

# Data loggers summary

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Sept. 11, 2017

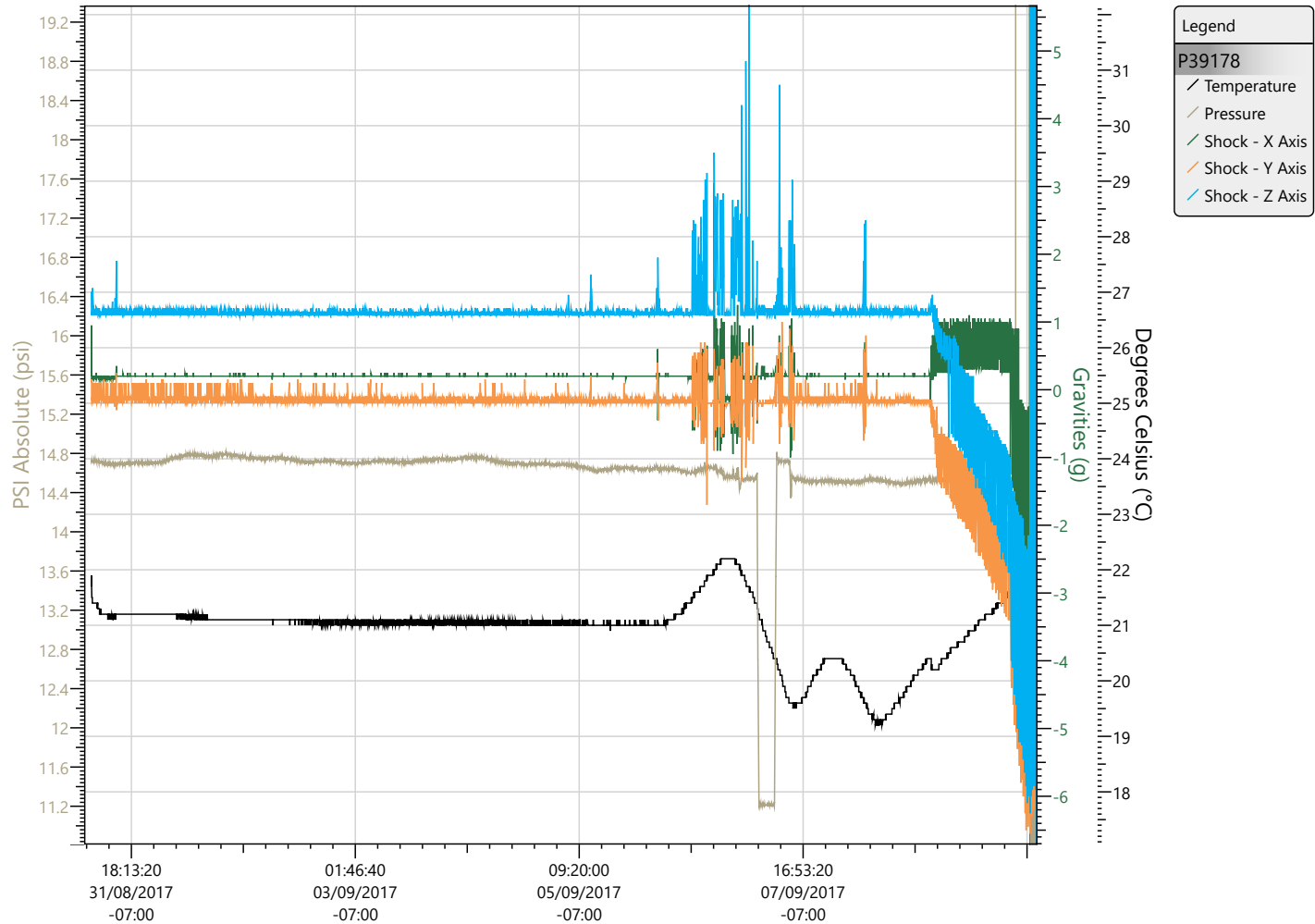
# Summary

- Data loggers active during 8/31 until 9/10 (small) 9/11 (large)
- Most quiet during flight as we've seen before
- Highest acceleration  $\sim 7g$
- Temperature and pressure seems reasonable
- Notes
  - Acceleration baseline not normalized
  - Large logger accelerator y-axis has a (is it 1g?) shift in the middle of time range (maybe tilted?)
  - Something happened with small accelerator values last day at SLAC (drifted away, battery power?)
  - Data available on confluence page:  
<https://confluence.slac.stanford.edu/display/hpsg/Aug+2017+SVT+shipping>

