

#### Cumulus: NASA Archives in the Cloud 2018 AGU

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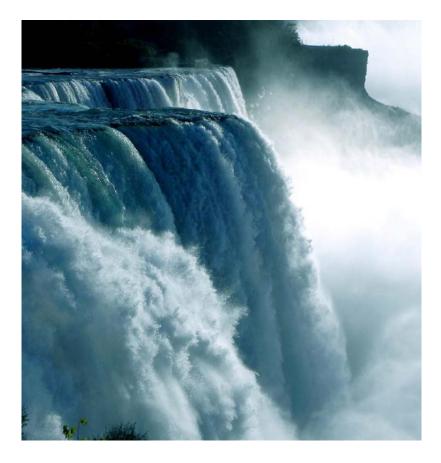
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### The Problem

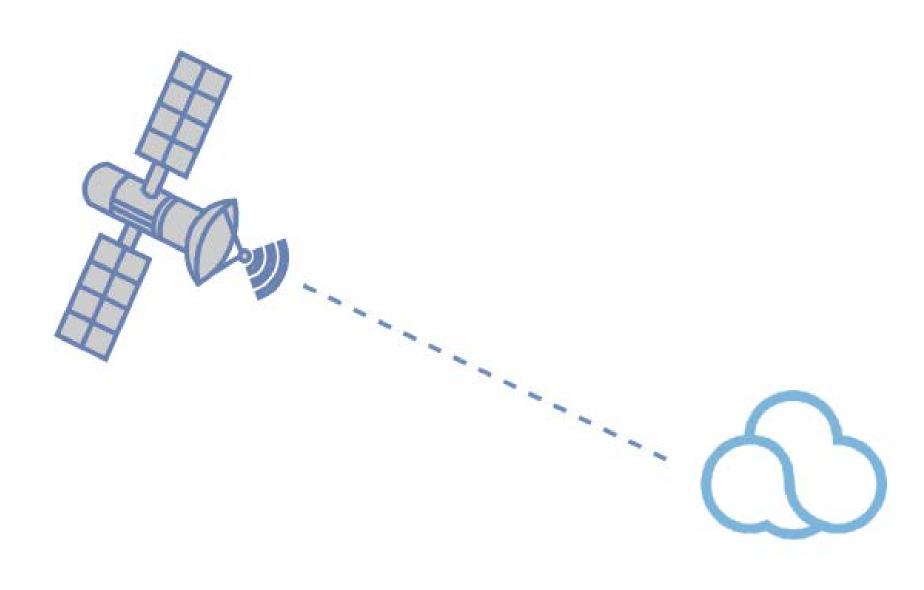




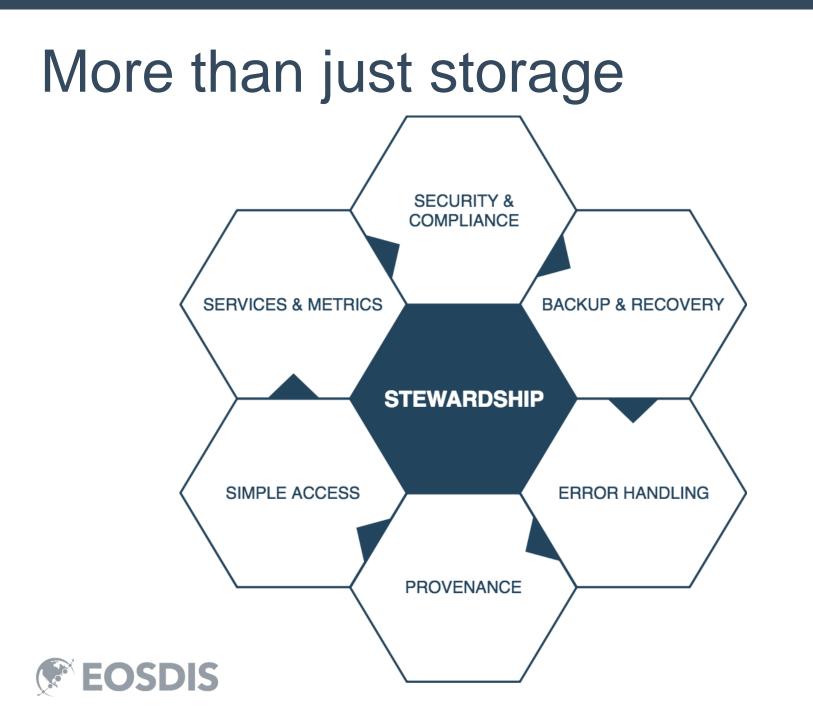










