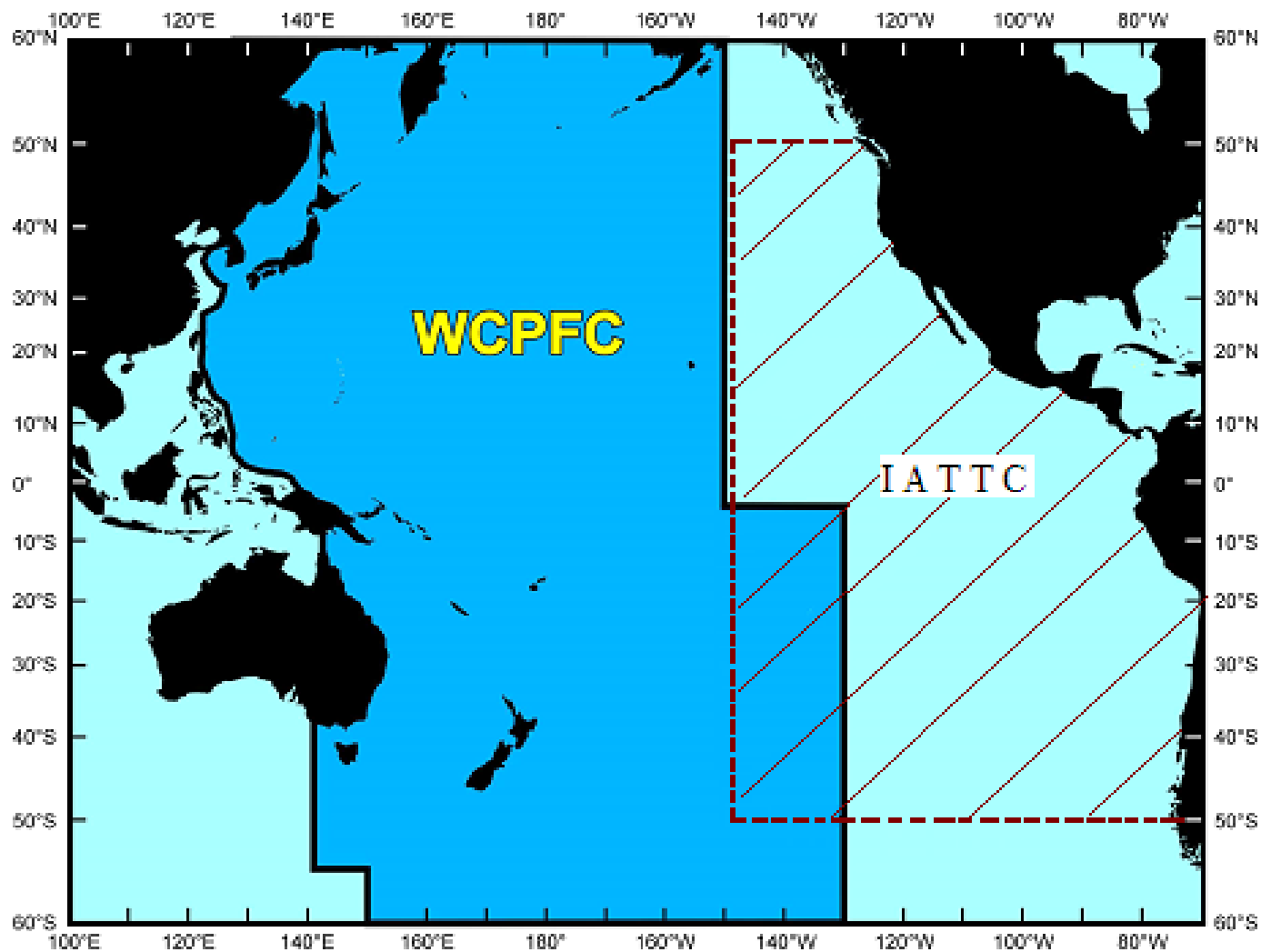
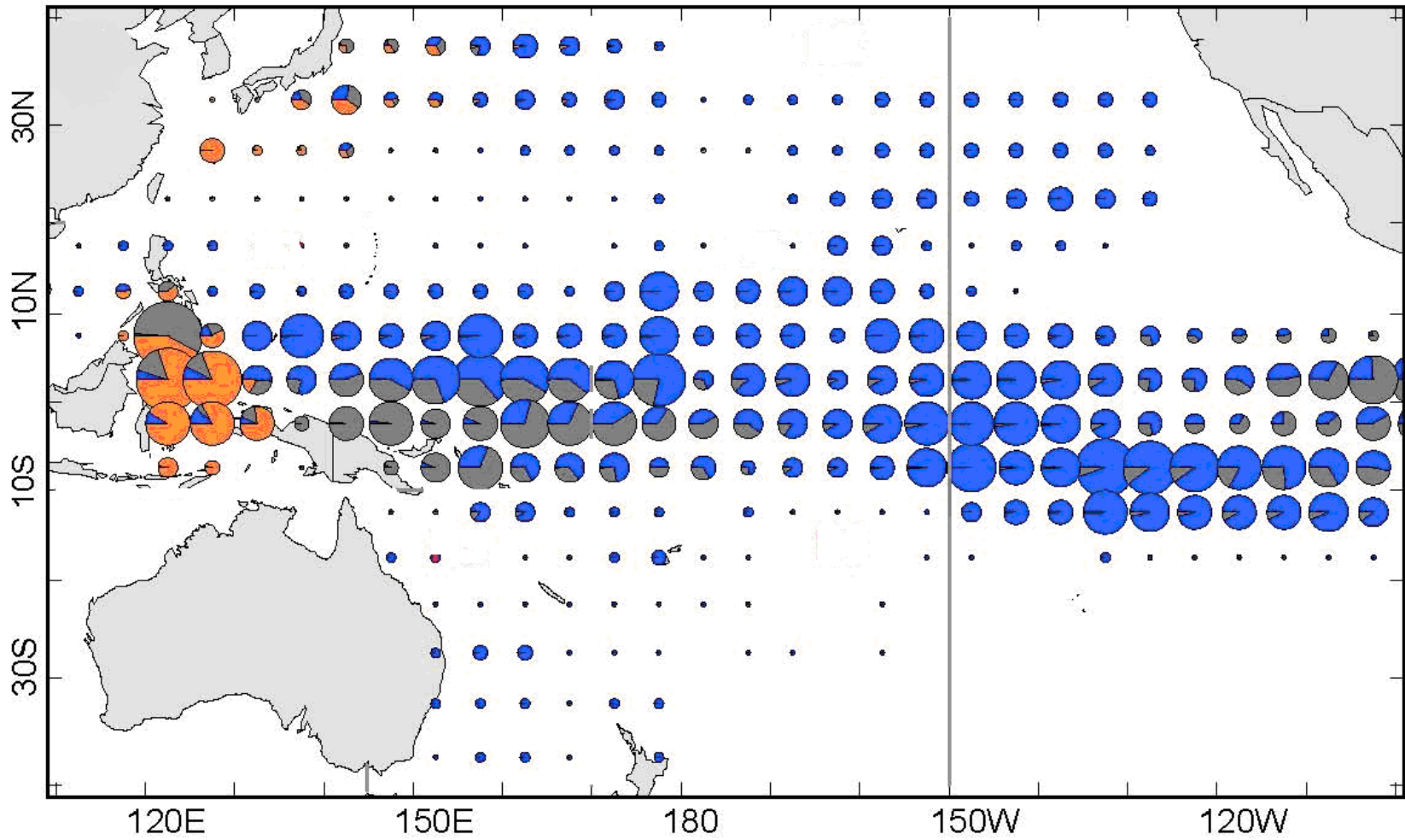


National Marine Fisheries Science Report Tuna & Billfish Research at SWFSC PFMC Meeting, March 10, 2008

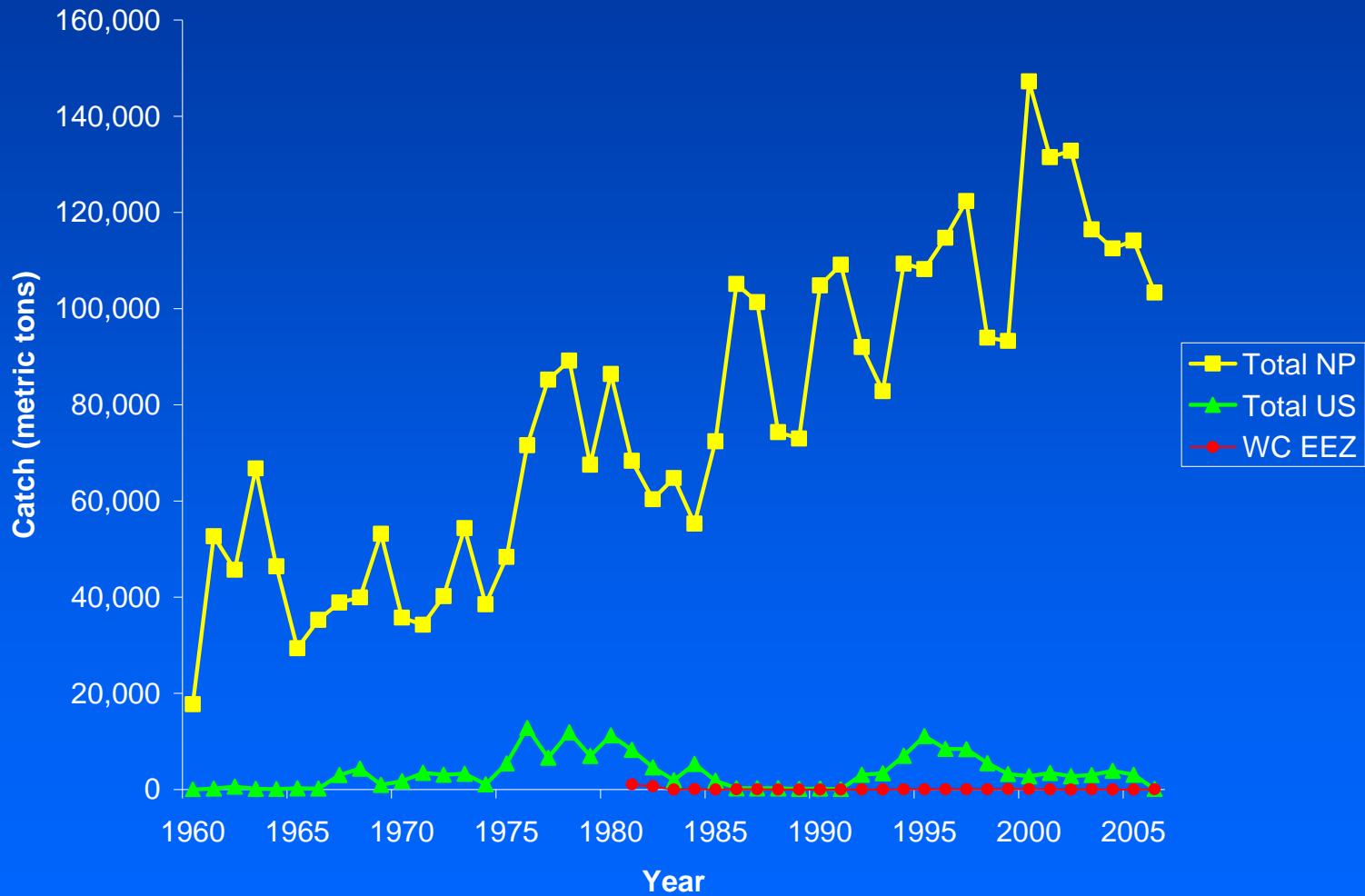
- PFMC and the RFMO's
- Distribution of tuna and billfish species - stock
