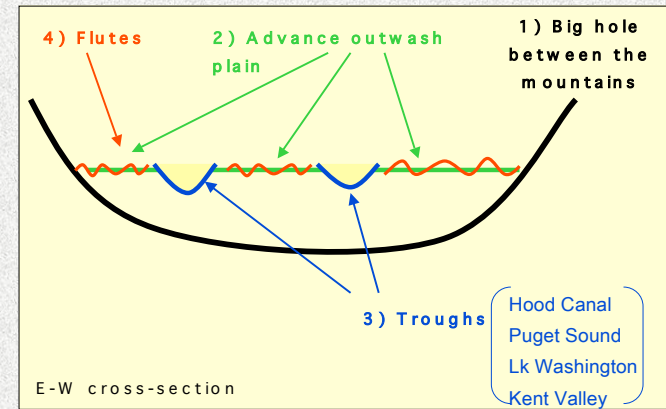


The Landscape of Puget Sound: Tectonics and Glaciers



Credits:
Derek Booth & Kathy Troost
(UW)
Ralph Haugerud (USGS)

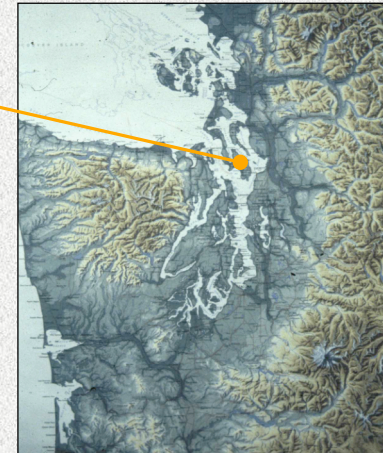
Puget Lowland Landscape Elements



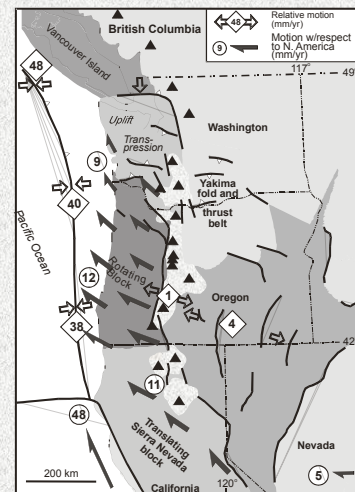
- 1) Big hole between the mountains
- 2) Advance outwash plain
- 3) Troughs
- 4) Flutes
- 5) Cross-warps



- 1) Big hole between the mountains
- 2) Advance outwash plain
- 3) Troughs
- 4) Flutes
- 5) Cross-warps



