Larval anchovy catch distributions in the Kashimanada Sea relative to environmental features observed by satellite multi-sensor remote sensing

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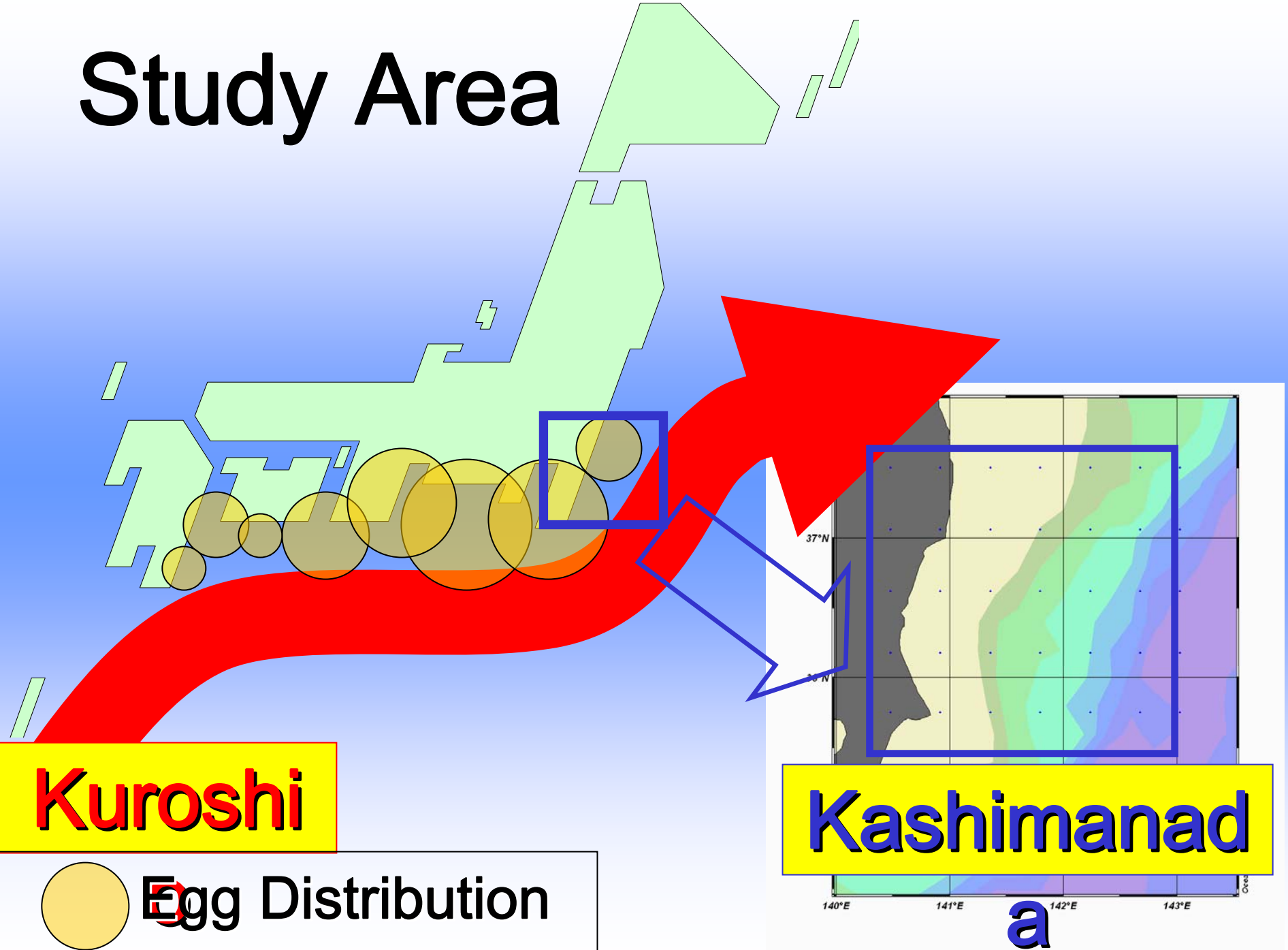
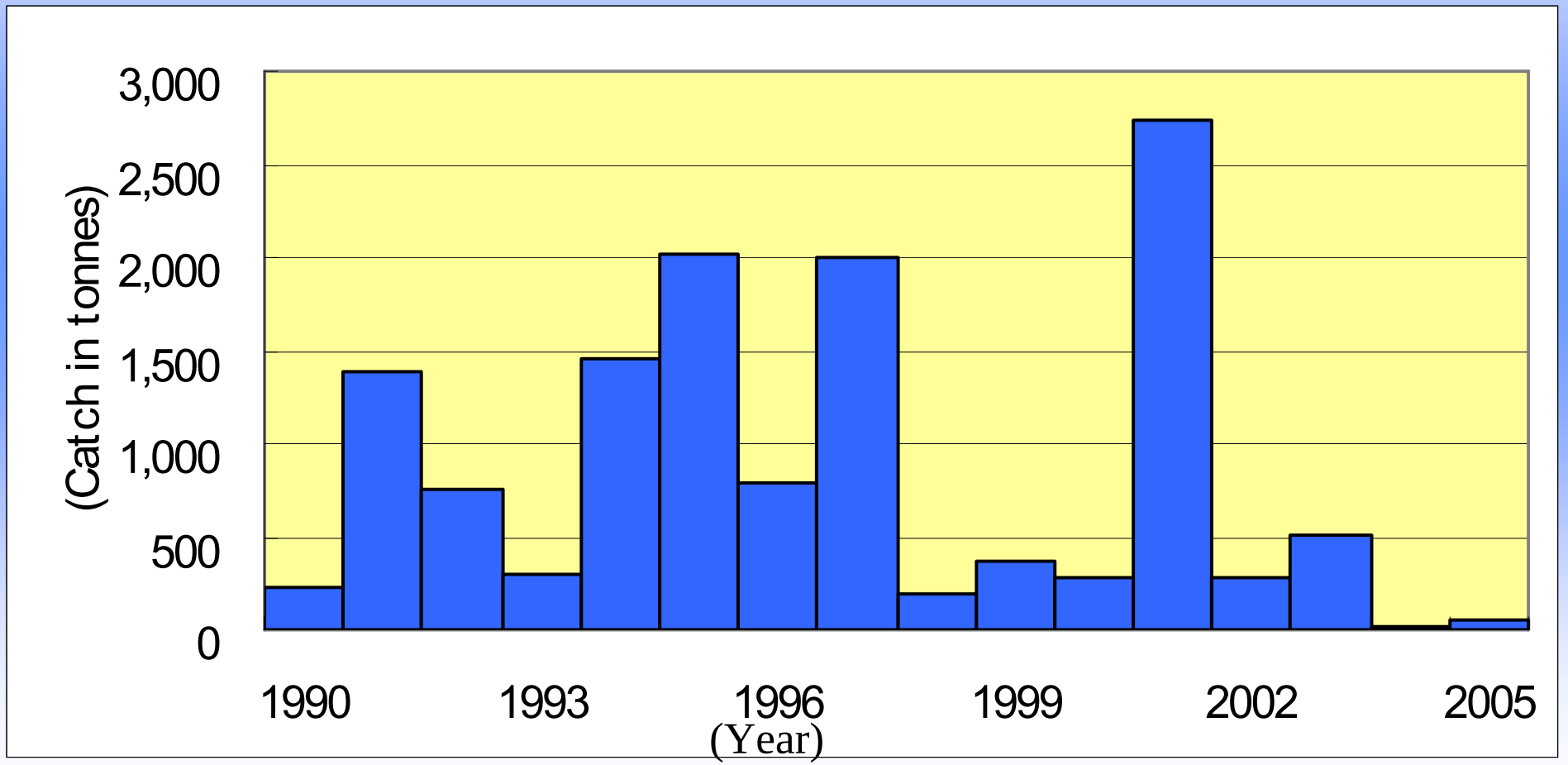
1 . Background

