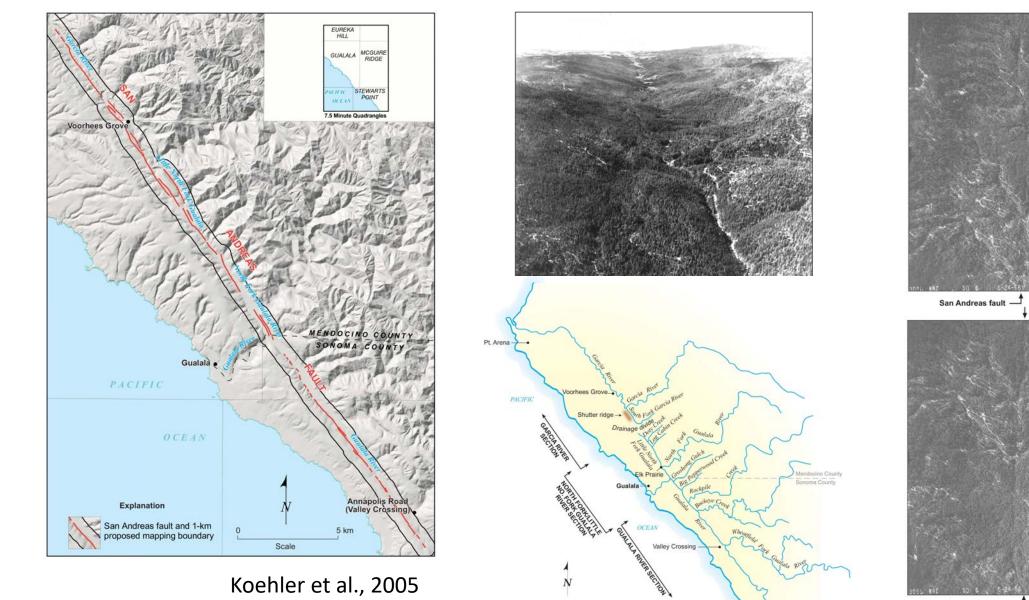
Mapping tectonic faults from geomorphology



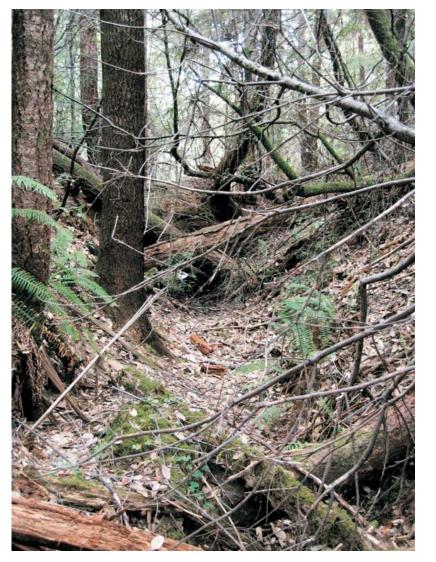
Strike-slip faults: Mapping examples from Alaska and N. California February 10, 2022

San Andreas fault, northern California



Scale





Linear trough and uphill facing scarp

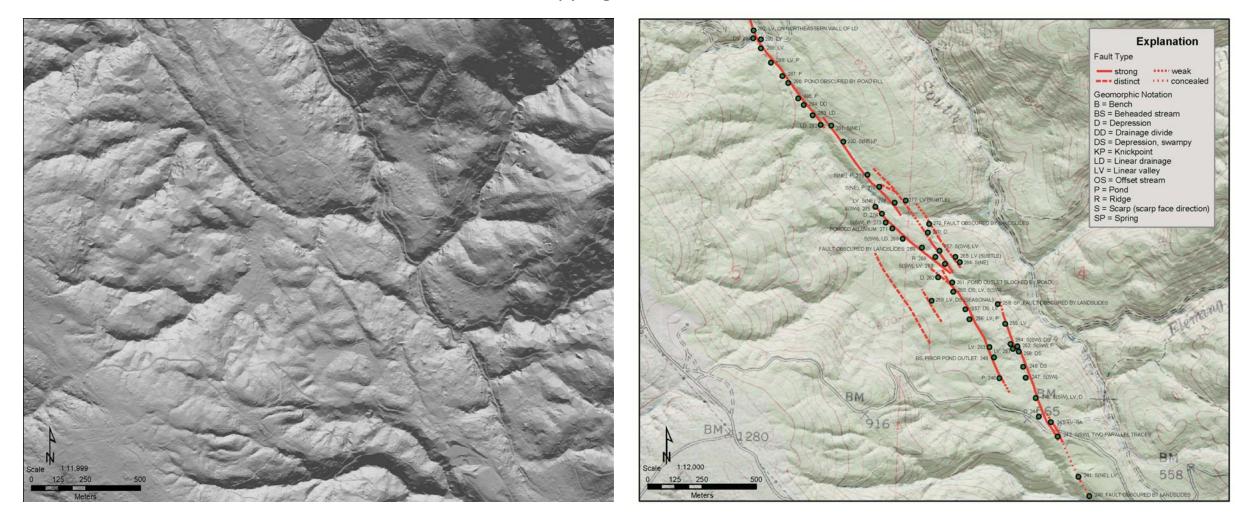
Table 1. Geomorphic Symbol Codes used in Map Compilation