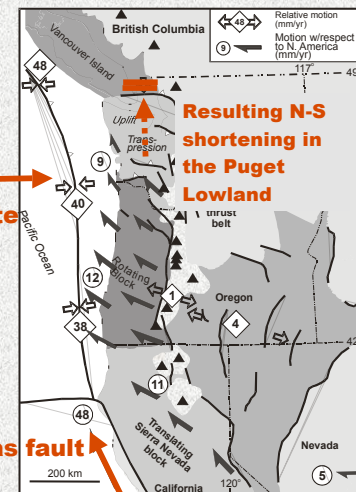
Tectonic setting of the Puget Lowland



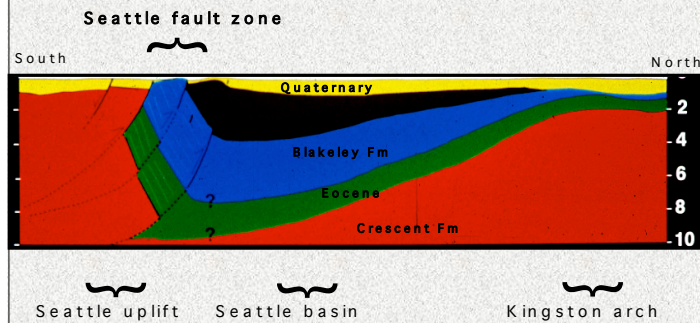
Tectonic setting of the Puget Lowland

Subduction of Juan de Fuca plate

San Andreas fault



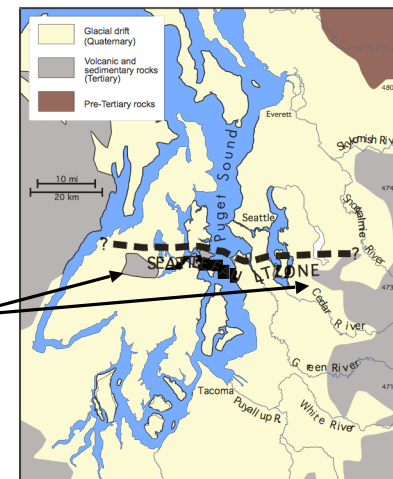
Bedrock Structure through Puget Sound

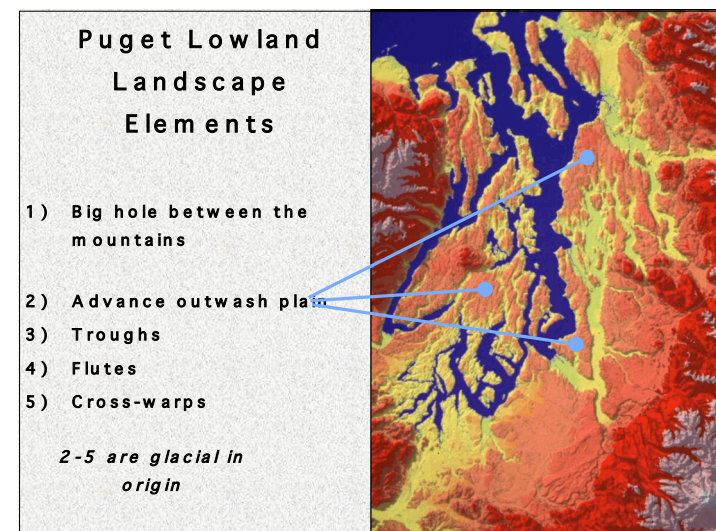
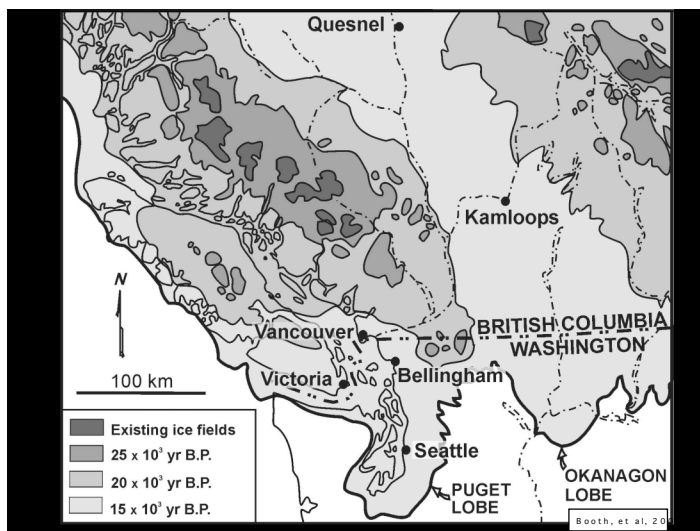
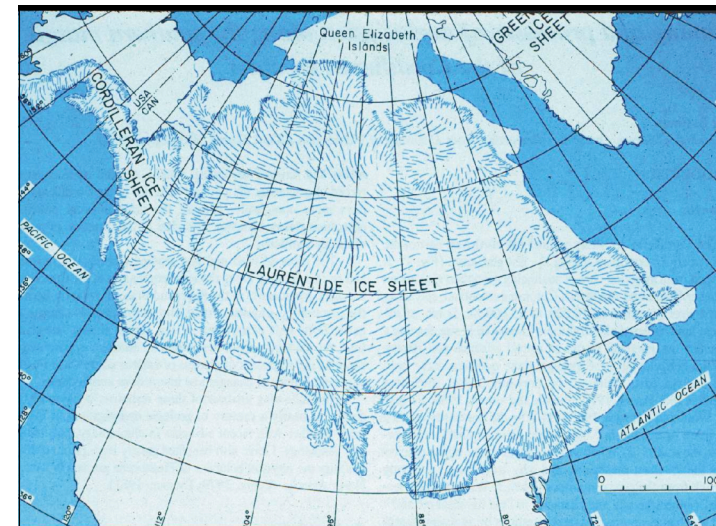
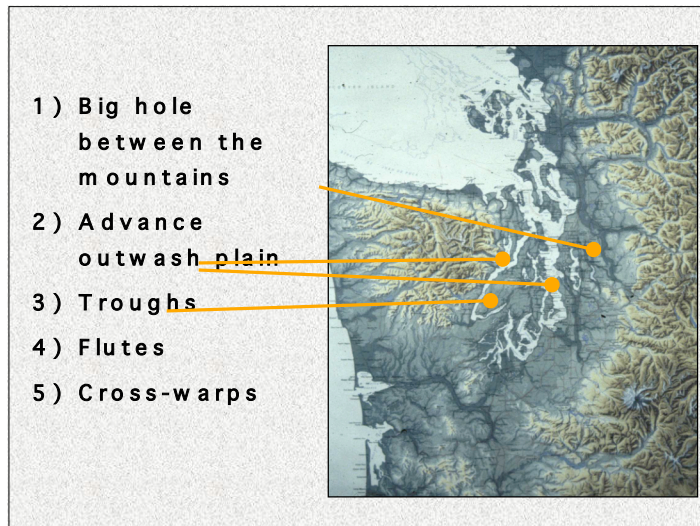


