

It Ain't Over Till It's Over: Independent Information Flow Protects the Ocean Environment



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THE LONG REACH OF DEEP WATER HORIZON

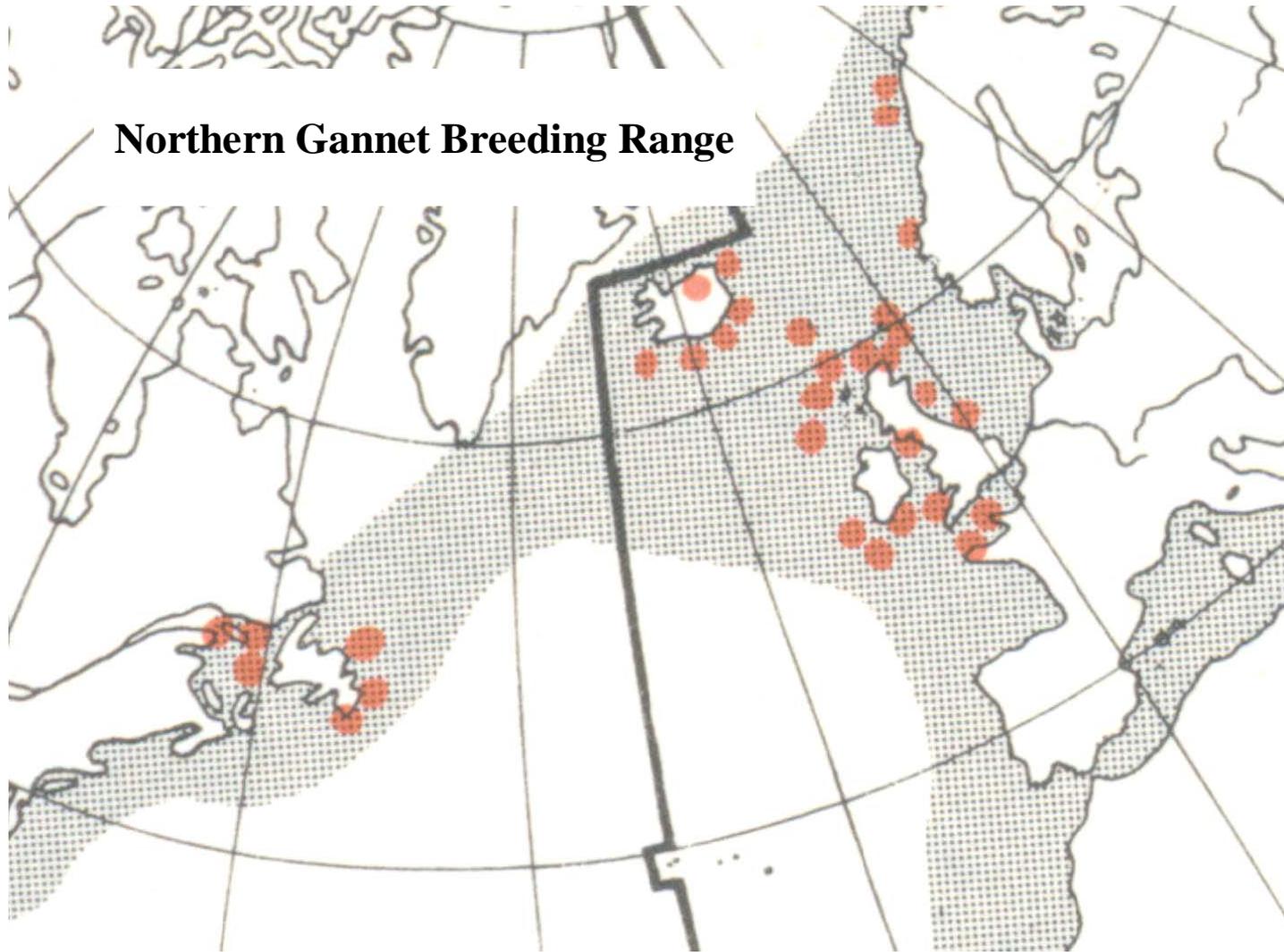


NORTHERN GANNET



**FIRST OILED BIRD RECOVERED
IN GULF OF MEXICO**

COLONIES OF NORTHERN GANNETS



Every Gannet in the Gulf of Mexico is from Canada

NORTHERN GANNET



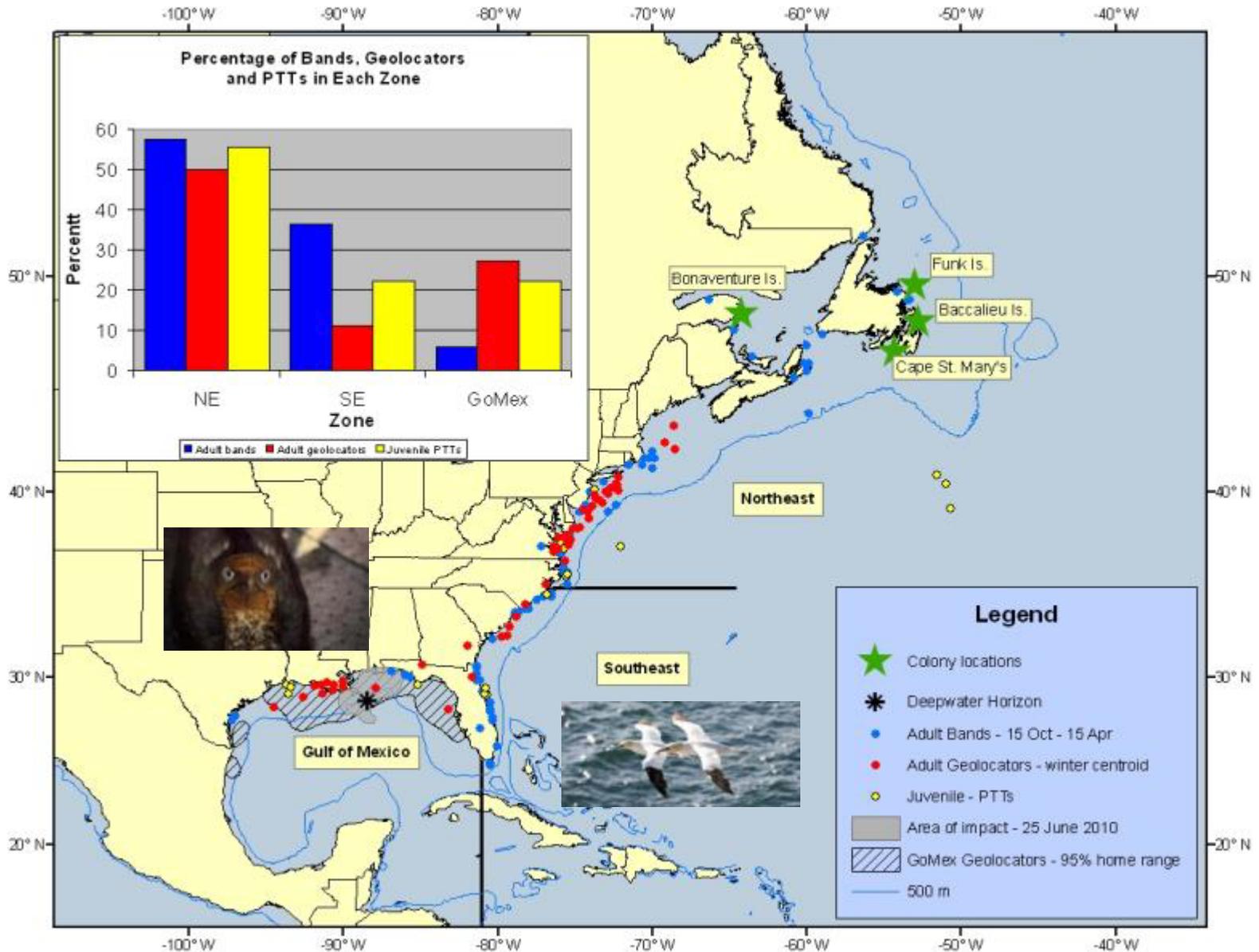
**HIGHEST % OF OILED BIRDS RECOVERED
THIRD MOST OILED BIRD IN GULF OF MEXICO**

TRACKING GANNETS FROM CANADA





GANNET WINTER DISTRIBUTION



FINDINGS FROM TRACKING DATA



GANNETS WINTERING IN GULF OF MEXICO

- 64,000 Adult Gannet
- 52,450 Immature Gannets (≤ 6 years)
- 25 % of North American Population (470,000 gannets)

FINDINGS FROM TRACKING DATA



GANNET ENTRY AND EXIT DATES FROM GULF OF MEXICO

- Adults and juveniles enter Gulf → November
- Most Adults exit end March/Early April (before 20 April)
- Immature gannets remain through spring

FINDINGS FROM TRACKING DATA



CONCLUSION 1

Most gannet mortality sustained by immature birds

WHY DO GANNETS TRAVEL TO THE GULF OF MEXICO?



