

Hand, David J

From: Beddington MPST [REDACTED]
Sent: 08 March 2010 18:05
To: Hand, David J
Subject: Phone call request - from Professor John Beddington

Dear Professor Hand

If possible, John Beddington would like a phone call with you tomorrow. Could we arrange something please.

Thanks and regards.

[REDACTED]
[REDACTED], Diary Manager to Professor John Beddington CMG FRS Chief Scientific Adviser to HM Government
email: [REDACTED]
[REDACTED]

All emails and their attachments containing a meeting minute, decision or comment on a submission by the Chief Scientific Adviser must be filed in the appropriate Matrix folder and restricted as necessary by the policy team. This is in line with Cabinet Office guidance.

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Hand, David J

From: Beddington MPST [REDACTED]
Sent: 09 March 2010 09:38
To: Hand, David J
Subject: RE: Phone call request - from Professor John Beddington

From: Hand, David J [REDACTED]
Sent: 08 March 2010 19:31
To: Beddington MPST
Subject: RE: Phone call request - from Professor John Beddington

Dear David,

Thanks for your email. I will be available between 10.30 and 1pm, on [REDACTED].

If that works for John, could you let me know at what time is suitable.

Many thanks

David

Professor David J. Hand
Professor of Statistics, Imperial College, London
President, Royal Statistical Society

27/05/2010

Hand, David J

From: Beddington MPST [REDACTED]
Sent: 09 March 2010 09:38
To: Hand, David J
Subject: RE: Phone call request - from Professor John Beddington

Dear David

Thanks for your email. John is at a speaking engagement at the moment, however John will hopefully call through between your suggested times.

Kind regards.

[REDACTED]

[REDACTED] is, Diary Manager to Professor John Beddington CMG FRS Chief Scientific
Adviser to HM Government
email: [REDACTED]
[REDACTED]

All emails and their attachments containing a meeting minute, decision or comment on a submission by the Chief Scientific Adviser must be filed in the appropriate Matrix folder and restricted as necessary by the policy team. This is in line with Cabinet Office guidance.

27/05/2010

Hand, David J

From: Hand, David J
Sent: 10 March 2010 20:45
To: [REDACTED]
Subject: RE: Letter from Lord Oxburgh

Dear [REDACTED]

Thanks for the letter from Lord Oxburgh.

It will be a pleasure to help. At present, I can manage all three of the days 6-8 April, but it would be of great help to me if you could tell me which of the days you will want as soon as you are able.

Best wishes

David

David J. Hand
Professor of Statistics, Imperial College, London
President, Royal Statistical Society

Phone: [REDACTED]

From: [REDACTED]
Sent: 10 March 2010 18:34
To: Hand, David J
Subject: FW: Letter from Lord Oxburgh
Importance: High

Missing attachment now attached.

From: [REDACTED]
Sent: Wednesday, March 10, 2010 6:13 PM
To: [REDACTED]
Subject: Letter from Lord Oxburgh
Importance: High

Dear Professor Hand

Please find attached a letter to you from Lord Oxburgh. Please could you reply to me directly.

Regards

[REDACTED]

[REDACTED]
Vice-Chancellor's Office
University of East Anglia
Norwich NR4 7TJ

Tel: [REDACTED]
Email: [REDACTED]

This email is confidential and may be privileged. If you are not the intended recipient please accept my apologies; please do not disclose, copy or distribute information in this email or take any action in reliance on its contents: to do so is strictly prohibited and may be unlawful. Please inform me that this message has gone astray before deleting it. Thank you for your co-operation.

27/05/2010

Hand, David J

From: Hand, David J
Sent: 10 March 2010 21:34
To: [REDACTED] (VCO)
Subject: RE: Letter from Lord Oxburgh

Hi [REDACTED]

I could do 1-2 April.

best wishes

David

David J. Hand
Professor of Statistics, Imperial College, London
President, Royal Statistical Society

Phone: [REDACTED]

From: [REDACTED] (VCO) [mailto:[REDACTED]]
Sent: 10 March 2010 21:30
To: Hand, David J
Subject: RE: Letter from Lord Oxburgh

David, if I may

Many thanks for your reply. That is great news and Lord Oxburgh is delighted that you can join his team.

In terms of dates, we aim to finalise asap this week. We have a slight problem in that one team member cannot make any of the proposed 6-8 April dates so I'm going to quickly assess other possibilities. We may well return to 6-8 April dates (most likely of those being 7-8 April) but I just want to see if there's another solution. Could you therefore also let me know about your availability on these dates:

31 March-2 April or 14-16 April. Again we are looking for 2 days within the period.

Many thanks.

