

Current status of geologic mapping in the IFTNC region

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Idaho Geological Survey
www.idahogeology.org

New north Idaho maps in 2007

- Headquarters 30'x60' Digital Web Map 92
- Kooskia 30'x60' Digital Web Map 93
- Troy, Grangeville E, Grangeville W, Elmira, Cocolalla, Colburn, and Oden Bay 7.5' maps
- mapping completed in Sandpoint 30'x60' quadrangle—Digital Web Map version available in September?

IDAHO GEOLOGICAL SURVEY

Digital Geologic Maps of Northern Idaho

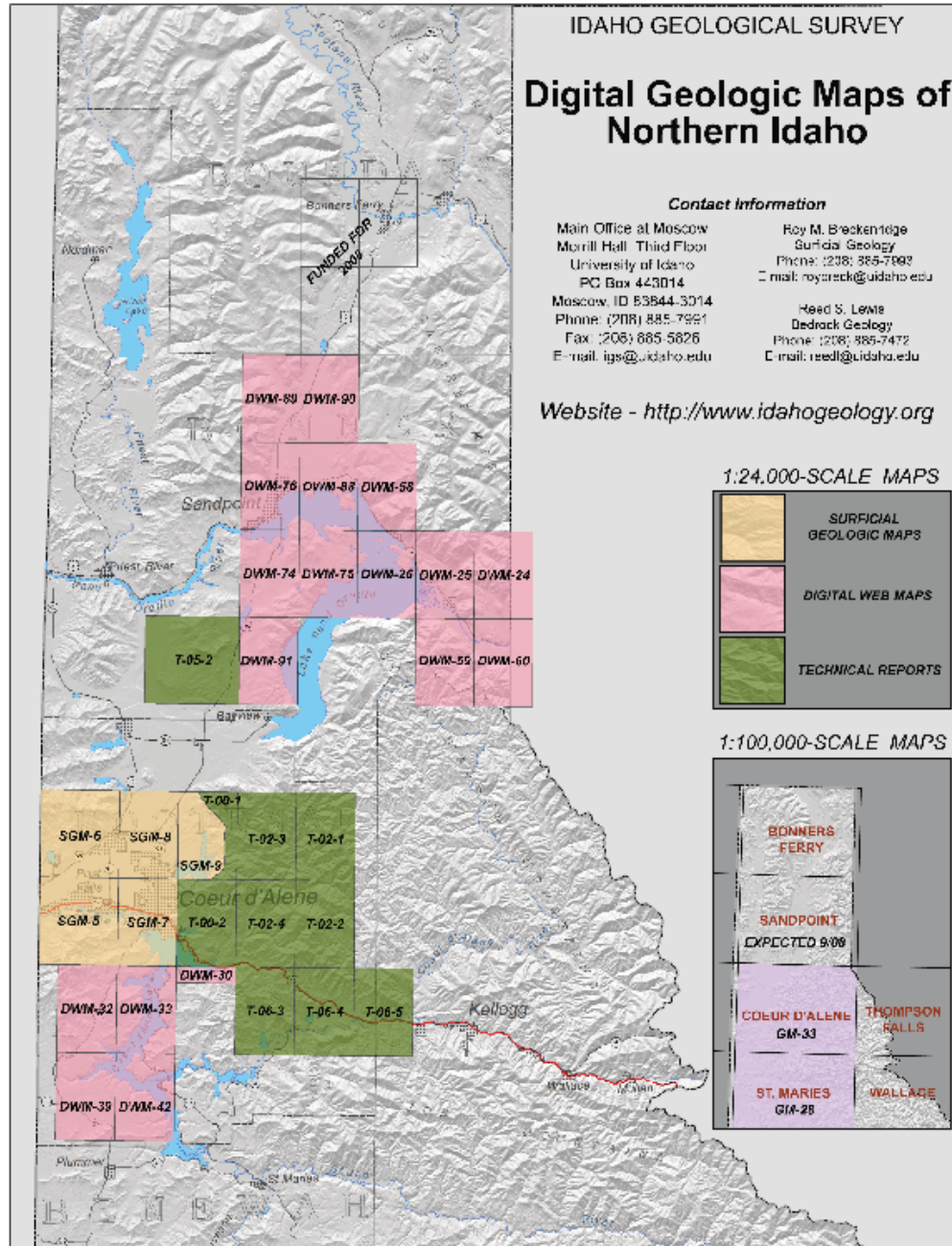
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


