

Ocean Acidification:
Connecting Science
with those who need it

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Acting Director of Gov't Relations



Ocean Conservancy











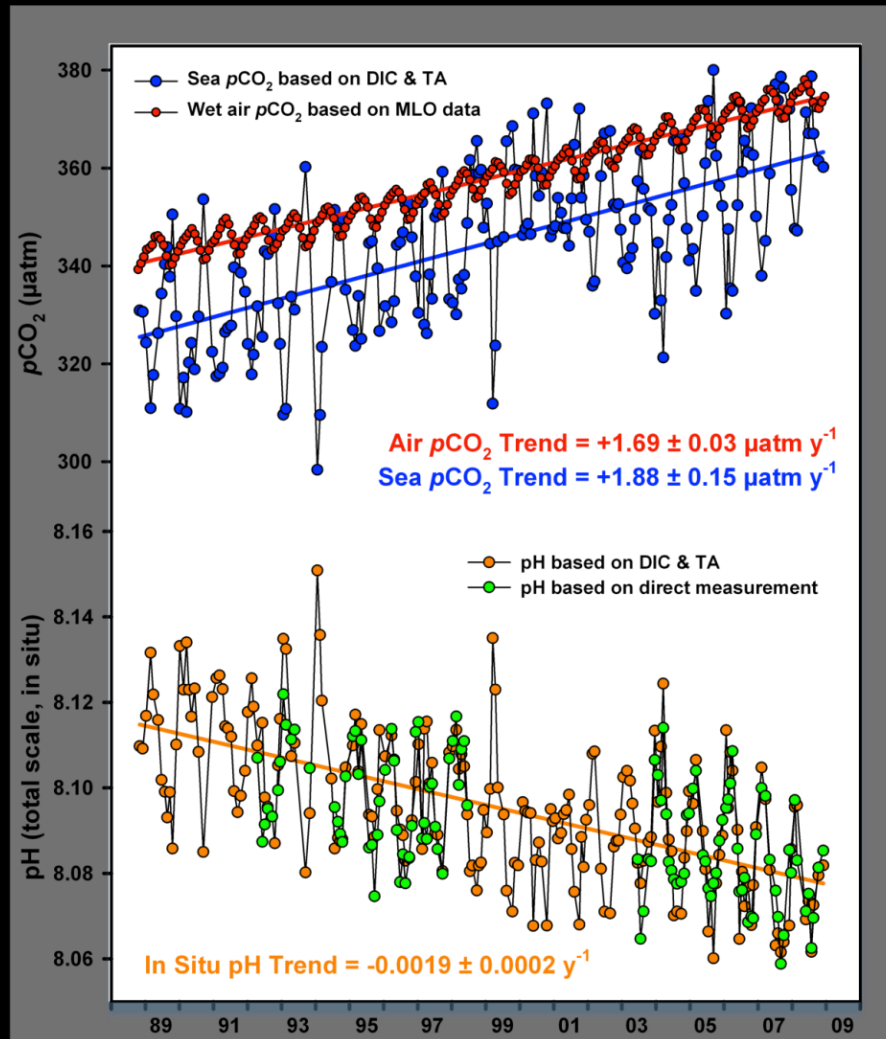


"We will lose our farm, our homes, and
six generations of our hopes and dreams
and investments."

The thesis:

Millions of people
depend on the insights that
your research
can provide.