Best,
[REDACTED]

27/05/2010

Hand, David J

From: Hand, David J
Sent: 11 March 2010 18:33
To: [REDACTED] Ms (VCO)
Subject: RE: Letter from Lord Oxburgh
Attachments: David Hand short bio.doc

Hi Lisa,

If necessary I can now do 31st March and 1st April. 14-16th April would be very difficult.

I have attached a slightly amended brief bio.

Thanks

David

David J. Hand
Professor of Statistics, Imperial College, London
President, Royal Statistical Society

Phone: [REDACTED]

From: [REDACTED] (VCO) [mailto:[REDACTED]]
Sent: 11 March 2010 12:28
To: Hand, David J
Subject: RE: Letter from Lord Oxburgh

David

Many thanks.

As 2 April is Good Friday, would 31-1 be a possibility at all? I assume that 14-16 April is no good?

We are looking at the panel spending two nights in Norwich, with departure mid afternoon on the final day.

Please also find attached a draft biography giving brief details to be used in a press release. Please could you amend as you wish and return to me.

Best,
[REDACTED]

27/05/2010

Hand, David J

From: [REDACTED] (VCO) [REDACTED]
Sent: 12 March 2010 11:33
To: Dr Lisa Graumlich; Hand, David J; Prof Herbert Huppert; Prof Huw Davies; Prof Kerry Emanuel; Prof Michael Kelly
Subject: In confidence: SAP
Attachments: Panel Biographies.doc

Dear Science Assessment Panel

Many thanks for your prompt responses yesterday about availability and biographies. Lord Oxburgh is delighted to have such a distinguished panel to work with him and thanks you for making yourselves available at short notice. He will be writing to you himself shortly about the work involved in the CRU assessment.

May I now take this opportunity to introduce you to each other. Please find attached the composite biographies. Do let me know if you have any further changes - the final version will be needed early next week. **Please note that the composition of the Panel and the Chair are not public yet and you are therefore asked to keep this information closely to yourselves at the present time.** I will let you know in advance of the press statement being made.

In terms of timing the Panel's meetings in Norwich, unfortunately it has not proved possible to get everyone together at the same time at such short notice. Lisa has a very important and immovable appointment during the whole of the original 6-8 April dates but with rearrangements, thank you, everyone else can make those dates. Therefore the proposal is that there are two separate meetings, one for Lord Oxburgh with Lisa on 31 March - 1 April, and one for Lord Oxburgh with the rest of the panel on 6-8 April.

Lisa, I will write to you and [REDACTED] separately about your proposed arrangements.

For the rest of the panel, there are two possibilities which we are considering, with the aim of reaching one schedule for everyone:

- 1) arrive Norwich evening of 6 April for dinner, depart mid-afternoon of 8 April
- 2) arrive Norwich in the morning of 7 April for lunch, depart 5pm on 8 April

Could you please let me know which you prefer, and what is feasible. I know already that at least one person may not be able to arrive on 6 April so suspect option 2) is more likely - but please let me know. If anyone needed dinner and accommodation on the evening of the 8th, that would of course be fine, as is arrival, dinner and accommodation on 6th.

Please also let me know about any special accommodation and dietary or other requirements.

NB To save everyone's inboxes, please reply just to me, not reply all, and I will collate responses and let you know final agreed arrangements asap.

Many thanks

 [REDACTED]
 Vice-Chancellor's Office
 University of East Anglia
 Norwich NR4 7TJ

Tel: [REDACTED]
 Email: [REDACTED]

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27/05/2010

Hand, David J

From: Hand, David J
Sent: 12 March 2010 16:28
To: [REDACTED] (VCO)
Subject: RE: In confidence: SAP

Hi [REDACTED]

Either of the two proposed timetables are OK with me, provided that the dinner on 6th is not too early.

Best wishes

David

David J. Hand
Professor of Statistics, Imperial College, London
President, Royal Statistical Society

27/05/2010

Hand, David J

From: [REDACTED] (VCO) [REDACTED]
Sent: 12 March 2010 16:33
To: Dr Lisa Graumlich; Hand, David J; Prof Herbert Huppert; Prof Huw Davies; Prof Kerry Emanuel; Prof Michael Kelly
Subject: Biogs 2

Dear all

We had a meeting today with our press team where we talked about the SAP press announcement which it is expected to make next week. From the press team's experience it is best to ensure that all links are identified clearly/declared openly at the outset. So when reviewing your biographies, please be sure to let me know if there are any IPCC or UEA or other climate science connections of which we should be aware and which haven't been mentioned yet.

If there are matters which you don't necessarily feel need to feature in the biographies themselves, it would still be good to know about all links so our press team can be prepared.

