

Andy Bakun (1939-2025)

A life's
celebration

PICES

3rd Annual Meeting

Nemuro, Hokkaido,
Japan 15-24, 1994.

Key scientific questions :

- How do **interannual and decadal variations in ocean conditions** affect the species dominance, biomass, and productivity?
- Are **regime shifts** in the eastern and western sides of the North Pacific basin in-phase?
- How are the open and coastal N. Pacific **ecosystems structured**?



John Hunter &
Andy Bakun



Andy Bakun &
Qisheng Tang

PICES

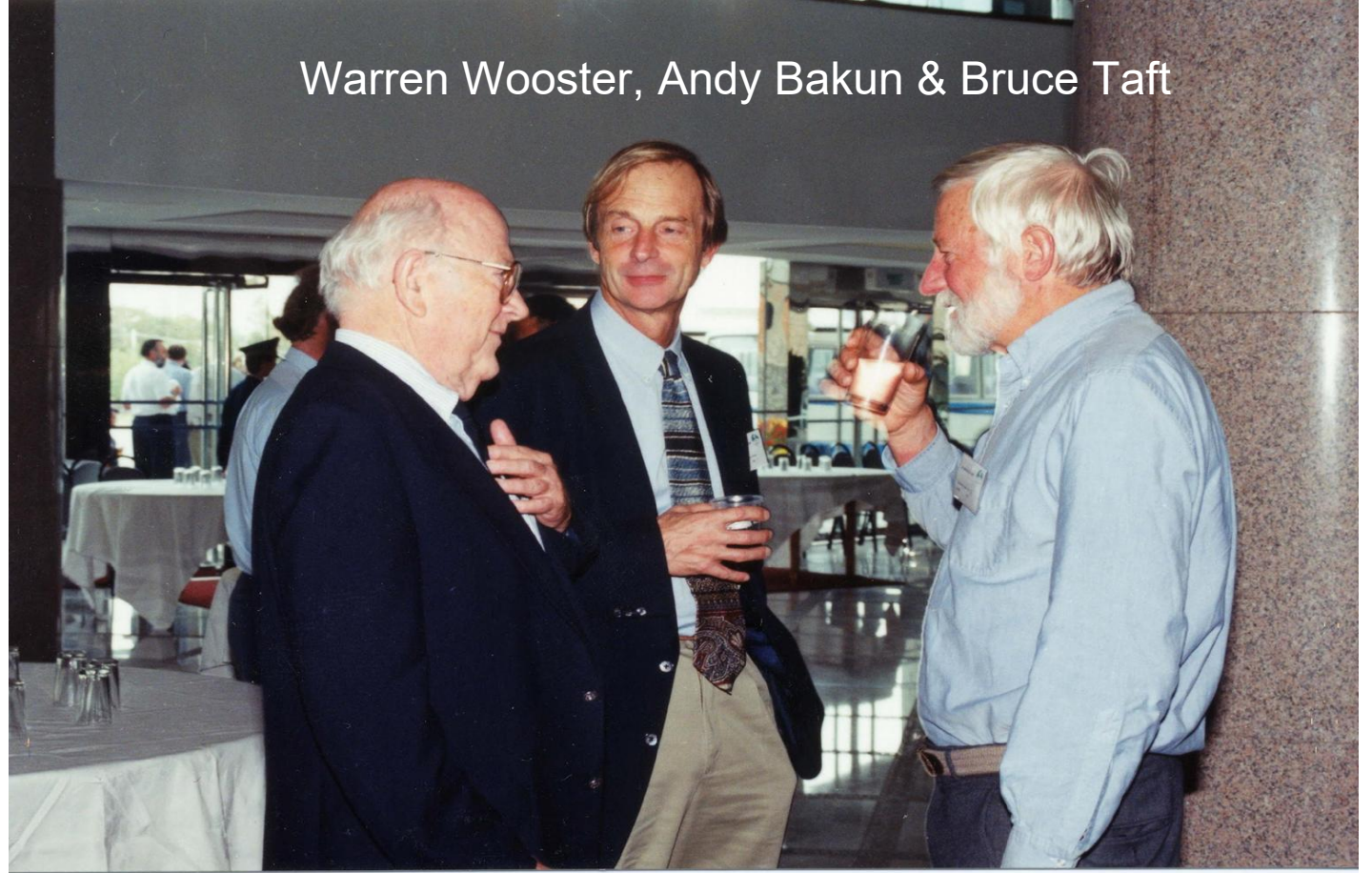
4th Annual Meeting

October 16-24, 1995,
Qingdao, P.R. of China

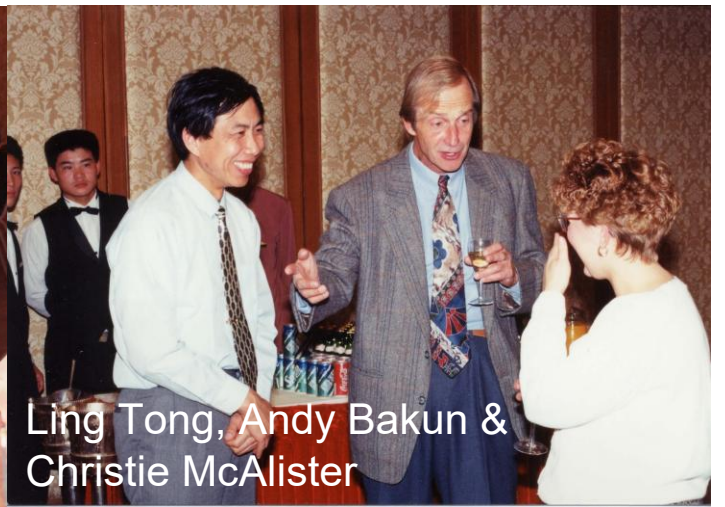
The WG on Coastal Pelagics:

- describe the **temporal and geographic properties of small pelagic fish** stocks, favoring the concept of “unit stocks” to the extent possible;
- describe the **patterns of mixing or overlap** if “unit stocks” cannot be defined.

Warren Wooster, Andy Bakun & Bruce Taft



Paul LeBlond & Andy Bakun



Ling Tong, Andy Bakun & Christie McAlister

Julian McCreary, Lorenz Maggaard, Andy Bakun, Kenny Broad & Jürgen Alheit



Pacific Climate- Fisheries Workshop

Honolulu, 2001

The focus was on interdisciplinary and interregional “cross-education”:

- identifying alternative conceptual frameworks and ideas that may **better support fruitful interdisciplinary collaborations**;
- exploring associated **implications for innovative fisheries management approaches**;
- considering potential applications of the **comparative method** as a means for effective multilateral research on climate/ecosystems/fisheries issues in the Pacific basin.

SPICES

South Pacific Integrated Ecosystem Studies Program

Concepción, Chile, January 2013

Called for:

- a need for **coordinated monitoring programs across the SP** region;
- enhancement of **understanding of climate variability from the large-scale to the ecosystem scale**, and their links to target species variability;
- developing a broad range of ecosystem models/tools, incorporating climate change scenarios.



Cisco Werner, Jürgen Alheit, Anne Hollowed & Andy Bakun

CalBenJI

California Current- Benguela Current Joint Investigations

Petaluma, CA, 2014



Ryan Rykaczewski, Andy Bakun, Marisol Garcia-Reyes, Steven Bograd,
Bill Sydeman, Bryan Black, Art Miller

- Ecosystem productivity in coastal ocean upwelling systems is threatened by climate change.
- Increases in spring and summer upwelling intensity, and associated increases in the rate of offshore advection, are expected.
- While this could counter effects of habitat warming, it could also lead to more frequent hypoxic events and lower densities of suitable-sized food particles for fish larvae.
- With upwelling intensification, ocean acidity will rise, affecting organisms with carbonate structures.