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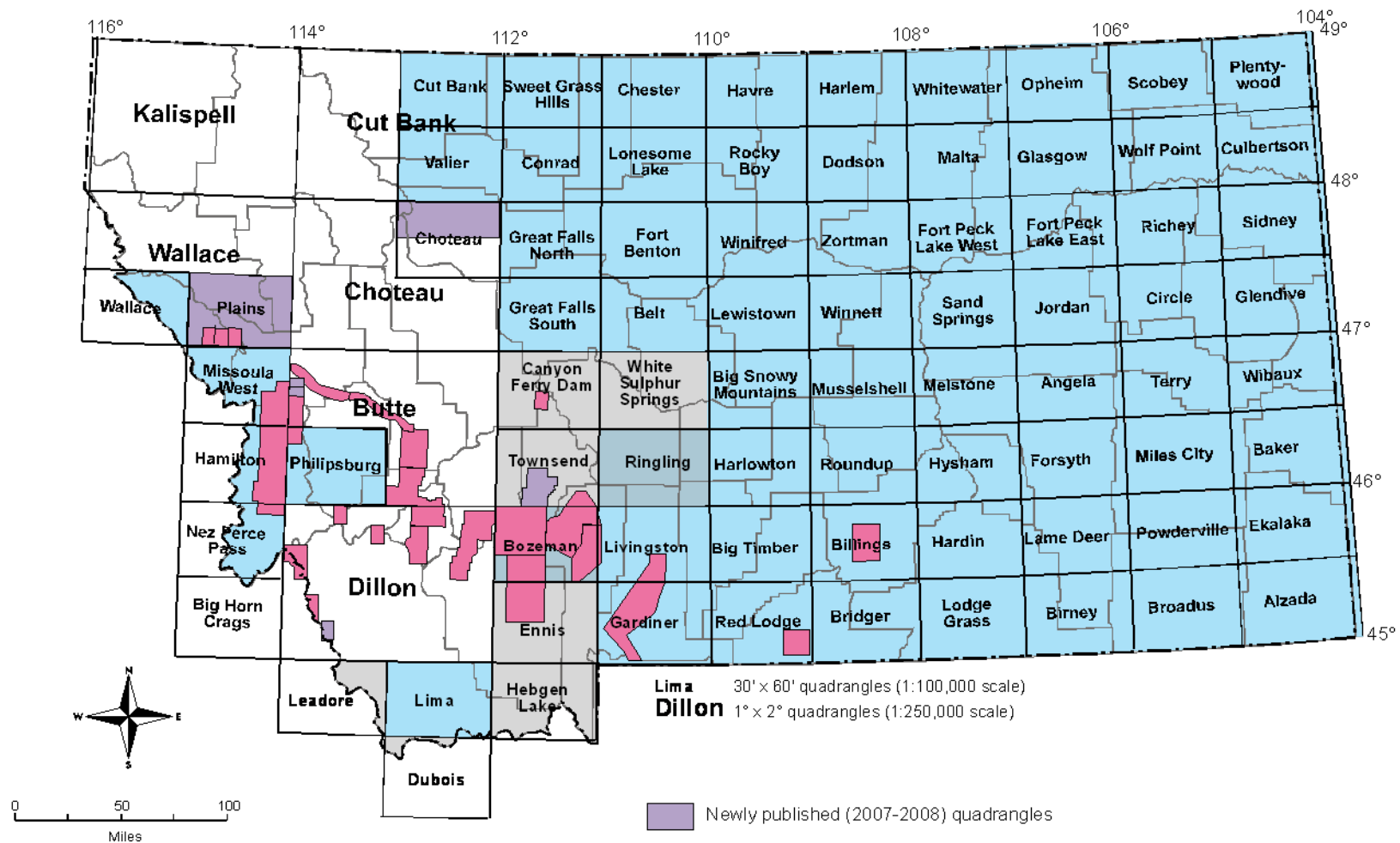


1:24,000-SCALE MAPS

	SURFICIAL GEOLOGIC MAPS
	DIGITAL WEB MAPS
	TECHNICAL REPORTS

1:100,000-SCALE MAPS

	
BONNERS FERRY	
	
SANDPOINT EXPECTED 9/06	
	
COEUR D'ALENE GM-33	THOMPSON FALLS
	
ST. MARIES GM-28	WALLARE



Montana Bureau of Mines and Geology
STATEMAP Geologic Map Status

April 2008

contact: Susan Vuke (406-496-4326)

