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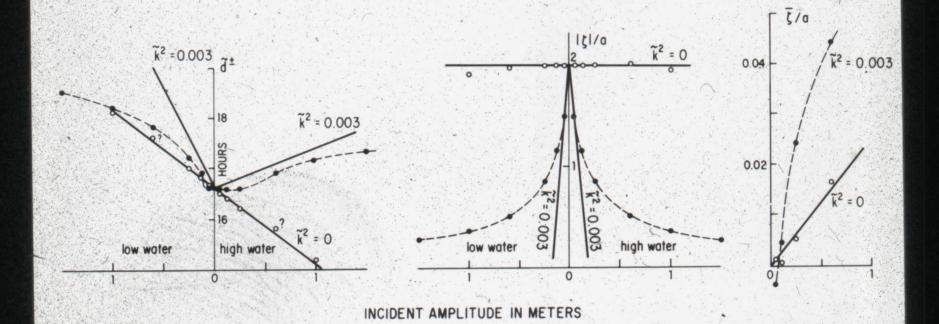
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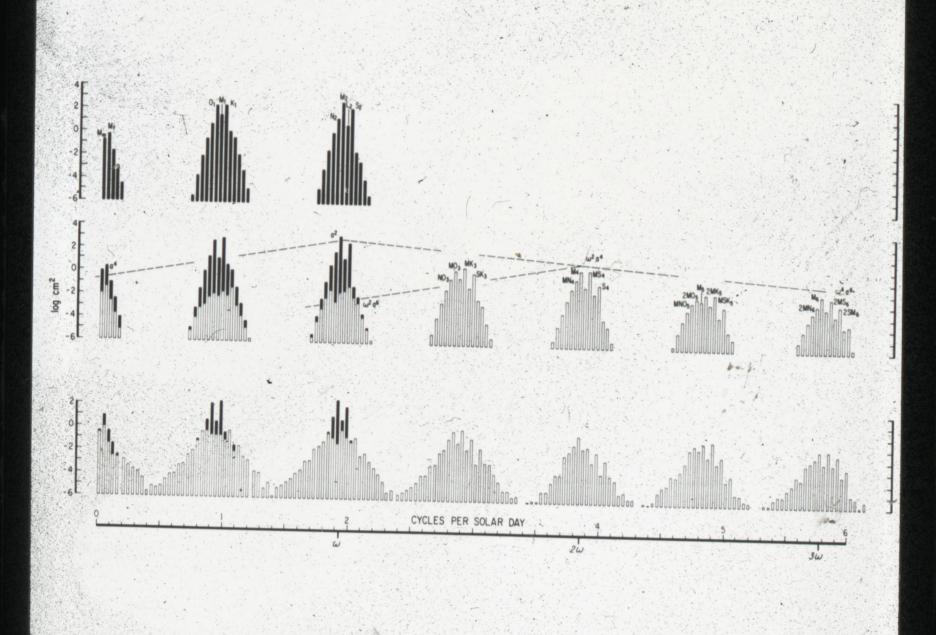
## Shallow tides/Tide theory