Many thanks
Best,

[REDACTED]

[REDACTED] ar
Vice-Chancellor's Office
University of East Anglia
Norwich NR4 7TJ

Tel: [REDACTED]
Email: [REDACTED]

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Hand, David J

From: [REDACTED] (VCO) [REDACTED]
Sent: 12 March 2010 19:13
To: [REDACTED] (VCO); Dr Lisa Graumlich; Hand, David J; Prof Herbert Huppert; Prof Huw Davies; Prof Kerry Emanuel; Prof Michael Kelly
Subject: RE: In confidence: SAP

Dear Panel
Many thanks for your helpful responses today.

It seems like the best option for most people is option 1 - arrival on 6th April with dinner that evening about 7:30/8pm. David unfortunately will not be able to make the dinner, as he is returning to the UK that evening. He will join the team the next morning. Lord Oxburgh aims to finish by mid afternoon on 8th.

(Lisa: I have contacted you separately about arrangements for your visit).

I will be in touch again early next week with more details about arrangements. Do let me know if you have any queries/comments at any time.

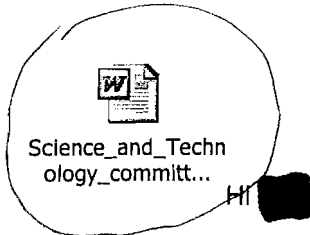
Best,
[REDACTED]

27/05/2010

Hand, David J

From: Hand, David J
Sent: 13 March 2010 17:07
To: [REDACTED] (VCO)
Subject: RE: Biogs 2

Attachments: Science_and_Technology_committee_inquiry_Royal_Statistical_Society_response_10Feb2010_v7.doc



I don't think I have any relevant links.

IPCC: I have no links at all with the IPCC.

Climate science: The Royal Statistical Society did contribute to the Science and Technology Committee Inquiry. I have attached our contribution.

UEA: My only connection with the UEA is that I advised a couple of the applicants for the new UEA Aviva Statistics Chair. The post was offered to one, who decided not to take it, and then to the other, who did take it (and commences imminently?). I have been invited to give seminars there, but had to decline because of lack of time.

Thanks

David

David J. Hand
Professor of Statistics, Imperial College, London
President, Royal Statistical Society

Phone: [REDACTED]

-----Original Message-----

From: [REDACTED] (VCO) [mailto:[REDACTED]]
Sent: 12 March 2010 16:33
To: Dr Lisa Graumlich; Hand, David J; Prof Herbert Huppert; Prof Huw Davies; Prof Kerry Emanuel; Prof Michael Kelly
Subject: Biogs 2

Dear all

We had a meeting today with our press team where we talked about the SAP press announcement which it is expected to make next week. From the press team's experience it is best to ensure that all links are identified clearly/declared openly at the outset. So when reviewing your biographies, please be sure to let me know if there are any IPCC or UEA or other climate science connections of which we should be aware and which haven't been mentioned yet.

If there are matters which you don't necessarily feel need to feature in the biographies themselves, it would still be good to know about all links so our press team can be prepared.

Many thanks

Best,
[REDACTED]

[REDACTED] Vice-Chancellor's Office University of East Anglia Norwich NR4 7TJ

Tel: [REDACTED]

Email: [REDACTED]

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so is strictly prohibited and may be unlawful. Please inform me that this message has gone astray before deleting it.
Thank you for your co-operation.

Hand, David J

From: Hand, David J
Sent: 15 March 2010 19:27
To: [REDACTED] (VCO); Dr Lisa Graumlich; Prof Herbert Huppert; Prof Huw Davies; Prof Kerry Emanuel; Prof Michael Kelly
Subject: RE: SAP - letter and publications

Hi [REDACTED]

It would certainly help me, and I would guess other members of the panel, if we could see the papers as soon as possible so that we could judge which we were able to evaluate most effectively. So would it be possible to email copies of all the papers urgently?

Many thanks

David

Professor David J. Hand
 Professor of Statistics, Imperial College, London
 President, Royal Statistical Society
 [REDACTED]

From: [REDACTED] (VCO) [mailto:[REDACTED]]
Sent: 15 March 2010 17:27
To: Dr Lisa Graumlich; Hand, David J; Prof Herbert Huppert; Prof Huw Davies; Prof Kerry Emanuel; Prof Michael Kelly
Subject: SAP - letter and publications

Dear all
 Please find attached a letter from Lord Oxburgh.

A slightly updated publications list is attached. If you would like electronic copies of any or all the publications, please let me know and I can arrange for them to be sent. (Probably no more than 3 or 4 papers at a time). Alternatively you may prefer hard copies to be printed out and sent to you, which we can arrange, just let me know.

Similarly for the other documents to which Lord Oxburgh refers in his letter.