- Score card for species - stock



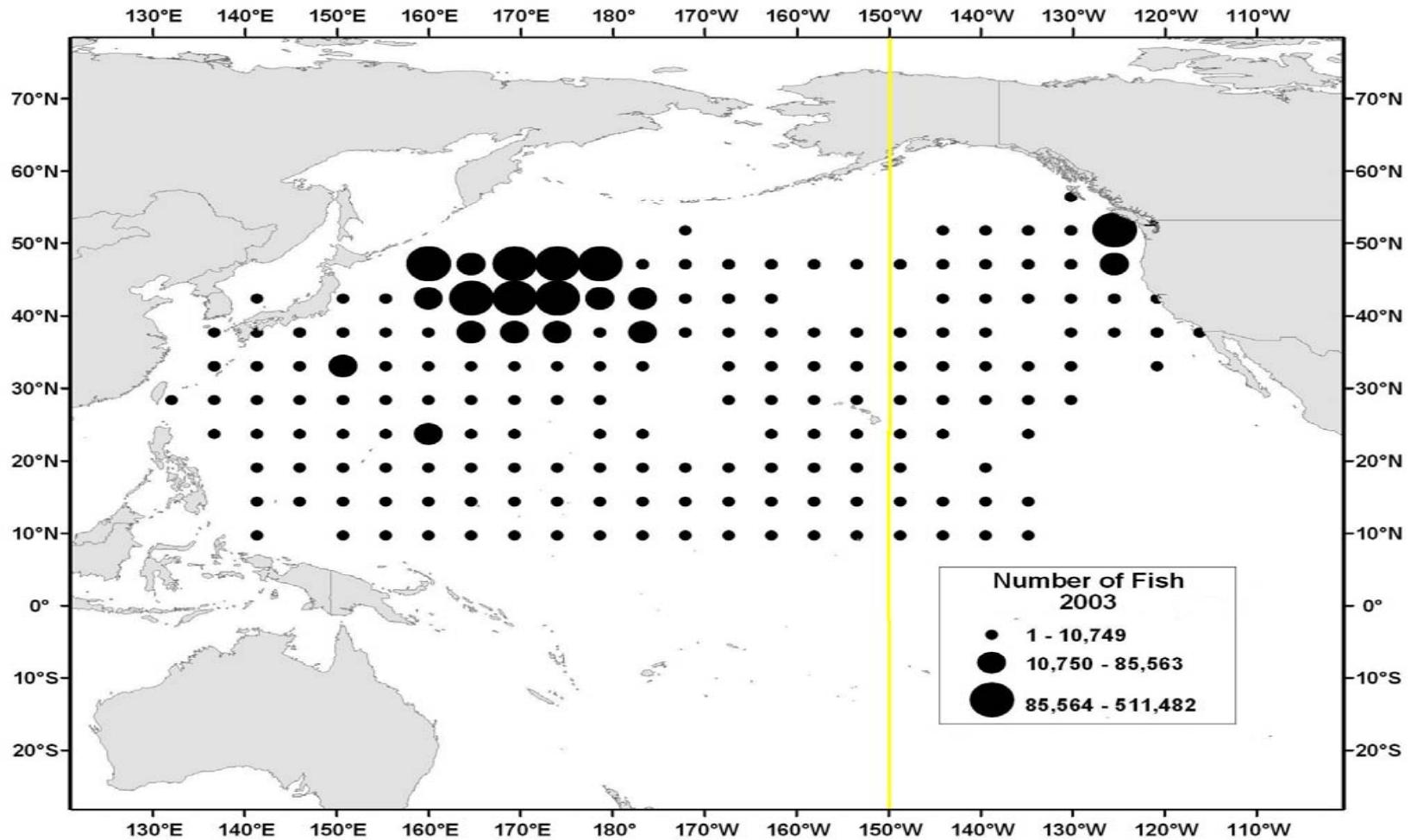
Bigeye Tuna Catch (1990-2004)



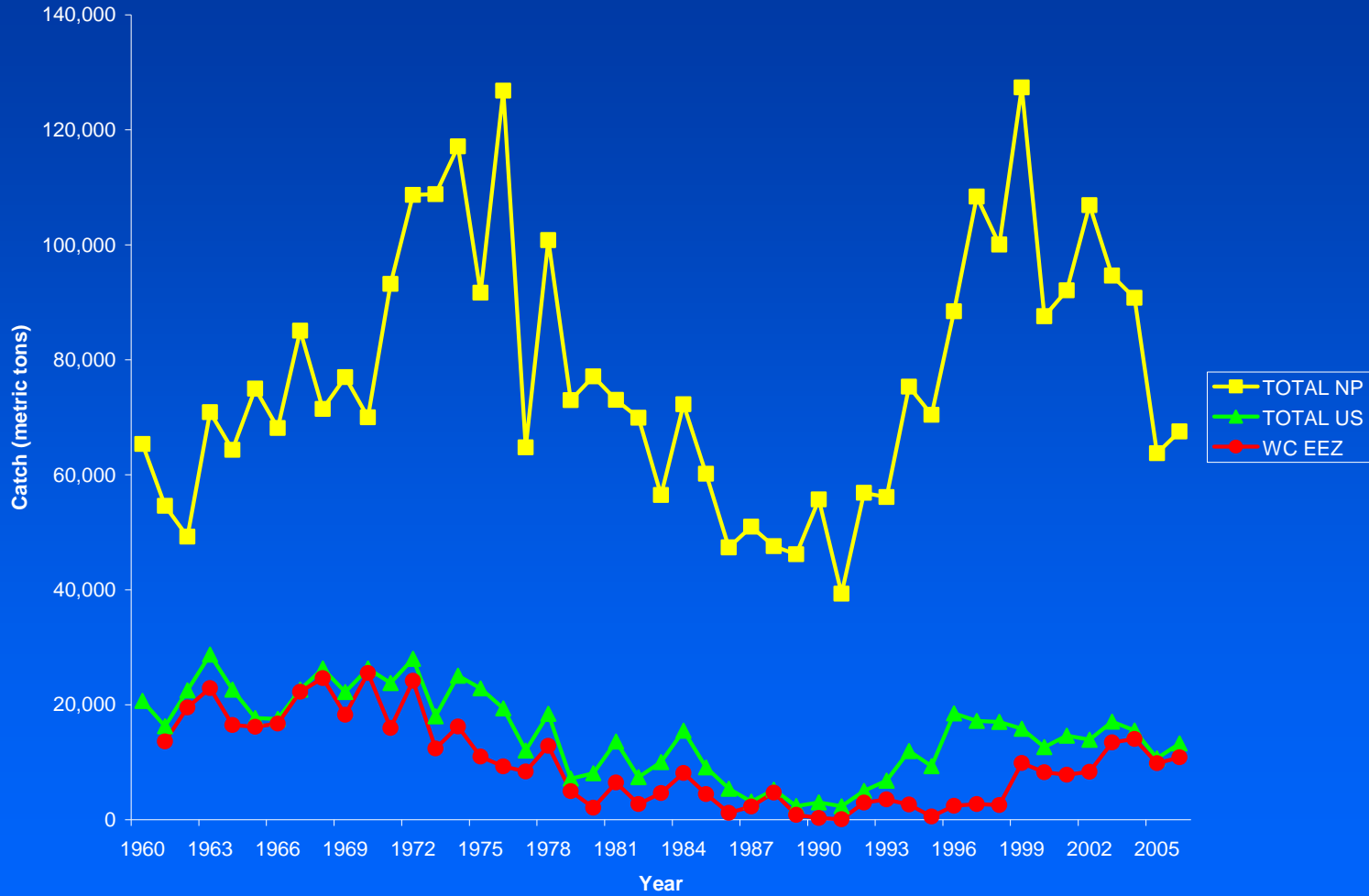
Catch Distribution – Bigeye Tuna



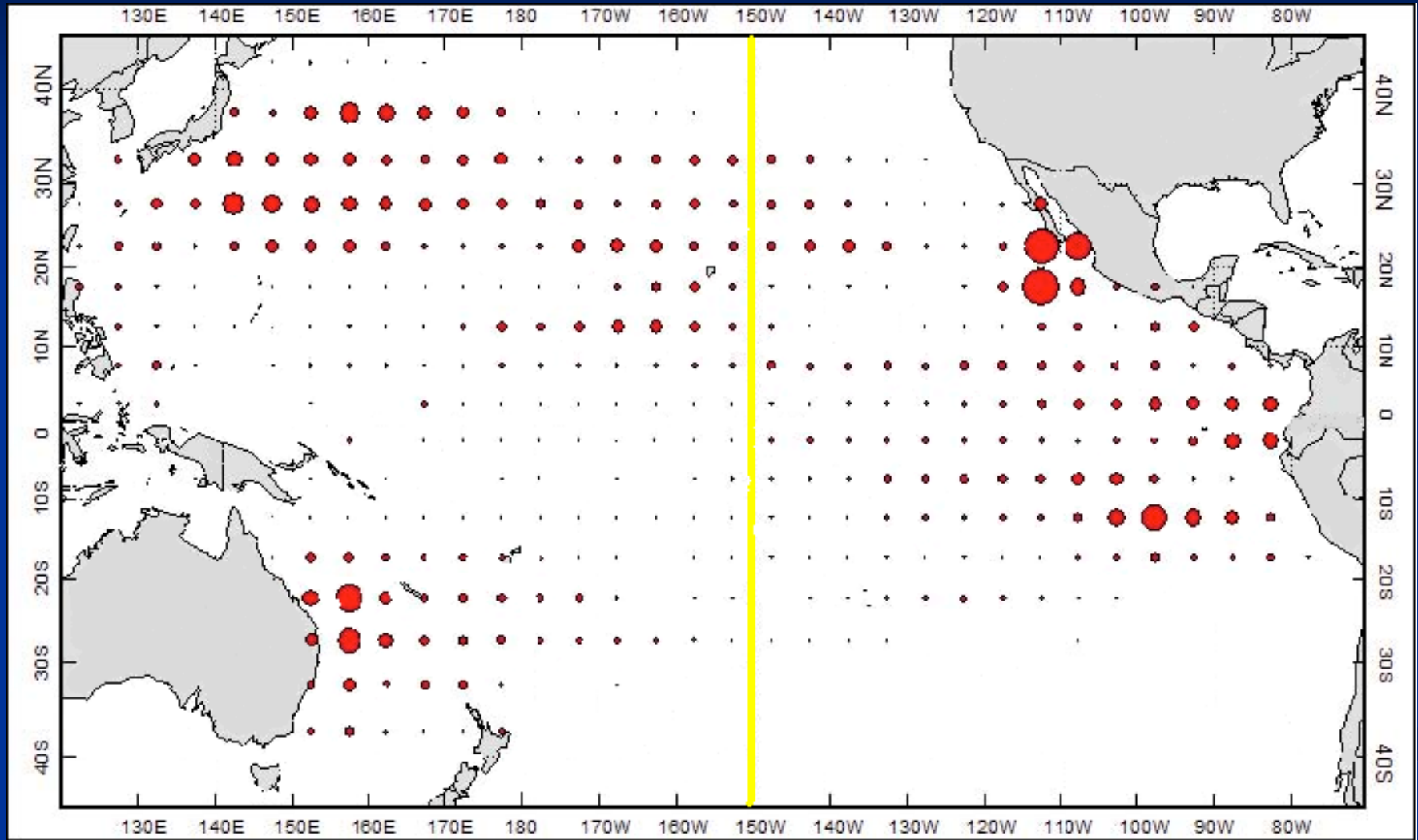
North Pacific Albacore Catch (2003)



