UTAH GEOLOGICAL SURVEY
a division of
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Bryce Canyon Association
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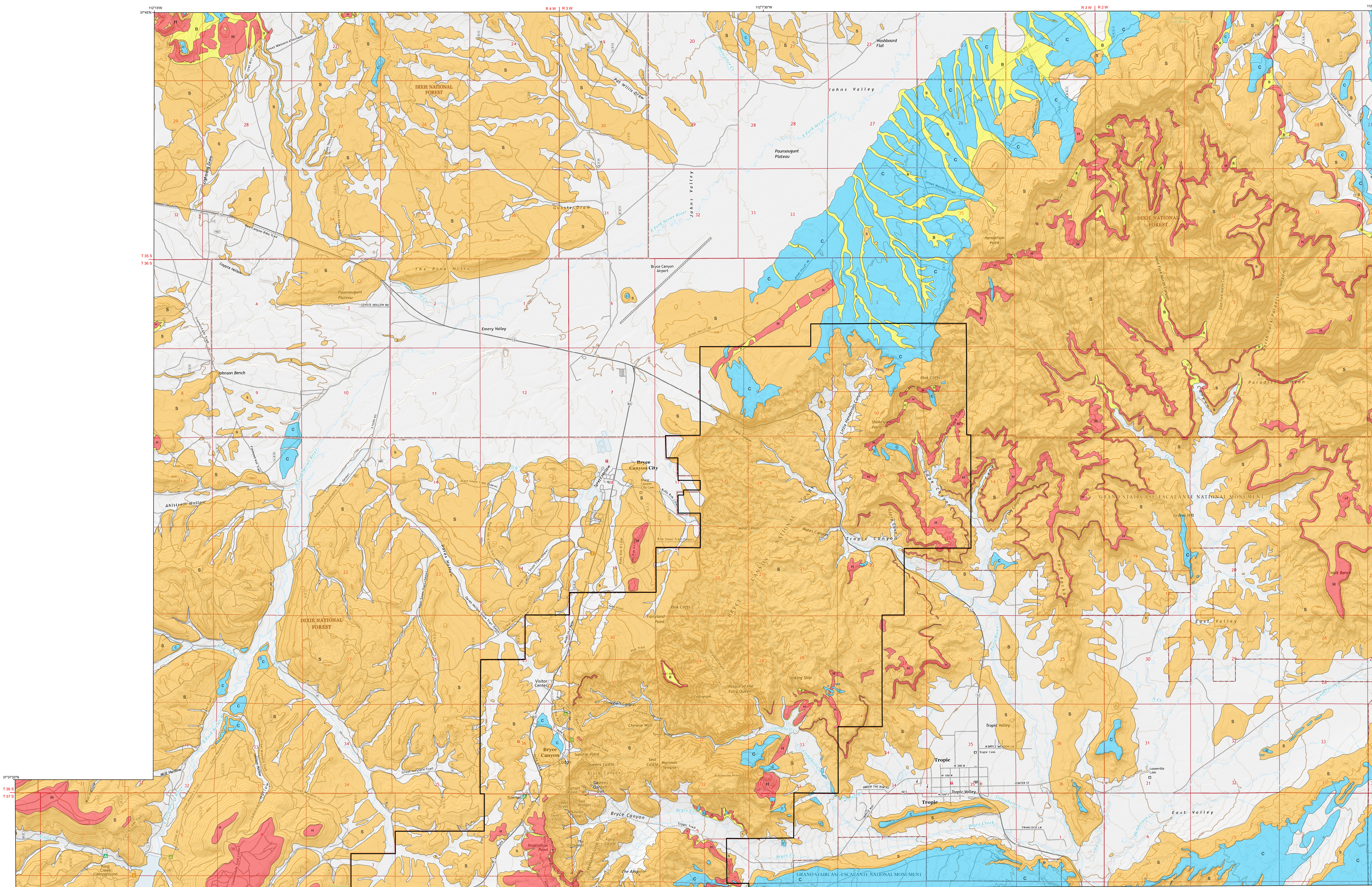
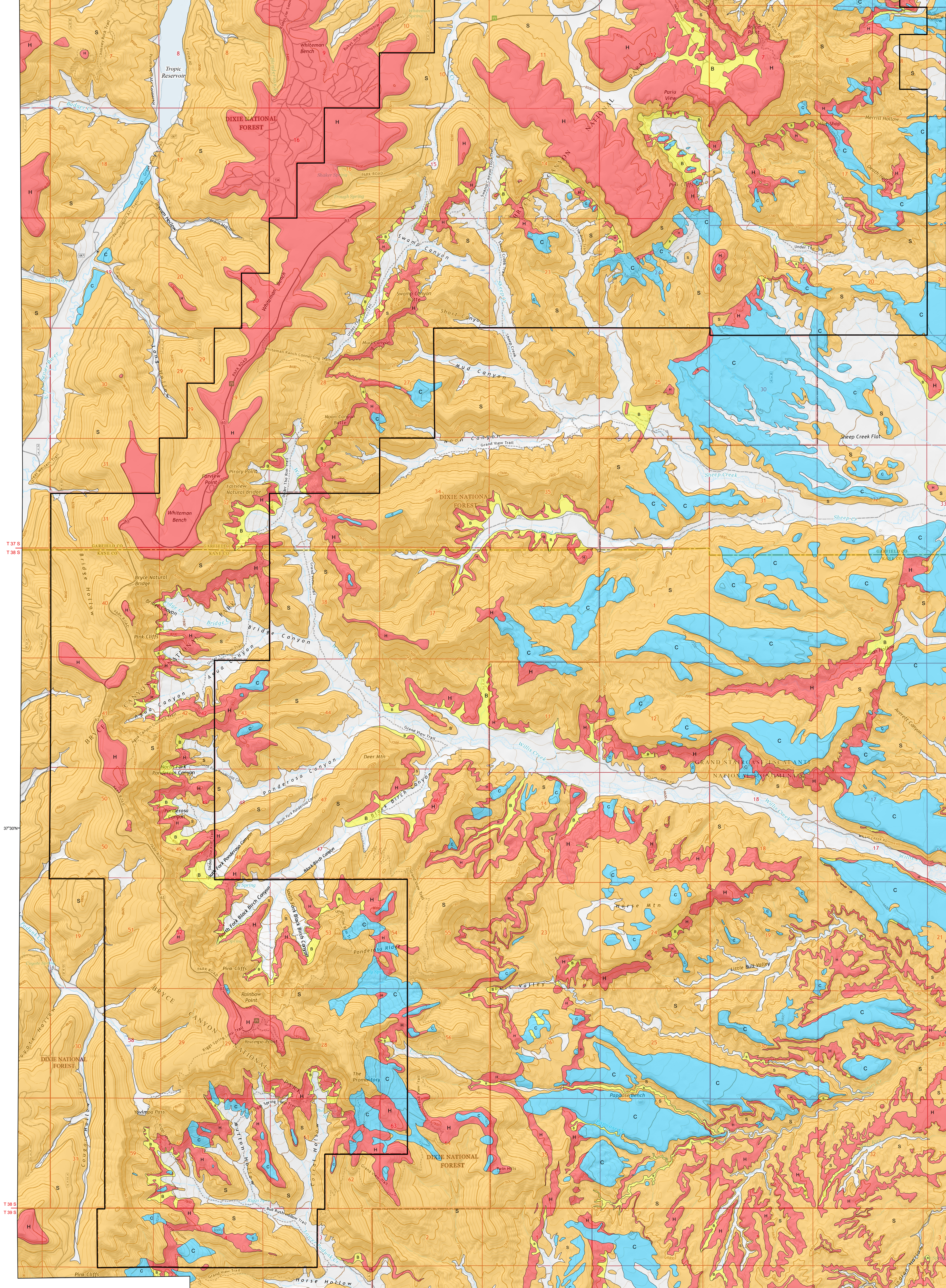
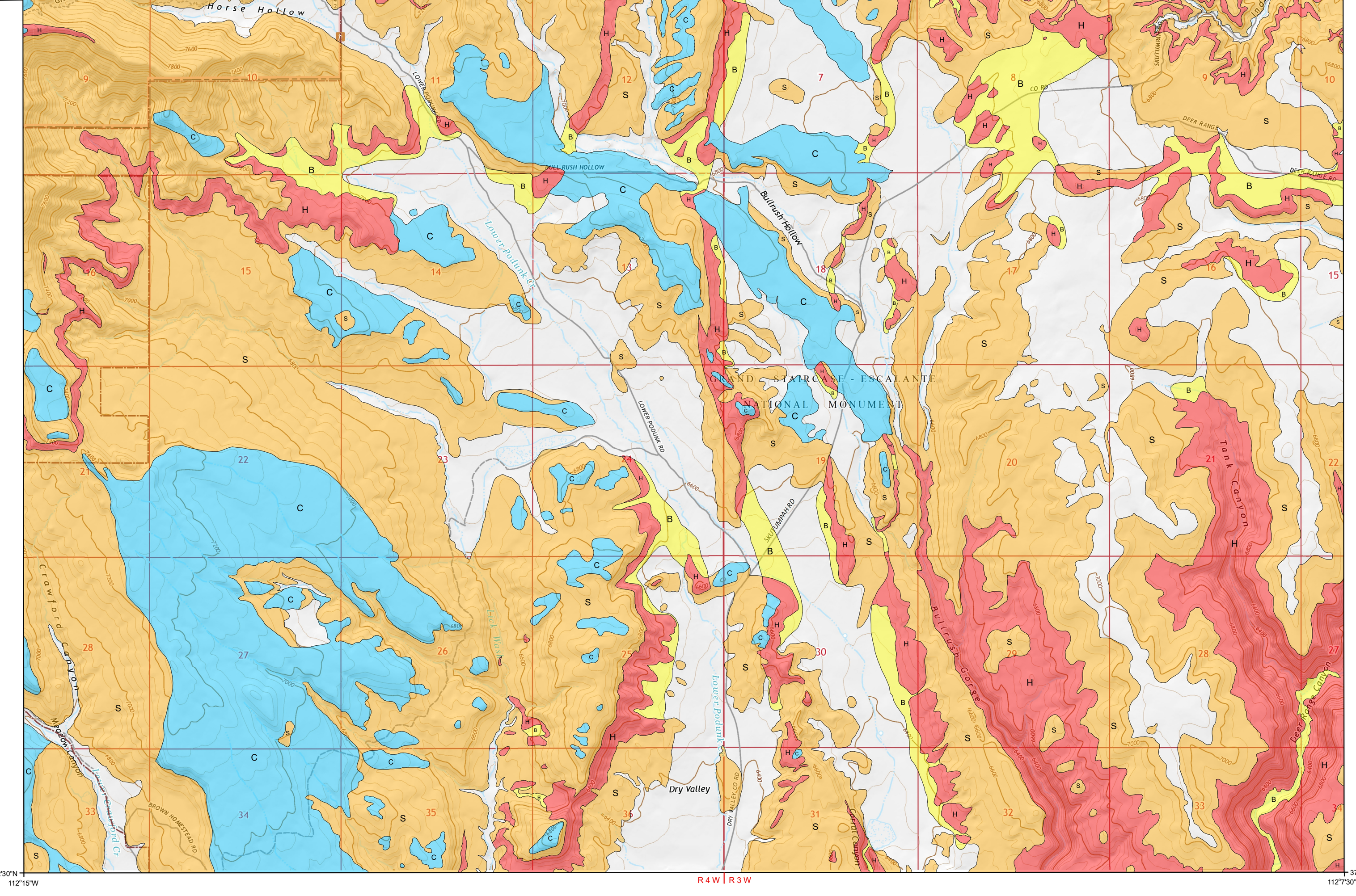