Best,
 [REDACTED]

 [REDACTED], Senior Assistant Registrar
 Vice-Chancellor's Office
 University of East Anglia
 Norwich NR4 7TJ

Tel: [REDACTED]
 Email: [REDACTED]

This email is confidential and may be privileged. If you are not the intended recipient please accept my apologies; please do not disclose, copy or distribute information in this email or take any action in reliance on its contents: to do so is strictly prohibited and may be unlawful. Please inform me that this message has gone astray before deleting it. Thank you for your co-operation.

27/05/2010

Hand, David J

From: Huw Davies [huw.davies@env.ethz.ch]
Sent: 16 March 2010 08:07
To: [REDACTED]
Cc: Dr Lisa Graumlich; Hand, David J; Prof Herbert Huppert; Prof Kerry Emanuel; Prof Michael Kelly
Subject: Re: SAP - publications

Dear [REDACTED],

In response to Lord Oxburgh's request to identify the papers that we would prefer to examine in detail, I append below my own preference (- numbered as in the SAP list).

Regards,
 Huw

I: Most preferred papers

1. Brohan, P., Kennedy, J., Harris, I., Tett, S.F.B. and Jones, P.D., 2006: Uncertainty estimates in regional and global observed temperature changes: a new dataset from 1850. *J. Geophys. Res.* **111**, D12106.
 7. Jones, P.D. and Moberg, A., 2003: Hemispheric and large-scale surface air temperature variations: An extensive revision and an update to 2001. *J. Climate* **16**, 206-223.
 8. Jones, P.D., Raper, S.C.B., Bradley, R.S., Diaz, H.F., Kelly, P.M. and Wigley, T.M.L., 1986a: Northern Hemisphere surface air temperature variations: 1851-1984. *Journal of Climate and Applied Meteorology* **25**, 161-179.
 9. Jones, P.D., Raper, S.C.B. and Wigley, T.M.L., 1986b: Southern Hemisphere surface air temperature variations: 1851-1984. *Journal of Climate and Applied Meteorology* **25**, 1213-1230.
-

II: Somewhat less preferred

10. Jones, P.D., Groisman, P.Ya., Coughlan, M., Plummer, N., Wang, W-C. and Karl, T.R., 1990: Assessment of urbanization effects in time series of surface air temperature over land. *Nature* **347**, 169-172.
 11. Jones, P.D., Lister, D.H. and Li, Q., 2008: Urbanization effects in large-scale temperature records, with an emphasis on China. *Journal of Geophysical Research*, **113**, D16122.
-

III: Significantly less preferred

2. Briffa, K. R., F. H. Schweingruber, P. D. Jones, T. J. Osborn, S. G. Shiyatov, and E. A. Vaganov. 1998a. Reduced sensitivity of recent tree-growth to temperature at high northern latitudes. *Nature* **391**:678-682.
3. Briffa, K. R., F. H. Schweingruber, P. D. Jones, T. J. Osborn, I. C. Harris, S. G. Shiyatov, E. A. Vaganov, and H. Grudd, 1998b. Trees tell of past climates: but are they speaking less clearly today? *Philosophical Transactions of the Royal Society of London Series B – Biological Sciences* **353**, 65-73.
4. Briffa, K. R. 2000. Annual climate variability in the Holocene: interpreting the message of ancient trees. *Quaternary Science Reviews* **19**, 87-105.
5. Briffa, K.R., Osborn, T.J., Schweingruber, F.H., Harris, I.C., Jones, P.D., Shiyatov, S.G.

27/05/2010

and Vaganov, E.A., 2001: Low-frequency temperature variations from a northern tree-ring density network. *J. Geophys. Res.* **106**, 2929–2941.

6. Briffa, K. R., V. V. Shishov, T. M. Melvin, E. A. Vaganov, H. Grudd, R. M. Hantemirov, M. Eronen, and M. M. Naurzbaev. 2008. Trends in recent temperature and radial tree growth spanning 2000 years across northwest Eurasia. *Philosophical Transactions of the Royal Society B-Biological Sciences* **363**, 2271–2284.

Prof. Huw C. Davies
Institute for Atmospheric & Climate Science, ETH
CHN (N15.2)
Universitatstrasse 16
CH-8092 Zurich
SWITZERLAND

Hand, David J

From: [REDACTED]s (VCO) [REDACTED]

Sent: 16 March 2010 09:25

To: Dr Lisa Graumlich; Hand, David J; Prof Herbert Huppert; Prof Huw Davies; Prof Kerry Emanuel;
Prof Michael Kelly

Subject: Technical reports

Dear all

In case you wish to view them, here is a weblink to the technical reports mentioned on the publications list:

<http://www.cru.uea.ac.uk/st/>

Best,

[REDACTED]

[REDACTED]r
Vice-Chancellor's Office
University of East Anglia
Norwich NR4 7TJ

Tel: [REDACTED]

Email: [REDACTED]

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27/05/2010

Hand, David J

From: Lisa Graumlich [lgraumlich@gmail.com]
Sent: 16 March 2010 12:35
To: Huw Davies
Cc: Williams Lisa Ms; Hand, David J; Prof Herbert Huppert; Prof Kerry Emanuel; Prof Michael Kelly
Subject: Re: SAP - publications

Dear Lisa W and Huw,

I'm happy to take on Huw's less preferred list. Clearly, someone designed the panel composition well!

