

New Collaboration Opportunities in Offshore CO₂ Storage

Katherine Romanak,
Gulf Coast Carbon Center
Bureau of Economic Geology
The University of Texas at Austin

UNFCCC COP-21
Paris, France
1 December, 2015



BUREAU OF
ECONOMIC
GEOLOGY



TEXAS Geosciences
The University of Texas at Austin
Jackson School of Geosciences



Gulf Coast Carbon Center

Bureau of Economic Geology

The University of Texas at Austin

- GCCC applies technical and educational resources to the implementation of geologic storage of CO₂
- We do real projects in CO₂ storage
 - 15 years experience
 - 9 CO₂ storage projects
 - Small pilots → industrial scale

Offshore Team

Susan Hovorka
Tip Meckel
Ramon Trevino
Jiemin Lu

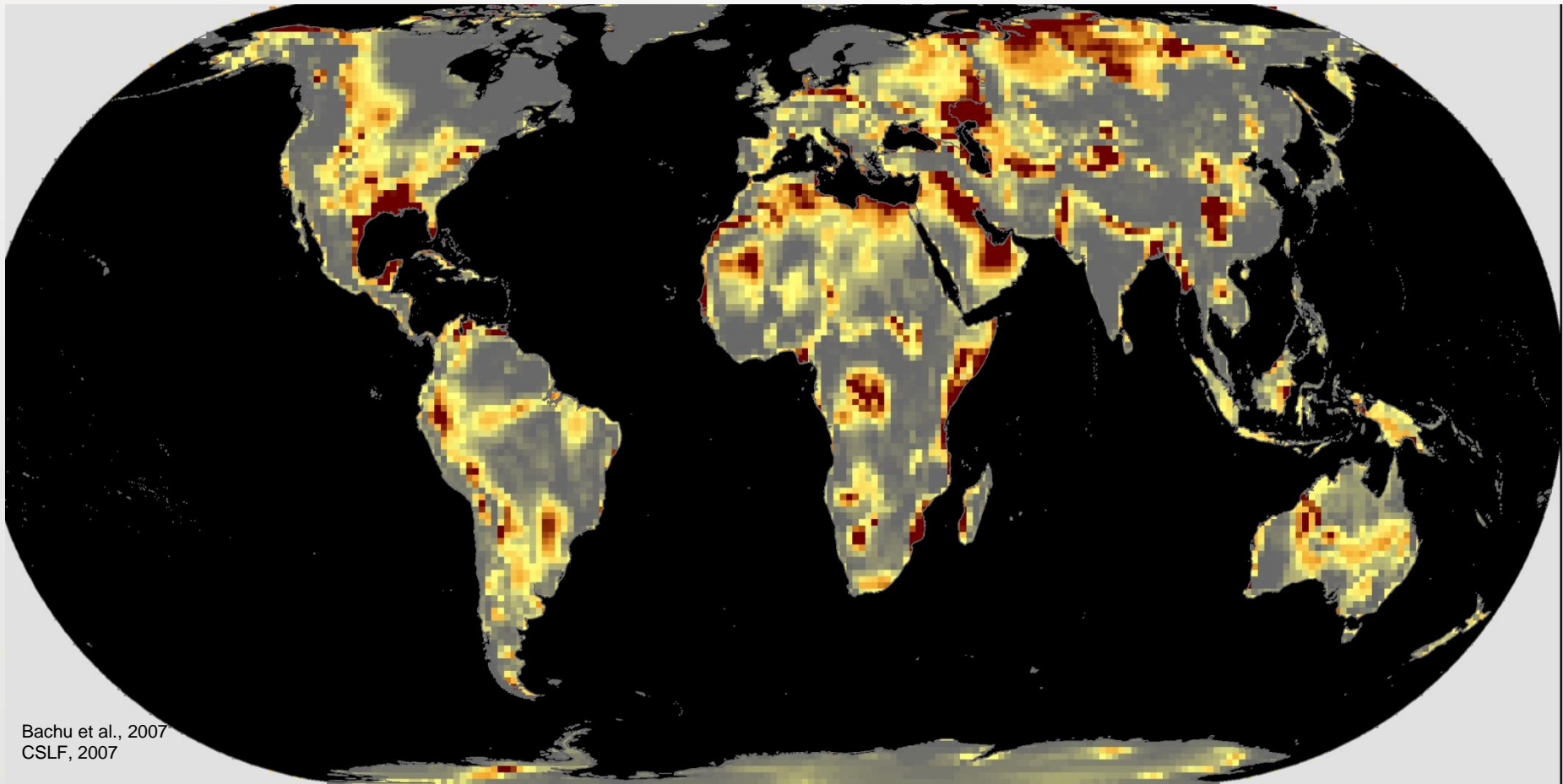
Rebecca Smyth
Katherine Romanak
Tim Dixon- IEAGHG