Larval Anchovy
(*Engraulis Japonica*)

Study Area


Kuroshi
Egg Distribution
Kashimanad
a
37°N
140°E
141°E
142°E
143°E

Catch Fluctuations of Larval Anchovy



2. Objectives

The objectives of this study are....

①To identify the cause of larval anchovy catch fluctuations

②To clarify the relationship between the distribution of larval anchovies in the Kashimanada sea and its relation to environment factors

3 . Data

Oceanic Conditions

①Sea Surface Temperature (NOAA/AVHRR)

② The Position Of the Kuroshio Axis

③Proximity Of the Kuroshio Axis

④Sea Surface Height (TOPEX)

Biological Data

①Larval Anchovy Catch

②Egg Distribution

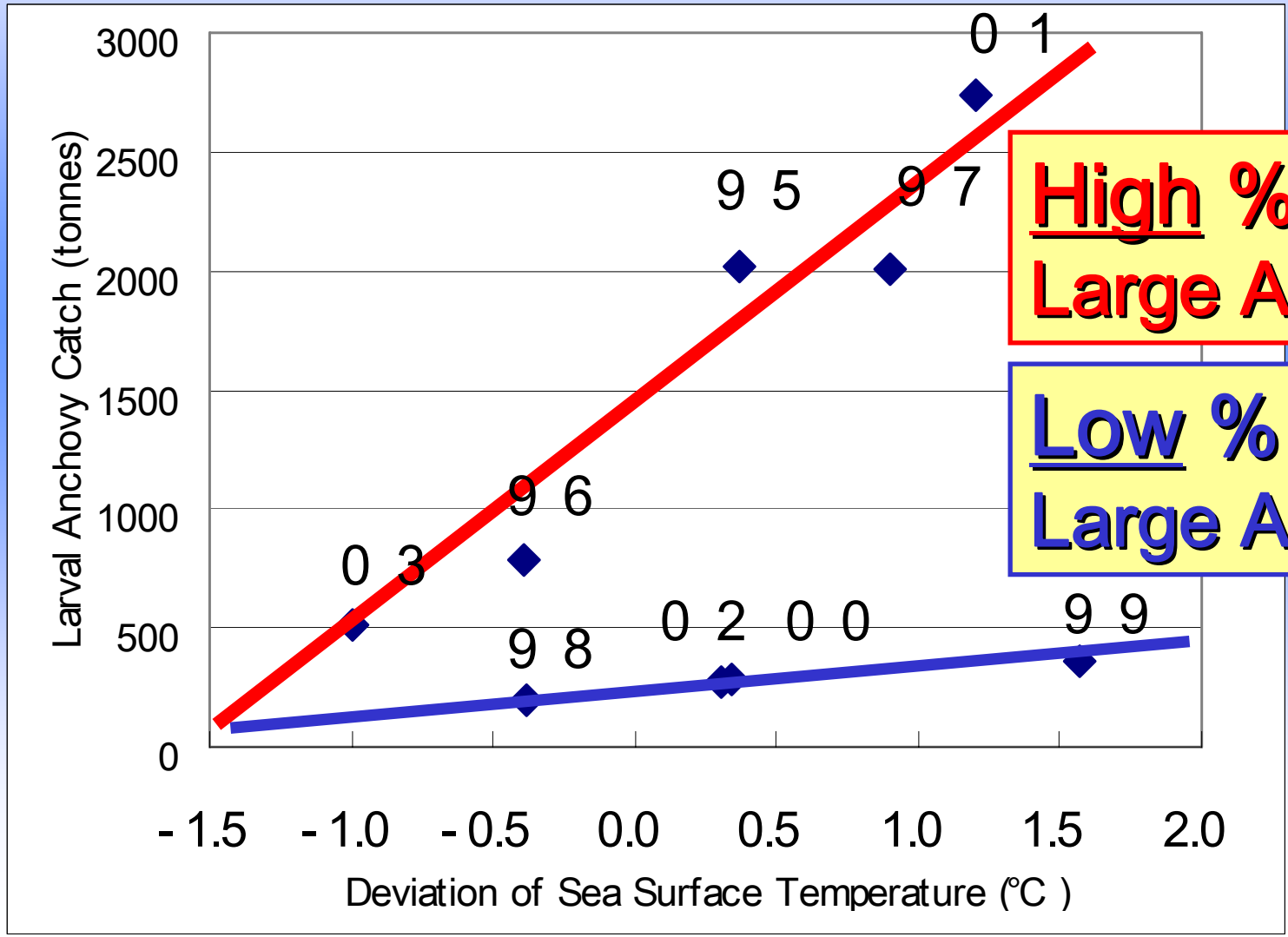
③Adult Anchovy Catch

④Body Length of Adult Anchovies

⑤Chlorophyll Concentration (SeaWiFS)

