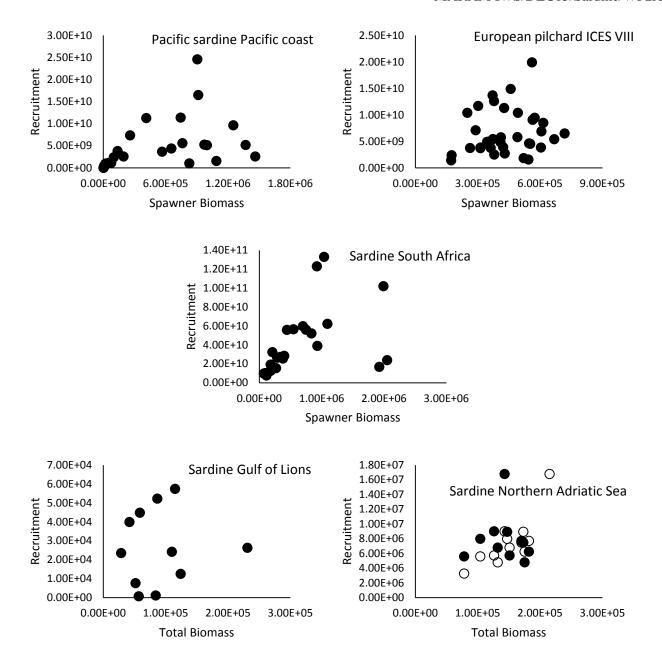# Sardine stock-recruitment relationships

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One of the items for discussion regarding the choice (if any) of a stock-recruitment relationship for South African sardine is to consider what relationships (if any) are visible in other sardine stocks. Figure 1 shows the model estimated recruitment v spawner biomass from the sardine stocks in the RAM legacy database v 3.0. Of the nine sardine stocks in the database, spawner biomass and recruitment time series are available for three stocks (including the South African sardine single stock model). In two other stocks recruitment is plotted against total biomass since a time series of spawner biomass was not available.

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**Figure 1.** Recruitment v Spawner Biomass as provided in the RAM Legacy Database v3.0. The two (open and closed) sets of points for sardine in the Northern Adriatic Sea represent my uncertainty to how the Total Biomass and Recruitment time series match up.