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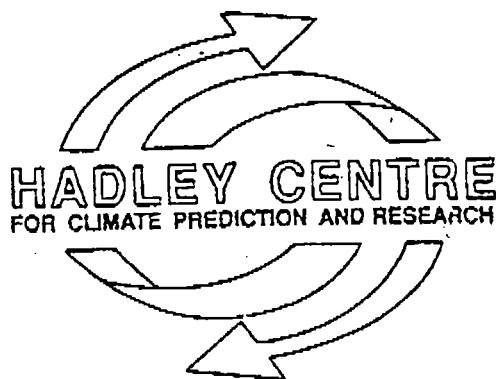
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Clouds Hearing - Tony's Notes on Witnesses (Pre-Hearing)

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TO: ANTHONY SOCCI

FAX: 90101-202-2241842 DATE: 2/10/91

NUMBER OF PAGES 1 +

FROM: Dr J F B MITCHELL

MESSAGE

Dear Mr Soggi,

Thank you for your invitation to attend the Congress hearing on 7th Oct 1991. As a government employee, your invitation would have to go through official channels. However, given the short notice and ~~the~~ my commitments over the next few days, it is unlikely that I will be able to attend. This is unfortunate, because I am unhappy with the way hindman presents his ideas.

K - With Best Wishes

John Mitchell

To: Senator Gore, Katie and Greg

From: Anthony D. Socci

Date: September 30, 1991

Re: List of individuals scheduled for the clouds hearing.

Dr. Robert Charlson
Professor of Atmospheric Sciences and Adjunct Professor of
Chemistry
Department of Atmospheric Sciences
University of Washington
Seattle, WA 98195, (206) 543-2537

Dr. Robert Cess
Professor of Atmospheric and Physical Sciences
Institute for Atmospheric Sciences
State University of New York at Stony Brook
Stony Brook, NY 11794, (516) 632-8321

Dr. William B. Rossow
Physical Scientist
NASA Goddard Institute of Space Studies
2880 Broadway,
New York, NY 10025, (212) 678-5567

Dr. Albert Arking
Senior Scientist in the Lab for Atmosphere
NASA Goddard Space Flight Center
Greenbelt, MD 20771, (301) 286-8805

Dr. V. Ramanathan
Alderson Professor of Ocean Sciences
Scripps Institution of Oceanography
University of California at San Diego
Mail Code 0221
La Jolla, CA 92093, (619) 534-8815

Dr. Kevin Trenberth
Head of Climate Analysis
National Center of Atmospheric Research
PO Box 3000
Boulder, CO 80307, (303) 497-1318

Dr. Richard S. Lindzen
Alfred P. Sloan Professor of Meteorology
Department of Earth, Atmospheric and Planetary Sciences
Massachusetts Institute of Technology
Cambridge, MA 02139, (617) 253-2432

Dr. Alan K. Betts
Atmospheric Scientist
RD2
Box 3300
Middlebury, VT 05753, (802) 545-2481

Federal Agency Representatives

Dr. Shelby Tilford
Director of Earth Science and Application Division
of the Office of Space Science and Applications
NASA
Code SE
Nasa Headquarters
Washington, DC 20546, (202) 453-1055

Dr. Michael Hall
Director, Office of Global Programs
NOAA
1335 East-West Highway
Silver Spring, MD 20910, (301) 427--2089

Unnamed Administrator from the Department of Defense. (Leon has suggested a likely contact person for a DOD official).

I will expand upon these individuals within the next day.

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M E M O R A N D U M

DATE: October 7, 1991

TO: Senator Gore

FROM: ADS

SUBJECT: Clouds Hearing - Summary of Panelists

Dr. Albert Arking - Senior Scientist - NASA/Greenbelt

on the fence regarding positive or neg. water vapor effects
due to elev. temps. - hedging his bets on both sides

will say burden of proof on Lindzen for neg feedback to
elev. temp./water vapor effect

can address cloud physics of microproperties including
radiative effects.

will say more need more cloud measurements from EOS,
improved tech., and new detecting devices on satellites

Should not be troublesome, just neutral and grouchy about
equipment and data

Dr. Alan Betts: meteorologist, works out of his home in VT,
one of world's leading experts on tropical convective
systems and mixing of water in upper atmos.

will say Lindzen is wrong and Lindzen's model is built on
seriously flawed theory and no supporting data/observations

