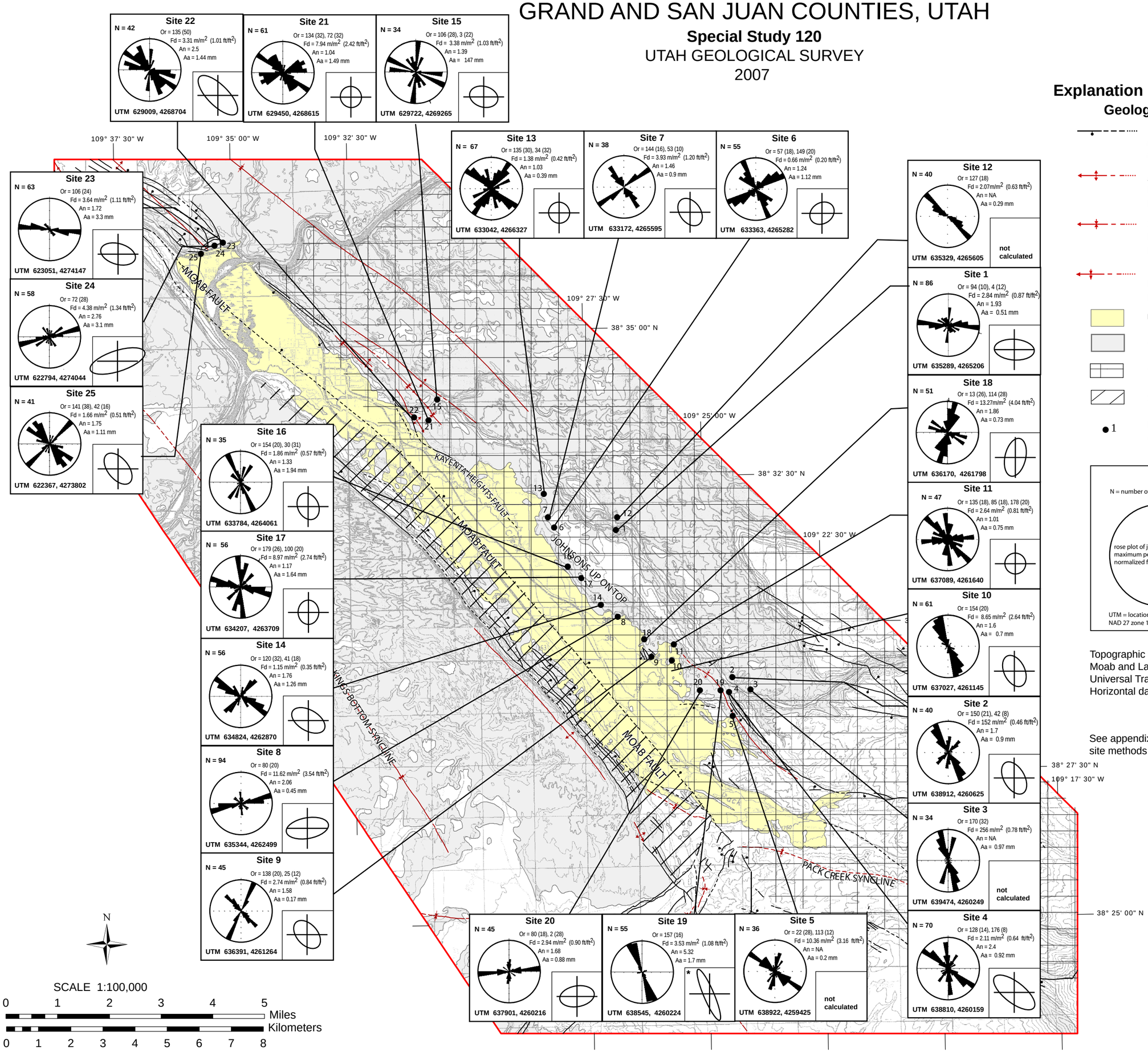
Plate 2

STRUCTURAL COMPARTMENTS AND FRACTURE-SITE DATA FOR MOAB-SPANISH VALLEY, GRAND AND SAN JUAN COUNTIES, UTAH

Special Study 120

UTAH GEOLOGICAL SURVEY

2007



Explanation

Geologic Symbols

Fault - Dashed where approximately located; dotted where concealed. Bar and ball on down-thrown block.

Anticline - Dashed where approximately located; dotted where concealed; arrow shows plunge direction.

Syncline - Dashed where approximately located; dotted where concealed; arrow shows plunge direction.

Monocline - Dashed where approximately located; dotted where concealed; arrow shows plunge direction.

Unconsolidated valley fill.

Glen Canyon Group outcrop.

Structural compartment a.

Structural compartment b.

● 1 Fracture-site see table E.1 and appendix E for details.

site

N = number of fractures measured

rose plot of joint orientation, maximum petal length is normalized for each fracture site

UTM = location easting, northing NAD 27 zone 12 N

Or = orientation of principal joint set in degrees (error), orientation of secondary joint set in degrees (error) degrees (error)
Fd = fracture density
An = anisotropy factor
Aa = average aperture

anisotropy ellipse for complete explanation see appendix E.

* ellipse is 50% of actual size

Topographic base from USGS 1:100,000 scale Moab and La Sal maps. Map projection Universal Transverse Mercator zone 12. Horizontal datum North American Datum 1983.

See appendix E and text for complete fracture site methods and data description.