recent Washington DNR maps

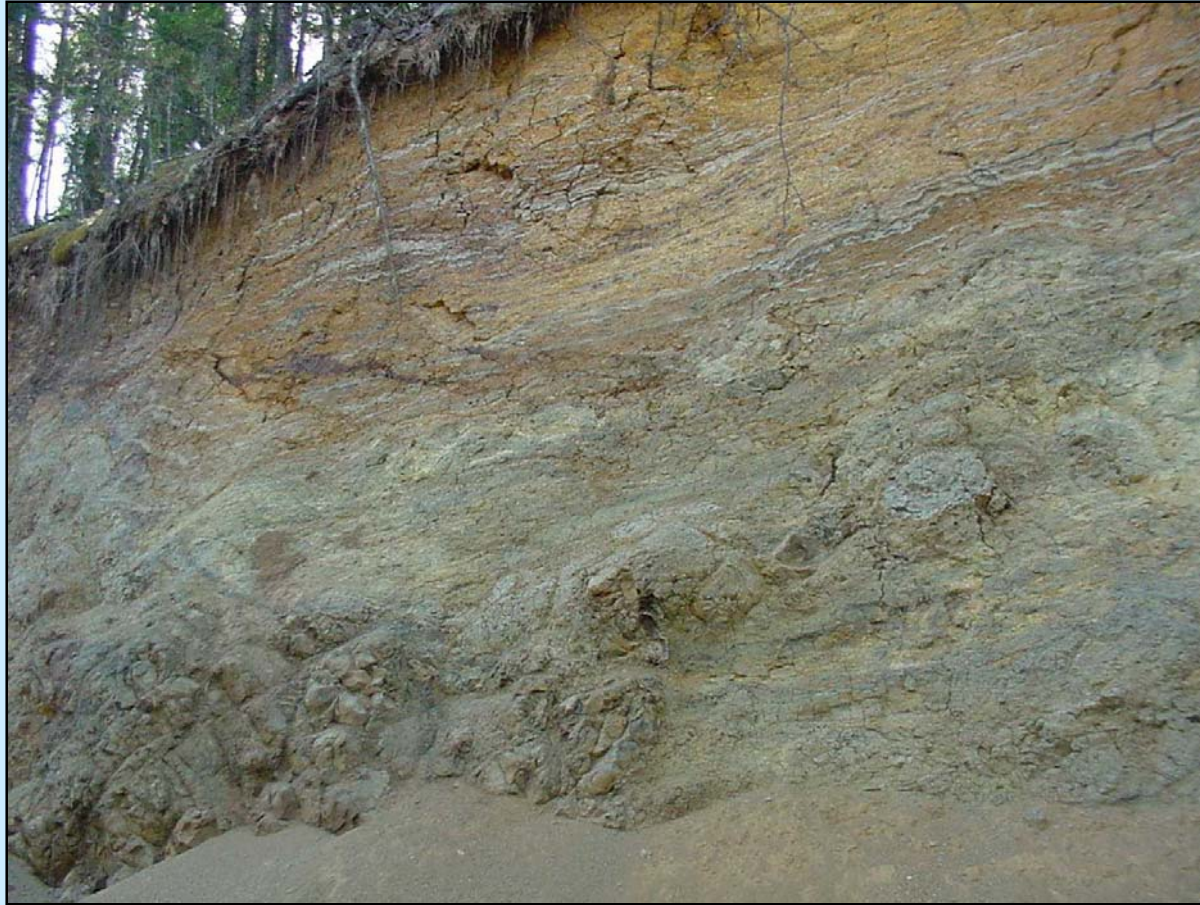
- Four Mound Prairie 7.5' quadrangle (GM 66)
- Deer Park 7.5' quadrangle (GM 54)
- Chatteroy 7.5' quadrangle (GM 55)

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important site productivity parameters from a geological perspective

- *lithology* (geologic unit, e.g., granite, basalt, gravel; composition influences nutrients and weathering potential)
- *airborne deposits* (thickness and composition of ash and dust)
- *surface exposure history* (time); varies from ~12 million years in Bovill-Dent-Pierce area to <15,000 years in glaciated areas and recently cut canyons

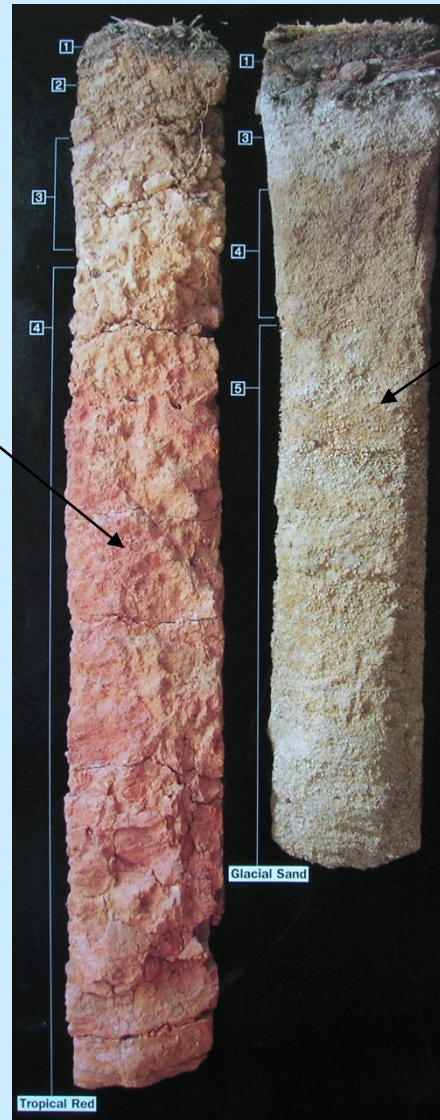
ancient surfaces of the Bovill-Dent- Pierce area