Betts is the expert on convection, he will also say positive
warming water vapor/temp. feedback due to global warming
2-3 degree rise in temp. predicted by him for tropics with
doubling of CO-2

if you get in trouble with Lindzen your ace is Betts, Cess
and Trenberth and Ramanathan, in that order, Betts is
greenhouse all the way, Betts has hit Lindzen hard in
literature

Dr. Robert Cess, Professor of atmos. and physical sci, State
Univ. of NY, SUNY

most experience comparing cloud-climate GCM's, will
adamantly maintain positive water vapor temp. effect due to
warming, has rebutted Lindzen in press, will say that there

are satellite measurements of water vapor up to height of 40, despite Lindzen saying that there are no continuous water vapor measurements above 9 km, his comparisons suggest all models good without clouds, fair difference with clouds, go from low neg temp./water vapor feedback to warming, to high positive - only 1 model out of fourteen had a slightly neg. feedback, rest showed pos. feedbacks to warming,

Dr. Robert Charlson: Prof of atmos. sci. and adj. prof of chem., Univ. of WA

will show that cooling effect of SO₂ emissions localized and dispel notion of global cooling due to sulfur in face of warming, will also explain biol. feedback to clouds and climate through DMS dimethylsulfide production and formation of cloud condens. nuclei

Dr. Michael Hall, Dir., office of global programs., NOAA:

will address TOGA And TRMM tropical ocean water budget programs mainly

Dr. richard Lindzen meteorologist, MIT,:

Lindzen is quite clever at laying traps by misinformation: he leaves all the right pieces around for you to gather up, but in the wrong order of course, I believe he is incredibly unethical, distorts and abuses information unflinchingly, and is in this for the debate, he is however recognizing that people are trying to box him in to lay out his model and to use new water vapor data which he always finds some excuse not to, data are always too flawed, models are badly off the mark, yet he will not constrain his model with numbers yet will attack others like Ramanathan, Hansen, etc.,

he measured waves in sky most of his life, a newcomer to greenhouse and climate, is scientifically naive in some areas, perhaps his most curious point, he clearly does not want his model constrained because then the game is up, no more debate, even worse, he holds an entrusted prof. position at MIT, he has lots of stature to lose, he does feel the heat, see his paper on negative feedback to mountain snowline record of last ice age, he is trying desperately to save his ass, don't trust him for a minute or give an inch, rope him in the discussion with direct questions, don't let him do the questioning, pin him absolutely to convection, his model, and clouds, when you

want to debate or mix it up then let him go and he will get all over greenhouse,

Dr. V. Ramanathan, Scripps Inst., ocean studies:

he is the world's foremost authority on clouds, test of temp. water vapor feedback by him, compares model predictions with data, so far with remarkably good success, suggested sea-surface temp./cloud regulating system in tropics, tropics only, won't stop greenhouse warming, local effect, an ally, also maintains he has data which will prove Lindzen wrong, if you need help go to Ram,

Dr. William Rossow, Physical scientist, NASA/GISS, colleague of Hansen, with David Rind, person who has recently tested his model predictions of positive temp./water vapor feedback to warming, with positive results using water vapor data well up into troposphere where Lindzen claimed none existed because of neg. feedback to warming, Rossow will also talk about low level clouds over continents and oceans, not much info for conts. a lot for oceans, he advocates a positive water vapor effect and is outspoken against Lindzen, he may be a sleeper if he shows,

Dr. Shelby Tilford, Dir., Earth Sci. Div., NASA, Wash DC

will discuss NASA's EOS system and GEWEX, along with Mike Hall, GEWEX is a water budget experiment project,

Colonel Ronald Townsend, USAF, Ph.D. in meteorology from Univ. of WI,

will talk of data gathering by AF and defense agencies and about sharing climate data bases with modelers,

Dr. Kevin Trenberth, Head of climate analysis, NCAR (National center for atmos. res.,

he has diverse interests from clouds to tropical convection, to oceans, including decadal and interdecadal cycles, he will state that he has measured water vapor in upper atmos. contrary to Lindzen's assertion, he will say his calculations and observations indicate a positive water vapor/temp. feedback to warming, he does not like Lindzen's notion, he will be vocal about it as well, he will also disagree with Dr. Ramanathan about Ram's temp.-regulating mechanism in tropics, Trenberth argues for more greenhouse effect and higher temps. in tropics due to regions of dry,

cool air with no clouds, the flip side of convective towers where air comes down, he says tropical ocean temp. regulating mechanism is dry air moving over water taking out heat energy from water, thus cooling water in places, he is an ally, he will be useful.