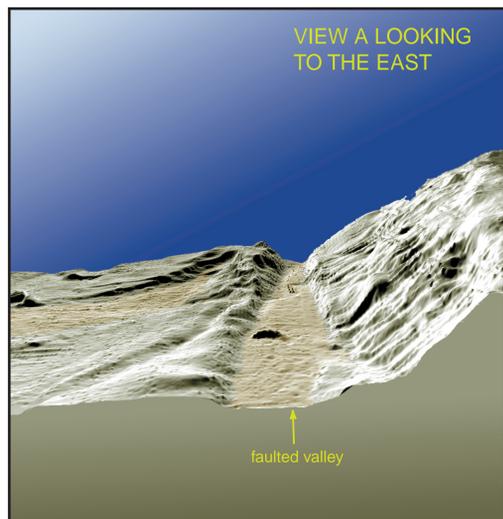


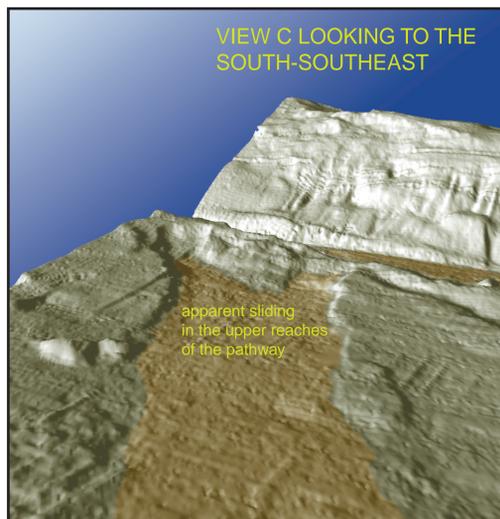
TURBIDITE PATHWAYS IN CASCADIA BASIN AND TUFTS ABYSSAL PLAIN, PART A, ASTORIA CHANNEL, BLANCO VALLEY, AND GORDA BASIN

By
Stephen C. Wolf and Michael R. Hamer

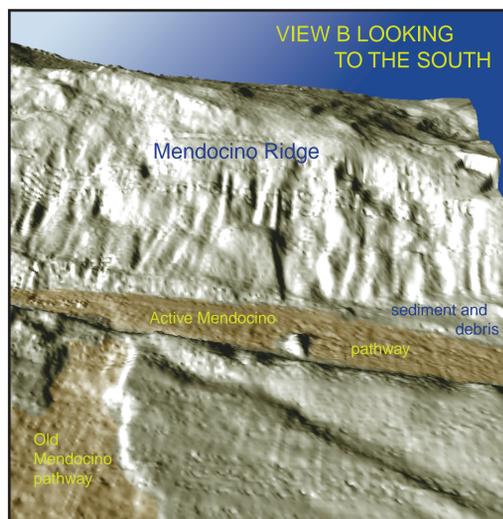
Multiple views of the Mendocino Canyon head and pathway exhibited through the use of Seabeam Swath bathymetry



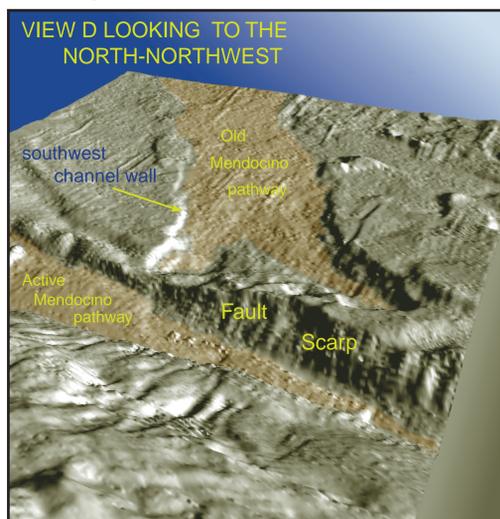
The east-west Mendocino pathway situated in an apparent faulted valley and filled with turbidite sediments is shown in the center of the view. The Mendocino Ridge is to the right and an older Mendocino pathway offset by a major east-west fault is located to the left



An apparent older Mendocino pathway partially filled with turbidite sediments is shown in the center of the view. The upper reaches of the pathway appears to be offset by faulting accompanied by apparent sliding of the turbidite sediments down channel. The east-west active Mendocino pathway is observed in the background.



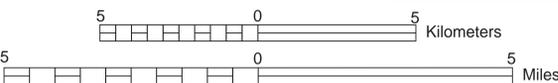
The east-west active Mendocino pathway is shown in the foreground at the base of the Mendocino Ridge escarpment. The western half of the escarpment appears to have a more youthful physiography than that on the eastern half suggesting mass wasting of the slope in recent time. There appears to be accumulations of sediment and debris at the base of the western half of the escarpment.



The older Mendocino pathway can be seen from foreground to background with the channel axis orientated in a north-northwest south-southeast direction. The pathway has been clearly offset by uplift along a major east-west fault zone. Note the offset of the southwest channel wall in the active east-west Mendocino pathway which has not received sufficient sediment input to obscure the offset wall.