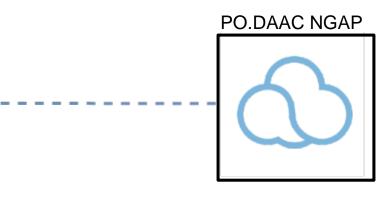


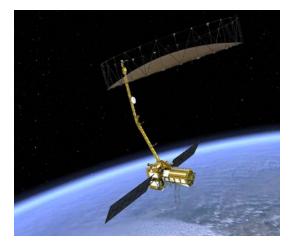


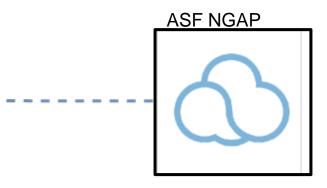




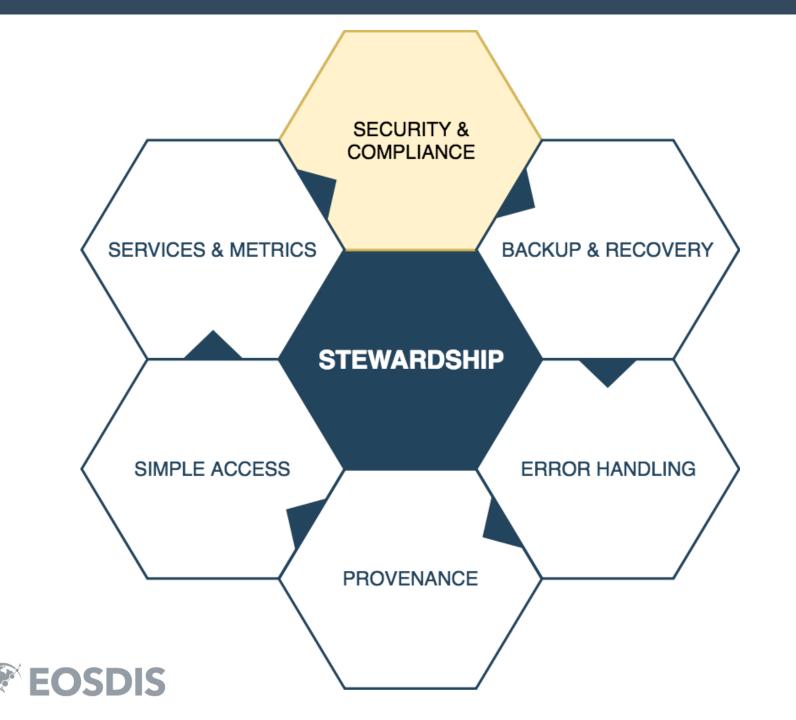




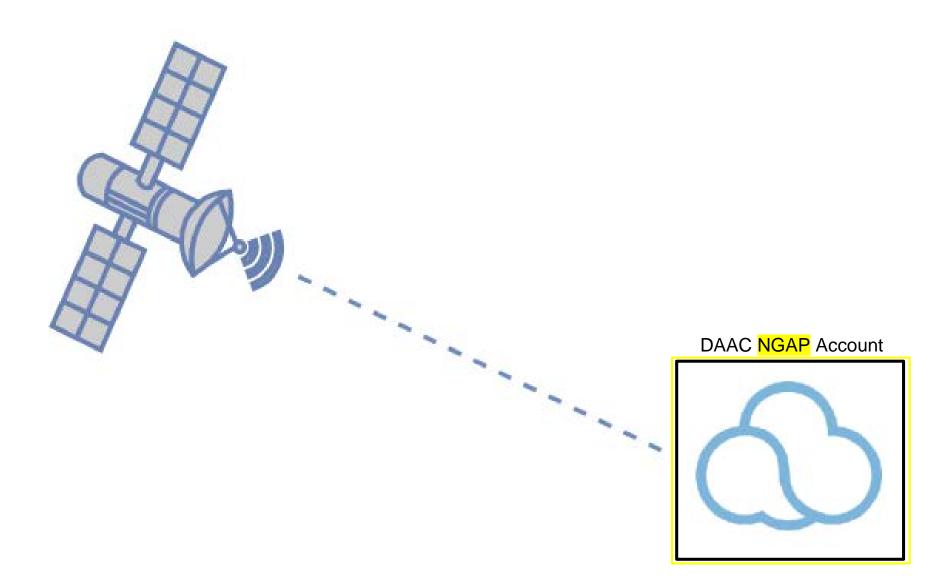








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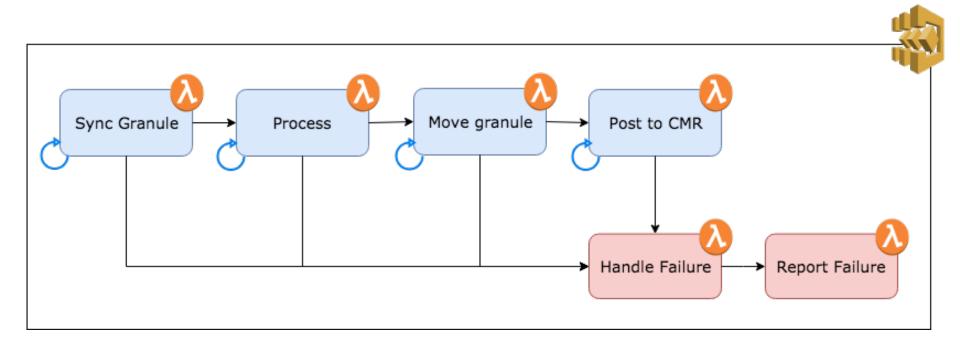