# Small data logger – full time range

P39178 lilshk HPS-small-fromJLab-Sep17

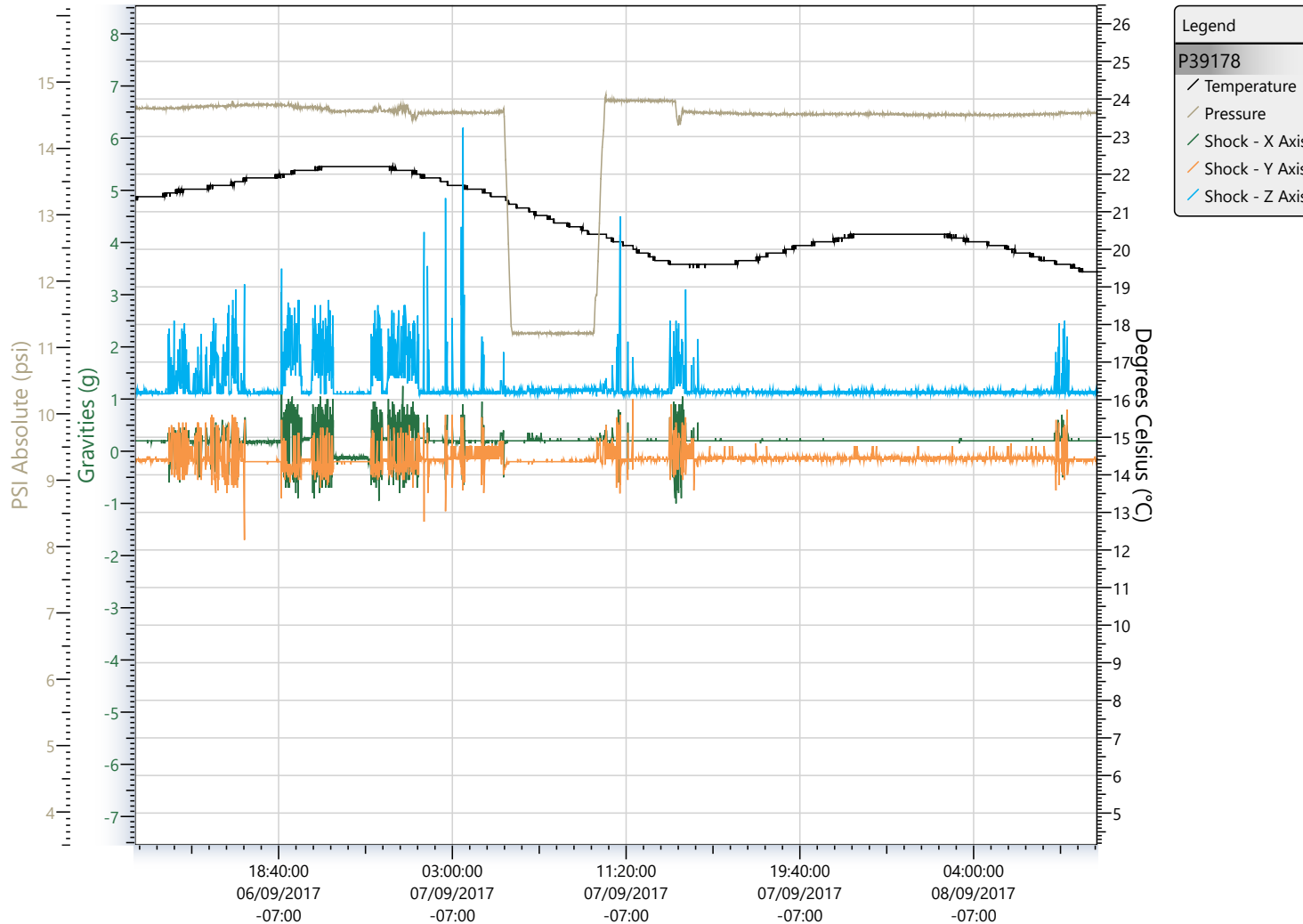
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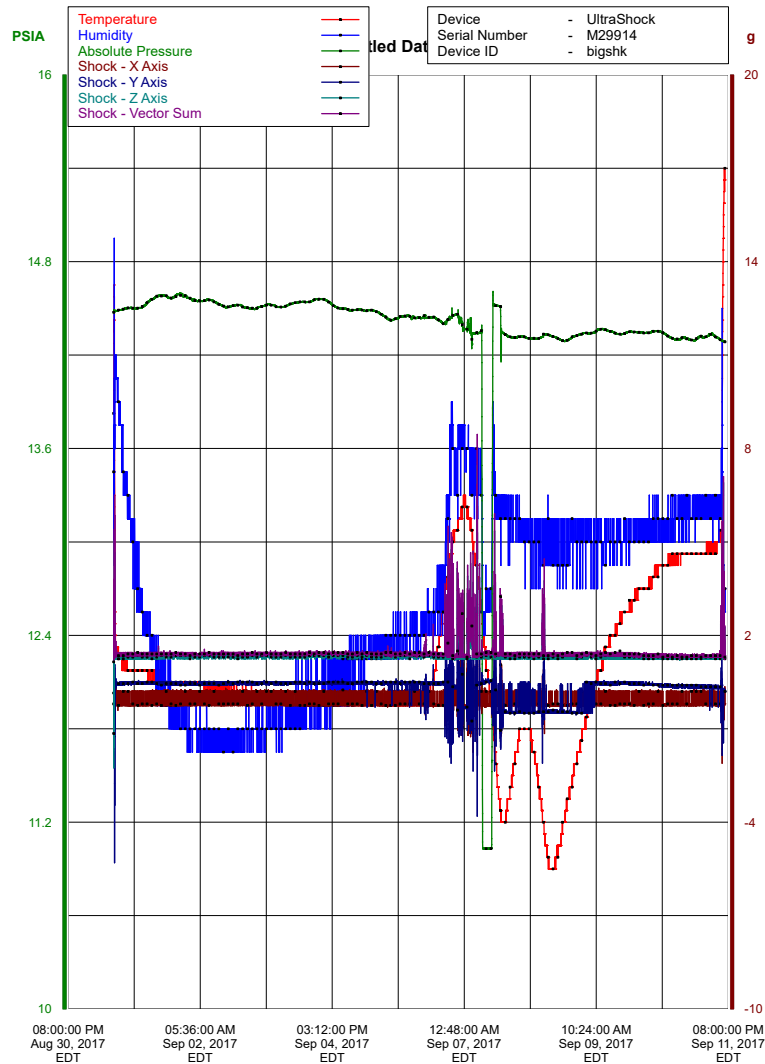
# Small data logger – zoomed in