4. Results and Discussion

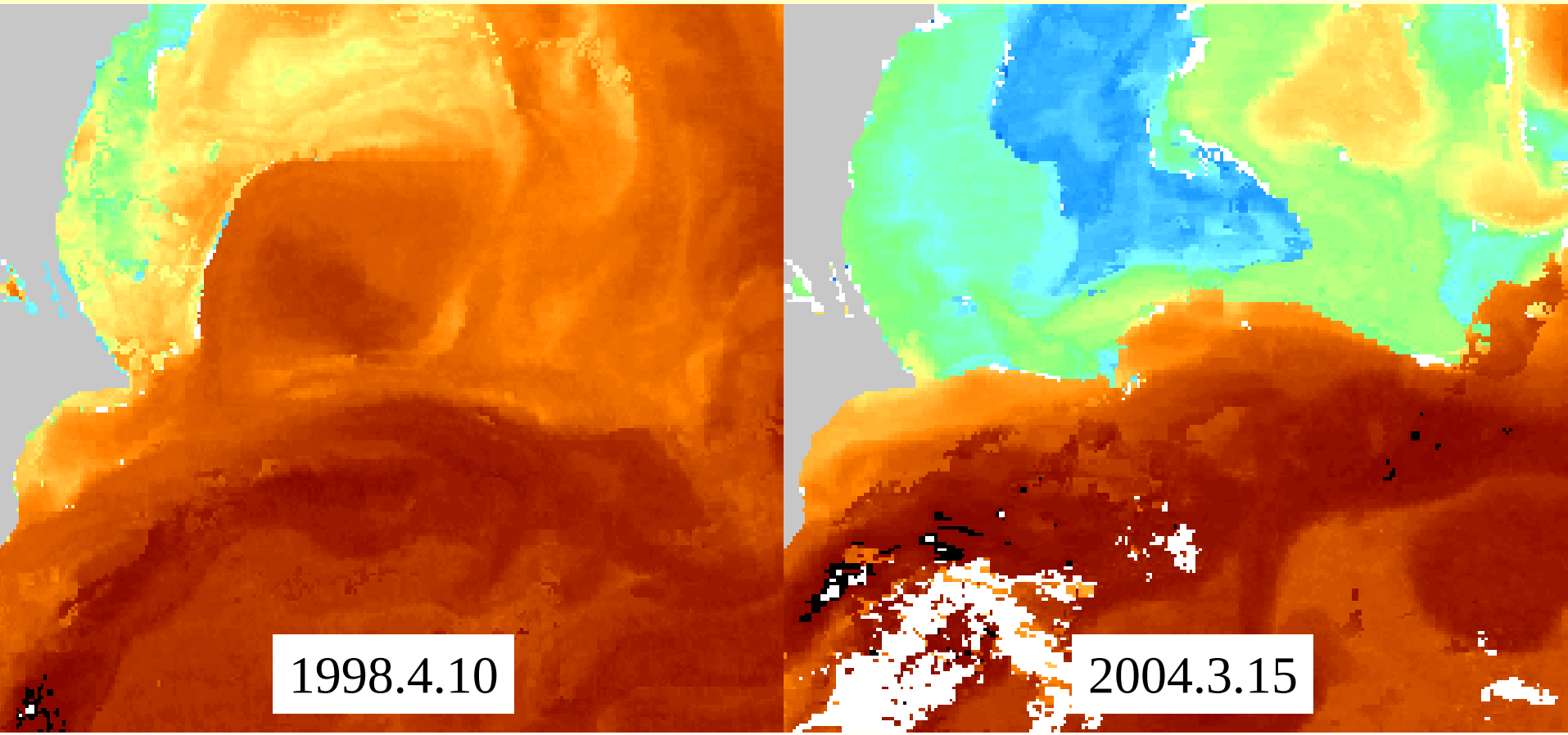
Relationship Between Larval Anchovy Catch and Sea Surface Temperature



