

			OXIDES IN PERCENT												SELECTED ELEMENTS IN PPM												
SAMPLE ID	Unit Name	Map Unit	SiO2	TiO2	Al2O3	Fe2O3	MnO	MgO	CaO	Na2O	K2O	P2O5	Cr2O3	LOI	TOTAL	Ba	Ce	Со	Cu	Nd	Ni	Sc	Sr	Та	Y	Zn	Zr
SLP-1	Sunset Lake pluton	CZsl	72.30	0.39	14.40	2.28	0.08	0.59	1.35	4.91	3.05	0.09	NA	0.70	100.14	713	79	57	1.7	35	<1	4.7	201	<1	38	45.2	260
SLP-4B	Sunset Lake pluton	CZsl	77.40	0.11	12.30	1.86	0.07	0.05	0.09	5.32	2.52	< 0.01	NA	0.20	99.93	683	78	53	< 0.5	40	<1	4.8	46	<1	59	124	277
SLP-5	Sunset Lake pluton	CZsl	71.90	0.41	14.80	2.35	0.05	0.52	0.84	5.13	3.07	0.09	NA	0.90	100.06	725	79	44	1.6	35	<1	4.1	183	<1	32	35.6	268
AP-4	Big Lake-Raven Rock schist - 2	CZbr ₂	74.60	0.29	12.60	1.68	0.10	0.36	1.20	4.06	2.32	0.04	< 0.01	0.90	99.20	631	58	6.6	1.4	31	<1	9.81	152	0.5	53	63.2	194
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no vertical exaggeration

Depth in feet below ground surface

Powder material processing conducted at the Petrology Preparation Laboratory of the Department of Geography and Geology at the University of North Carolina Wilmington. Geochemical analyses completed by SGS Minerals, Toronto, Canada for 11 major and 49 trace elements (12 trace elements reported in table). Whole-rock analyses using method codes XRF76Z + 75V, IMS95A, and FAI303, and individual element method code ICMS12B for Ta. NA = No sample analysis PPM = parts per million

> Disclaimer: This Open-File report is preliminary and has been reviewed for conformity with the North Carolina Geological Survey editorial standards or with the North American Stratigraphic Code. Further revisions or corrections to this open file map may occur.

LOI = loss on ignition

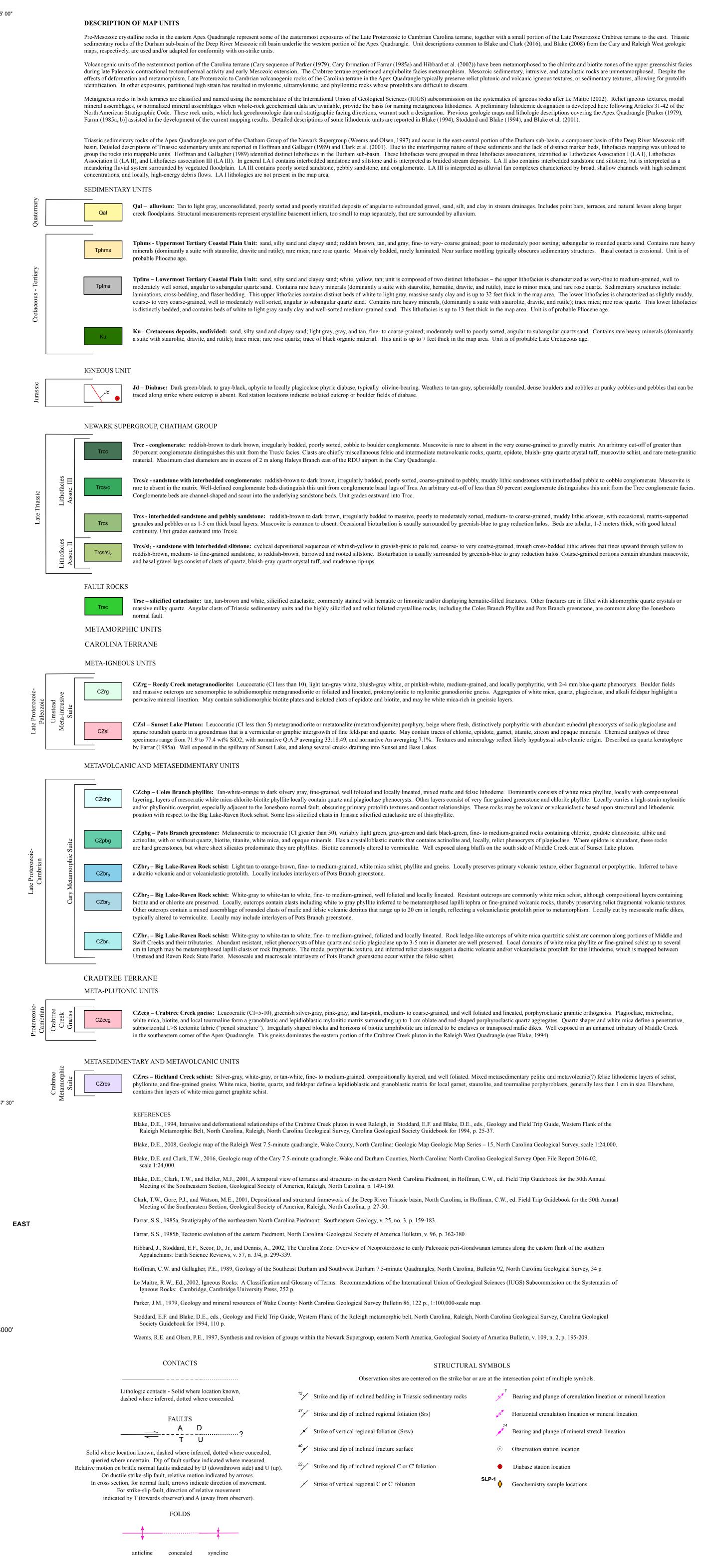
This geologic map was funded in part by the USGS National Cooperative Geologic Mapping Program under StateMap. Bedrock geology mapped 1997 - 1998 (StateMap Award FY 1997). Coastal Plain mapped 2001 - 2002 (StateMap Award 01HQAG0061, FY 2001). Additional bedrock data collection from 2002 – 2010. Base topographic map is a digital raster graphic image of the Apex 7.5-minute quadrangle (1993), North Carolina State Plane NAD 83 meters coordinate system, Lambert Conformal Conic projection.



GEOLOGIC MAP OF THE APEX 7.5-MINUTE QUADRANGLE, WAKE COUNTY, NORTH CAROLINA

By Edward F. Stoddard, Timothy W. Clark, Norman K. Gay and Kevin Miller Digital representation by Michael A. Medina and Heather D. Hanna

> 2016 (Version 10/4/16)



Bearing and plunge of crenulation lineation or mineral lineation Horizontal crenulation lineation or mineral lineation