Cheers,


On Mar 16, 2010, at 1:07 AM, Huw Davies wrote:

Dear 

In response to Lord Oxburgh's request to identify the papers that we would prefer to examine in detail, I append below my own preference (- numbered as in the SAP list).

Regards,
 Huw

I: Most preferred papers

1. Brohan, P., Kennedy, J., Harris, I., Tett, S.F.B. and Jones, P.D., 2006: Uncertainty estimates in regional and global observed temperature changes: a new dataset from 1850. *J. Geophys. Res.* **111**, D12106.
 7. Jones, P.D. and Moberg, A., 2003: Hemispheric and large-scale surface air temperature variations: An extensive revision and an update to 2001. *J. Climate* **16**, 206-223.
 8. Jones, P.D., Raper, S.C.B., Bradley, R.S., Diaz, H.F., Kelly, P.M. and Wigley, T.M.L., 1986a: Northern Hemisphere surface air temperature variations: 1851-1984. *Journal of Climate and Applied Meteorology* **25**, 161-179.
 9. Jones, P.D., Raper, S.C.B. and Wigley, T.M.L., 1986b: Southern Hemisphere surface air temperature variations: 1851-1984. *Journal of Climate and Applied Meteorology* **25**, 1213-1230.
-

II: Somewhat less preferred

10. Jones, P.D., Groisman, P.Ya., Coughlan, M., Plummer, N., Wang, W-C. and Karl, T.R., 1990: Assessment of urbanization effects in time series of surface air temperature over land. *Nature* **347**, 169-172.
 11. Jones, P.D., Lister, D.H. and Li, Q., 2008: Urbanization effects in large-scale temperature records, with an emphasis on China. *Journal of Geophysical Research*, **113**, D16122.
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III: Significantly less preferred

2. Briffa, K. R., F. H. Schweingruber, P. D. Jones, T. J. Osborn, S. G. Shiyatov, and E. A. Vaganov. 1998a. Reduced sensitivity of recent tree-growth to temperature at high northern latitudes. *Nature* **391**:678-682.
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 5. Briffa, K.R., Osborn, T.J., Schweingruber, F.H., Harris, I.C., Jones, P.D., Shiyatov, S.G. and Vaganov, E.A., 2001: Low-frequency temperature variations from a northern tree-ring density network. *J. Geophys. Res.* **106**, 2929–2941.
 6. Briffa, K. R., V. V. Shishov, T. M. Melvin, E. A. Vaganov, H. Grudd, R. M. Hantemirov, M. Eronen, and M. M. Naurzbaev. 2008. Trends in recent temperature and radial tree growth spanning 2000 years across northwest Eurasia. *Philosophical Transactions of the Royal Society B-Biological Sciences* **363**, 2271-2284.
-

Prof. Huw C. Davies
 Institute for Atmospheric & Climate Science, ETH
 CHN (N15.2)
 Universitatstrasse 16
 CH-8092 Zurich
 SWITZERLAND

* * * * *

Dr. Lisa J. Graumlich
 Professor & Director
 School of Natural Resources and the Environment
 The University of Arizona
 325 BioSciences East
 Tucson AZ 85721
 (main office)
 (fax)
<http://snr.arizona.edu>

Hand, David J

From: Herbert Huppert [REDACTED]
Sent: 16 March 2010 16:03
To: [REDACTED] (VCO); Ron Oxburgh
Cc: Dr Lisa Graumlich; Hand, David J; Prof Kerry Emanuel; Prof Michael Kelly; Huw Davies
Subject: Re: SAP - letter and publications

Dear Ron

As to your request to identify three or four papers from the UEA Unit that you would be grateful if I could look at, as you know the papers fall into two groups: the update of data on surface temperatures; and interpretation of tree rings. As you know, I am an expert in neither of these areas. Given this fact, and the likelihood that you will have difficulty in uniformly distributing the papers to the wishes of individuals, can I just leave it open for you to assign papers to me as fits you best. I guess that I myself would have a preference to read papers in just one of these two areas -- because that would make it easier -- but I would be happy to attempt to come to grips with both areas.