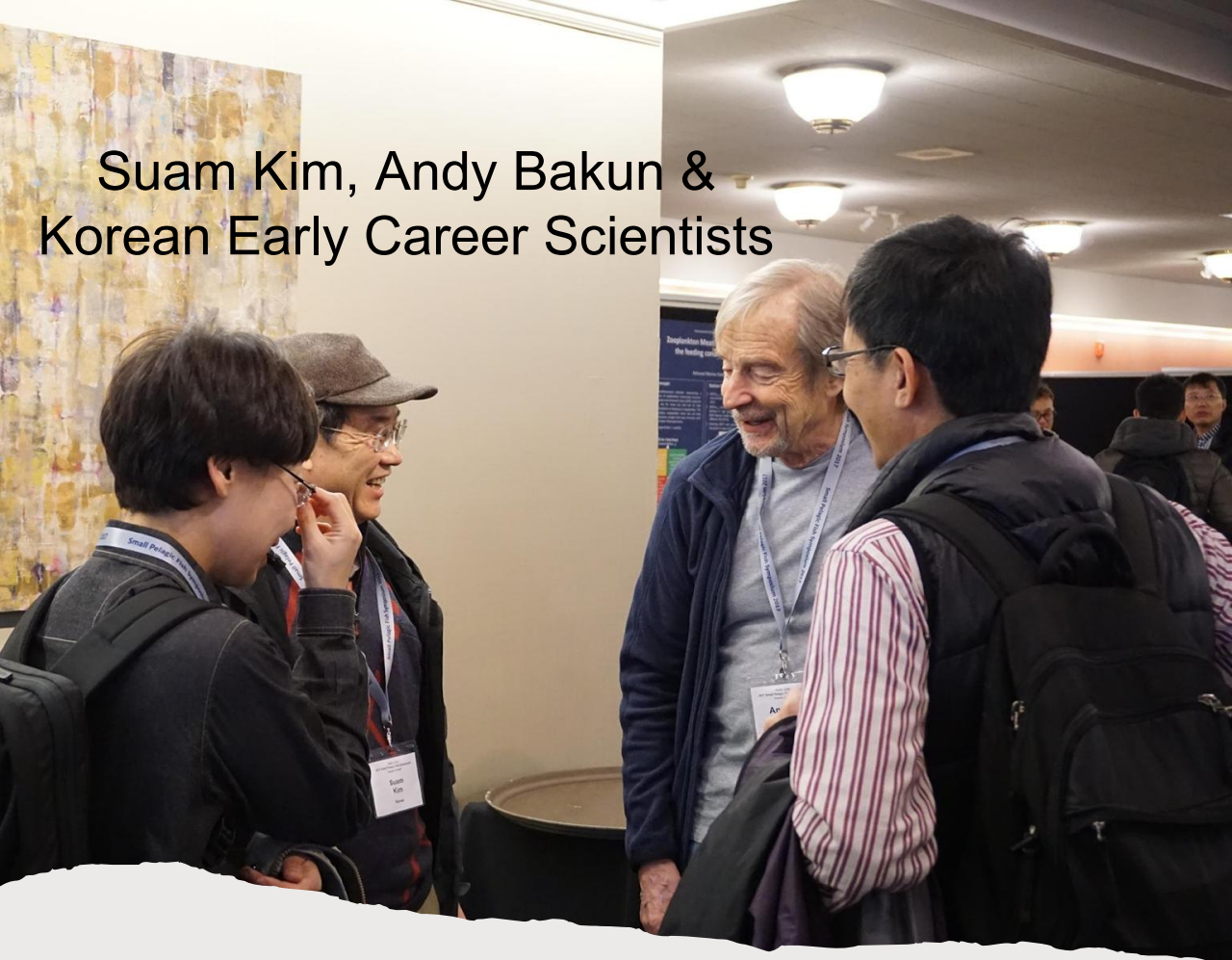
Keynote at SPF-2017 Victoria, Canada



“... without speculation there is
no good and original observation”