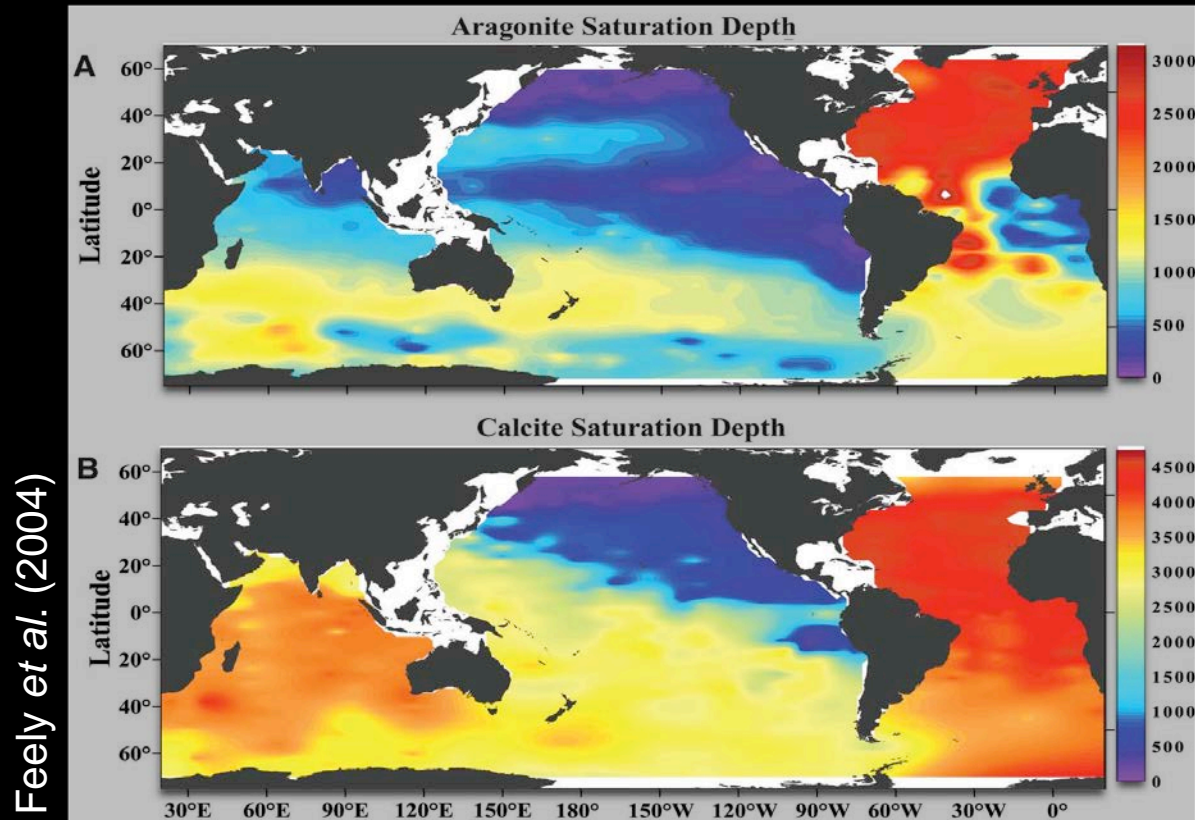
The Chemistry Problem:



Doney, Science 2010
Dore et al., PNAS 2009

The **Biology** Problem:

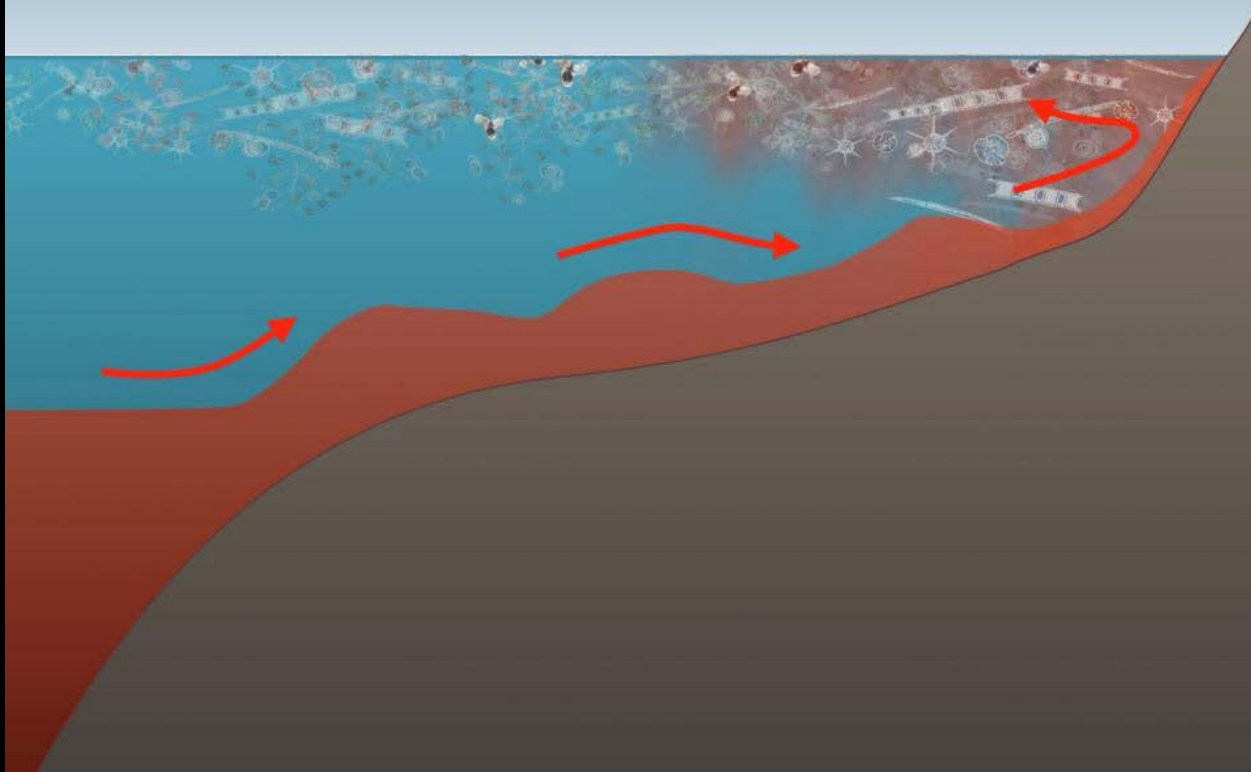
Observed aragonite & calcite saturation depths



The **aragonite saturation state** migrates towards the surface at the rate of $1\text{-}2\text{ m yr}^{-1}$, depending on location.

The Coastal Problem:

Seasonal invasion of corrosive upwelled water
on the west coast of North America



Upwelling of CO₂-rich intermediate waters,
undersaturated with aragonite (Ω_{arag}), onto continental
shelf from a depth of 150 – 200m

People







FISH

↑ SMOKED
SALMON



Lobster Rolls
Scallop Rolls
Fresh Oysters
Seafood To Go

to go

CK

com

Pick-Up HERE

Sea Scallop Roll **\$12.99**
A full quarter pound of local wild Atlantic sea scallops, directly from the fishing vessel Karen Elizabeth, served to perfection and stuffed into a buttery roll. Topped with a bed of shredded lettuce and topped with crumbled bacon slices and our own dressing.

Lobster Roll **\$12.99**
Start with one of our delicious grilled buttery rolls, add a small bowl of lettuce and a quarter pound of our own lobster salad. An old family recipe that includes fresh lobster meat, with a hint of celery, onion and mayo to enhance the lobsters natural delicious flavor.

\$7.00 ~~was \$11.99~~

Lobster Bisque **\$5.99**
Creamy Clam Chowder **\$4.99**

Salt Pond Oysters **3 for \$5.00**
Point Judith Littlenecks **\$9.99**
Jumbo Shrimp Cocktail **\$1.99**

Drinks
Coke Sprite Root Beer **\$2**
Ice Cold Water

*Consuming raw or under cooked meats, poultry, seafood, shellfish, or eggs may increase your risk of food born illness.

ORDER

SA



"This is a devastating ghost
lurking in the shadows."

-Donald Waters,
Gulf of Mexico Fisherman
Testifying in a Senate hearing on OA
April 2010


The thesis:

Millions of people
depend on the insights that
your research
can provide.

So how can **you connect**
with those who need it?

But first, a word
of warning...





Don't just
show data.
Show what
the data
mean.