I might just say that in my opinion you chose the wrong Huppert for your committee. The younger one, hopefully soon to be an MP, can read comprehensively scientific literature at 1500 words per minute -- that is a Nature paper per minute. This means that he could comfortably read, digest and place his own interpretation on that whole suite of papers in less than an hour. His father will take rather longer than that.

With all best personal wishes.

Yours sincerely

Herbert

27/05/2010

Hand, David J

From: [REDACTED]s (VCO) [REDACTED]
Sent: 16 March 2010 16:03
To: Dr Lisa Graumlich; Hand, David J; Prof Herbert Huppert; Prof Huw Davies; Prof Kerry Emanuel;
Prof Michael Kelly
Cc: [REDACTED] (VCO)
Subject: Arrival and departure times

Dear all

Once you know your estimated arrival and departure times in/from Norwich, could you please let me know. Also details about how you will be getting here. My colleague [REDACTED] and I will be making arrangements for your schedule whilst in Norwich.

As a recap, the main panel will be arriving on 6 April in time for a 7.30/8pm dinner and departing from 3pm on 8 April.

Lisa G will be arriving on 30 March and leaving on 1 April.

Many thanks

[REDACTED]

[REDACTED]

Vice-Chancellor's Office
University of East Anglia
Norwich NR4 7TJ

Tel: [REDACTED]
Email: [REDACTED]

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27/05/2010

Hand, David J

From: MJKelly [REDACTED]
Sent: 16 March 2010 16:14
To: 'Huw Davies'; [REDACTED]
Cc: 'Dr Lisa Graumlich'; Hand, David J; 'Prof Herbert Huppert'; 'Prof Kerry Emanuel'
Subject: RE: SAP - publications

I will look at the Briffa papers in Huw's significantly less preferred papers. The detail will be all new to me.
 Michael

Michael Kelly
 Cambridge University

From: Huw Davies [REDACTED]
Sent: 16 March 2010 8:07 AM
To: [REDACTED]
Cc: Dr Lisa Graumlich; Prof David Hand; Prof Herbert Huppert; Prof Kerry Emanuel; Prof Michael Kelly
Subject: Re: SAP - publications

Dear [REDACTED]

In response to Lord Oxburgh's request to identify the papers that we would prefer to examine in detail, I append below my own preference (- numbered as in the SAP list).

Regards,
 Huw

I: Most preferred papers

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II: Somewhat less preferred

10. Jones, P.D., Groisman, P.Ya., Coughlan, M., Plummer, N., Wang, W-C. and Karl, T.R., 1990: Assessment of urbanization effects in time series of surface air temperature over land. *Nature* **347**, 169-172.
 11. Jones, P.D., Lister, D.H. and Li, Q., 2008: Urbanization effects in large-scale temperature records, with an emphasis on China. *Journal of Geophysical Research*, **113**, D16122.
-

27/05/2010

III: Significantly less preferred

2. Briffa, K. R., F. H. Schweingruber, P. D. Jones, T. J. Osborn, S. G. Shiyatov, and E. A. Vaganov. 1998a. Reduced sensitivity of recent tree-growth to temperature at high northern latitudes. *Nature* **391**:678-682.
 3. Briffa, K. R., F. H. Schweingruber, P. D. Jones, T. J. Osborn, I. C. Harris, S. G. Shiyatov, E. A. Vaganov, and H. Grudd, 1998b. Trees tell of past climates: but are they speaking less clearly today? *Philosophical Transactions of the Royal Society of London Series B – Biological Sciences* **353**, 65-73.
 4. Briffa, K. R. 2000. Annual climate variability in the Holocene: interpreting the message of ancient trees. *Quaternary Science Reviews* **19**, 87-105.
 5. Briffa, K.R., Osborn, T.J., Schweingruber, F.H., Harris, I.C., Jones, P.D., Shiyatov, S.G. and Vaganov, E.A., 2001: Low-frequency temperature variations from a northern tree-ring density network. *J. Geophys. Res.* **106**, 2929–2941.
 6. Briffa, K. R., V. V. Shishov, T. M. Melvin, E. A. Vaganov, H. Grudd, R. M. Hantemirov, M. Eronen, and M. M. Naurzbaev. 2008. Trends in recent temperature and radial tree growth spanning 2000 years across northwest Eurasia. *Philosophical Transactions of the Royal Society B-Biological Sciences* **363**, 2271-2284.
-

Prof. Huw C. Davies
 Institute for Atmospheric & Climate Science, ETH
 CHN (N15.2)
 Universitatstrasse 16
 CH-8092 Zurich
 SWITZERLAND

Hand, David J

From: Hand, David J
Sent: 16 March 2010 21:32
To: [REDACTED] (VCO)
Subject: RE: Technical reports

Dear [REDACTED]

I could focus special attention on numbers 9, 10, and 11.