An Invitation to Countries

- Explore your potential for offshore geological storage of CO₂
- Utilize new funding mechanisms to build your capacity in CCS – Potentially CTCN
- Learn by doing
 - Attend a workshop in Texas, USA – Spring/Summer 2016
 - Discuss the potential for international collaboration on an offshore storage project

Onshore CO₂ Storage Potential

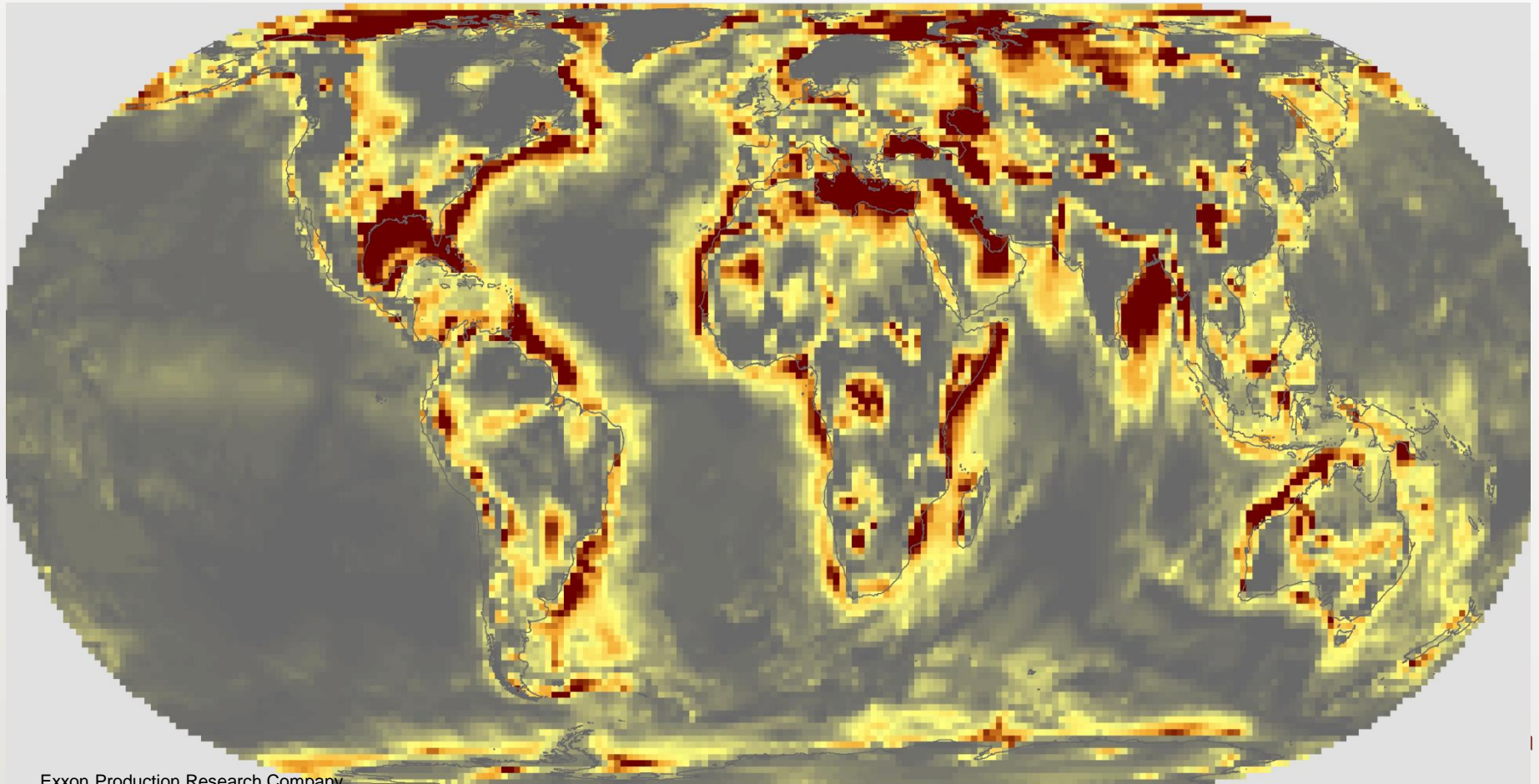


Bachu et al., 2007
CSLF, 2007

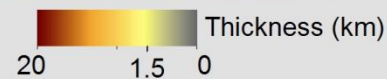
Exxon Production Research Company,
W.M.P.A.A.o.P.G.F., 1985
Laske and Masters, 1997
Schneider, et al., 2003