Menhaden could be one reason

FINDINGS FROM TRACKING DATA

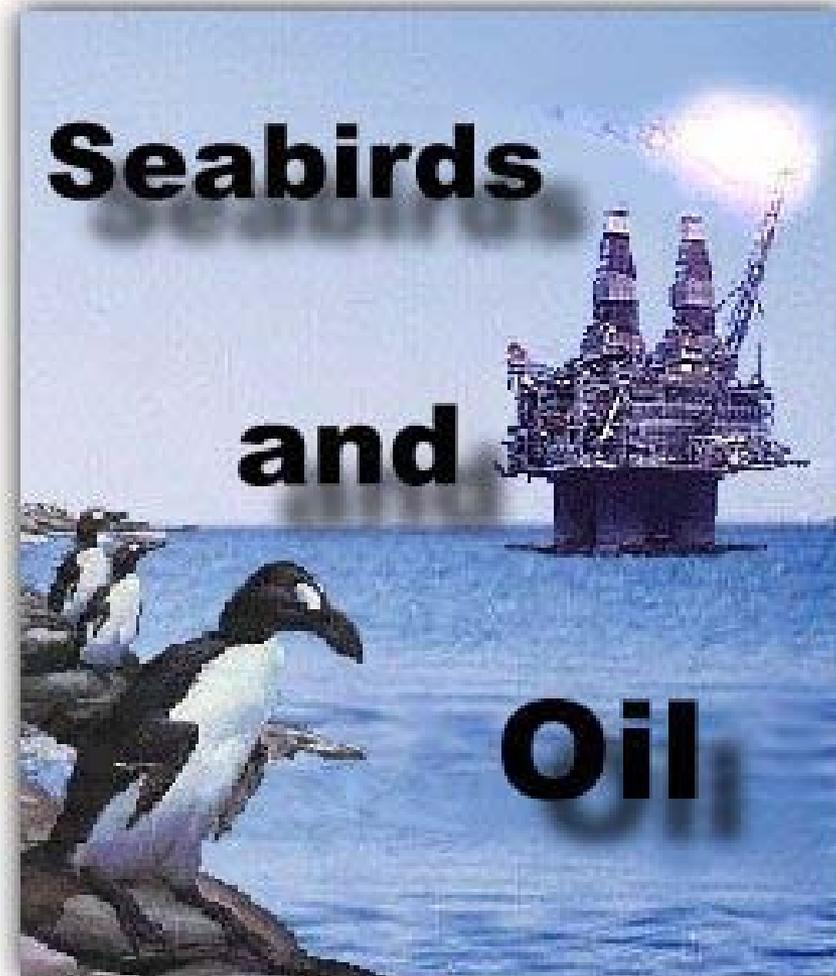


CONCLUSION 2

Menhaden require conservation



BIG OIL – BIG OCEAN – BIG QUESTIONS



SEABIRD TRACKING RESEARCH



Identify High-Use Ocean Areas and Time Periods