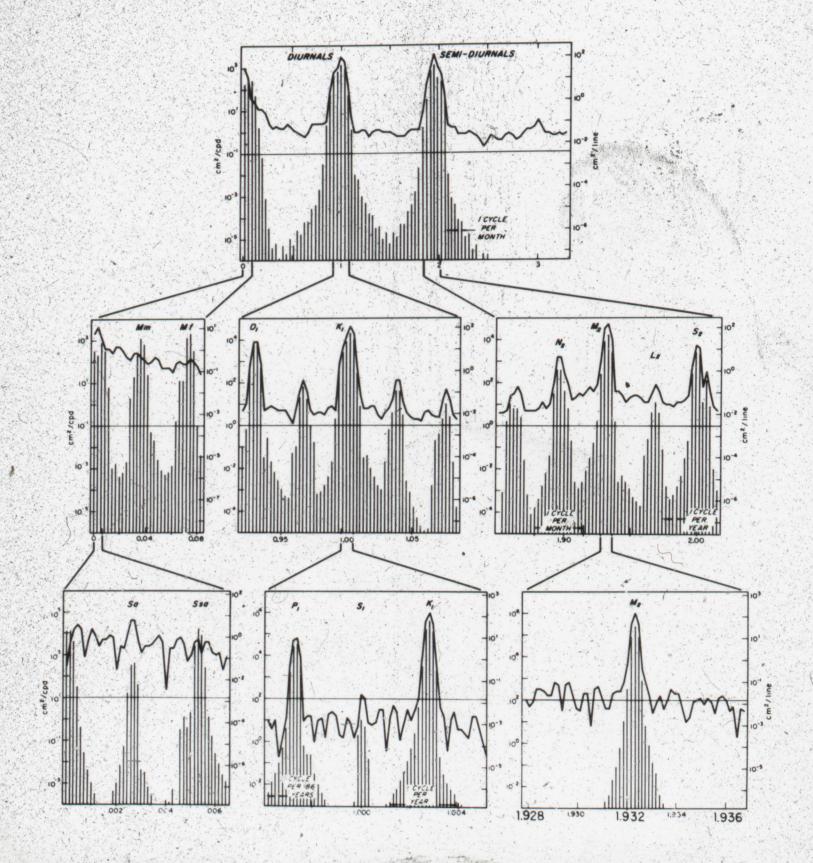
- 1. Incident amplitudes graph
- 2. Graph
- 3. Graph
- 4. Graph
- 5. Equations: tide potential, convolution prediction, harmonic prediction, nonlinear convolution, nonlinear harmonic
- 6. Graph
- 7. Graph
- 8. Graph
- 9. Graph
- 10. Graph
