UAF GI Research Computing Systems
Support for Alaska EPSCoR Fire & Ice Data Management

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October 4, 2019
Data Storage

- **galaga**
  - IBM TS3500 Tape Library
  - 7.2 PBs
  - 4 robotic grippers
  - 6 TS1140 drives
  - 2000 3592JC tapes
  - epscor snapshots

- **ursamajor**
  - CentOS 6.10
  - Versity 1.6.8
  - 307 TBs usable disk
  - epscor-storage
    - CentOS 7.7
    - 510 TBs usable disk
    - 20 disk slots still available
  - epscor-jbod
    - 307 TBs usable disk
  - iSCSI
  - bigdipper
    - CentOS 6.9
  - digdug
    - CentOS 7.5
    - Lustre 2.10.3
    - 307 TBs usable disk

- epscorportal virtual machine
  - CentOS 7.6
  - CKAN 2.8

- epscor1.gi
  - MS Windows Server 2016
- epscor2.gi
  - MS Windows Server 2016
- epscor3.gi
  - MS Windows Server 2016

- **chinook**
  - HPC cluster
  - CentOS 6.10
  - ClusterWare
    - 3 standard
    - login nodes
    - 2 data
    - transfer nodes
    - 106 standard
    - compute nodes
    - 2 GPU
    - compute nodes
    - 3 big memory
    - compute nodes
Data Processing

3x SuperServer 7049-TR tower workstations, rack mountable, from Silicon Mechanics
- Dual 4-core Intel Skylake processors
- 192GB DDR4 ECC memory
- 1.92TB Intel SSD for local scratch data
- NVIDIA GeForce RTX 2080

Software:
- MS Windows 2016 Server w/ Remote Desktop Services for up to 7 sessions
- hyperspectral processing proprietary apps, Matlab, ArcGIS, ...

Located in the Butrovich Computing Facility w/ direct, 10Gbps connect to RCS hosted EPSCoR storage. Annual OIT Service Level Agreement for rack space and Windows support.
Data Publishing, Sharing, Finding, Using

Prototype data portal based on CKAN 2.8: http://epscorportal.rcs.alaska.edu/