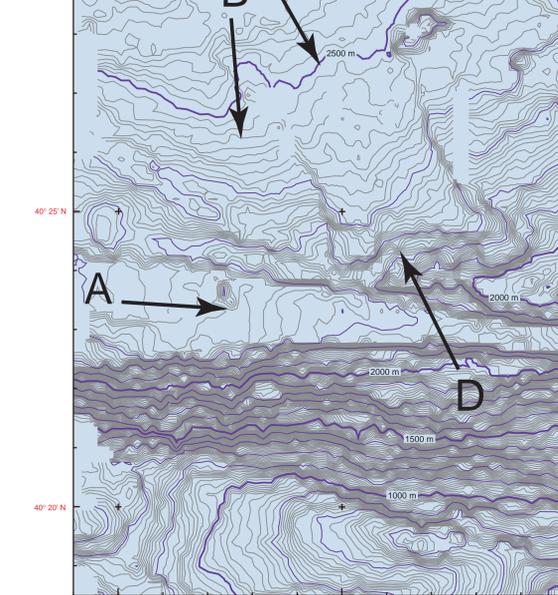
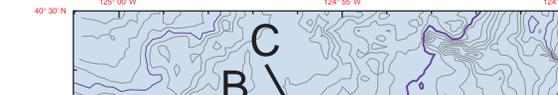
Contoured Seabeam Swath bathymetry is shown in the map to the middle right. Expanded views are shown below and to the lower right. Views A-D were constructed from the seabeam database.

— 10 meter contours
— 100 meter contours
— 500 meter contours



— 10 meter contours
— 100 meter contours
— 500 meter contours

SCALE 1:210,175
1 inch represents 3.32 miles



Contour map of seabeam bathymetry data showing locations and view directions of images A-D

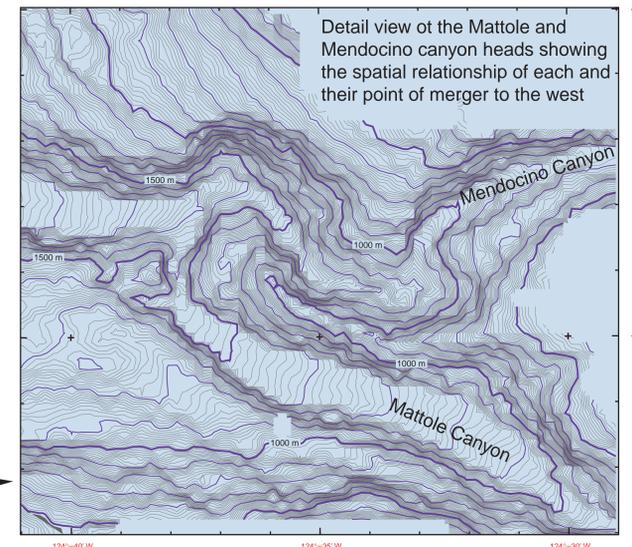
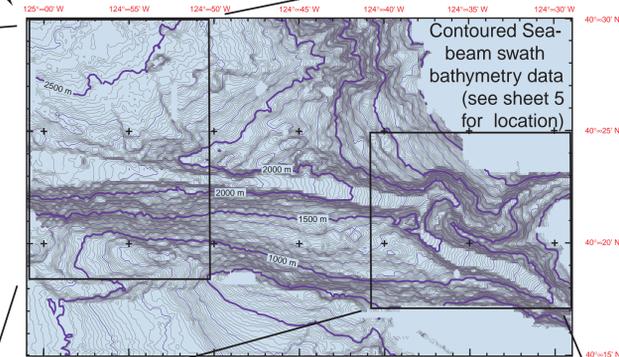
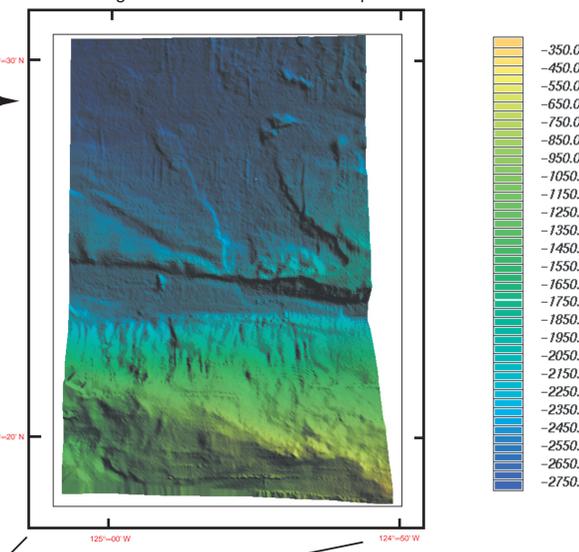
REFERENCE FOR SEABEAM DATABASE
Herlihy, Dr., S.P. Matula, and C. Andreasen (1988), Swath mapping data management within the National Oceanographic and Atmospheric Administration, International Hydrographic Review, Monaco, LXV (2).
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info@mail.ngdc.noaa.gov

— 10 meter contours
— 100 meter contours
— 500 meter contours

SCALE 1:72,000
1 inch represents 1.14 miles



Colored view of seabeam swath bathymetry in the region of views A-D. Colored depth bands in meters



This report (map) is preliminary and has not been reviewed for conformity with U.S. Geological Survey editorial standards (or with the North American Geographic Code). Any use of trade, product or firm names is for descriptive purposes only and does not imply endorsement by the U.S. Government.
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