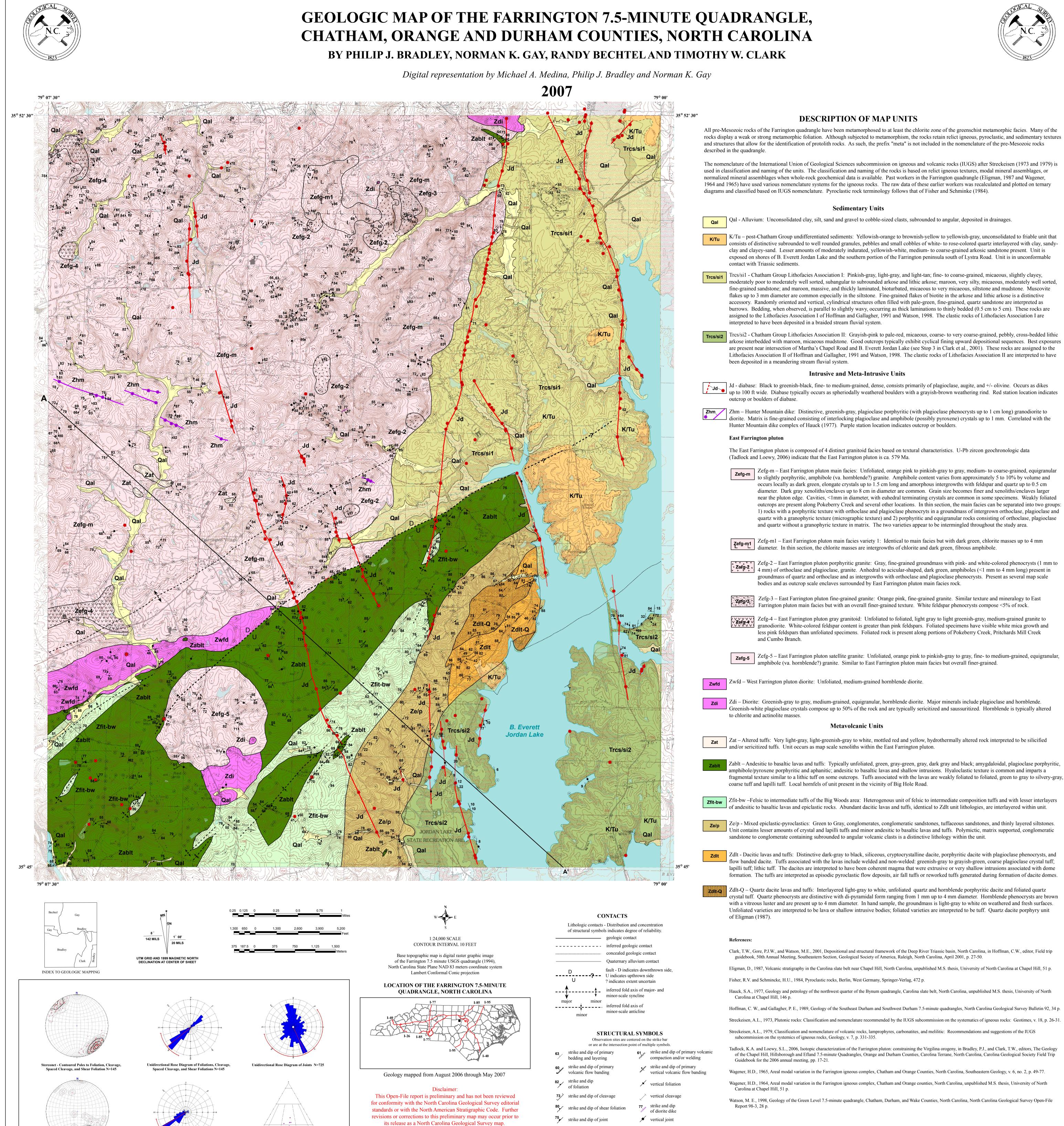
Stereonet - Contoured Poles to Primary Layering, Bedding,

Welding/Compaction Foliation, and Flow Banding in

Carolina terrane rocks N=35



up to 100 ft wide. Diabase typically occurs as spheriodally weathered boulders with a grayish-brown weathering rind. Red station location indicates

to slightly porphyritic, amphibole (va. hornblende?) granite. Amphibole content varies from approximately 5 to 10% by volume and diameter. Dark gray xenoliths/enclaves up to 8 cm in diameter are common. Grain size becomes finer and xenoliths/enclaves larger near the pluton edge. Cavities, <1mm in diameter, with euhedral terminating crystals are common in some specimens. Weakly foliated outcrops are present along Pokeberry Creek and several other locations. In thin section, the main facies can be separated into two groups: 1) rocks with a porphyritic texture with orthoclase and plagioclase phenocryts in a groundmass of intergrown orthoclase, plagioclase and quartz with a granophyric texture (micrographic texture) and 2) porphyritic and equigranular rocks consisting of orthoclase, plagioclase