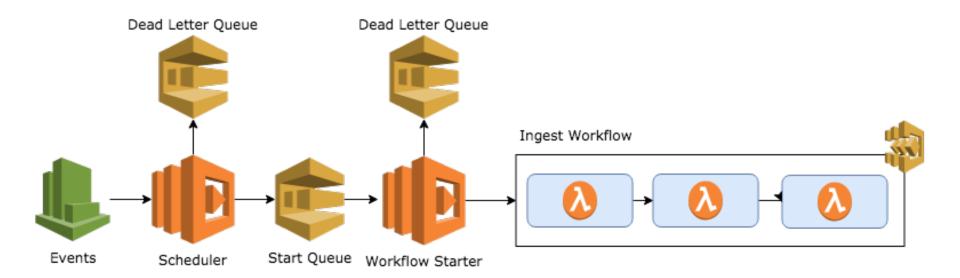


## **Dealing with Ingest Failures**



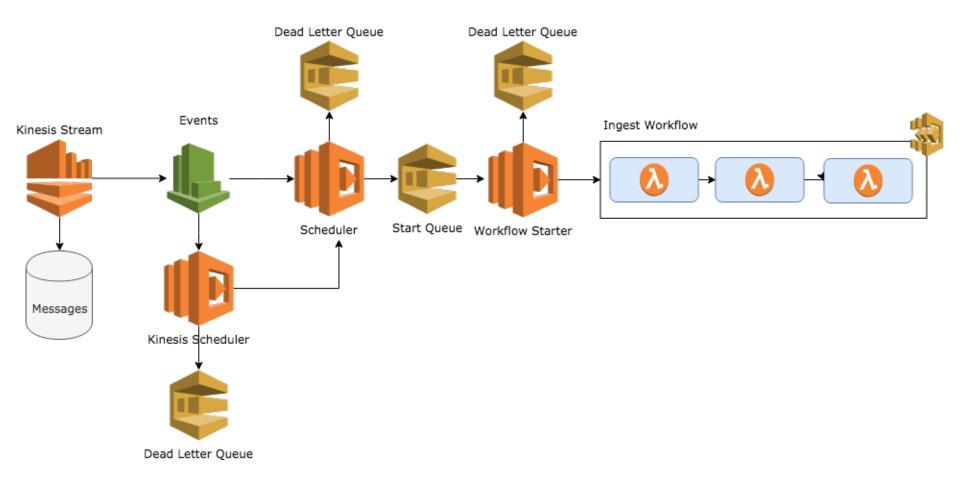


## Failures to Trigger Ingest

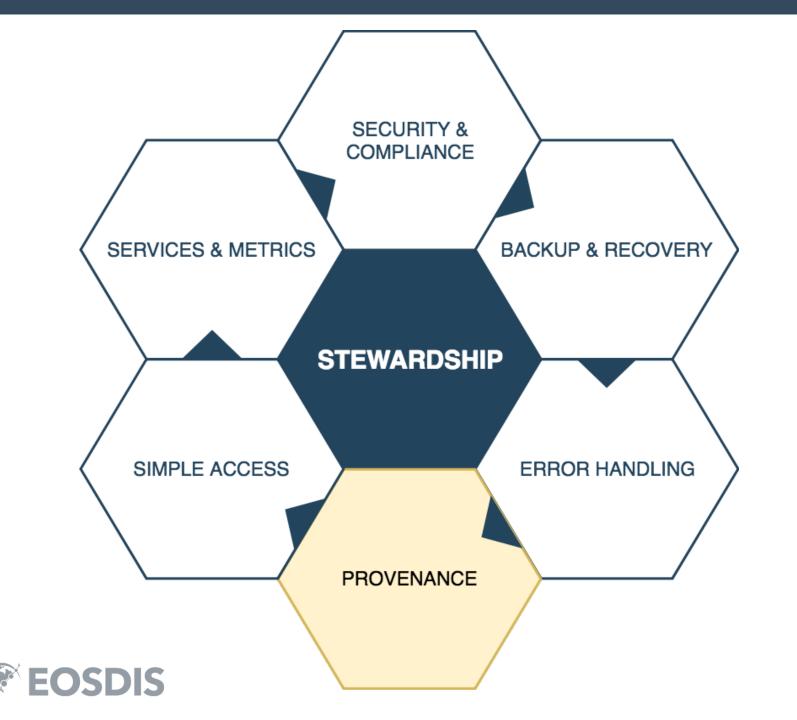




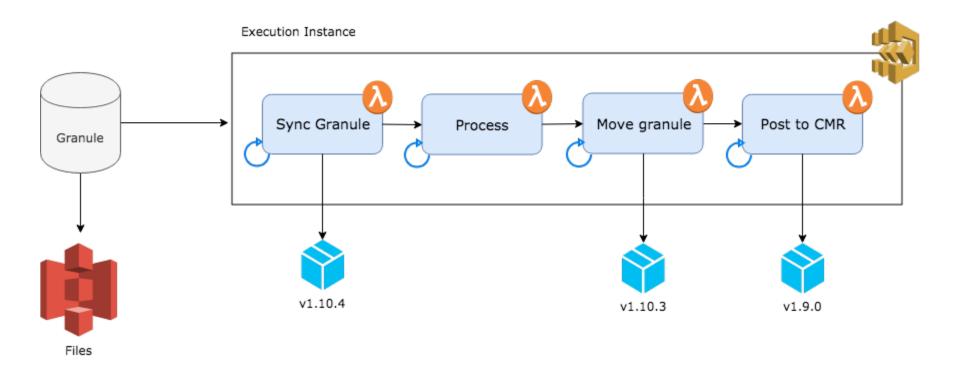
### **Kinesis Failures**



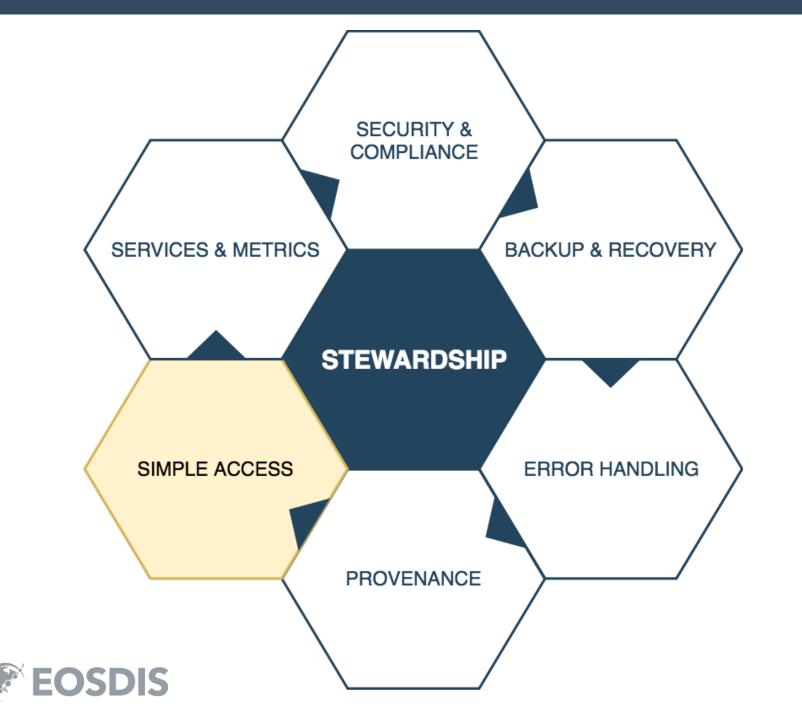


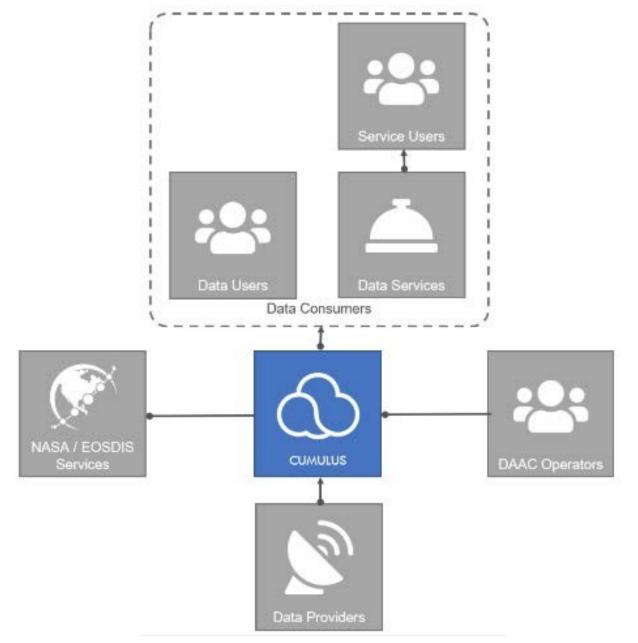


### Data Provenance











### **Operator Dashboard**

#### **CUMULUS** Dashboard

#### Updates







https://...

Direct Download

Discovery

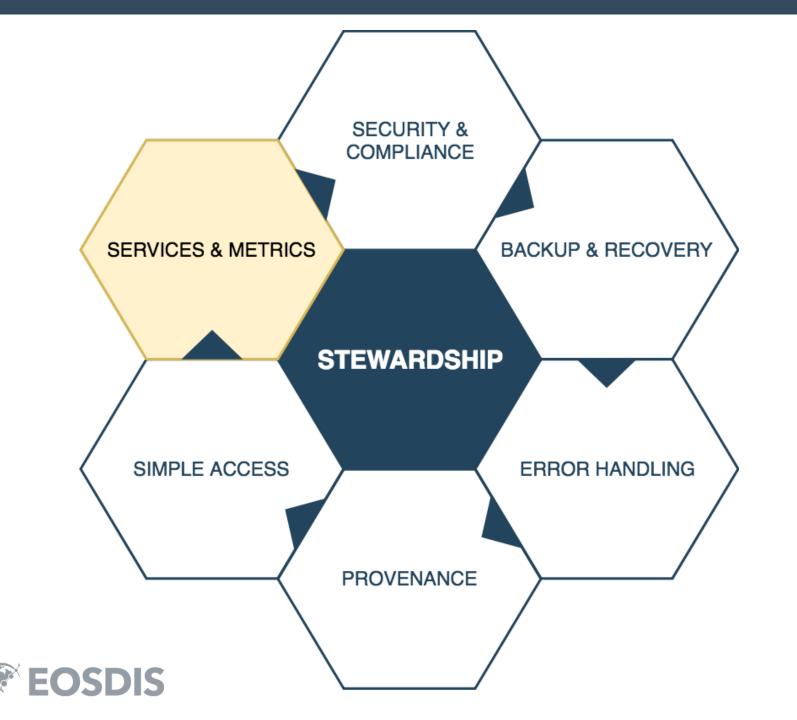
# W\*S GIBS OPeNDAP

Services



Direct S3 Access





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### **Granule Reconciliation**