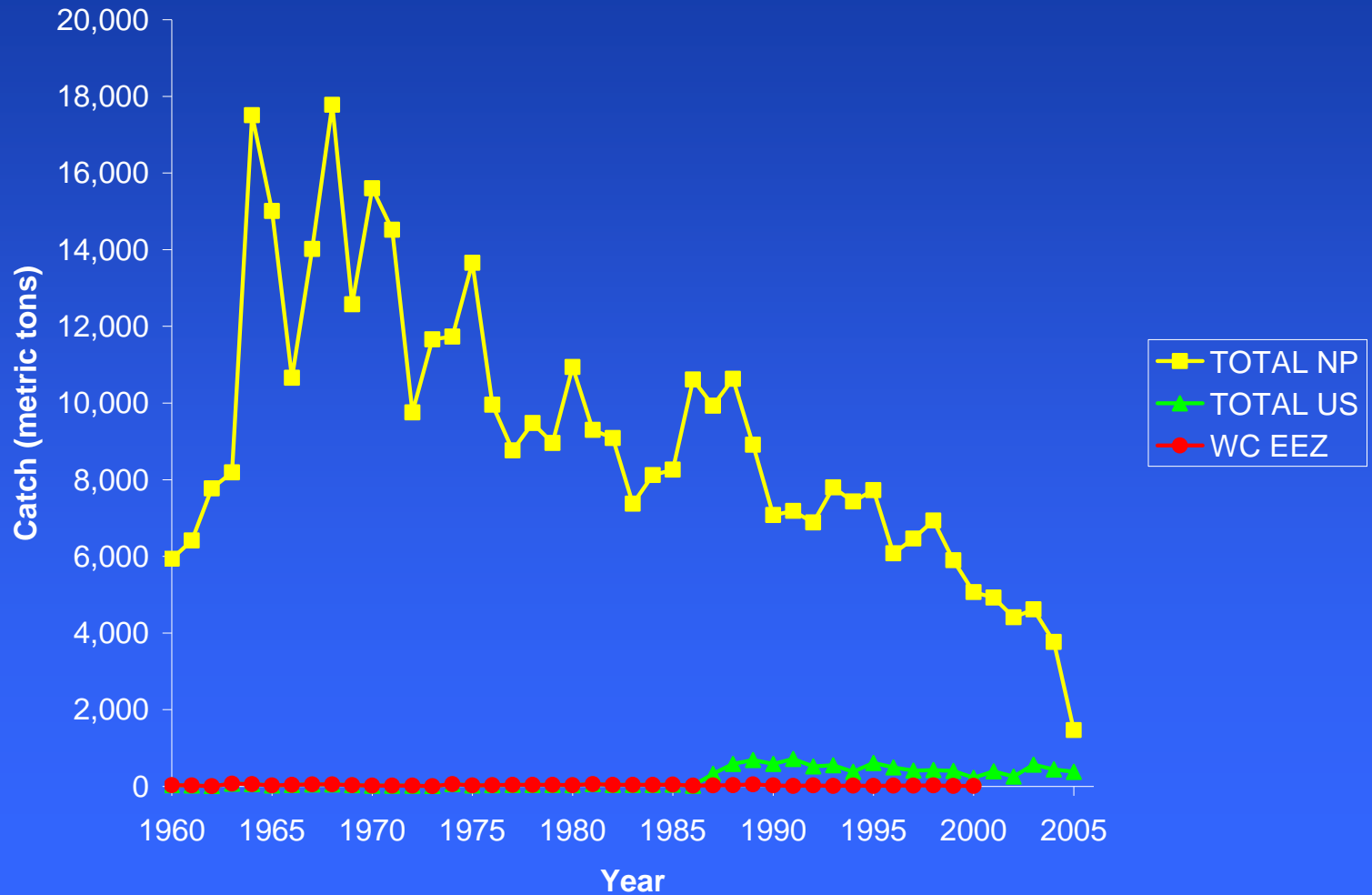
Catch Distribution - Albacore



Striped Marlin Longline Catch (1952-2004)



Catch Distribution – Striped Marlin



Score Card for species stock – March 2008

| Species-Stock | RFMO | Fcurrent | SP ratio | BRP | | Next Full Assessment |