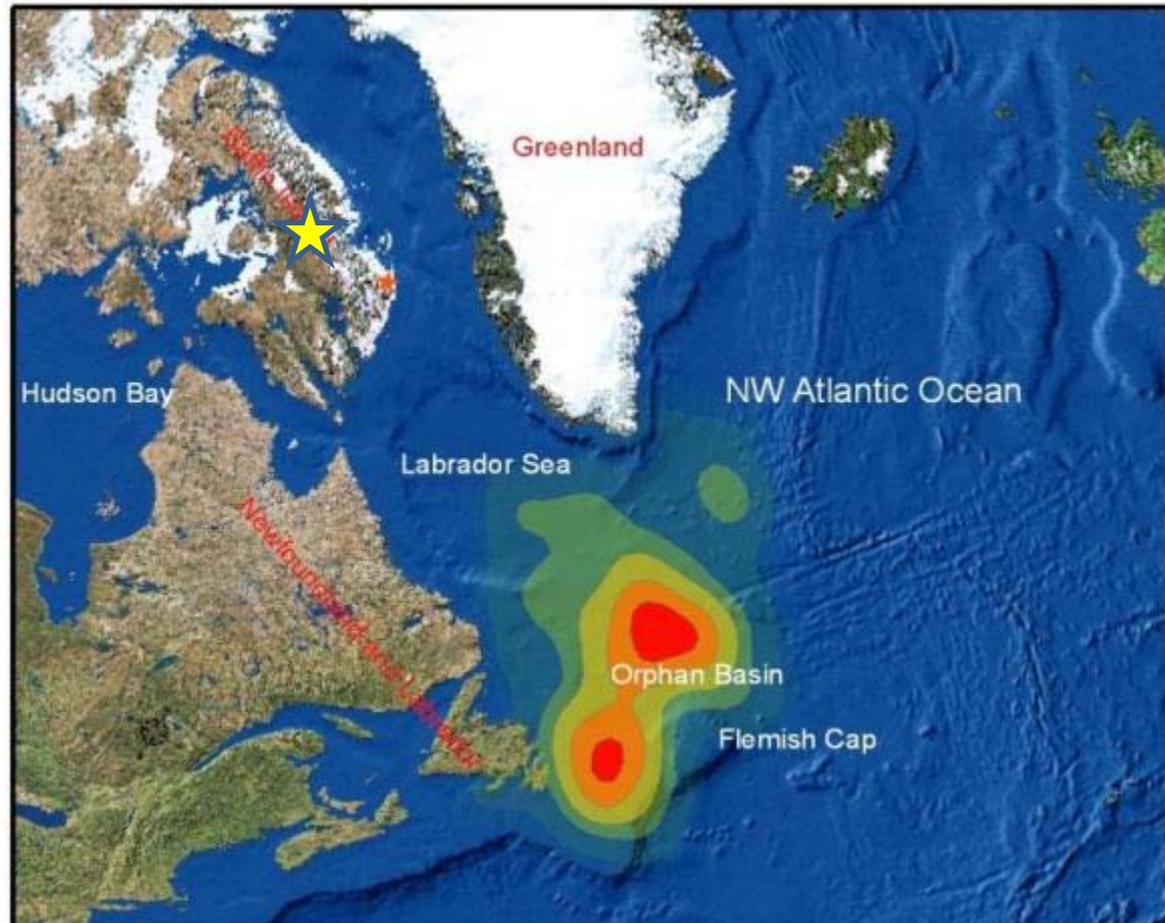
Assess Human-Induced Risks

Promote Better Protection of Marine Animals and Ocean Ecosystem

THICK-BILLED MURRES – MINARETS – WINTER



★ Colony



[Laura McFarlane-Tranquilla]



