# SESI Presentation: SEA5

Daniel Jiang Mentor: Justin Boblitt

## Who Am I?

**Daniel Jiang** 

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B.A. Computer Science (expected 2019), University of California Berkeley





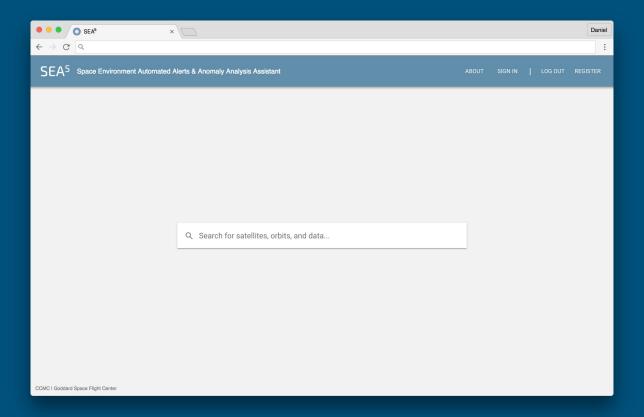
# What is SEA5?

- Space Environment Automated Alert & Anomaly Analysis Assistant (SEA<sup>5</sup>)
- Provide past, present, and predicted space environment information for specific missions, orbits, and userspecified locations throughout the heliosphere, geospace, and on the ground

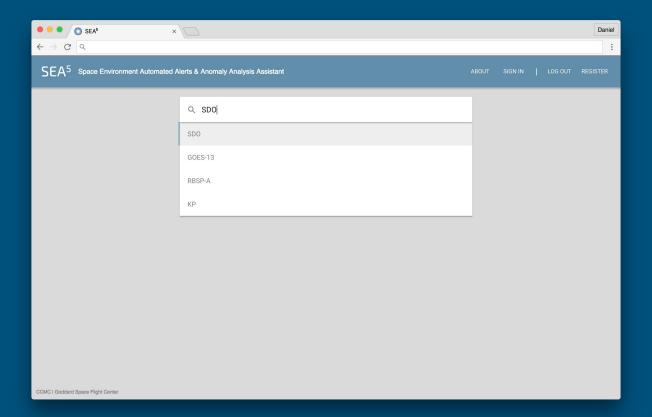
# What Have I Been Working On?

- Updating Google Polymer (a JavaScript library) from v0.5 to v1.5
- Validating and correcting hazard quotient calculations w/ Alex, Yihua, and Justin
- Working w/ Tyler and Justin to link SEA5 and Oort Cloud
- Updating the charting library to Plotly.js
  - Creating new 3D visualization features
- Improving the UI

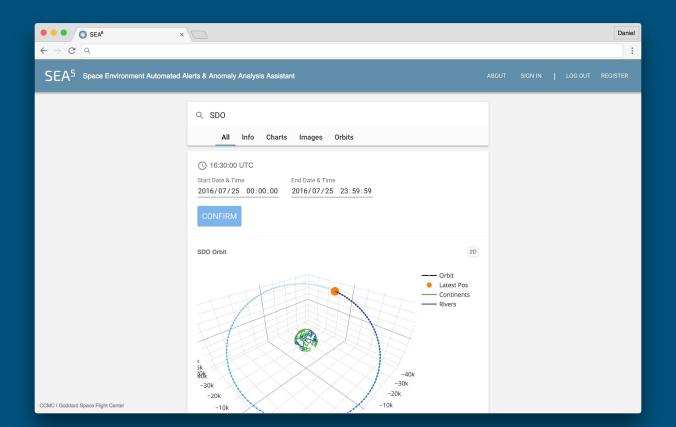
# The State of SEA5

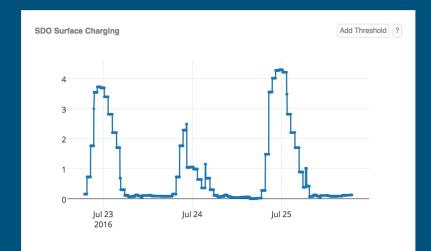


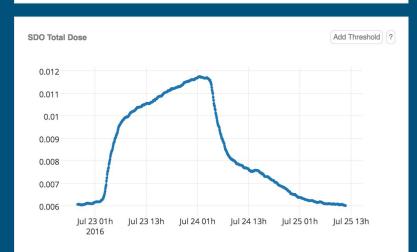
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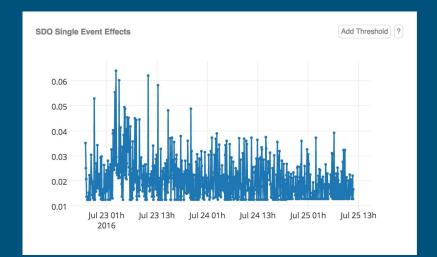


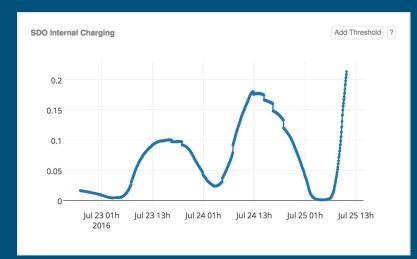
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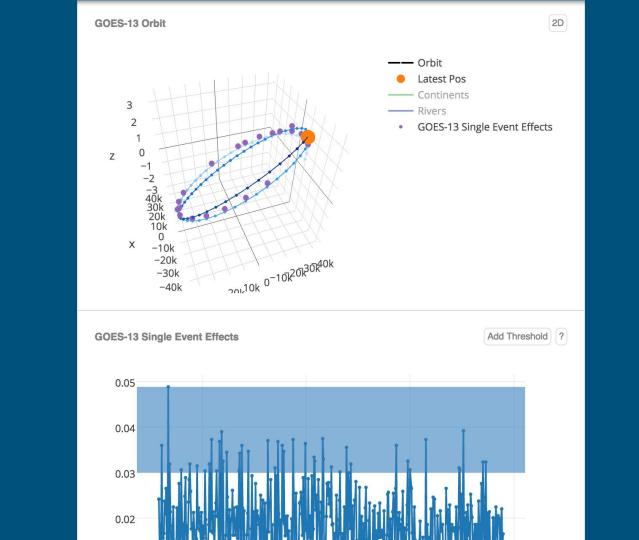












#### What's Next?

#### Next Milestone

- Link SEA5 and Oort Cloud
- Provide an initial catalog of geosynchronous satellites
- Cleanup UI
- Deploy SEA5

#### What's Next?

### Future Milestones

- Default thresholds and alerts
- Custom thresholds and alerts
- CME warnings
- Mars