Zefg-2 – East Farrington pluton porphyritic granite: Gray, fine-grained groundmass with pink- and white-colored phenocrysts (1 mm to 4 mm) of orthoclase and plagioclase, granite. Anhedral to acicular-shaped, dark green, amphiboles (<1 mm to 4 mm long) present in groundmass of quartz and orthoclase and as intergrowths with orthoclase and plagioclase phenocrysts. Present as several map scale

Zefg-5 – East Farrington pluton satellite granite: Unfoliated, orange pink to pinkish-gray to gray, fine- to medium-grained, equigranular,

Greenish-white plagioclase crystals compose up to 50% of the rock and are typically sericitized and saussuritized. Hornblende is typically altered

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QAP plot of modal analyses from thin sections

of East Farrington pluton samples.

Unidirectional Rose Diagram of Primary Lavering, Bedding

Welding/Compaction Foliation, and Flow Banding

in Carolina terrane rocks N=35

Zfit-bw –Felsic to intermediate tuffs of the Big Woods area: Heterogenous unit of felsic to intermediate composition tuffs and with lesser interlayers

Ze/p - Mixed epiclastic-pyroclastics: Green to Gray, conglomerates, conglomeratic sandstones, tuffaceous sandstones, and thinly layered siltstones. Unit contains lesser amounts of crystal and lapilli tuffs and minor andesitic to basaltic lavas and tuffs. Polymictic, matrix supported, conglomeratic

Zdlt - Dacitic lavas and tuffs: Distinctive dark-gray to black, siliceous, cryptocrystalline dacite, porphyritic dacite with plagioclase phenocrysts, and flow banded dacite. Tuffs associated with the lavas include welded and non-welded: greenish-gray to grayish-green, coarse plagioclase crystal tuff; lapilli tuff; lithic tuff. The dacites are interpreted to have been coherent magma that were extrusive or very shallow intrusions associated with dome formation. The tuffs are interpreted as episodic pyroclastic flow deposits, air fall tuffs or reworked tuffs generated during formation of dacite domes.

crystal tuff. Quartz phenocrysts are distinctive with di-pyramidal form ranging from 1 mm up to 4 mm diameter. Hornblende phenocrysts are brown with a vitreous luster and are present up to 4 mm diameter. In hand sample, the groundmass is light-gray to white on weathered and fresh surfaces. Unfoliated varieties are interpreted to be lava or shallow intrusive bodies; foliated varieties are interpreted to be tuff. Quartz dacite porphyry unit

<sup>71</sup> brittle fault plane

12 trend and plunge of

slickenline lineation

 $\bigstar$  inactive quarry location

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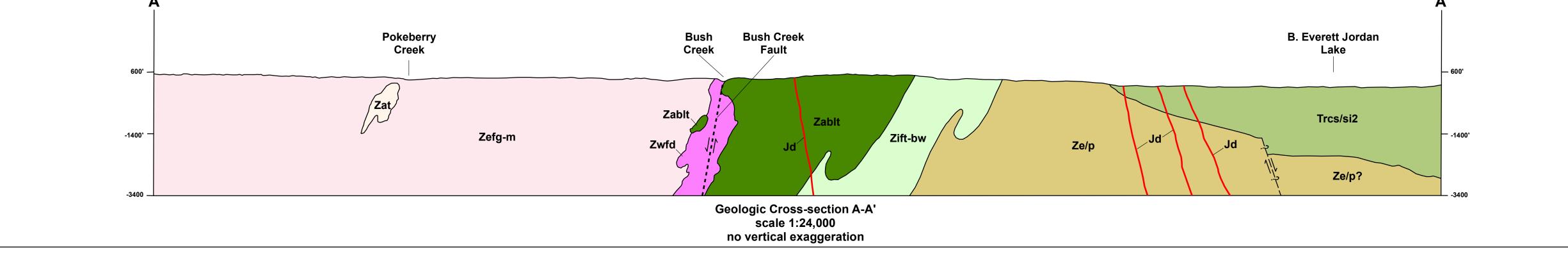
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**\*** fault gouge

**<sup>24</sup>** strike and dip of

slickenside

• station location