Charles Darwin, Letter to A. R. Wallace (22 Dec 1857)

Suam Kim, Andy Bakun &
Korean Early Career Scientists



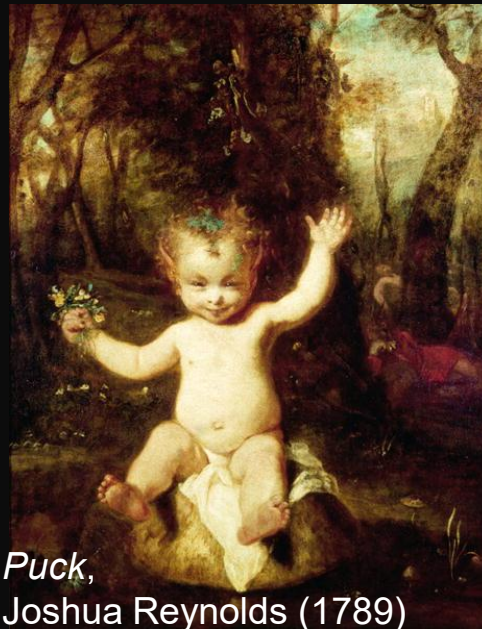
Salvador Lluch & Andy Bakun



SPF-2017

Victoria, Canada

Jürgen Alheit & Andy Bakun, Bangkok



Puck,
Joshua Reynolds (1789)

The Sea Maid's Music an Ode to Pattern Recognition

*My gentle Puck, come hither. Thou rememb'rest
Since once I sat upon a promontory
And heard a mermaid on a dolphin's back
Uttering such dulcet and harmonious breath
That the rude sea grew civil at her song
And certain stars shot madly from their spheres
To hear the sea-maid's music.*

Spoken by Oberon in
Shakespeare's "Midsummer Night's Dream"