Geomorphic Feature	Symbol
Scarp (northeast facing)	s (NE)
Scarp (southwest facing)	s (SW)
Pond	р
wampy depression	ds
Dry linear depression or swale	d
addle	sa
pring	sp
Linear valley	lv
inear drainage	ld
wale	SW
inear break in slope	bs
ench	b
Tectonic ridge	r
tream knickpoint	kp
/egetation lineament	v
Drainage divide	dd
Offset stream channel	OS
Beheaded or abandoned stream channel	bs
eflected stream	ds
irated channel	pc

Keeping track of features using site numbers

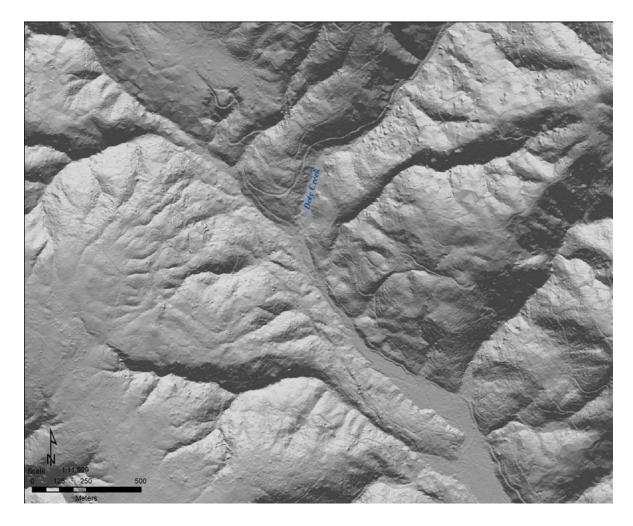
Location	Geomorphic	Site Number
	Feature	
\sim 3 km south of Annapolis	Ponds and swampy	1, 2, 6, 8, 11, 12, 16, 21, 22, 23, 24, 26, 28, 30, 31,
Road to Buckeye Creek	bogs	33, 35, 39, 45, 47, 50, 59, 70, 72, 74, 75, 79, 81
\sim 3 km south of Annapolis	Scarps	36, 40, 42, 48, 49, 52, 54, 61, 77, 86, 87, 90, 92,
Road to Buckeye Creek		94
\sim 3 km south of Annapolis	Offset streams and	3, 4, 5, 7, 9, 10, 20, 27, 32, 34, 55, 56, 64, 69, 71,
Road to Buckeye Creek	beheaded channels	84, 85, 93
Buckeye Creek to Big	Ponds and swampy	96, 99, 103, 110, 119, 120, 137
Pepperwood Creek	depressions	
Buckeye Creek to Big	Scarps	97, 99, 101, 102, 104, 110, 115, 122, 123, 124,
Pepperwood Creek	~	126, 129, 134, 142
Buckeye Creek to Big	Offset streams and	116, 118, 125, 136, 142, 144
Pepperwood Creek	beheaded channels	

