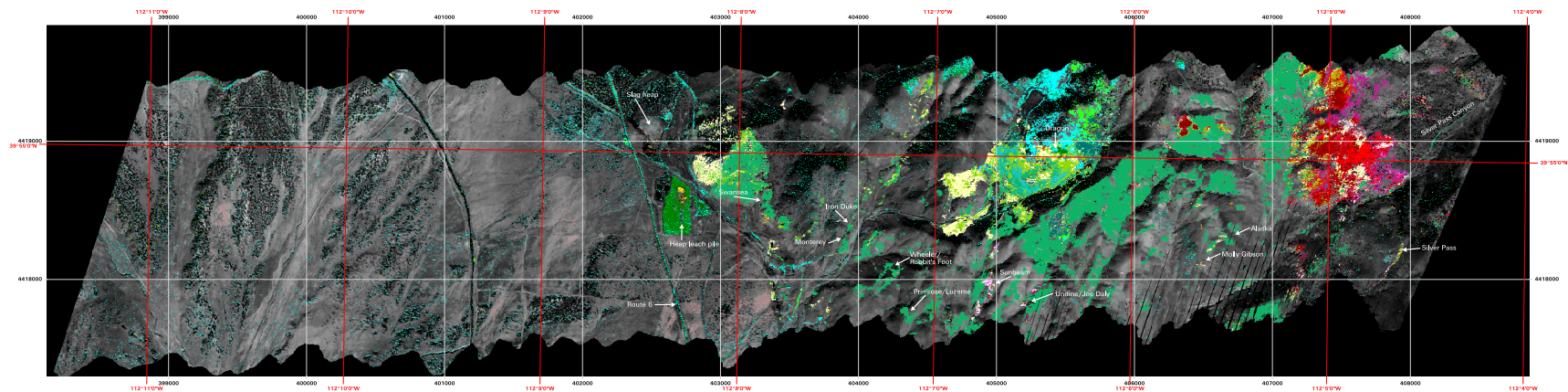




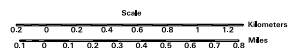
Tintic Mining District, Utah and Juab Counties, Utah

Map of clay, carbonate, sulfate, and mica minerals produced from low-altitude AVIRIS imagery



Low-altitude AVIRIS flightline data:

- flightline designation: 99S101B01p02_u04
- acquisition date: October 18, 1999
- altitude of Twin Otter platform: 17,500 feet
- ground speed: 85.5 knots
- geocorrected pixel size: 3 m



UTM Projection
Zone 12
Clarke 1866 Spheroid
NAD27 Datum



Explanation for low-altitude AVIRIS mapping clay, carbonate, sulfate, and mica			
Kaolinite Group Minerals		Sulfate Minerals	
kaolinite (well-crystallized)	kaolinite	anhydrite	anhydrite
kaolinite (poorly crystallized)	kaolinite	gypsum	gypsum
kaolinite + illite/smectite	kaolinite	gypsum + kaolinite	gypsum + kaolinite
illite/smectite	illite/smectite	gypsum + pyrophyllite	gypsum + pyrophyllite
pyrophyllite	pyrophyllite	gypsum + pyrophyllite + mica	gypsum + pyrophyllite + mica
kaolinite + pyrophyllite	kaolinite + pyrophyllite		
Carbonate Minerals		Sulfate Group Minerals	
calcite	calcite	high-Al illite/smectite	high-Al illite/smectite
calcite + muscovite	calcite + muscovite	medium-Al illite/smectite	medium-Al illite/smectite
calcite + dolomite	calcite + dolomite	low-Al + Fe-rich illite/smectite	low-Al + Fe-rich illite/smectite
calcite + kaolinite	calcite + kaolinite	illite/smectite + pyrophyllite	illite/smectite + pyrophyllite
		or kaolinite	or kaolinite
		montmorillonite	montmorillonite