#### **DATA COLLECTION**

Transfer data from memory card to alternative storage in the field

Storage options:

SD card, personal workstation, external hard drive

Recommendation: Visually check your data on a laptop while still in the field

### **SHORT-TERM STORAGE**

This is working storage used while processing data

If available, place data where multiple users can access its storage Consider how to share data internally with collaborators

Storage options:

- Local (e.g., personal workstation, external hard drive)
- In-house network (e.g., network attached storage, lab cluster)
- Research Computing active storage
- External cloud active storage (e.g., Cyverse, Amazon S3)

Recommendation: Use the 3-2-1 backup rule

# LONG-TERM STORAGE

Consider what data levels to store

Catalogue data with established metadata and file-naming conventions, as this is the authoritative copy

Document data provenance

Storage options: Research Computing archive storage

- External cloud archive storage (see Public-facing)

Recommendation: After returning from field, immediately store LO data in long-term storage

## **DATA PROCESSING**

Server options:

- Local (e.g., in-house network, local workstation)
- Research Computing (e.g., High Performance Computing server)
- External cloud computing (e.g., Cyverse, AWS, Azure, Agisoft cloud)

Recommendation: Create code locally and test on a subset of data, then send to research or cloud computing to process entire dataset

## **PUBLIC-FACING**

Create DOI anchor to public-facing archive

Consider what data level products to make available with publication

Storage options:

Public archive (e.g., Open Science Framework, DataOne, Cyverse, NASA Distributed Active Archive Centers, Open Topography, Amazon Glacier)

Recommendation: Some public-facing storage lasts as long as its funding, so it is recommended to have an alternative long-term storage option in addition