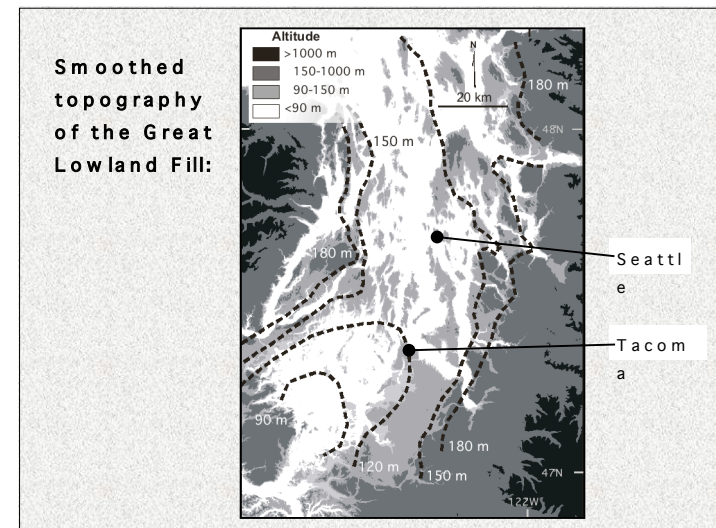
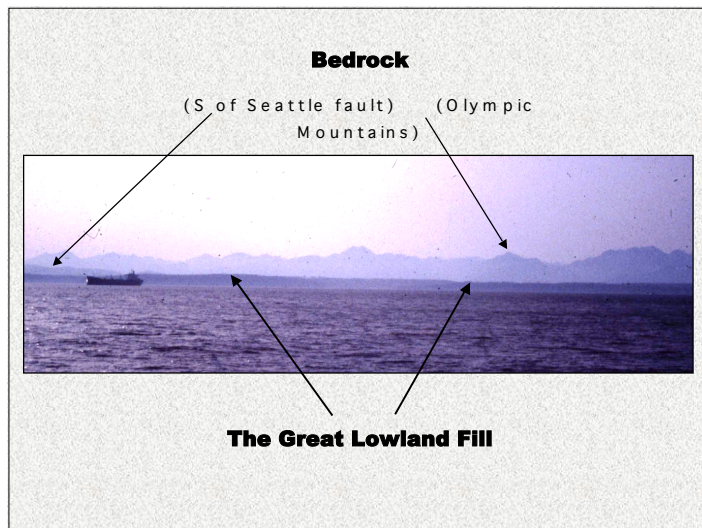
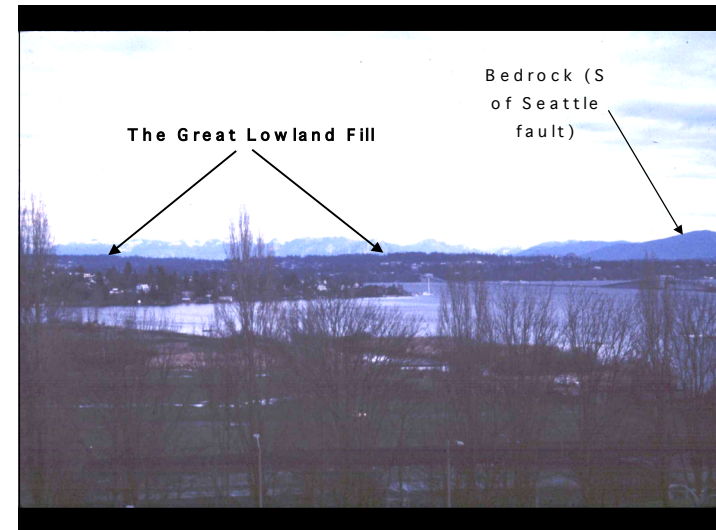
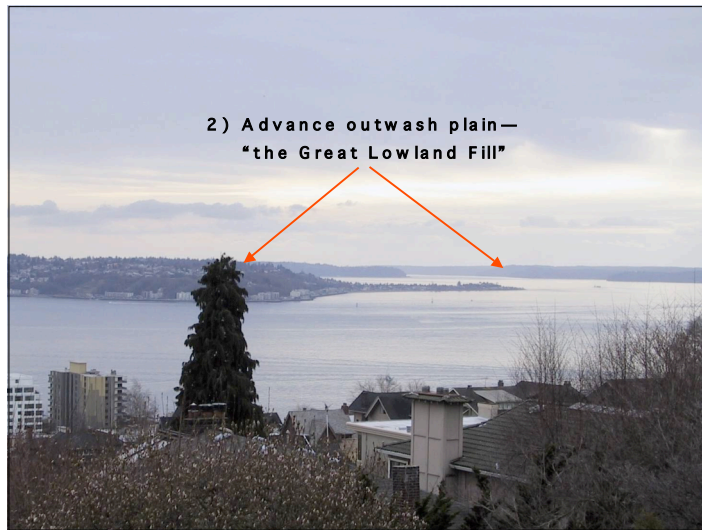
After Johnson et al., 1994