Sea Surface Temperature

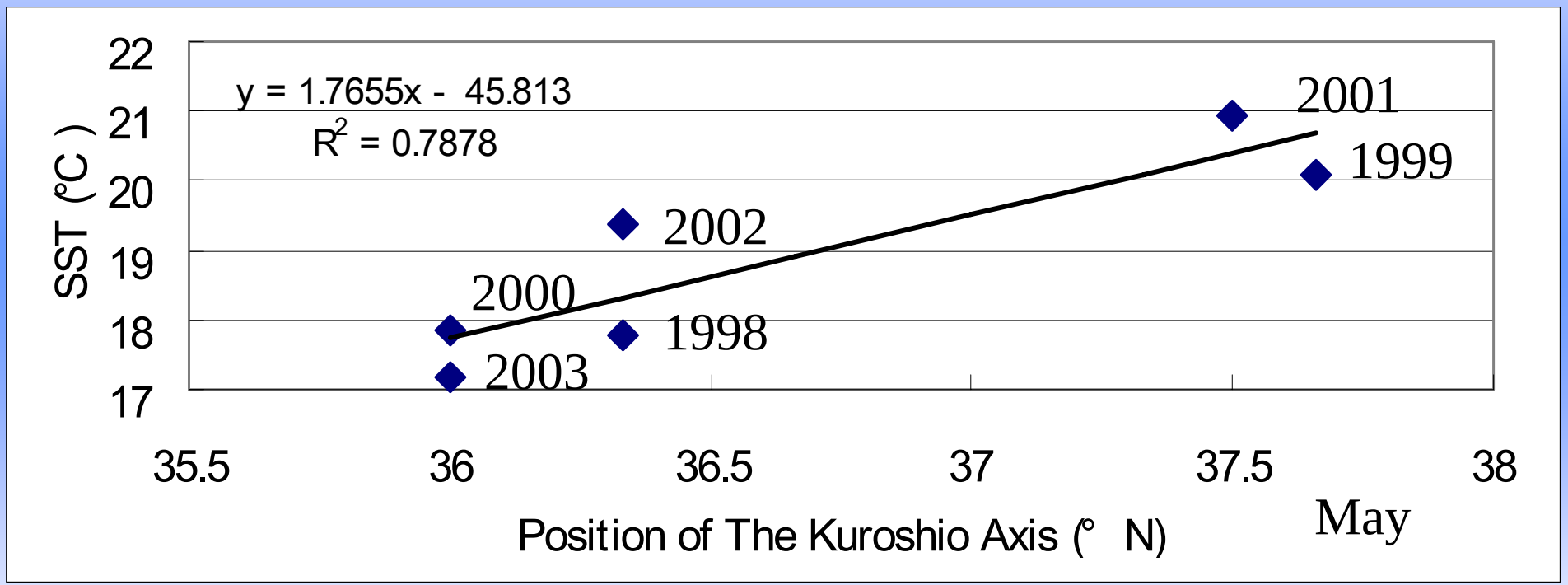
Warm Pattern

Cold Pattern

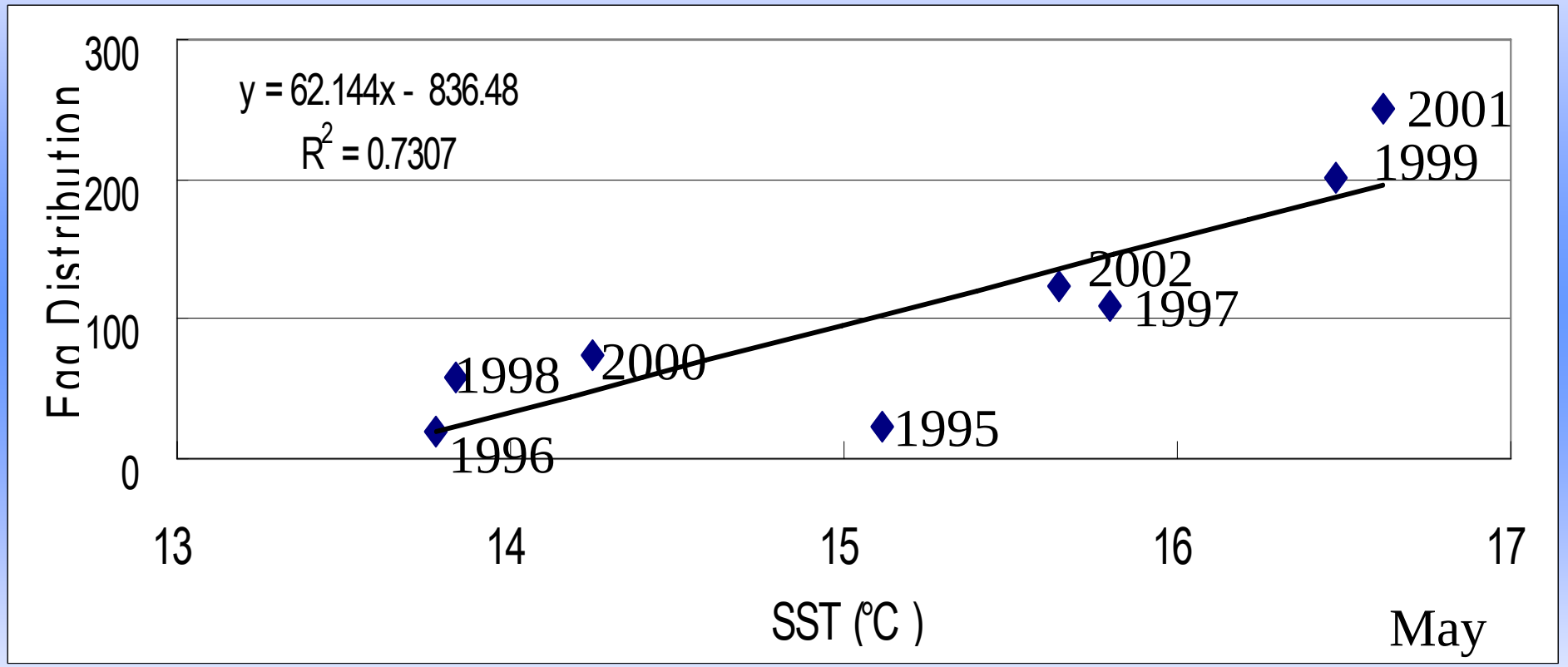


