

S6

Data Analysis Concepts and Observational Methods: Supplementary Materials

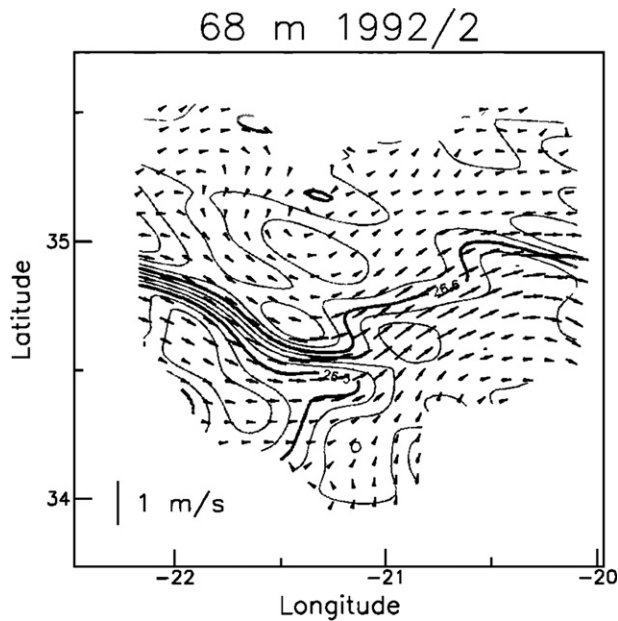


FIGURE S6.1 Objective mapping of density and acoustic Doppler current profiler velocity data. Azores Front: potential density and geostrophic velocity at 68 m in February, 1992. *Source: From Rudnick (1996).*

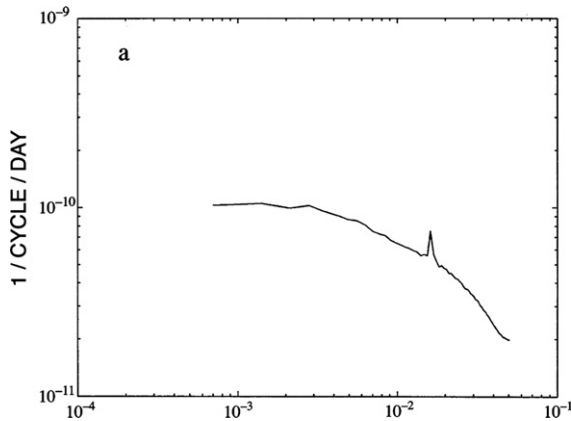


FIGURE S6.2 Spectral aliasing. Frequency spectral density of satellite altimetric sea-surface height. The small sharp peak at 60 days is an alias of the semi-diurnal tide. Source: From Stammer and Wunsch (1999).

References

- Davis, R.E., 1976. Predictability of sea surface temperature and sea level pressure anomalies over the North Pacific. *J. Phys. Oceanogr.* 6, 249–266.
- Rudnick, D.L., 1996. Intensive surveys of the Azores Front 2. Inferring the geostrophic and vertical velocity fields. *J. Geophys. Res.* 101, 16291–16303.
- Stammer, D., Wunsch, C., 1999. Temporal changes in eddy energy of the oceans. *Deep-Sea Res.* 46, 77–108.

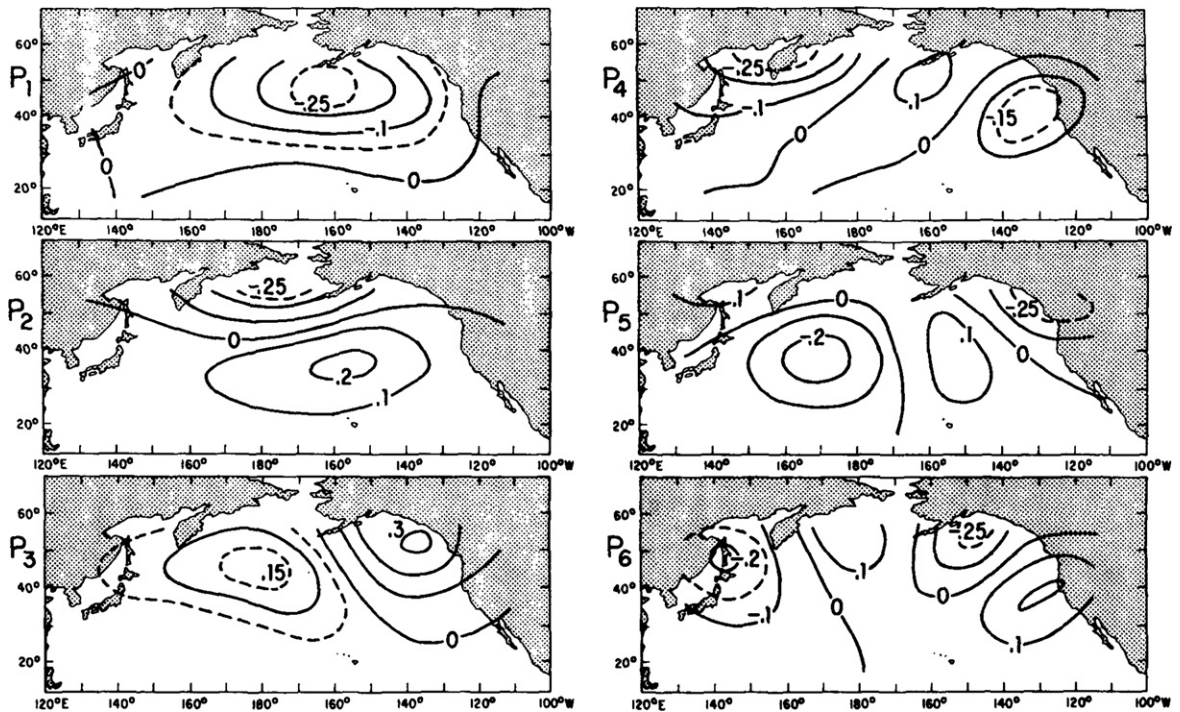


FIGURE S6.3 The six principal empirical orthogonal functions describing the sea level pressure anomalies in the North Pacific. ©American Meteorological Society. Reprinted with permission. Source: From Davis (1976).