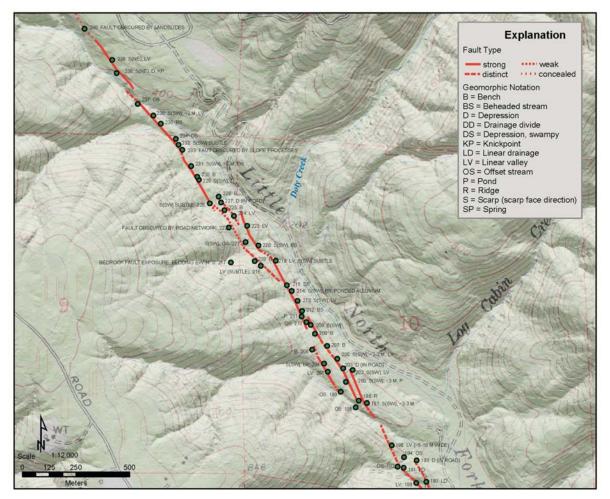
Lidar and field mapping, northern San Andreas fault



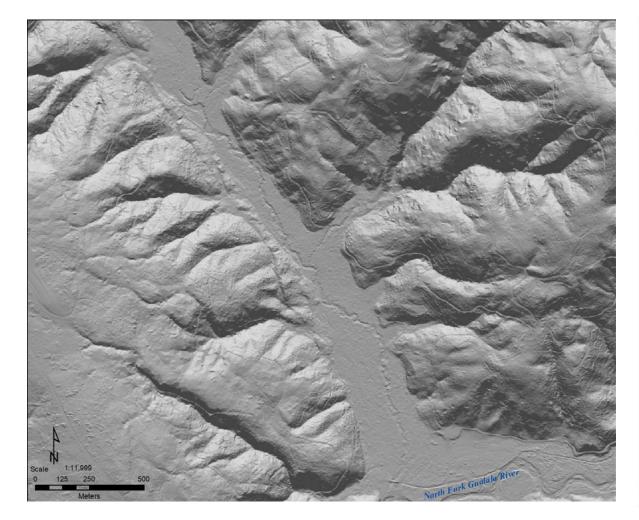


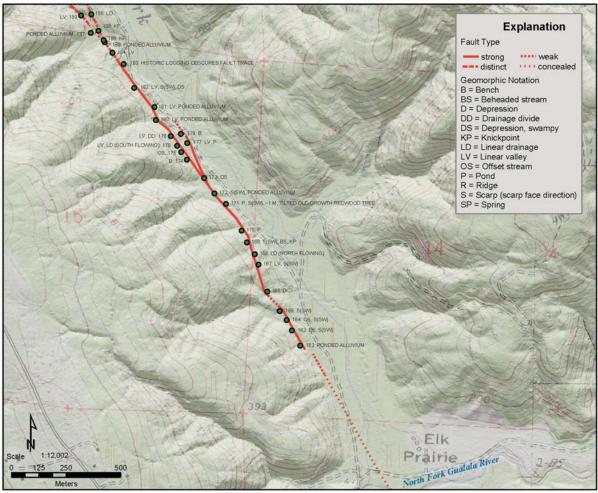
Lidar and field mapping, northern San Andreas fault