SST(NOAA/AVHRR)

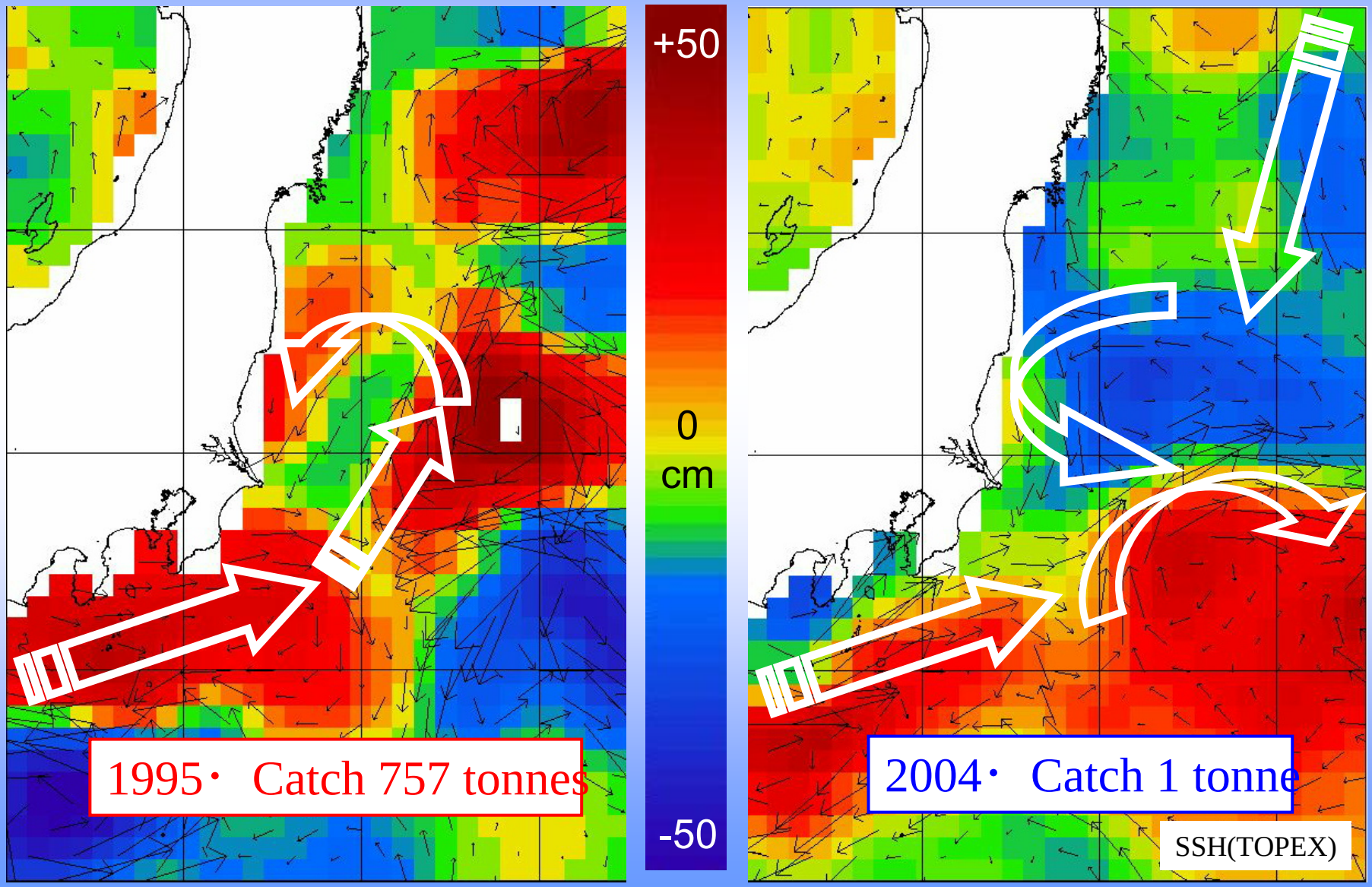
Relationship Between SST and Position of the Kuroshio Axis