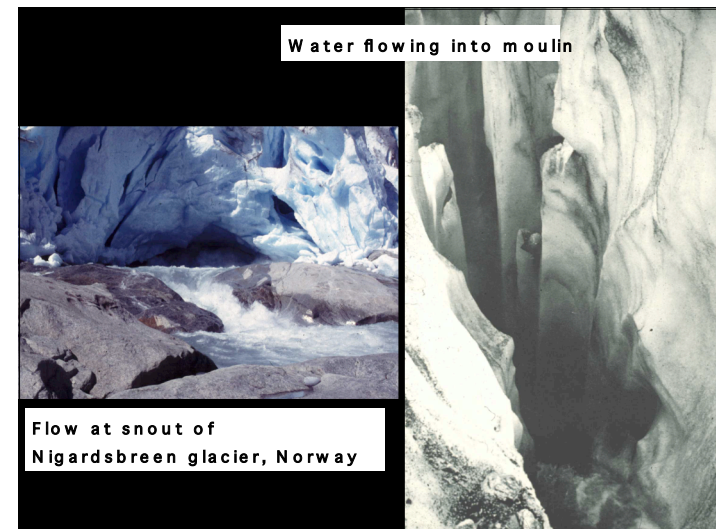
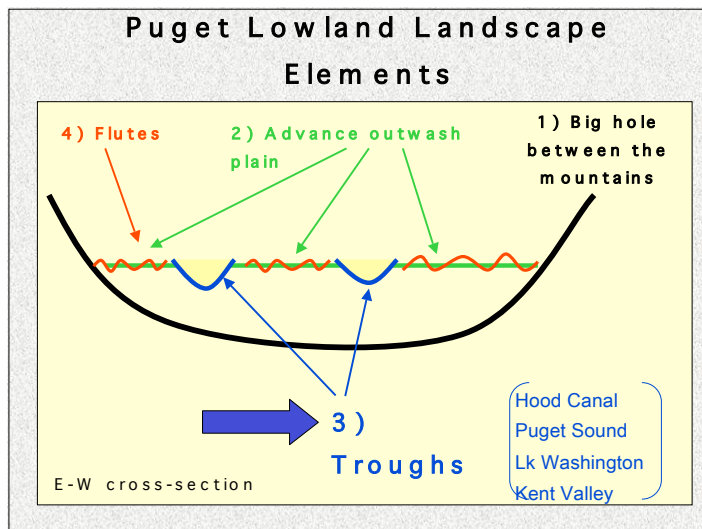
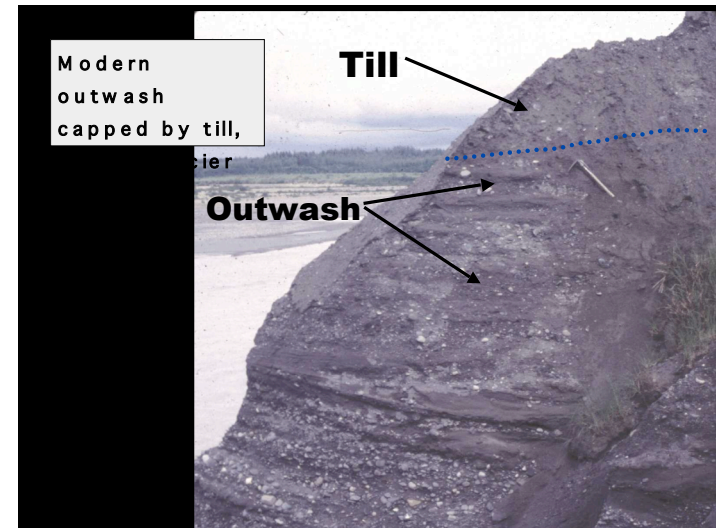
Topographic expression of the Seattle fault