- 11. Graph
- 12. Graph
- 13. World chart of cotidal lines
- 14. Contours of gravitational potential, corresponding high tide

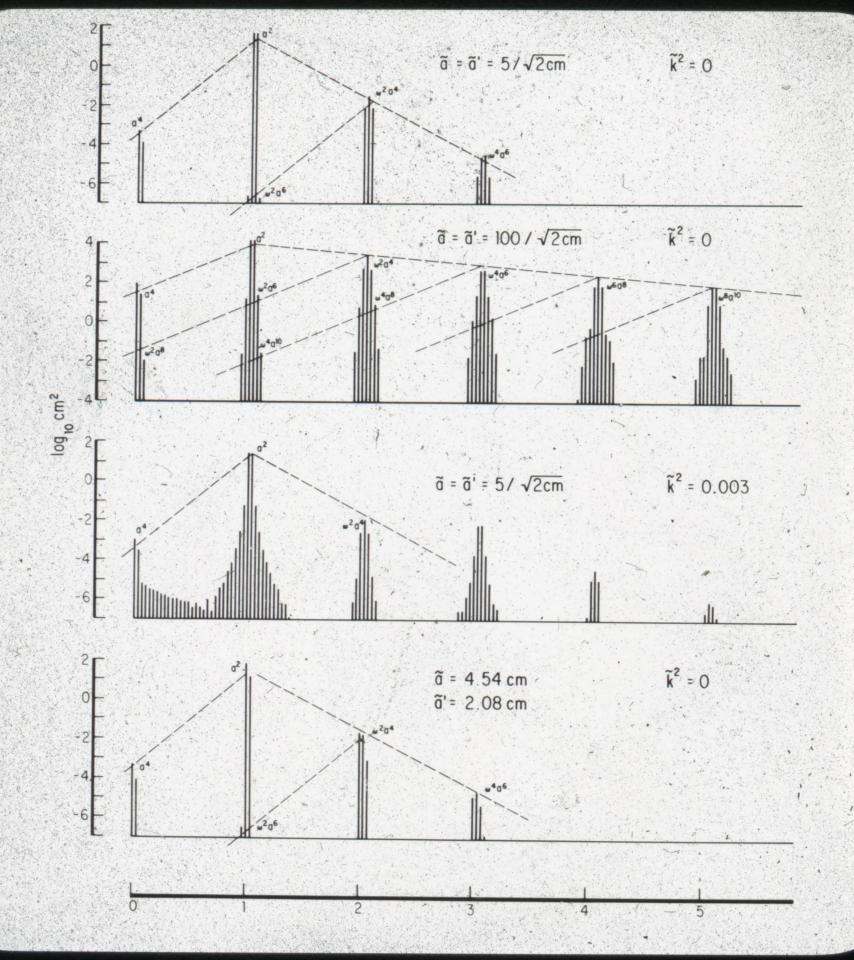
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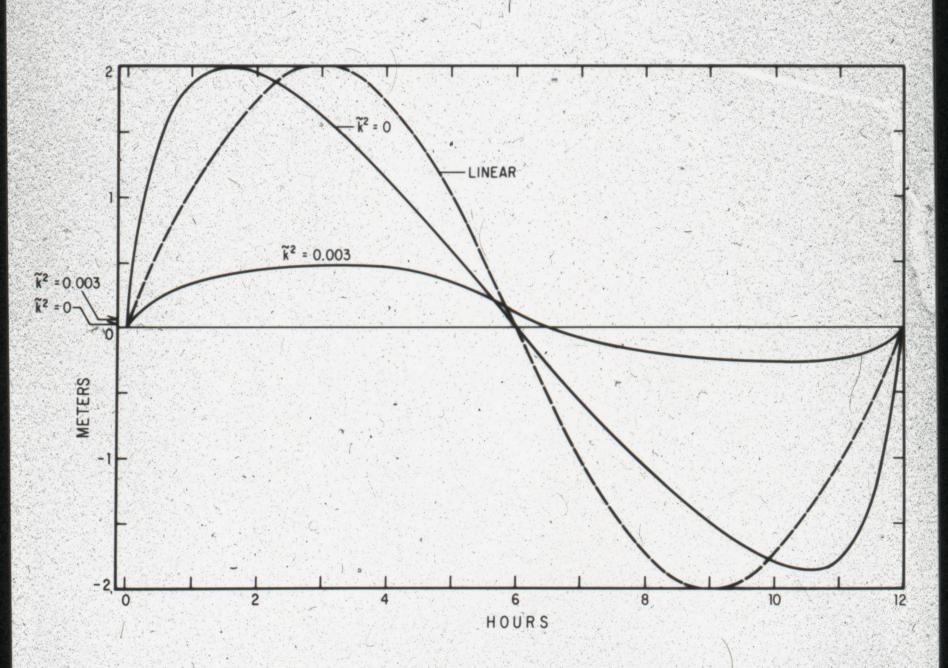
TIDE POTENTIAL