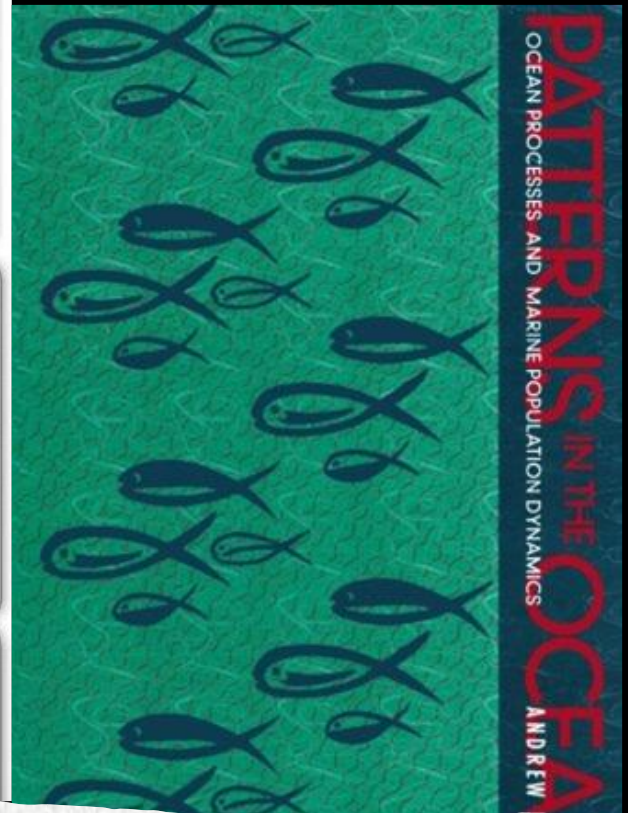
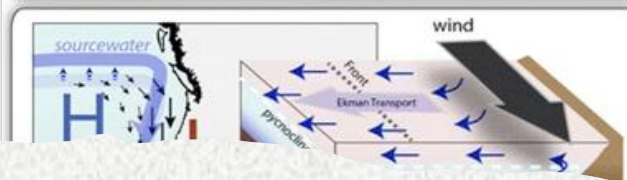
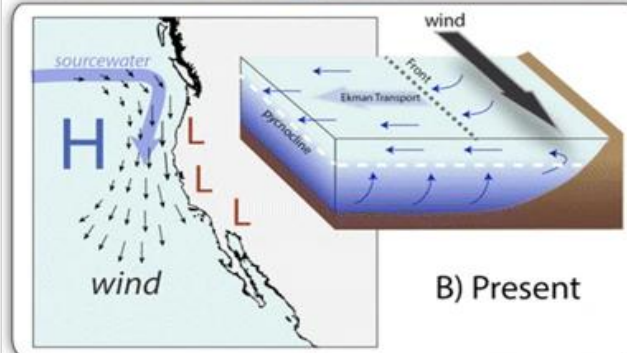
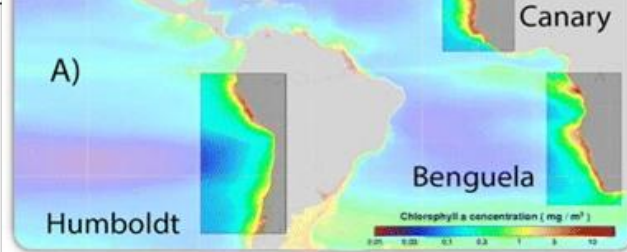
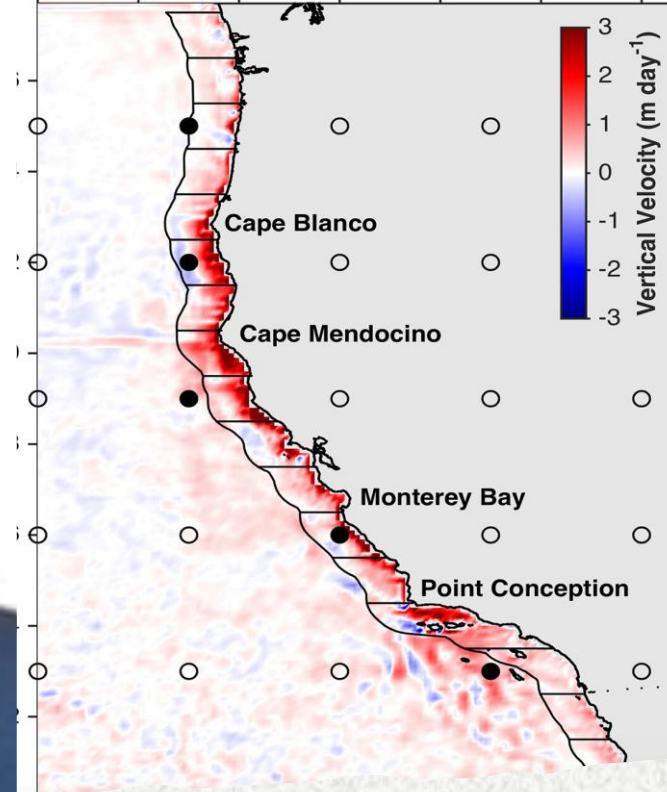


Andy Bakun & Alberto García (Málaga, 2021)





Receiving the 2013 **“Great Medal of Prince Albert The First”** in recognition of Andy’s **“lifetime achievements in ocean research”**.



“The sea is a beautiful thing. It is characteristic of our human nature to find beauty in pattern.

And the sea is replete with pattern ... in ripples, waves, swell, travelling cat-paws, patterns of foam and wind-blown froth. ...

And the more one looks, whether more broadly or more closely, the richer the patterns become.”

*We celebrate a way of thinking.
A spirit of curiosity.
A touch of playfulness.*

*And a life lived in pursuit of understanding
something vast, beautiful, and endlessly
fascinating.*

*Andy helped us see the ocean more clearly—
and, perhaps just as importantly, he reminded
us to see it with curiosity, imagination, and
even a bit of joy.*

That is a legacy to celebrate.