weathered 12 million year old basalt (saprolite)

ancient vs. “young” parent material

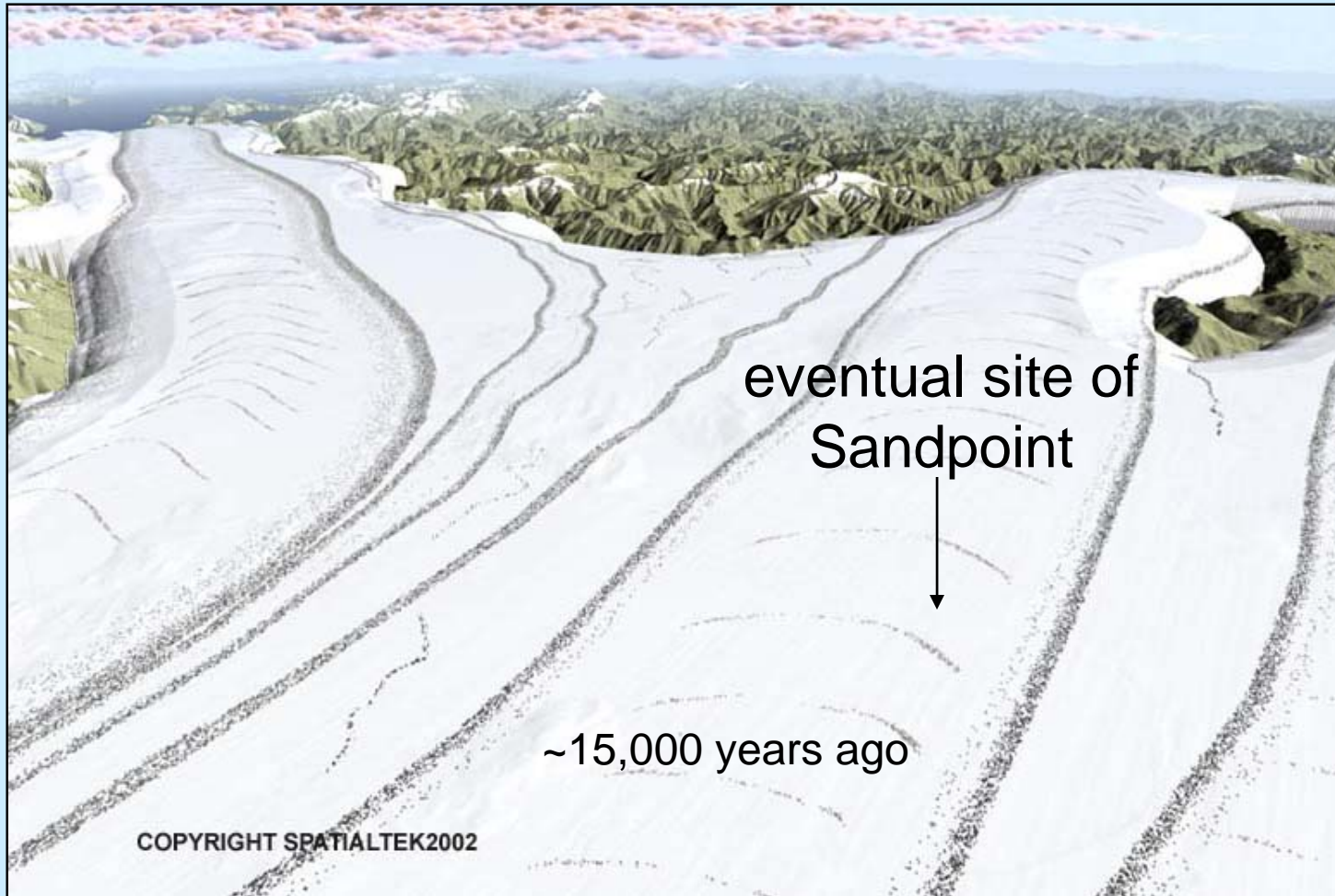
Millions of years old
(weathered basalt and sediment)



Thousands of years old
(glacial sand)

Soil profiles collected
by Maynard Fosberg, UI

effects of “big ice” on surface exposure time



Looking south-southeast

Smith Mtn NE of Sandpoint



overtopped by
continental
glacier; old
soils removed

close-up of unproductive glaciated area; surface exposure “clock” reset