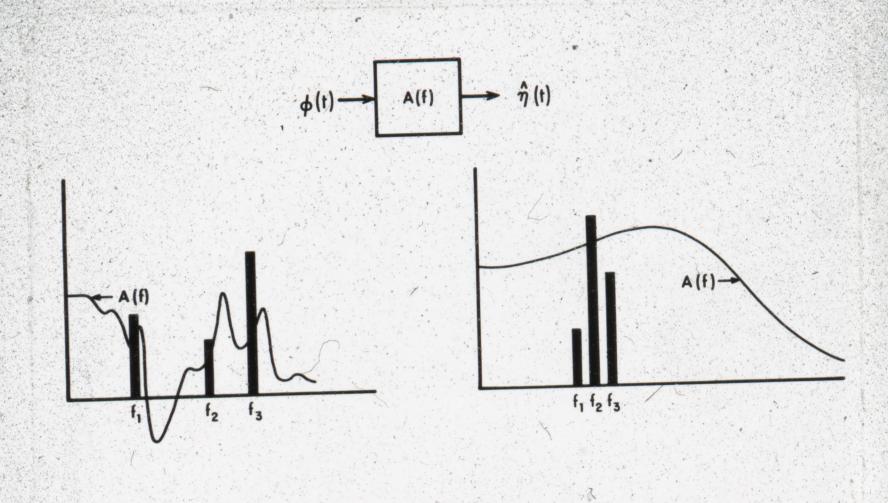
CONVOLUTION PREDICTION, LINER

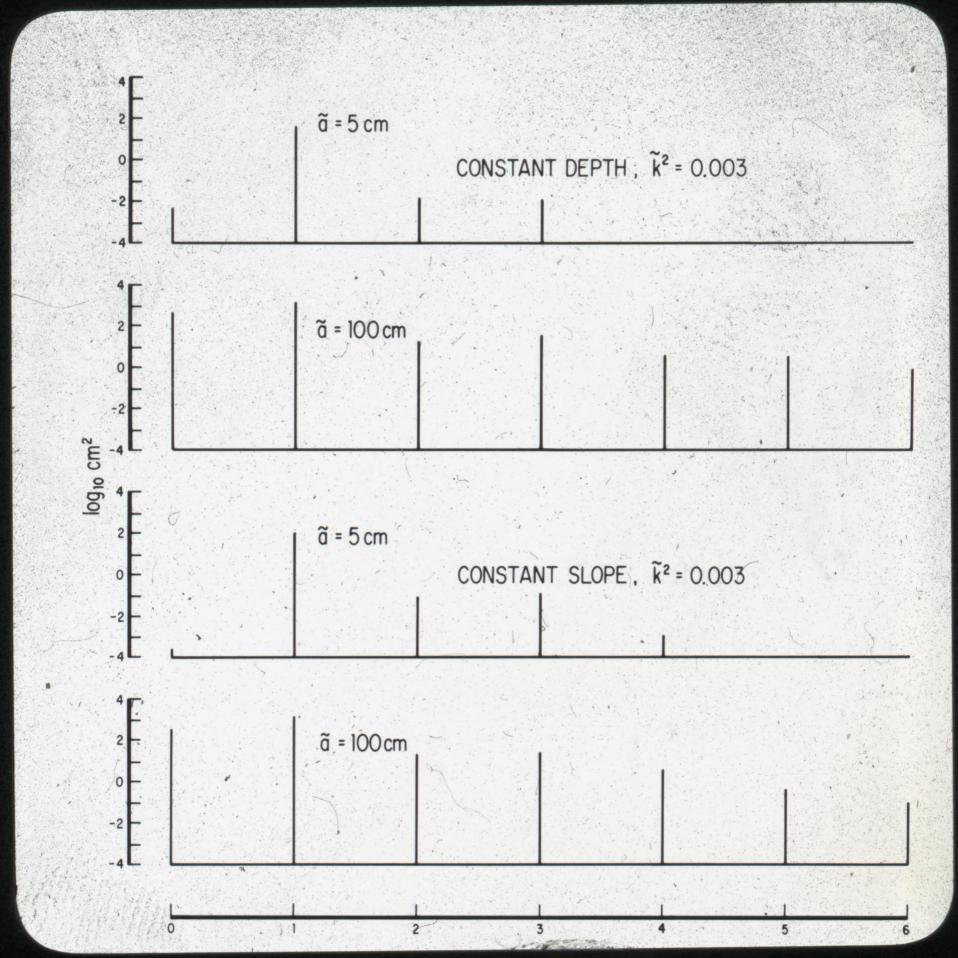
HARMONIC PREDICTION, LINEAR

NON-LINEAR WAYCLUTION

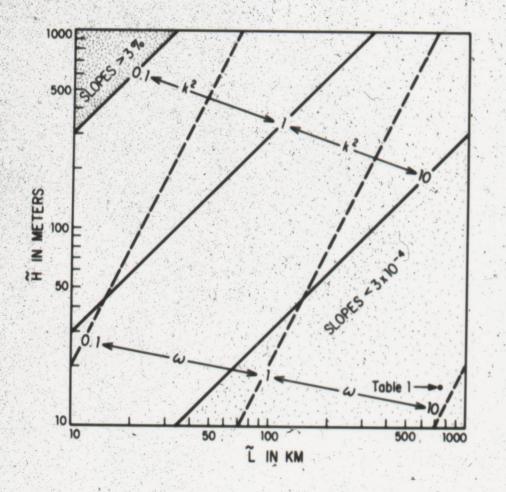
NON-LINEAR HARMONIC

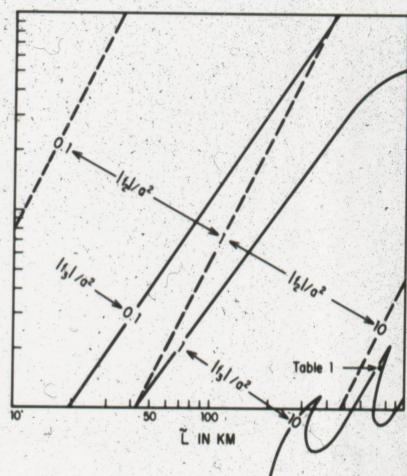


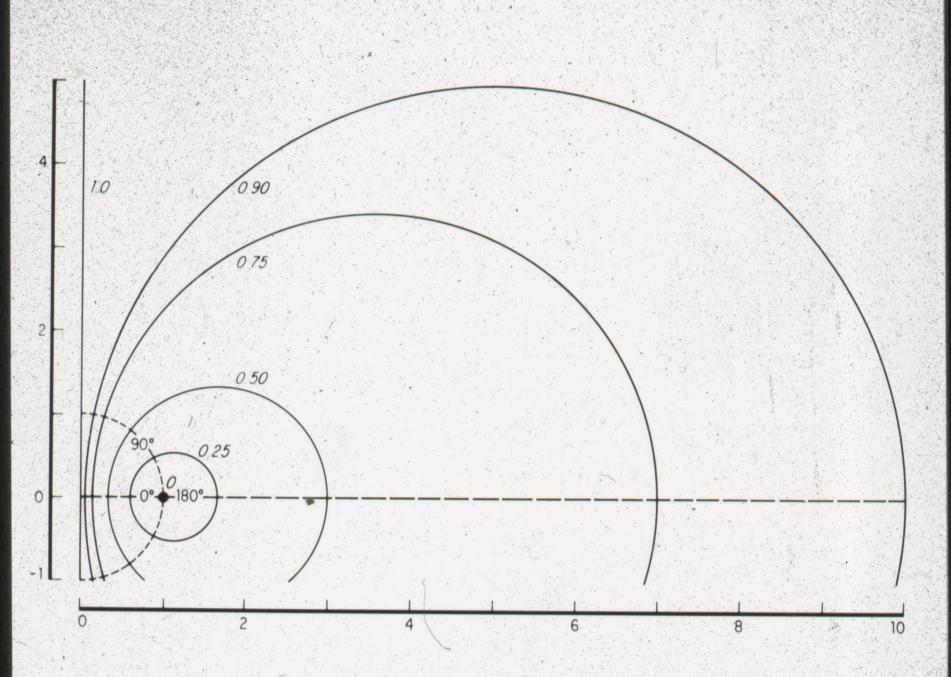


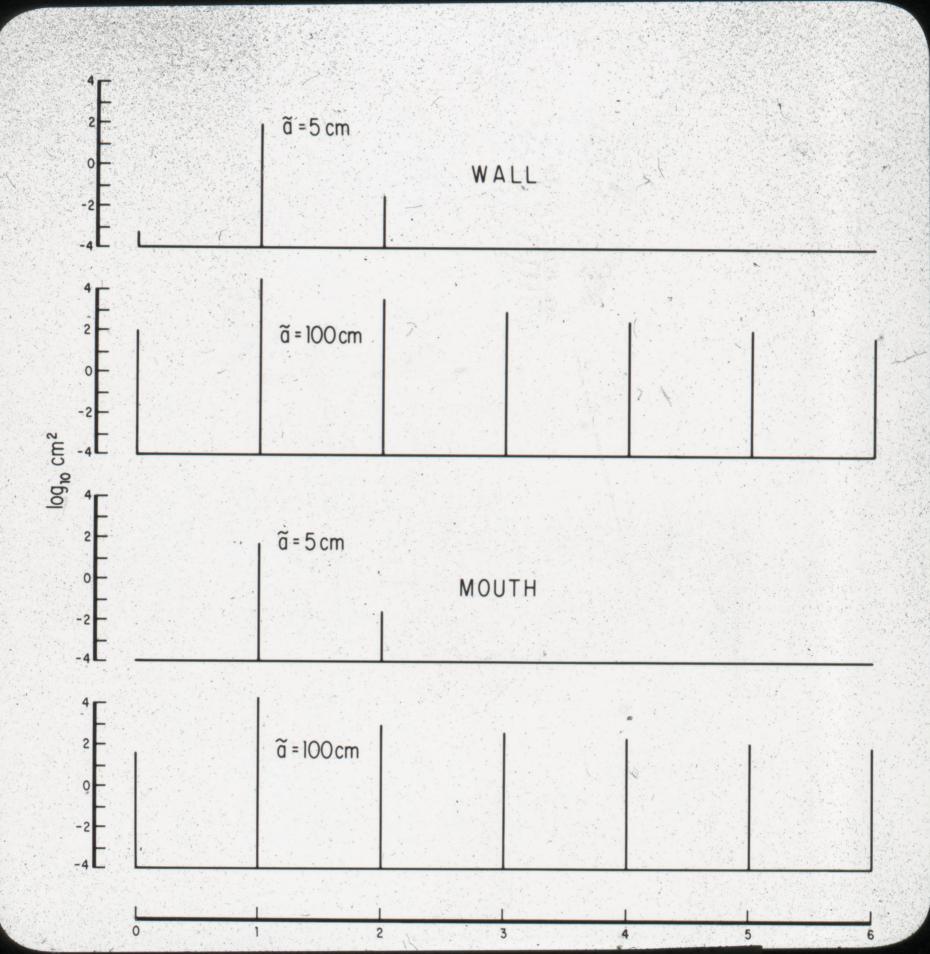