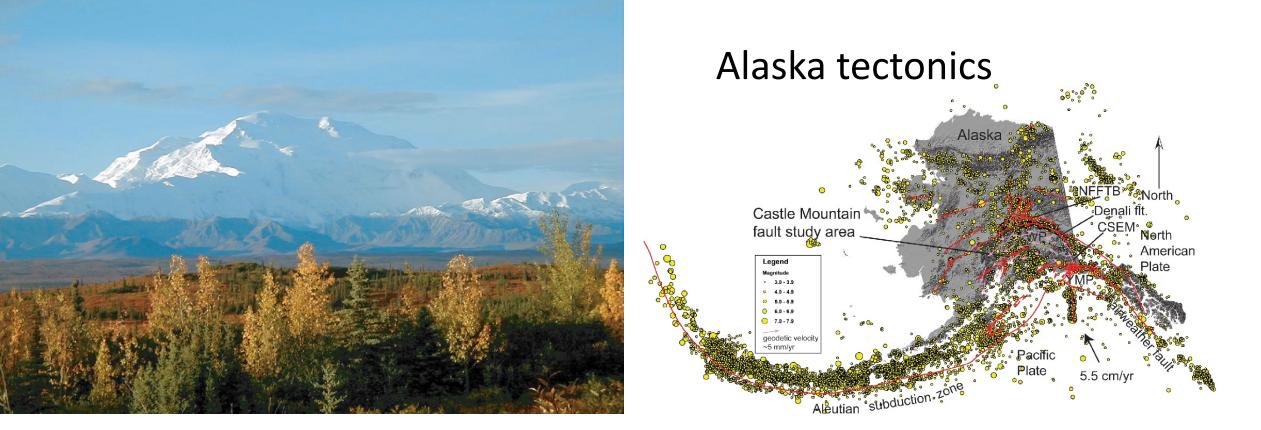


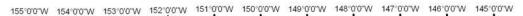


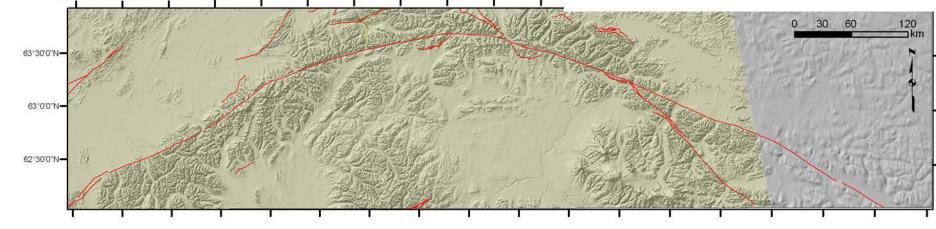
Lidar and field mapping, northern San Andreas fault