Thanks

David

David J. Hand
Professor of Statistics, Imperial College, London
Chief Scientific Advisor, Winton Capital Management
President, Royal Statistical Society

27/05/2010

Hand, David J

From: Hand, David J
Sent: 16 March 2010 22:10
To: [REDACTED] (VCO)
Subject: RE: final biogs?

Dear [REDACTED]

Sorry, I must have forgotten to send you my amended bio, which is as below.

Thanks

David

David Hand FBA is Professor of Statistics in the Department of Mathematics at Imperial College. He is also Chief Scientific Adviser to Winton Capital Management, and President of the Royal Statistical Society. He has broad research interests, including multivariate statistics, classification methods, pattern detection, the interface between statistics and computing, and the foundations of statistics. He has wide-ranging consultancy experience to organisations ranging from banks, through pharmaceutical companies, to governments.

David J. Hand
 Professor of Statistics, Imperial College, London
 Chief Scientific Advisor, Winton Capital Management
 President, Royal Statistical Society

Phone: [REDACTED]

From: [REDACTED] (VCO) [mailto:[REDACTED]]
Sent: 16 March 2010 12:43
To: Dr Lisa Graumlich; Hand, David J; Prof Herbert Huppert; Prof Huw Davies; Prof Kerry Emanuel; Prof Michael Kelly
Subject: final biogs?

Dear all

Updated biogs for your consideration. Do let me know if we have missed anything or you have had any further thoughts.

The plan is to issue a press release containing these details and announcing the Panel on either Thursday or Friday mornings, dependent upon the availability of UEA's Prof Trevor Davies for interviews (currently in China). I will send you the embargoed press release the evening before, for your information.

Best,

[REDACTED]

 [REDACTED]
 Vice-Chancellor's Office
 University of East Anglia
 Norwich NR4 7TJ

27/05/2010

Tel: [REDACTED]
Email: [REDACTED]

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Hand, David J

From: MJKelly [REDACTED]
Sent: 17 March 2010 16:22
To: Hand, David J
Subject: Query in Confidence
Attachments: 1844a.htm; 1844b.htm

David,
We will meet next month on 6-8 April.
I have been reading the Briffa papers (2-5 on the list).
I came across two papers back-to-back in Science on 29 June 2007.
I attach them for your convenience.
Can you tell me whether this is a storm in a teacup from your perspective or not?
Many thanks,
Michael

Professor Michael J Kelly FRS FREng
Prince Philip Professor of Technology,
Centre for Advanced Photonics and Electronics,
Department of Engineering,
University of Cambridge,
9 JJ Thompson Avenue,
Cambridge CB3 0FA,
UK

Tel: [REDACTED]
email: [REDACTED]

27/05/2010

Hand, David J

From: Hand, David J
Sent: 19 March 2010 10:53
To: [REDACTED] (VCO)
Subject: RE: Arrival and departure times

Dear [REDACTED],

I assume you received my amended short bio?

At the end of your suggested list of peer-reviewed publications for assessment, you said "These key publications have been selected because of their pertinence to the specific criticisms which have been levelled against CRU's research findings as a result of the theft of emails. "

Would it be possible to give us details of these specific criticisms before the meeting?

Many thanks

David

David J. Hand
Professor of Statistics, Imperial College, London
Chief Scientific Advisor, Winton Capital Management
President, Royal Statistical Society

27/05/2010

Hand, David J

From: Hand, David J
Sent: 19 March 2010 11:00
To: [REDACTED] (VCO)
Subject: RE: Arrival and departure times

Dear Lisa,

Incidentally, if you want more flexibility in your allocation of papers to readers, feel free to position me how you like. I will be focusing my attention on the statistical aspects, and I am pretty ignorant of the substantive content, so the learning curve for all of the papers will be pretty similar for me.

Having said that, the sooner you can tell me which papers you want me specifically to address, the better.

Many thanks

David

David J. Hand
Professor of Statistics, Imperial College, London
Chief Scientific Advisor, Winton Capital Management
President, Royal Statistical Society

Phone: [REDACTED]

From: [REDACTED] (VCO) [mailto:[REDACTED]]
Sent: 16 March 2010 16:03
To: Dr Lisa Graumlich; Hand, David J; Prof Herbert Huppert; Prof Huw Davies; Prof Kerry Emanuel; Prof Michael Kelly
Cc: [REDACTED] (VCO)
Subject: Arrival and departure times

Dear all

Once you know your estimated arrival and departure times in/from Norwich, could you please let me know. Also details about how you will be getting here. My colleague [REDACTED] and I will be making arrangements for your schedule whilst in Norwich.