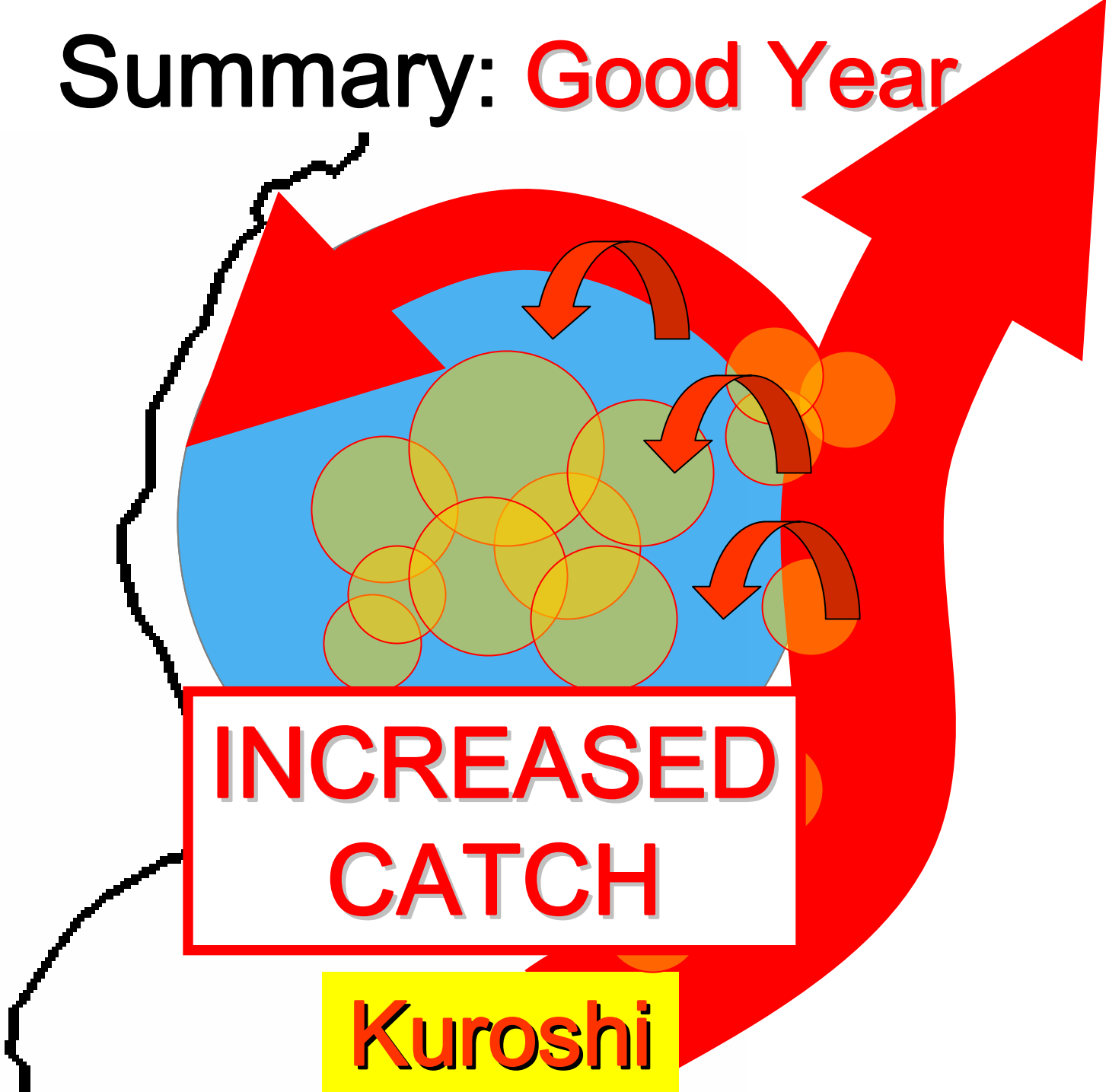
Relationship Between SST and Egg Distribution



