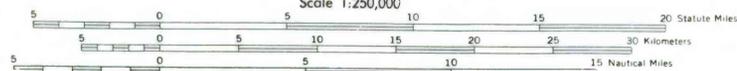


SEAFLOOR INSTABILITY,  
EROSION, AND TRANSPORT  
CENTRAL SANTA ROSA-CORTES RIDGE

EXPLANATION

-  SLUMPS AND FLOWS. AREAS OF HUMMOCKY TOPOGRAPHY, ROTATED BEDS, OR DISRUPTED SURFICIAL SEDIMENTS INDICATING SEAFLOOR FAILURE BY SLUMPING. AREAS DESIGNATED WITH AN F INDICATE FLOW DEPOSITS.
-  EROSION AND SCOUR BY WAVE ACTION AND CURRENTS. THESE AREAS ARE GENERALLY SHALLOW RIDGE PLATFORMS COMPOSED OF OUTCROPPING BEDROCK OR THINLY (<2 M) VEILED BY UNCONSOLIDATED SEDIMENTS.
-  UNCONSOLIDATED SEDIMENTS. AREAS CONTAINING >5 M AND <10 M OF UNCONSOLIDATED QUATERNARY SEDIMENT.
-  ACOUSTIC ANOMALIES. DENOTED AREAS WHERE ACOUSTIC ANOMALIES OCCUR EITHER IN THE WATER COLUMN OR SHALLOW SUBSURFACE. MAY RESULT FROM PRESENCE OF KELP OR MAY INDICATE PRESENCE OF SHALLOW GAS.
-  UNSTABLE SEDIMENTS ON THE SLOPE. THESE ZONES ARE CHARACTERIZED BY THICK UNCONSOLIDATED SEDIMENTS, STEEP SLOPES, AND/OR A HISTORY OF FAILURE.
-  DENOTES CHANNELS THAT ARE INTERPRETED ON THE BASIS OF BATHYMETRY OR SEISMIC REFLECTION DATA AS ACTIVE OR POTENTIALLY ACTIVE PATHS OF SEDIMENT TRANSPORT.

TRANSVERSE MERCATOR PROJECTION  
Scale 1:250,000



Bathymetric base compiled from  
National Oceanic and Atmospheric Administration Chart:  
1206N-15, Santa Barbara to Huntington Beach, 1975;  
1206N-16, Huntington Beach to Punta Sal Si Puedes, 1975.  
Scale: 1:250,000.

This report is preliminary and has  
not been edited or reviewed for  
conformity with Geological Survey  
standards and nomenclature.