Continuation of Discussions between IAGA and SCOSTEP about Solar Influences on Climate Hi Marv,

How are you? Hope all is well.

I have recently joined the Executive Committee of IAGA. As you may know, Eigil Friis-Christensen is the president (succeeding Charlie Barton). At our meeting in Montreal, Eigil asked me if I would help undertake a matter for IAGA. In essence, the request was to try to put together a small, distinguished panel to assess how well/completely the IPCC had looked into the role of "forcing from above" when considering global climate change. Given Eigil's role in such research, he wanted to see this undertaken, but did not want to influence the evaluation in any significant way.

I am writing to ask whether you would be willing to be involved in such an evaluation effort on behalf of IAGA? I would think that your self and 2 to 3 others might form a committee that would look into this issue and report back in a timely fashion. I realize that these matters are highly controversial, but I also think that proper science demands that a fair assessment be made. Would you consider undertaking such an effort? I hope so.

I look forward to hearing from you.

Best wishes Dan

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Daniel N. Baker, Ph.D. Director, Laboratory for Atmospheric and Space Physics Professor, Astrophysical and Planetary Sciences Professor, Department of Physics Phone: 303-492-4509

## Hi Dan,

Okay, now to the topic of your e-mail. Through the auspices of SCOSTEP CAWSES, I am working with others on a review paper (title page attached). This involves solar/magnetospheric types (Mike Lockwood), climate types (Ulrich Cubasch and Juerg Beer), middle atmosphere types (me and others), and cosmic ray/cloud types. This review may serve the desired purpose, or I could ask the group to write a 1-pager on the IPCC implications, but we do cover this a bit in the review. What do you think?

I am copying Bob Vincent on this since this might represent a collaboration between IAGA and SCOSTEP.

Marv

### Hi Marv,

This sounds quite timely--when will the paper be published (do you expect)? Do you think the various mechanisms will all be critically assessed? (It sounds like it). I will be very interested to see the paper!

Let me think about this for a bit and I'll be back in touch, OK?

Best wishes Dan

# I have sent him a copy of the submitted review.

# Now, what's happened recently!

### Solar Influences on Climate

L.J. Gray<sup>1</sup>, J. Beer<sup>2</sup>, M. Geller<sup>3</sup>, J.D. Haigh<sup>4</sup>,
M. Lockwood<sup>5,6</sup>, K. Matthes<sup>7</sup>, U. Cubasch<sup>7</sup>,
D. Fleitmann<sup>8</sup>, G. Harrison<sup>9</sup>, L. Hood<sup>10</sup>, J. Luterbacher<sup>11</sup>,
G. A. Meehl<sup>12</sup>, D. Shindell<sup>13</sup>, B. van Geel<sup>14</sup>, W. White<sup>15</sup>

submitted to Reviews in Geophysics January 2009

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- 31 <sup>6</sup>University of Southampton, U.K.
- 32 <sup>7</sup> Freie Universität Berlin, Germany
- 33 <sup>8</sup> Dept. of Geosciences, University of Massachusetts, U.S.A.
- 34 <sup>9</sup> Department of Meteorology, University of Reading, U.K.
- 35 <sup>10</sup> University of Arizona, U.S.A.
- 36 <sup>11</sup> University of Bern, Switzerland
- 37 <sup>12</sup>National Center for Atmospheric Research, U.S.A.
- 38 <sup>13</sup>NASA Goddard Institute for Space Science, New York, U.S.A.
- 39 <sup>14</sup>Universiteit van Amsterdam, The Netherlands
- 40 <sup>15</sup> Scripps Institute of Oceanography, La Jolla, CA, U.S.A.
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There have been conversations between SCOSTEP, IAGA, and other parts of IUGG to seek support for doing such an assessment. I have been charged by Bob Vincent, SCOSTEP President, to deal with this on their behalf.

..., and now a little comic relief.

# Professor sheds light for climate sceptics



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#### LeighD ayke Sciencewriter

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That is the message from gracephwic adogin Martin Geller of Stary Brook University in New Yerk man a hoyness monitor of this was b'n Assets line. Institute of Physics matis and congrow in Adebide.

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are ranking the such warraw by adding gwonhonso gunsi (iko carboa dicaide)." According to Professor Geller,

solar reliation varies in an Byear relar cycle bat it has changed only one-touch of 1 percout nines 1076 whom so he smallthe measurements began. "By any direct means, that would not have a very strong

influence," he chained. In contrast, the rate of global

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Celler. He denized the dain by climate change proposition and an Martin Durkin — producer and

"There is no deate harmans director of the courrevential fin supplex are incorrect when they

The Grant Oktail Warning Swintle - that global warming peaked in 1995 thes declined sights

"That was a year of a manifest II Nigo, It's well known that II Ninos caus a temporary increase in global tompeterare. One has to distinguish between a standy and consistent (upward) real and manual flectuations in the internal system," and Professor Geller, peinting to a common confusion of "weather" and "dia av"

He need that weather release to current a morphwic phonoraons has rain, temperature and wind. Climate is the average atmospheric conditions over years; decades or over miller-10.000

According to Projector Caller,

dains CO, cannot cause warming as it comprises only a small, though increasing, fraction of the amophers.

In fact, CO, is highly reactive in the amongless, he said. "Just because if a small fraction. down/t mean if's a simportup. If you don't hollows me, my maviving in a goon with a small concentration of syanida gas"

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In fact, while the initial warming that ended the ice ages and the 20th century."

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released the CO, was due to shifts in Karbi's Athit, suce the garwas pleased from the occurs, it accelerated the warming by abasebing solar radiation. And further back in prological

time there were complet of searching riggered by rises on CO, ranted Professor Gollor, who helped duit the American Geophysical Union position statenest Human Impacts on Cli-124130

The AGU is the world's largest scientific society of Each and more scientim. The superport. mid "Many components of the dinana pinan ... ara now danaging minana nadia panaran that are not annual and are been explained by the increased asmontheric abandance ef greenheate gapes and services growand by human activity during