SHALLOW BEDROCK POTENTIAL
BRYCE CANYON NATIONAL PARK AND VICINITY
GARFIELD AND KANE COUNTIES, UTAH

by

Tyler R. Knudsen

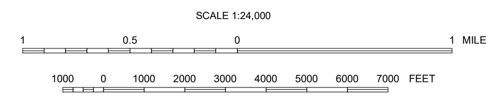
2026

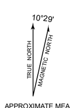
EXPLANATION

H	**Hard Bedrock** – Areas where generally hard and resistant bedrock crops out at the ground surface and typically requires blasting to excavate.
S	**Soft Bedrock** – Areas where less resistant bedrock crops out at the ground surface. Even when fresh, these bedrock units typically can be excavated without blasting, although some blasting may be required locally.
B	**Buried Hard Bedrock** – Areas where depth to hard bedrock is likely less than or equal to 10 feet (≤ 3 m) beneath soil cover. In most areas, the identity and degree of weathering of the underlying bedrock is unknown.
C	**Caliche Susceptibility** – Areas where caliche horizons have been identified or where older (Pleistocene) deposits are present which may contain caliche in the subsurface. Strongly indurated caliche layers may approach the hardness of bedrock and greatly reduce soil permeability.
	Bryce Canyon National Park boundary

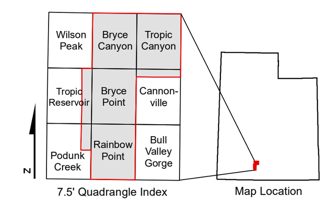
This mapping was funded by the Utah Geological Survey and the Bryce Canyon Association, and facilitated by the National Park Service, U.S. Department of the Interior. The views and conclusions contained in this document are those of the author and should not be interpreted as necessarily representing the official policies, either expressed or implied, of the Bryce Canyon Association or the U.S. Government. These maps and explanatory information are submitted for publication with the understanding that the Bryce Canyon Association and the U.S. Government are authorized to reproduce and distribute reprints for their use.

SCALE 1:24,000





APPROXIMATE MEAN DECLINATION, 2026



7.5' Quadrangle Index

Map Location

Base from USGS US Topo Bryce Canyon, Tropic Canyon, Tropic Reservoir, Bryce Point, Cannonville, Podunk Creek, and Rainbow Point 7.5' Quadrangles (2020)
Projection: UTM Zone 12
Datum: NAD 1983

Project Manager: Steve Bowman
GIS and Cartography: Tyler Knudsen, Gordon Douglass, and Kristi Rasmussen

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This map was created from geographic information system (GIS) data.

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