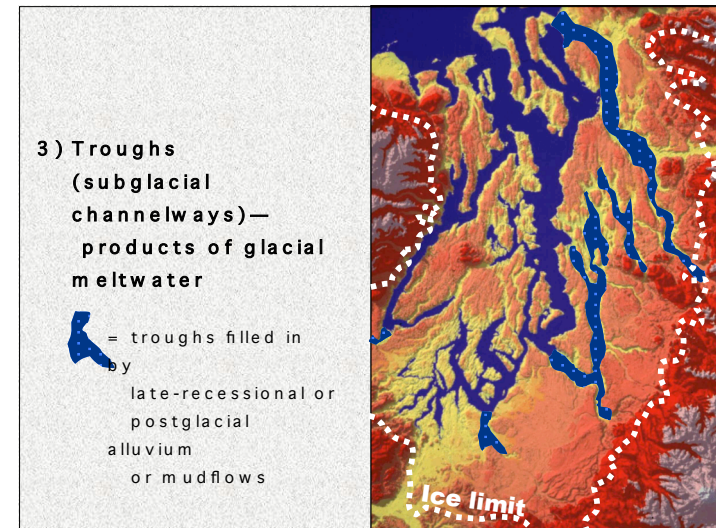
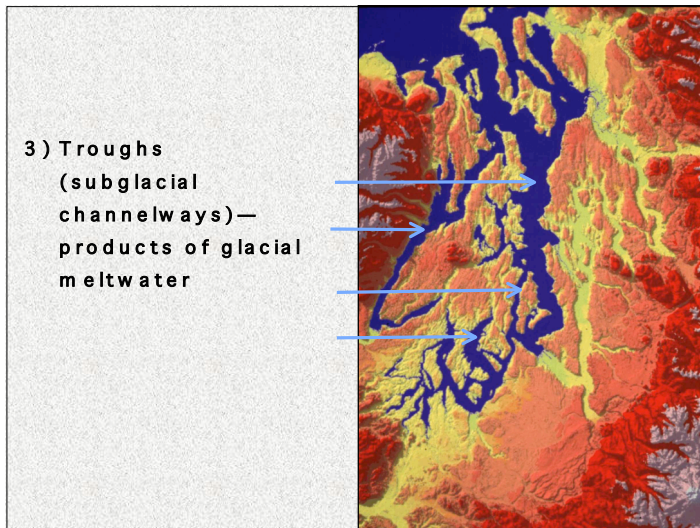
Bedrock highs