|----------------------------|------------------|----------|----------|---------------------|---------------------|----------------------|
| | | | | Overfishing | Overfished | |
| EPO Bigeye Tuna | IATTC | | 0.20 | Fcurrent/Fmsy* 1.23 | Bcurrent/Bmsy* 1.08 | May '08 |
| NPO Albacore | IATTC & WCPFC | 0.75 | >1.0 | Undecided | Undecided | July '09 |
| NPO Stripped Marlin | IATTC & WCPFC | 0.72 | 0.09 | Undecided | Undecided | July '09 |
| PO Pacific Bluefin Tuna | IATTC & WCPFC | (high) | Unk | Undecided | Undecided | July '08 |
| NPO Swordfish | IATTC & WCPFC | (low) | Unk | Undecided | Undecided | '09 |

Conservation Advice and Action

| Species-Stock | RFMO | Science | Year | Conservation Advice | RFMO Action |
|-------------------------|---------------|---------|------|---------------------|-------------|
| EPO Bigeye Tuna | IATTC | IATTC | 2007 | Reduce F by ~15% | No |
| EPO Yellowfin Tuna | IATTC | IATTC | 2007 | Reduce F by ~3% | No |
| NPO Albacore | IATTC & WCPFC | ISC | 2007 | Reduce F | No* (WCPFC) |
| NPO Striped Marlin | IATTC & WCPFC | ISC | 2007 | Reduce F | No (WCPFC) |
| PO Pacific Bluefin Tuna | IATTC & WCPFC | ISC | 2007 | No increase in F | No (WCPFC) |