P39178 lilshk HPS-small-fromJLab-Sep17

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# Large data logger – full time range



## Channel 1 - Temperature

Minimum	.....	20.2 °C
Maximum	.....	26.2 °C
Average	.....	21.90748 °C
Standard Deviation	.....	0.6906216 °C
Mean Kinetic Temperature	.....	21.93373 °C

## Channel 2 - Humidity

Minimum	.....	45.5 %RH
Maximum	.....	56.5 %RH
Average	.....	48.63175 %RH
Standard Deviation	.....	1.974093 %RH

## Channel 3 - Absolute Pressure

Minimum	.....	11.028 PSIA
Maximum	.....	14.609 PSIA
Average	.....	14.37768 PSIA
Standard Deviation	.....	0.4368792 PSIA

## Channel 4 - Shock - X Axis

Minimum	.....	-2.1 g
Maximum	.....	1.5 g
Average	.....	-0.14355 g
Standard Deviation	.....	0.2123477 g

## Channel 5 - Shock - Y Axis

Minimum	.....	-5.3 g
Maximum	.....	4.25 g
Average	.....	0.2956062 g
Standard Deviation	.....	0.3825562 g

## Channel 6 - Shock - Z Axis

Minimum	.....	-2.25 g
Maximum	.....	7.45 g
Average	.....	1.3349 g
Standard Deviation	.....	0.2498642 g

## Channel 7 - Shock - Vector Sum

Minimum	.....	1.15 g
Maximum	.....	8.45 g
Average	.....	1.4356 g
Standard Deviation	.....	0.2874511 g

# Large data logger – full time range