#### **Reconciliation report**

Created	2018-11-01T19:39:11.633Z	Status	SUCCESS
OK file count	172		

#### Files only in DynamoDB (579)

GranuleId 🗘	Filename 🗘	Bucket 🗘	S3 Link 🌣
MOD09GQ.A9917737.KFw8Br.006.5000644002066	MOD09GQ.A9917737.KFw8Br.006.5000644002066.hdf	lf-protected	Link
MOD09GQ.A0007560.zuzuRq.006.0290148655705	MOD09GQ.A0007560.zuzuRq.006.0290148655705.hdf.met	lf-private	Link
Files only in S3 (1231)			
Filename 🗘		Bucket 🗘	S3 Link 🗘
TMI_correction_rain.txt		cumulus-data-shared	Link
MOD09GQ.A0023605gOahZ.006.8702444238062.hdf.met		If-private	Link



## Validation

#### Unit test and stack deployment

✓ # 1872.2	👶 🗉 eslint
✓ # 1872.3	🖓 💿 Unit tests except API
✓ # 1872.4	🖧 🗉 API unit tests
✓ # 1872.5	🖗 🗉 Deploy Integration Test Stack

#### ⊘ Integration tests

🗸 🛱 1872.6 🖓 🖻 Run integration test	S
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#### ⊘ Cleanup integration tests

✓ # 1872.7 🖓 🖾 Cleanup integration test	S
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### Come Find Us

Check us out on github!

https://github.com/nasa/cumulus



Read up

https://nasa.github.io/cumulus/



Use our packages

https://www.npmjs.com/org/cumulus



#### **Questions?**



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## Raytheon

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