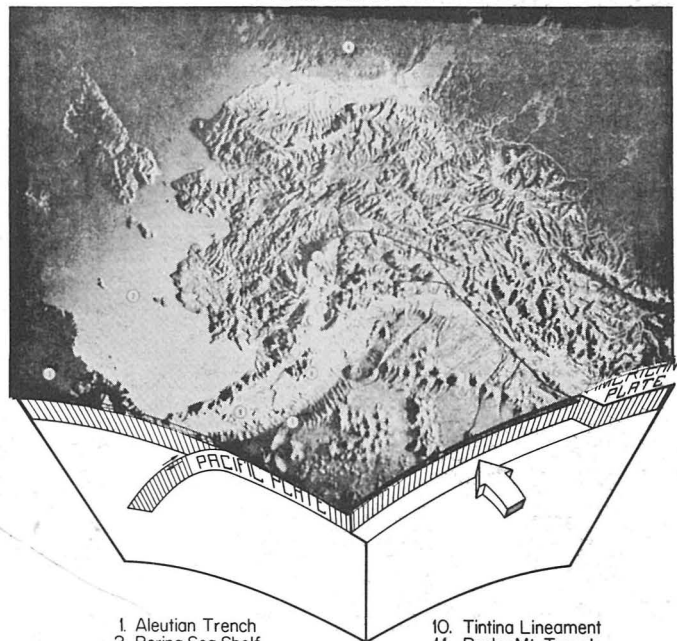


2. A large number of the megaripple patterns and associations with the sand waves also showed no measurable changes.

3. Either the rates and modes of change of a vast majority of sand waves and megaripples are not readily detectable with the techniques and time period employed, or they respond to periodic catastrophic phenomena that did not occur during the 5-year study period. Possibly some of the lower Cook Inlet sand waves are relict.

4. Some of the nonchanging sand-wave associations are in areas where strong bottom currents appear to be active.

FIGURE III. A. 1. b - 1

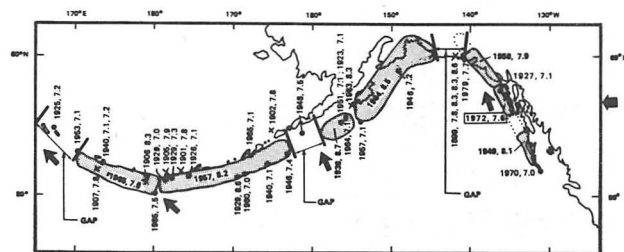
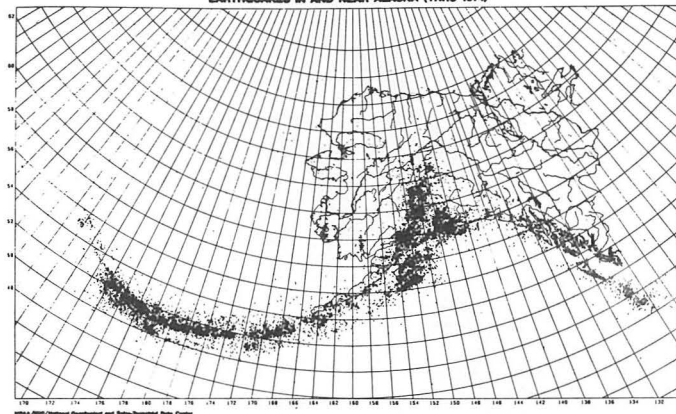


1. Aleutian Trench
2. Bering Sea Shelf
3. Bering Sea Basin
4. Arctic Basin
5. Brooks Range
6. Alaska Range
7. Cook Inlet
8. Kodiak
9. Shumagin Islands

10. Tintina Lineament
11. Rocky Mt. Trench
12. Denali Fault
13. Fairweather Fault
14. Chugach - St. Elias Thrust
15. Chatham Strait Fault
16. Queen Charlotte Fault

Plate convergence in southern Alaska.

FIGURE III. A. 1. b - 4
EARTHQUAKES IN AND NEAR ALASKA (THRU 1974)



Historic seismicity (top, from NOAA/EDS) and aftershock zones of great earthquakes, modified from Sykes, 1971 (bottom). Other major Alaskan earthquakes are also shown.