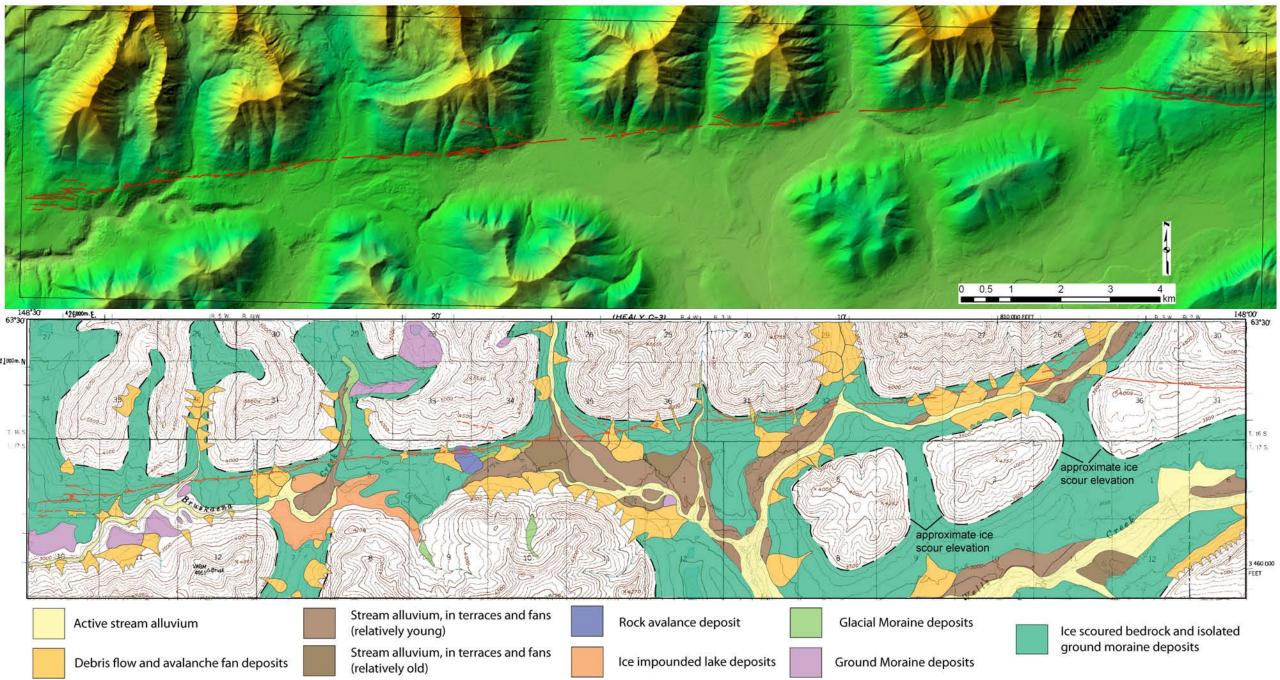


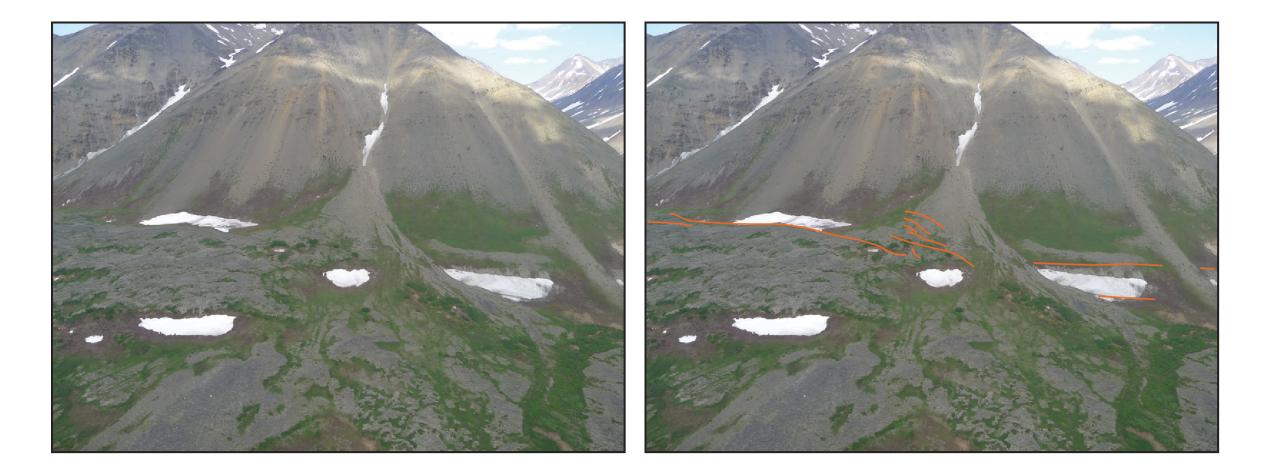




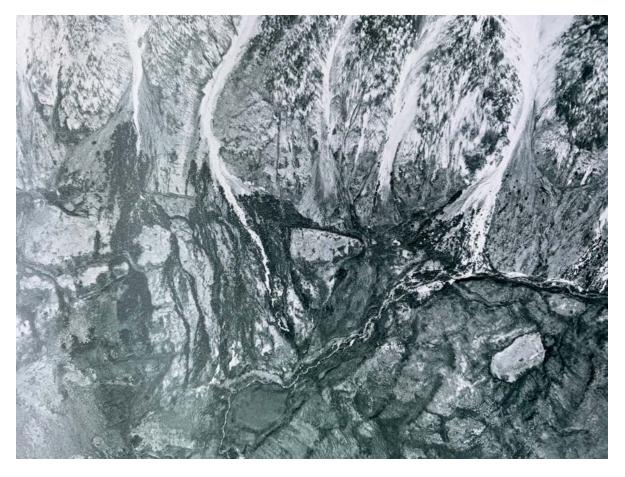


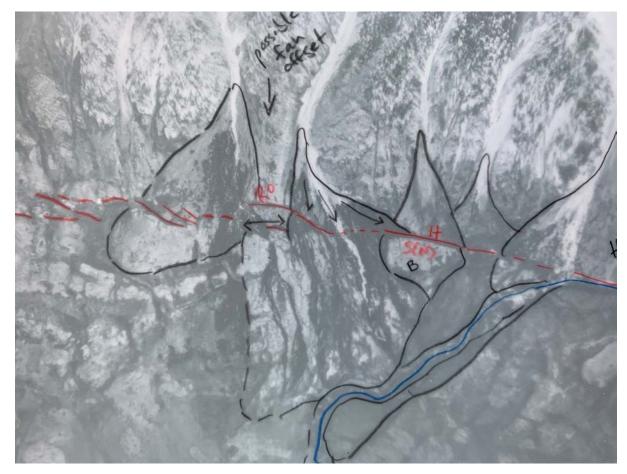
IfSAR and Quaternary surficial mapping