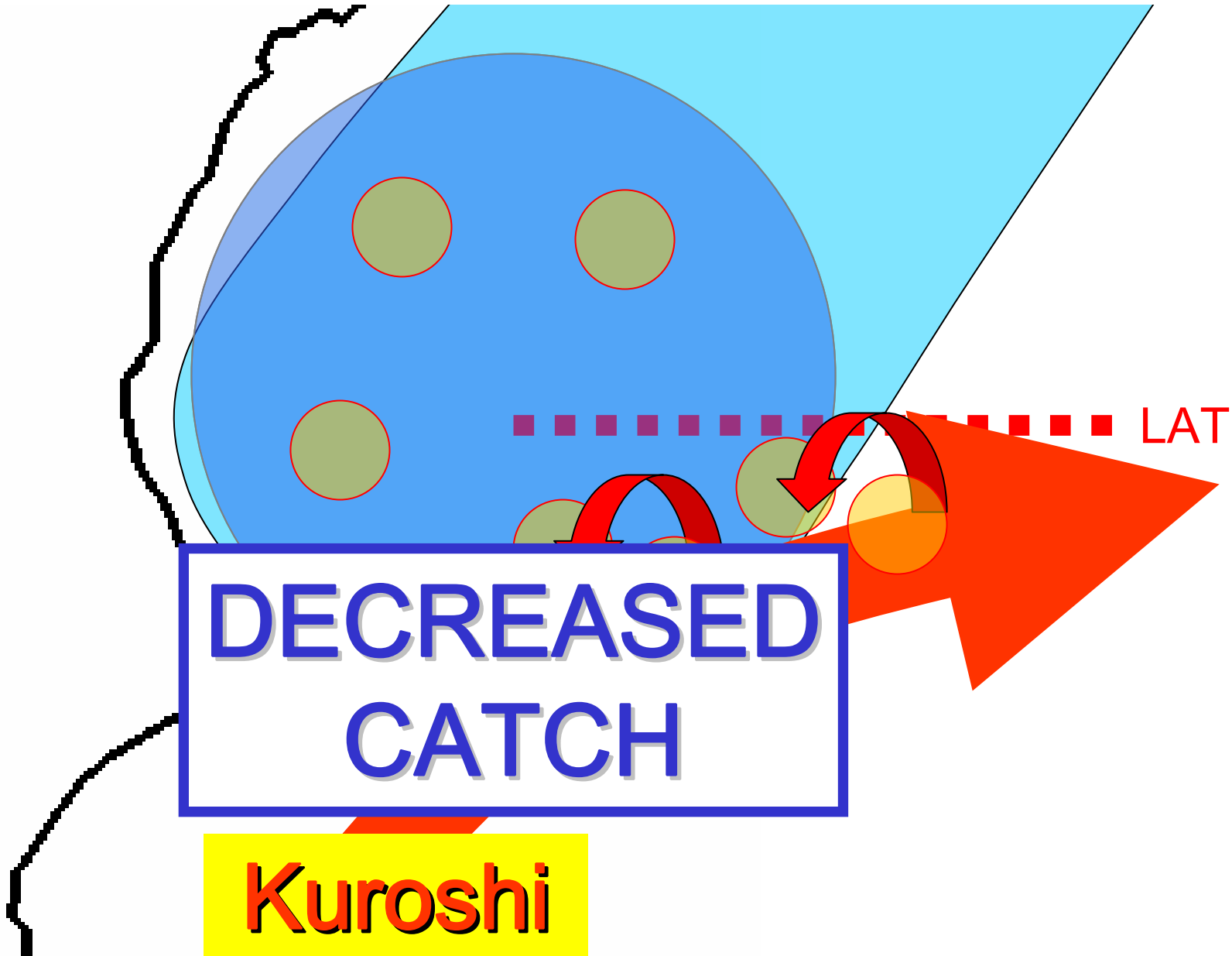
Sea Surface Height and Current



Summary: Good Year



Summary: Bad Year



Thank You !!