

# Ring-Moon Systems Node Report

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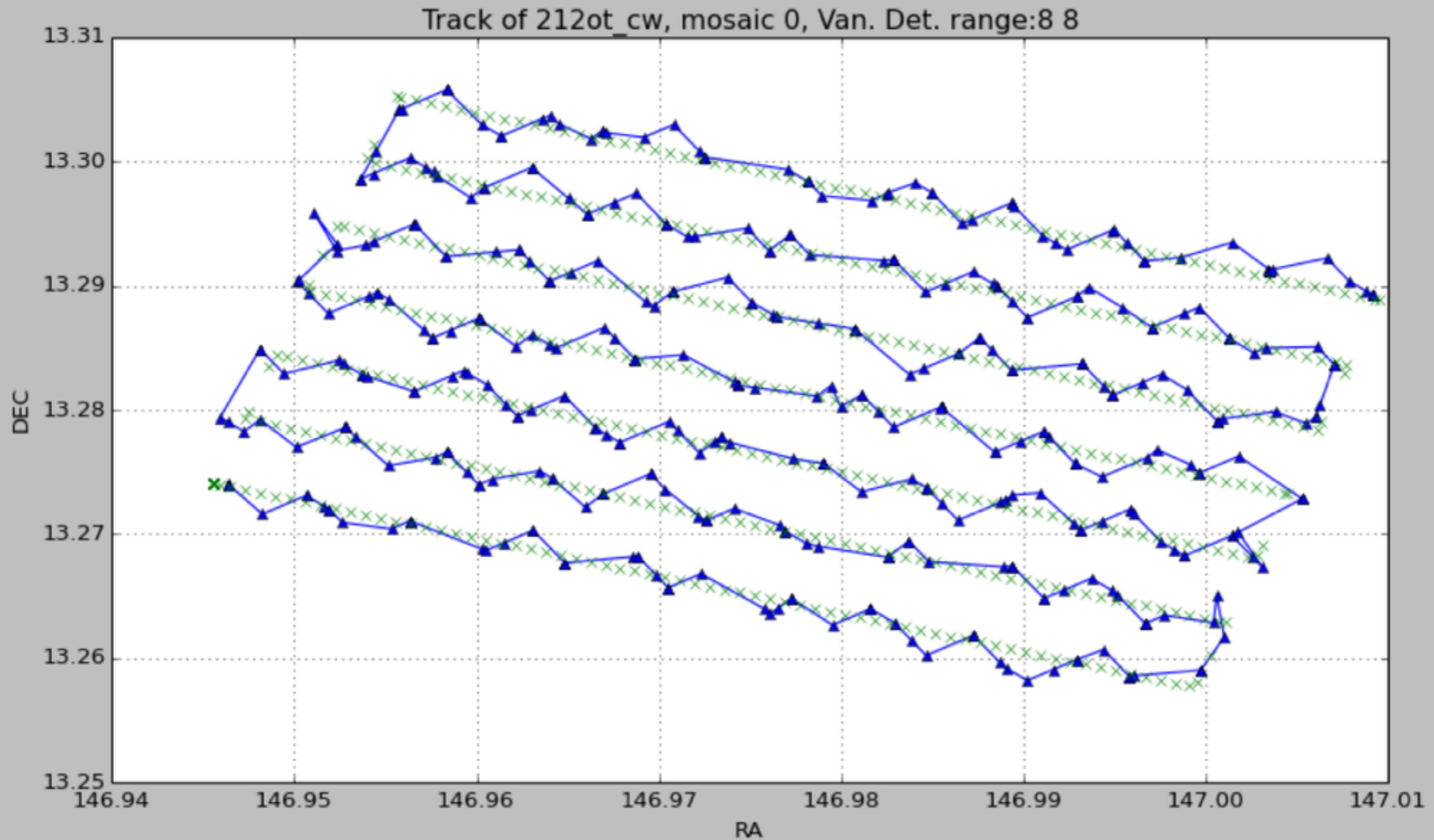
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Flagstaff, AZ, June 8, 2016

# Mission Archiving Notes

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- ▶ Cassini UVIS consistently delivers flawed, non-compliant products.
  - ▶ The latest INDEX.TAB file and several labels were repaired by us, not by the team.
- ▶ Cassini internal databases (e.g., ISS team, CIMS) contain unique information. How can PDS preserve their contents?
- ▶ Other Cassini Project deliverables have known errors that can and should be corrected.
  - ▶ Spacecraft Clock Kernels (SCLKs) have variable biases of -1 to 0 seconds.
  - ▶ Reconstructed C kernels are based on 16-bit telemetry arbitrarily truncated to 8 bits.

# Executed scan (green) vs. C kernel (blue)



# Data Management Plans

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- ▶ Direct impact on PDS RMS Node is minimal so far.
- ▶ We are being very selective about what data we agree to accept.
- ▶ However, among our professional colleagues, there is universal confusion regarding what is required.
  - ▶ SETI Institute is trying to decide whether a public, permanent data server is needed.
  - ▶ Cost to meet this requirement is nonzero.

# PDART Tasks

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- ▶ Our own HST-PDS4 pipeline development is proceeding.
- ▶ We are lead Node on two other selections in the first year.
- ▶ We are also supporting Voyager IRIS restoration efforts, for which Atmospheres Node is lead.
- ▶ No external deliveries have been received yet.

# FTE Estimates

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Task	FTEs	Notes
DDWG	0.2	Down from 0.5.
CCB	0.05–0.1	Occasionally a lot more.
Tools	1.4	
Archiving	1.8	Plus 0.8 funded by PDART.

# Top Three Concerns

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- ▶ The impact of new IT security requirements on our small team is substantial.
- ▶ The “FIPS 199” potential impact of a breach on our system was rated as **Low**.
- ▶ Nuance in our face-to-face IT assessment is being lost.
- ▶ E.g., instructions to “determine whether X is feasible” have morphed into instructions to “implement X”.
- ▶ OPUS is a victim of its success and is expanding beyond the capacity of a single developer.
  - ▶ We have no backup hardware for the OPUS server.
- ▶ Timing of funding has been an issue this year. Will it be resolved by next FY?

# Funding Status

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- ▶ Remainder of Year 1 funding arrived recently.