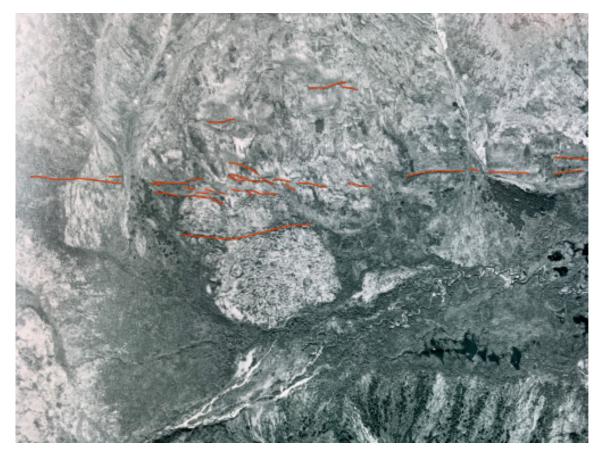




Air photo mapping

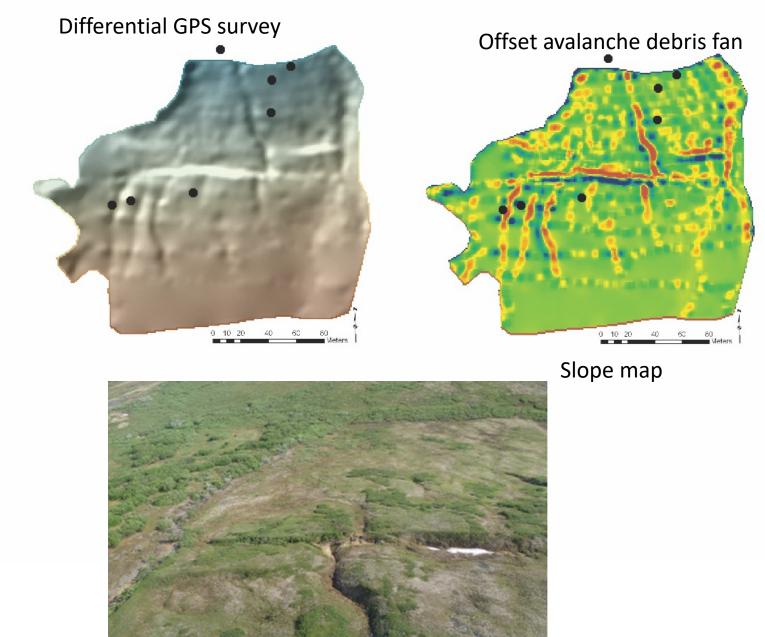






Air photo mapping

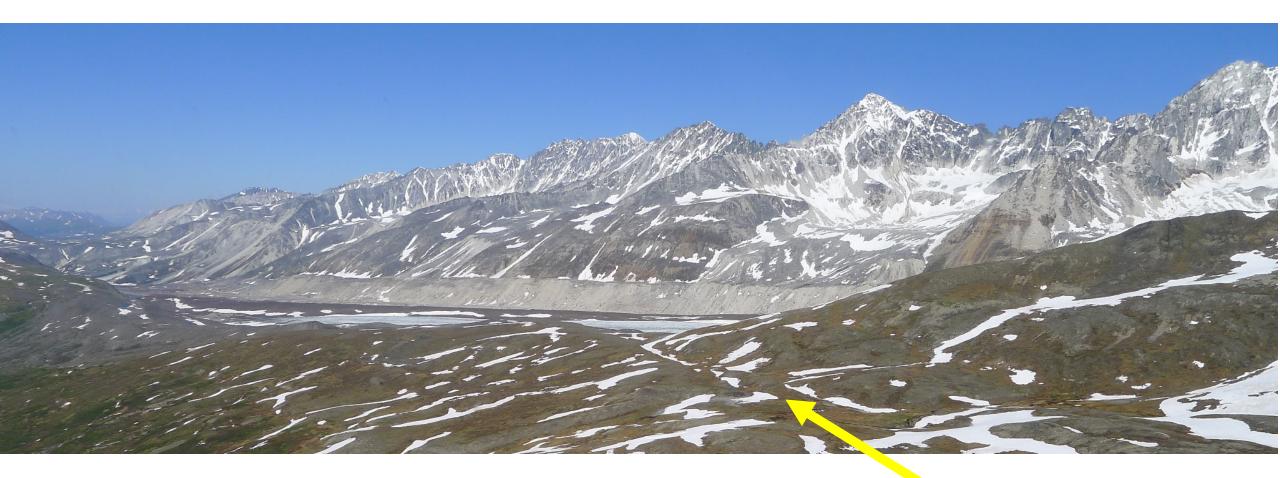






1:24,000 scale air photo

Denali fault

