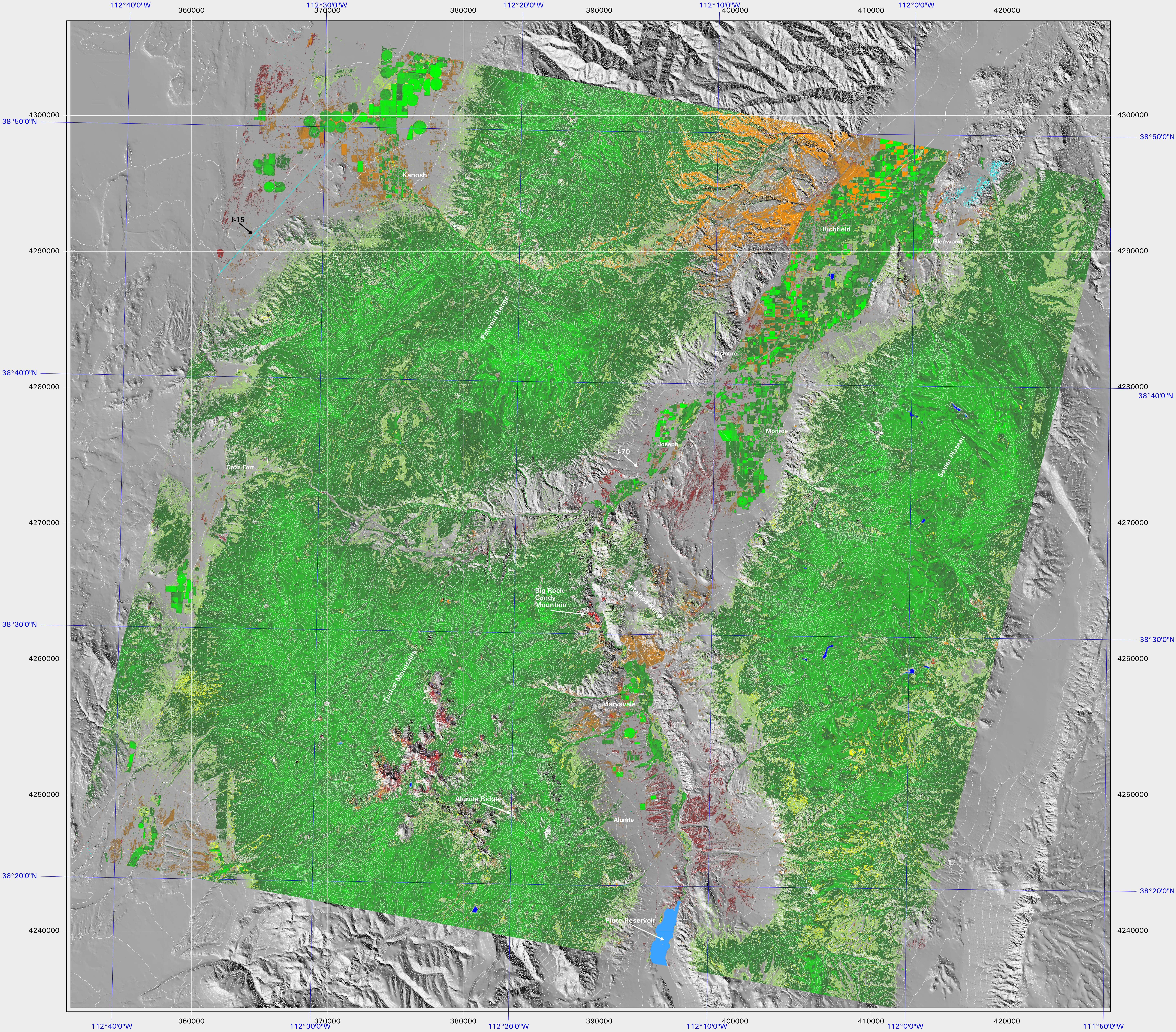
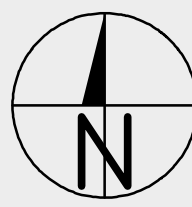
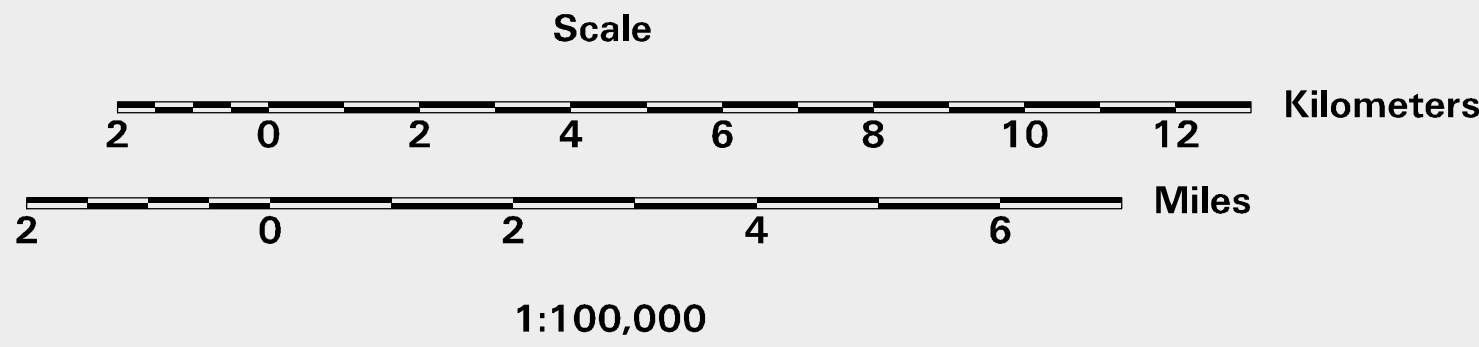


Map of Iron-Bearing Minerals, Vegetation, and Water Derived from ASTER Data
Tushar Mountains/Pahvant Range/Sevier Plateau, Utah



• ASTER Scene ID: SC:AST_L1B.003:2007212624
• Acquired June 12, 2002
• ASTER data orthorectified using a Projective Transform to mosaicked TerraServer digital orthophoto quadrangles and a 1/3 arc second digital elevation model (~10 m resolution) from the USGS National Elevation Dataset (NED, provided by USGS Seamless Data Distribution System).
• Topographic contours and shaded relief image derived from 1/3 arc second NED digital elevation model. Contour interval 50 m.
• Spectral analysis by Barnaby W. Rockwell, March 2004



Universal Transverse Mercator Projection
Zone 12
Clarke 1866 Spheroid
NAD 27 Horizontal Datum

Explanation for ASTER spectral mapping:			
Iron-bearing Minerals		Vegetation	
	ferric iron minerals, including jarosite, goethite, and hematite		green vegetation
	low-abundance ferric iron minerals, mainly oxides and/or hydroxides (may include sparse sericite or dry vegetation, e.g. yellow grass)		dry, non-photosynthetic vegetation (e.g. grasses)
	sericite +/- chlorite +/- carbonate		
	possible copiapite		
G - Gradational stretch applied. Bright shades of color indicate greater absorption feature depth and higher degree of fit to laboratory reference spectra. Feature depth may correlate with mineral abundance given consistent grain size. For vegetation, darker shades indicate lower chlorophyll content and/or plant density.		Water and Snow	
			deep, low turbidity
			shallow and/or turbid
			melting snow