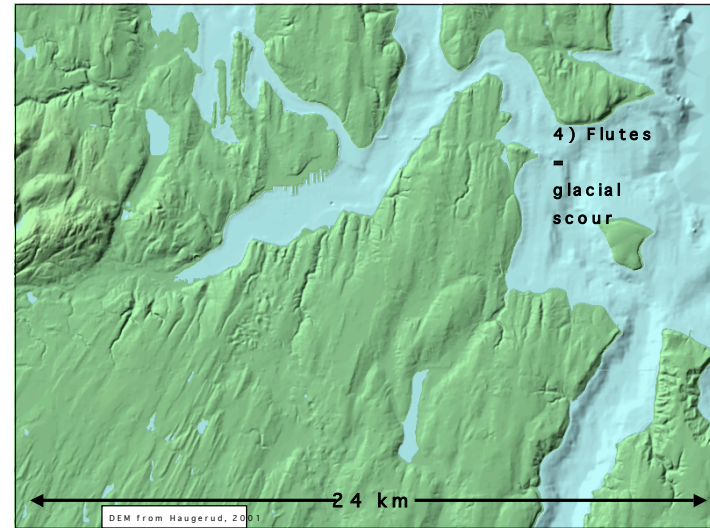




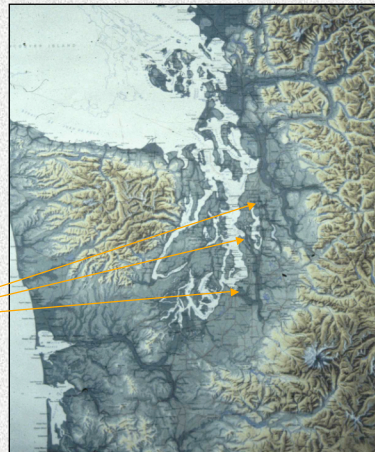
- 1) Big hole
between the
mountains
- 2) Advance
outwash plain
- 3) Troughs
- 4) Flutes
- 5) Cross-warps



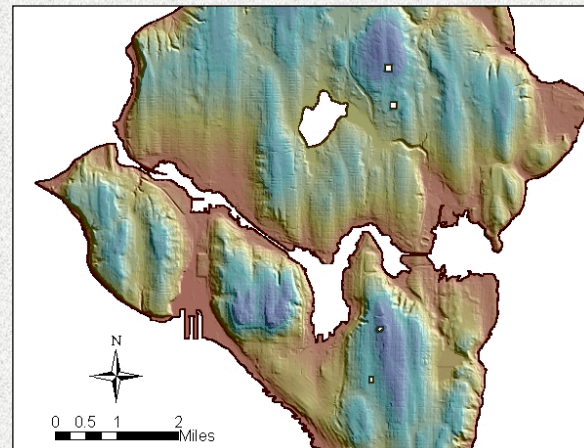
- 4) Flutes
-
glacial
scour

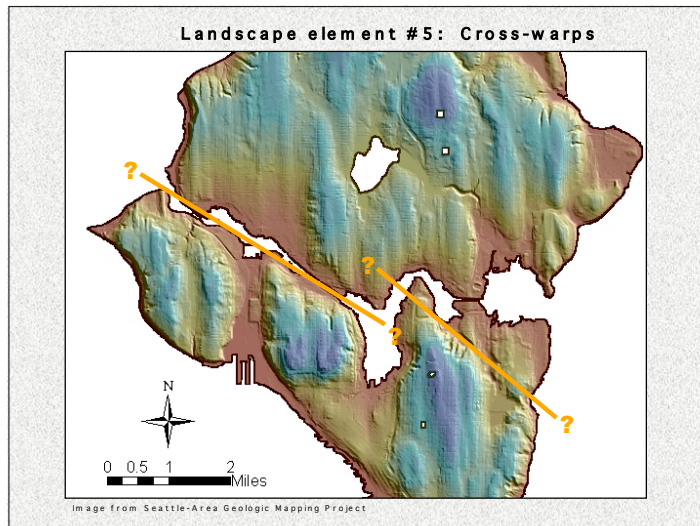


- 1) Big hole
between the
mountains
- 2) Advance
outwash plain
- 3) Troughs
- 4) Flutes
- 5) Cross-warps



Landscape element #5: Cross-warps





GeoMap Northwest

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 Scott Shimel, P.E.
 Michael O'Neal
 Aaron Wisher



<http://geomapnw.ess.washington.edu>

What they do

- Regional subsurface database
- Geologic maps
- Scientific studies
- Critical data for planning, engineering, and hazards applications

Progress to date

	Number Entered	Number Anticipated
Geotechnical Documents	9,928	>12,000
Exploration Points	56,095	>60,000
Subsurface Layers	218,104	>250,000

