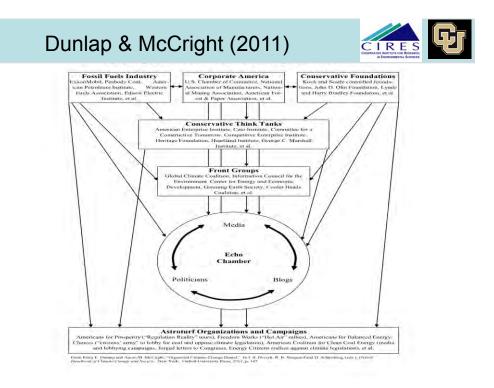


1





from where does the science come? [from Adger et al, 2001]



- 1. 'managerial' community
 - draws authority from science
 - often top-down processes
 - macro-level focus
- 2. 'populist/activist/interest' groups
 - advocacy: grassroots to special interests
 - multi-level attention on solutions



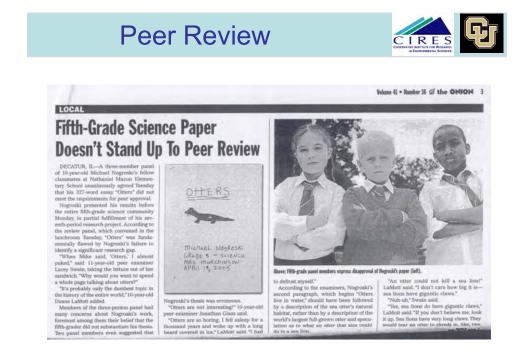
Managerial Scientific Community



International science community:

- → Intergovernmental Panel on Climate Change (IPCC)
 - top climate scientists from around planet Earth
 - consensus processes
 - largely seen as legitimate communicator of top climate research
- → The American Geophysical Union (AGU)







Gennet

'Uncertainty is a word we have invented for an order that is not understood'

Doubt & Uncertainty

- an unavoidable issue in science
- distinct from
 imprecision
- e.g. 'stabilisation' and uncertainty



Uncertainty and IPCC



IPCC terminology:

- Virtually certain (greater than 99% chance that a result is true)
- Very likely (90-99% chance)
- Likely (66-90% chance)
- Medium likelihood (33-66% chance)
- Unlikely (10-33% chance)
- Very unlikely (1-10% chance)
- Exceptionally unlikely (less than 1% chance)



Climate Skeptics

- amplify uncertainty
- emphasize doubt
- → muddle understanding:
- → absence of certainty ~ not absence of risk

 \rightarrow attempts to grapple with this



from Bennett in The Christian Science Monitor and Climate Zealots

- The opposite of doubt is certainty
- · This is a real danger in environmental science and policy
- Over-confidence is a worse *scientific* sin than underconfidence because it disrupts chains of inference

links between carbon-based industry and climate contrarians

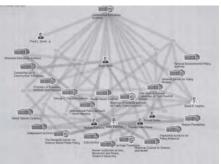


Example: 1998 draft report

of industry proposal

- \$600,000 budget
- raise questions/undercut scientific consensus
- recruit scientists to emphasize uncertainty

Example: 2006



Intermountain Rural Electric Corporate Industry Lobby Groups:

→ e.g. #1 Global Climate Coalition

→e.g. #2 Competitive Enterprise Institute

→e.g #3 New Zealand Climate Science Coalition

Top 10 Rival Assertions in Climate **Contrarian Community**



- 10. humans' role in warming is negligible
- 9. global warming will be a benefit
- satellite measurements are poor 8.
- sunspots are the real culprit 7.
- 6. models give unrealistic prognoses
- Sulfur Dioxide is the savior 5.
- inequality in commitments to reductions ruin all 4. actions
- 3. there is actually global cooling
- proposed global warming actions are draconian and 2. bad for the economy
- action in the face of uncertainty is unwise 1.

