC/ SOC to characterize behaviour.

- Steep increase in proton radiation correlates with downturn in solar array output.

- Star-tracker ‘blemish’ pixels increasing. Could create issues for closed-loop slews.
  First survey in August not fully conclusive. Next foreseen after eclipse season in February.