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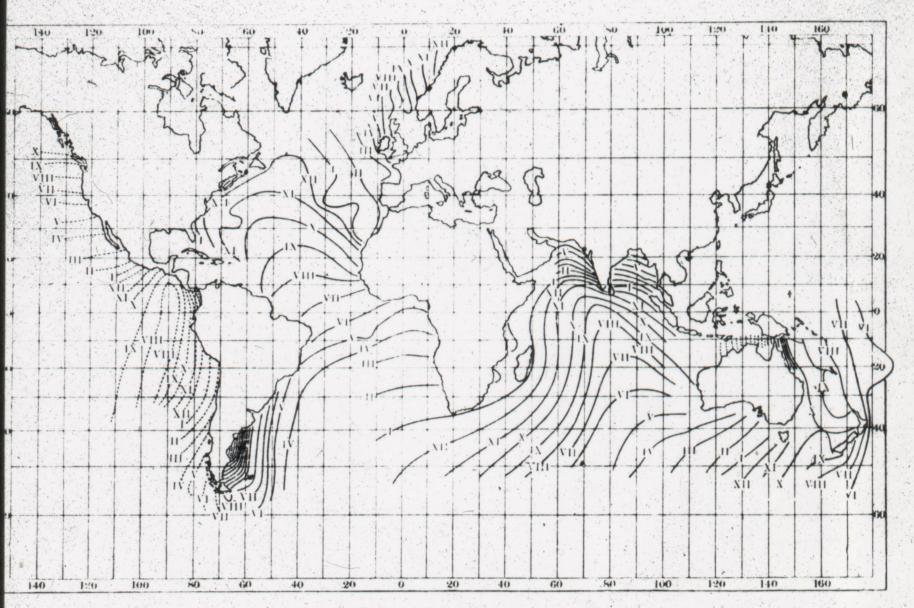
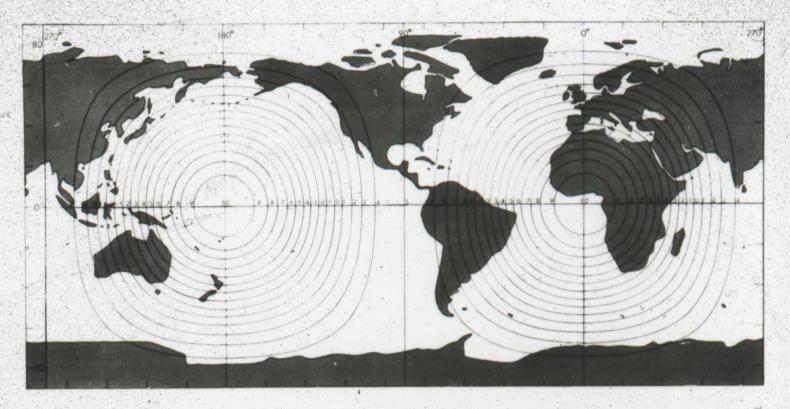
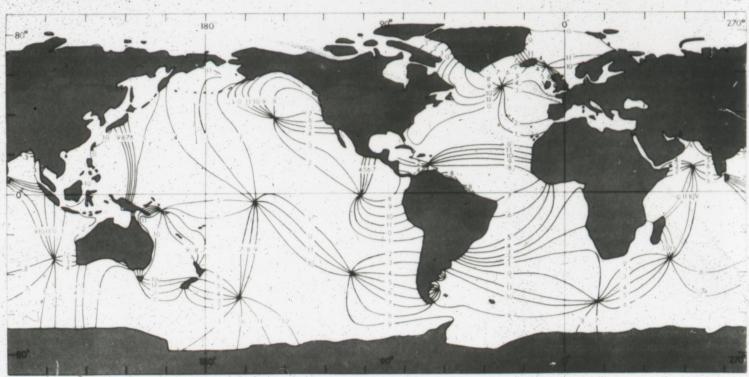


Fig. 32.—Chart of Cotidal Lines





CONTOURS OF GRAVITATIONAL POTENTIAL produced by a celestial body when it is above the equator at the Greenwich meridian (0 longitude) are shown in the top map. On a sphere these contours are actually circles. For the Moon 10 units represent 358 mm water; for the Sun they represent 162 mm. Contours in bottom map show positions of high tide at various hours after the situation represented in the top map, as estimated by G. Dietrich. Low tides are obtained by adding or subtracting six hours. At the nodal points, or amphidromes, some of which are conjectural, the rise and fall of the tide is zero