COMMON MURRES – FUNK ISLAND – LARGEST NORTH AMERICAN COLONY



 Colony

Colors =
Individual Murres



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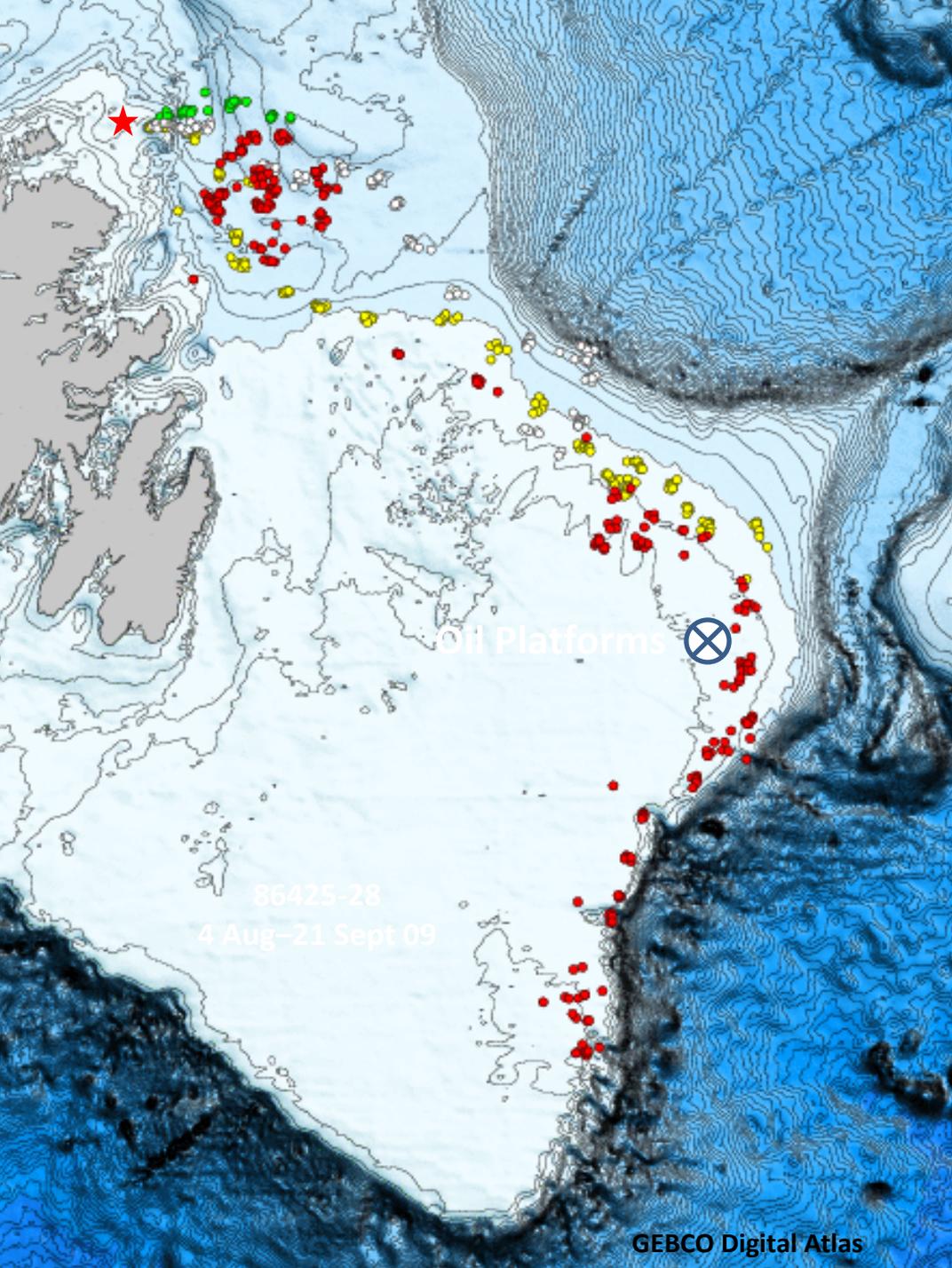