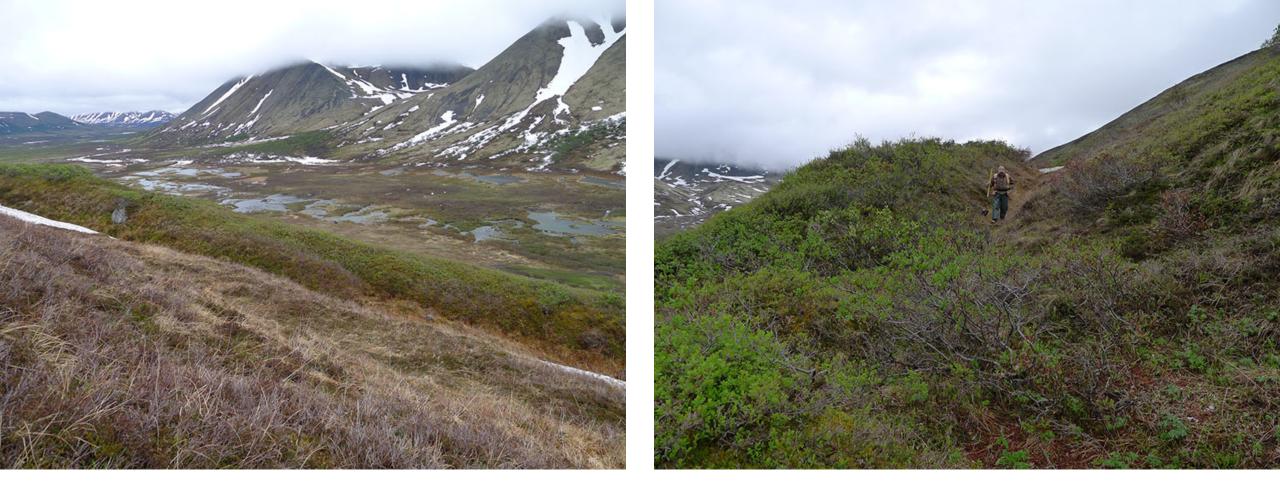


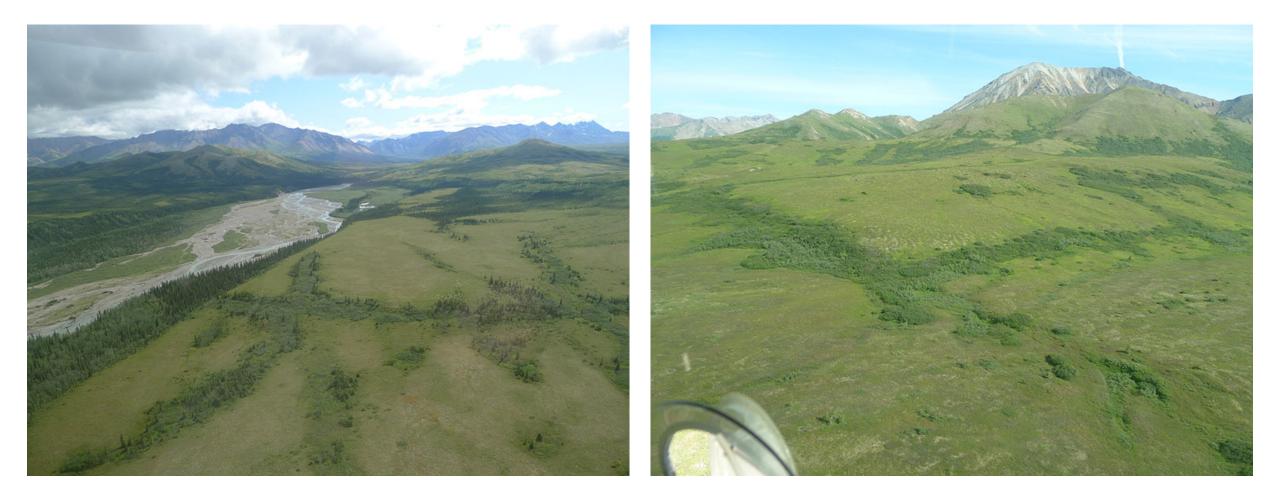
Linear trough cutting across glacially scoured bedrock saddle















Denali fault, Parks Highway gas pipeline crossing

