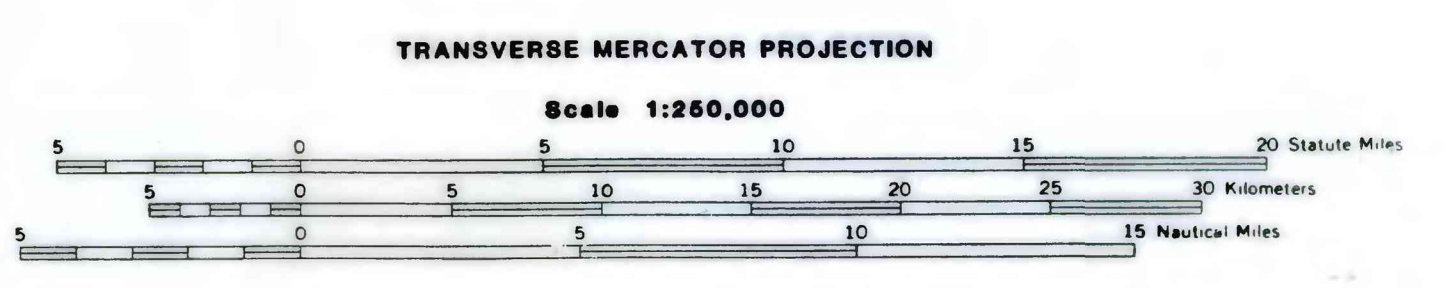


- EXPLANATION**
- |     |                   |           |
|-----|-------------------|-----------|
| VO  | R/V Veleiro       | 1968-1970 |
| VA  | R/V Vantuna       | 1970      |
| KZ  | R/V Kelez         | 1973      |
| LCB | R/V S. P. Lee     | 1974      |
| EBS | R/V E. B. Scripps | 1976      |
| OT  | R/V S. P. Lee     | 1976      |
| ○   | R/V Sea Sounder   | 1978      |
| ○   | R/V Sea Sounder   | 1979      |
- Filled symbol indicates sample was obtained.
  - Open symbol indicates no recovery.
  - △ Bridge site position approximate, apex of triangle indicates approximate ship heading.
- 
- |     |                       |
|-----|-----------------------|
| Q   | Undivided Quaternary  |
| Qp  | Undivided Pleistocene |
| Qp1 | Upper Pleistocene     |
| Qp2 | Lower Pleistocene     |
| T   | Undivided Tertiary    |
| TP  | Undivided Pliocene    |
| TPu | Upper Pliocene        |
| TP1 | Lower Pliocene        |
| TM  | Undivided Miocene     |
| TMu | Upper Miocene         |
| TMm | Middle Miocene        |
| TMl | Lower Miocene         |
| T   | Undivided Oligocene   |
| TE  | Undivided Eocene      |
| Ku  | Upper Cretaceous      |

**SAMPLE LOCATIONS AND AGES  
GULF OF SANTA CATALINA AREA, CALIFORNIA**



Bathymetric base compiled from National Oceanic and Atmospheric Administration Chart: 12068-15, Santa Barbara to Huntington Beach, 1973; 12068-16, Huntington Beach to Punta Sal S1 Puentes, 1975. Scale: 1:250,000.

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