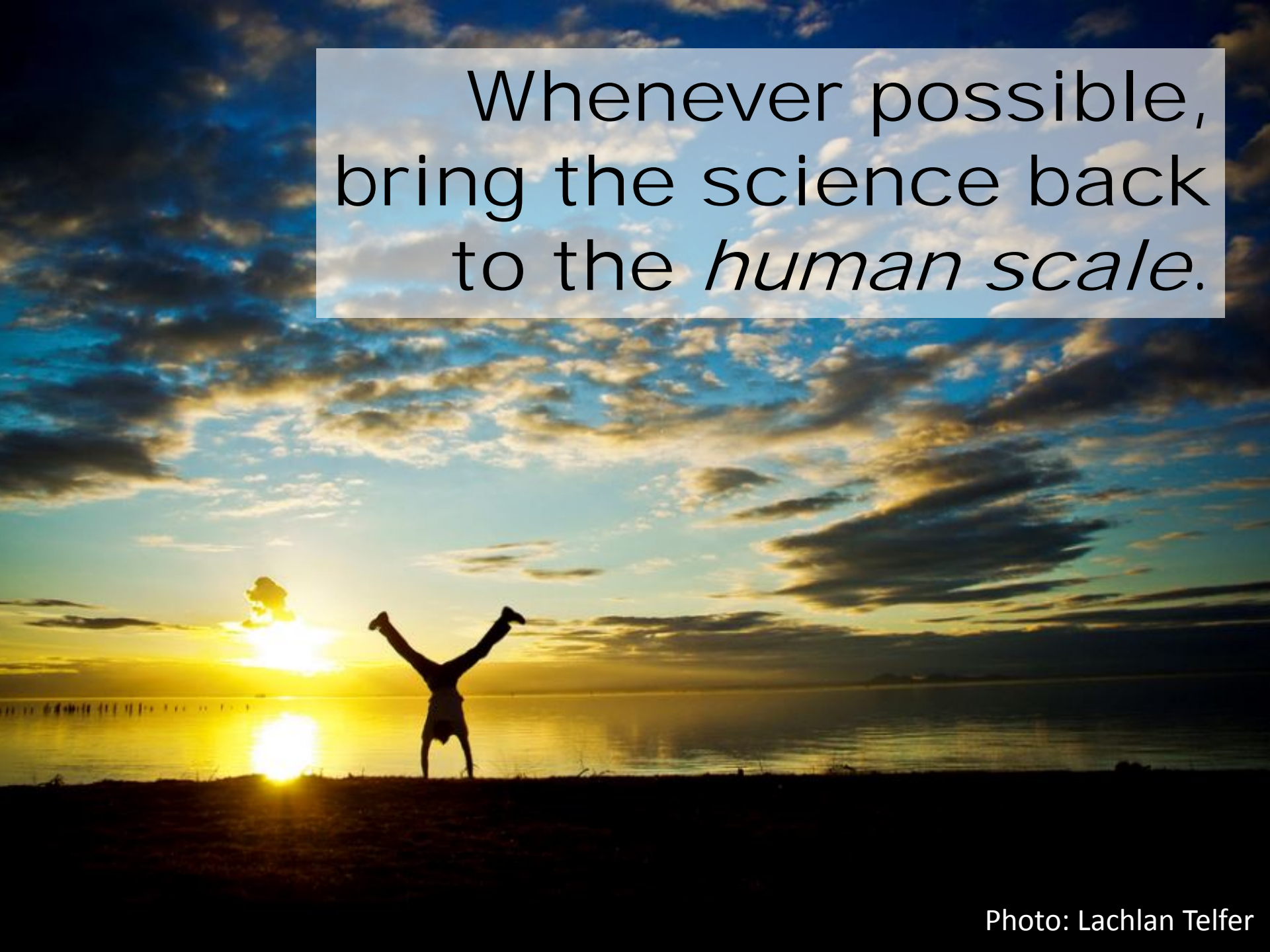
Photo: Stanford Medicine

Focus on the
insights from
the model,
not the
model itself.



Photo: Ariel Jacobsen

Whenever possible,
bring the science back
to the *human scale*.





Don't forget
context!
Give them
the tools to
understand.

Own your *caveats and
uncertainty*. Don't let
them own you.



Photo: "towards light"

How you can connect:

- Don't just show data. Show what the data *mean*.
- Focus on the *insights* from the model, not the model itself.
- Whenever possible, bring the science back to the *human scale*.
- Don't forget *context*! Give them the tools to understand.
- Own your *caveats and uncertainty*. Don't let them own you.

It takes time, effort, and
thoughtfulness.*

*It can't just be an afterthought!













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