

Field Collection to Data: keeping track of specimens

A scenic view of a mountain range. In the foreground, a steep, rocky ridge is covered with dense, green forest. The ridge slopes down towards the left, leading into a valley. In the background, a series of rolling hills and mountains stretch across the horizon, their colors fading from dark green to a hazy blue. The sky is a clear, pale blue with a few wispy clouds near the horizon.

Shelley James, Robert Whitton,
Richard Pyle

The Scenario

Papua New Guinea botanical collecting expedition

> 250 flowering and fruiting taxa/specimens

3+ voucher specimens

1 tissue sample

Alcohol collection fruits, flowers

Living collection

Notebook entry

10+ images (RAW + JPG)

Field collection



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- SAJ 1812



Back in camp



If possible:
Begin data entry
Download and sort images

Back in the office

- Specimens dried, sorted, duplicates shipped (annotation on newspaper)
- Data entry into field collections database
- Data imported into BISH specimen database
- BISH sheet numbers & barcode
- Label generation, mounting, imaging, filing

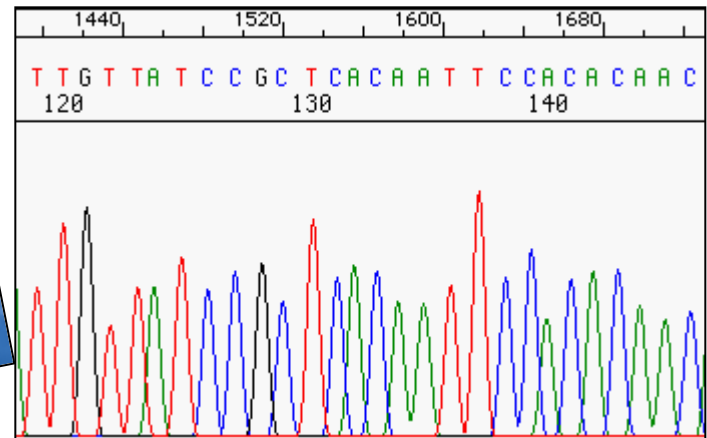


Field	Value	Field	Value	Field	Value
1		2		3	
4		5		6	
7		8		9	
10		11		12	
13		14		15	
16		17		18	
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97		98		99	
100		101		102	



In the lab

- Tissue sample – removed from field packets
- Assigned PCMB number – linked to BISH voucher
- Sample subdivided and gifted
- Extracted DNA
- Other products
- Data – in house and submitted to Genbank



Tracking!

- SAJ field number – the main link
- Accession number for expedition
- BISH number
- PCMB number
- Field images, digitized herbarium voucher
- Genbank numbers
- Other duplicate specimen numbering systems
- etc.

The future using QR codes and GUIDs?

Locality (incl. state/prov)
WNC, MS
Along Sangre de Cristo

Lat. T. 28°52' N 103° W	Long. W. 103° 52' E 103° W	Error	6	m
Frequency	Aspect			
Habitat (only for herbarium species)	GPS			
	<input checked="" type="checkbox"/> WGS84 (PODAS4)			
	<input type="checkbox"/> Other			

Habit (bark, wood) *Red oak, oak leaf, oak leaf*

Habit (leaves) *Red oak leaf, oak leaf*

Florets/Soil

Fruits

Notes/Local names

Field det. *Savigny's dogwood (10/11)*

Collector *SAJ* Date *10/11/2017*

Collection team *SAJ, Peter* No. *SAJ 1817*

SAJ 1817

ONA
Images
Seeds
Live coll.
Alcohol
Not pressed
Unicate



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