Thickness (km)
20 1.5 0

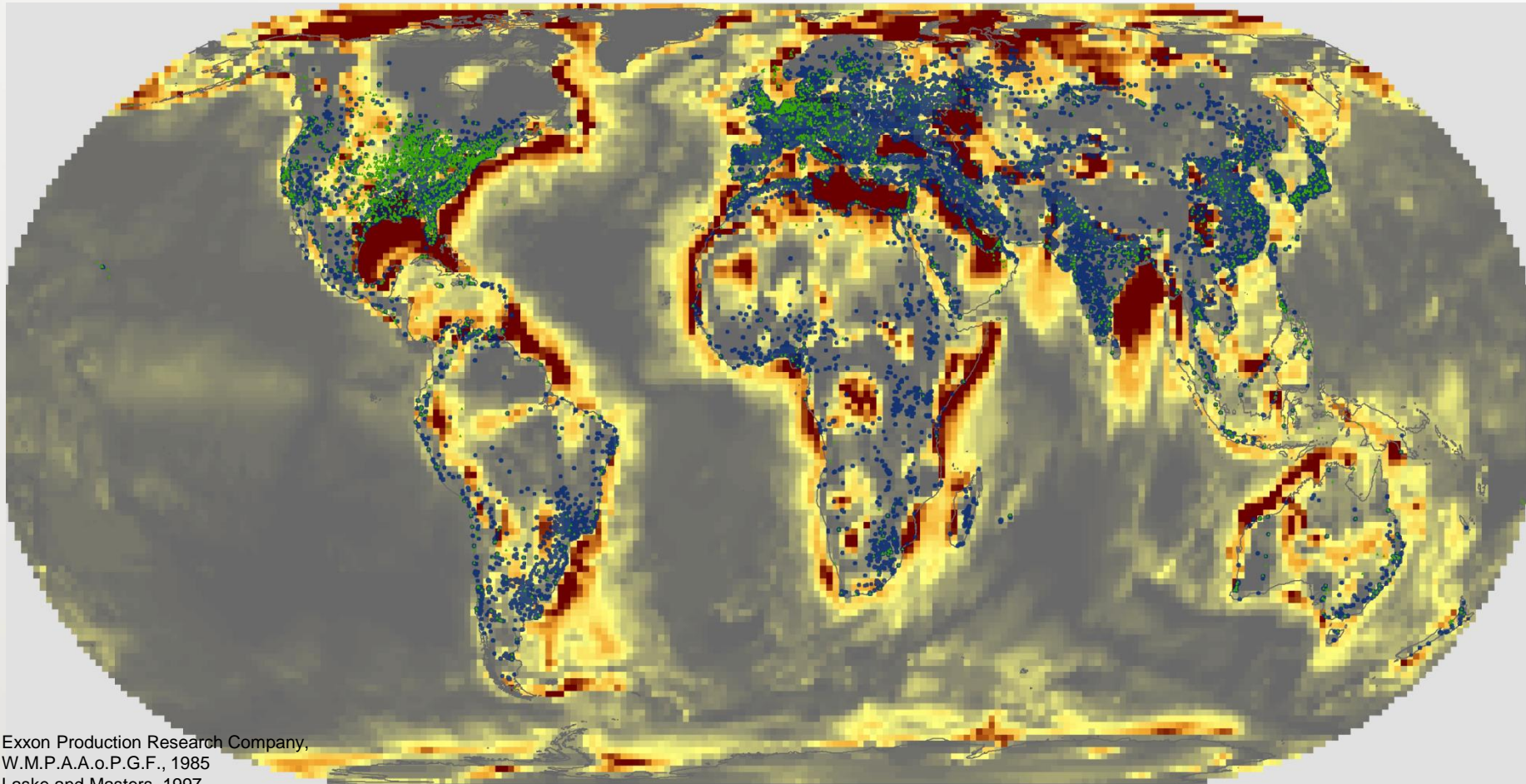
Offshore CO₂ Storage Potential



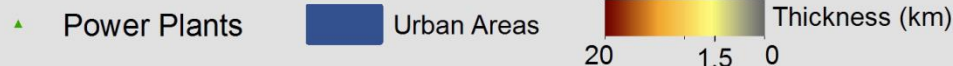
Exxon Production Research Company,
W.M.P.A.A.o.P.G.F., 1985
Laske and Masters, 1997
Schneider, et al., 2003



Offshore Potential Relative to Population & CO₂ Sources



Exxon Production Research Company,
W.M.P.A.A.o.P.G.F., 1985
Laske and Masters, 1997
Schneider, et al., 2003



Studies of Offshore Resources (Not an Exhaustive List)



Offshore Injection To Date



Task Force on Offshore CO₂ Storage Carbon Sequestration Leadership Forum

www.cslforum.org/

- Assess Opportunities and Technology Needs
 - Serving Many Nations
 - Sharing and Synergizing Technology Strengths
 - Sharing Experiences
- Ultimate Goal
 - Accelerate Deployment of Offshore Storage

Task Force Paper Completed

Technical Barriers and R&D Opportunities for
Offshore, Sub-Seabed Geologic Storage of Carbon
Dioxide

Report Prepared for the Carbon Sequestration Leadership Forum
(CSLF) Technical Group

By the Offshore Storage Technologies Task Force

September 14, 2015

- **United States**
- **Australia**
- **Japan**
- **Netherlands**
- **Norway**
- **United Kingdom**
- **China**

www.cslforum.org/

Summary

- Significant opportunities to increase offshore storage

Recommendation

- International knowledge sharing through workshops and collaborative projects

International Workshop

At University of Texas at Austin in 2016

- Build international awareness of offshore storage potential
- Outline country-specific opportunities and technology needs for offshore storage
- Begin a dialogue towards forming an offshore demonstration project that would be a globally collaborative capacity building effort, where all countries could learn by doing.

First Step: Participate in the Workshop!

Contact: Katherine Romanak

Bureau of Economic Geology

The University of Texas at Austin

katherine.romanak@beg.utexas.edu

+1 512-471-6136



BUREAU OF
ECONOMIC
GEOLOGY



TEXAS Geosciences

The University of Texas at Austin
Jackson School of Geosciences