Orphan Basin



Oil Platforms

Core Winter Areas offshore near
oil platforms and outside coastal
hunting zone



50°
49°
48°
47°
46°
45°
44°
43°



Satellite tracks of male common murre with fledglings

Follow Labrador Current along shelf edge

Near + downstream from oil platforms

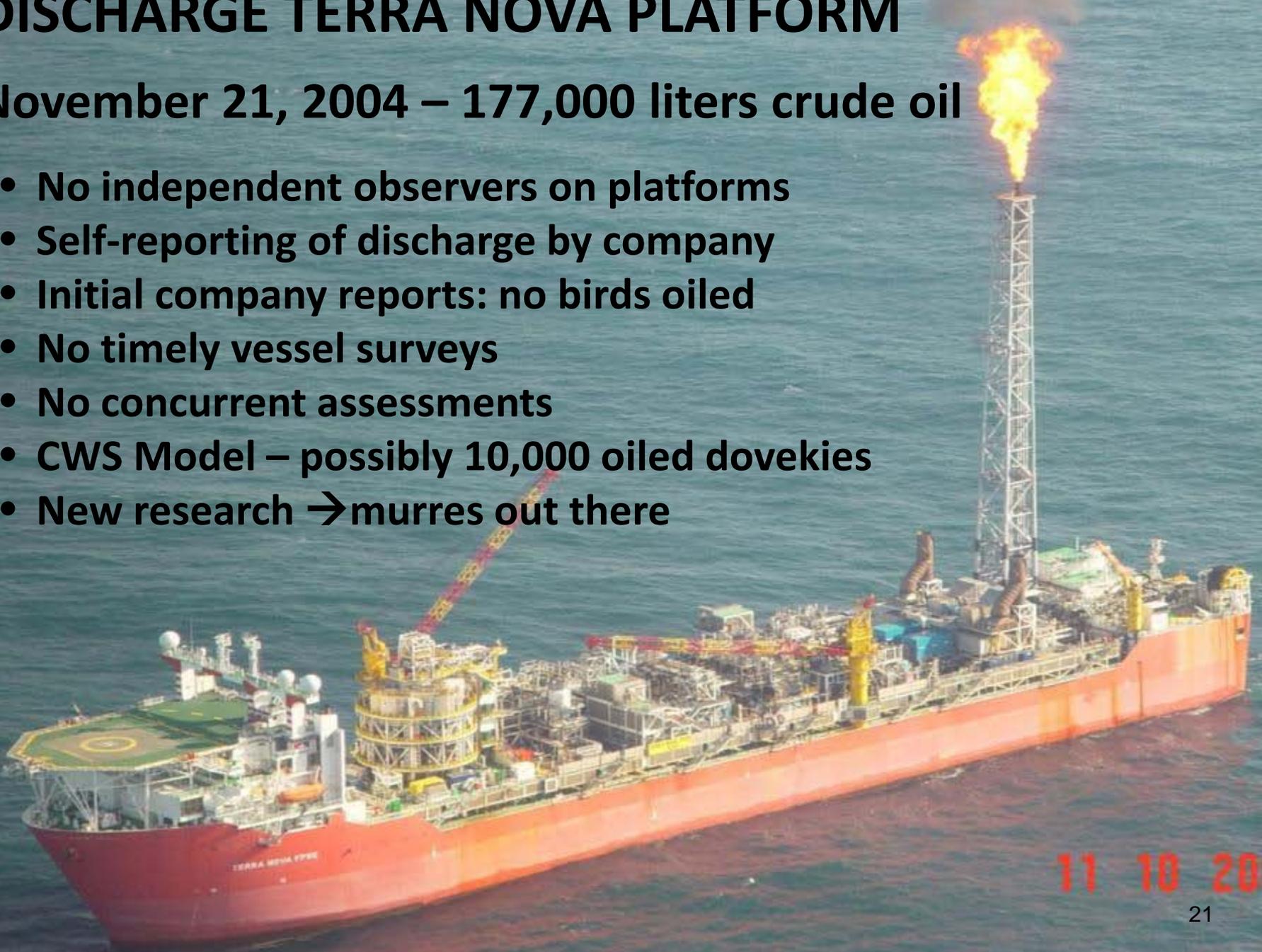
EXAMPLE OF LAX REGULATION IN CANADA



DISCHARGE TERRA NOVA PLATFORM

November 21, 2004 – 177,000 liters crude oil

- No independent observers on platforms
- Self-reporting of discharge by company
- Initial company reports: no birds oiled
- No timely vessel surveys
- No concurrent assessments
- CWS Model – possibly 10,000 oiled dovekies
- New research → murrens out there



BEACH SURVEYS

USEFUL INDEX OF OIL POLLUTION AND SEABIRD MORTALITY



December 4, 2004 – most oiled murren personally collected

Reported to be due to ship-source pollution NOT Terra Nova

Data never presented to public

LAST BIG QUESTION



LAST BIG QUESTION



WHAT CAN WE DO?

LAST BIG QUESTION



WHAT CAN WE DO?

LOTS

LAST BIG QUESTION



WHAT CAN WE DO?

LOTS

Independent Environmental Board and Platform Observers

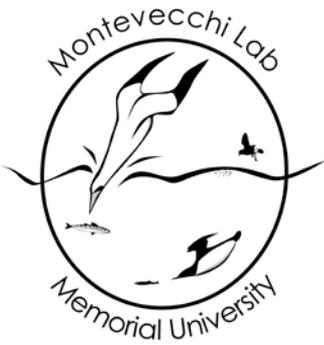
Independent Environmental Audits

**Reclaim the Ocean that Governments Have Given Away
to Multi-National Corporations**

Be Brave

IT'S NEVER OVER





THANK YOU



BOEMRE (JEFF GLEASON)

LAB CREW

NSERC

INTERNATIONAL POLAR YEAR

QUESTIONS??