As a recap, the main panel will be arriving on 6 April in time for a 7.30/8pm dinner and departing from 3pm on 8 April.

[REDACTED] will be arriving on 30 March and leaving on 1 April.

Many thanks

[REDACTED]
Vice-Chancellor's Office
University of East Anglia
Norwich NR4 7TJ

Tel: [REDACTED]

Email: [REDACTED]

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27/05/2010

Hand, David J

From: [REDACTED] (VCO) [REDACTED]
Sent: 19 March 2010 13:14
To: Hand, David J
Subject: RE: Arrival and departure times
Attachments: ~Panel Biographies.doc

David

Yes we did, thank you. I hope the version we now have is ok?

In terms of criticisms, perhaps the university's submission to the Muir Russell and parliamentary select committee reviews would give you some background. Would it be helpful for me to send them on?

Also the UEA web page has various statements about the allegations which you might find informative.

<https://www.uea.ac.uk/mac/comm/media/press/CRUstatements>

Best,
[REDACTED]

27/05/2010

Hand, David J

From: [REDACTED] (VCO) [REDACTED]
Sent: 19 March 2010 14:08
To: emanuel@mit.edu; 'Dr Lisa Graumlich'; Hand, David J; 'Prof Herbert Huppert'; 'Prof Huw Davies'; 'Prof Michael Kelly'
Cc: [REDACTED] (VCO)
Subject: RE: Technical reports
Attachments: SAP publications - who's assessing which.doc

Dear all

don't let me stop you have a conference call but just wanted to say that Lord Oxburgh is considering the allocation of papers and intends to confirm with you early next week. I attach a first draft of the allocation list. Lord Oxburgh is currently away on a short visit to Singapore, though still in contact. I'll let him know that an early discussion between the panel would be helpful.

And if there's anything that people would like sent at this stage, do let me know.

Whilst in touch with you, please also let us know your travel plans, unless already advised.

many thanks,
Best
[REDACTED]

27/05/2010

Hand, David J

From: Hand, David J
Sent: 19 March 2010 16:11
To: [REDACTED] (VCO)
Subject: RE: Arrival and departure times

Hi,

Yes, the bio is right - thanks.

I think the university's submission to the Muir Russell and parliamentary select committee reviews would be very helpful. Please could you send them on.

And thanks for the web link.

Best wishes

David

David J. Hand
Professor of Statistics, Imperial College, London
Chief Scientific Advisor, Winton Capital Management
President, Royal Statistical Society

27/05/2010

Hand, David J

From: Hand, David J
Sent: 19 March 2010 17:06
To: [REDACTED] (VCO)
Subject: RE: Further info.

Thanks

David

David J. Hand
Professor of Statistics, Imperial College, London
Chief Scientific Advisor, Winton Capital Management
President, Royal Statistical Society

Phone: [REDACTED]

From: [REDACTED] (VCO) [mailto:[REDACTED]]
Sent: 19 March 2010 16:16
To: Hand, David J
Subject: Further info.

David
Please find attached and let me know if this leads you to require anything else.

Best,
[REDACTED]

27/05/2010

Hand, David J

From: Hand, David J
Sent: 20 March 2010 10:51
To: [REDACTED] (VCO)
Subject: RE: Arrival and departure times

Hi [REDACTED]

I will be arriving at Norwich station at 18.20 on 6th, and departing at 16.00 on 8th.

Many thanks

David

David J. Hand
Professor of Statistics, Imperial College, London
Chief Scientific Advisor, Winton Capital Management
President, Royal Statistical Society

27/05/2010

Hand, David J

From: [REDACTED] (VCO) [REDACTED]
Sent: 22 March 2010 08:55
To: Hand, David J
Subject: FW: For David Hand, please

From: OXBURGH, Lord [mailto:[REDACTED]]
Sent: Monday, March 22, 2010 6:47 AM
To: [REDACTED] (VCO)
Subject: For David Hand, please

This is a long shot. Everyone except our tree ring expert, Lisa Graumlich, can be in Norwich on the agreed dates. Lisa G will be making an visit somewhat earlier by herself and arriving in N on the evening of 29 Mar and seeing tree ring people on 30th. I shall be there but would very much like to have another member of the panel with me and in view of the relevance of statistics to tree ring questions, I wondered if there was any chance that you could be with us on 30th (and of course the evening before if possible when I shall go). If you happened to be able to make yourself free I would be delighted.

All the best,
Ron Oxburgh

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27/05/2010

Hand, David J

From: [REDACTED] (VCO) [REDACTED]
Sent: 22 March 2010 12:04
To: Dr Lisa Graumlich; Hand, David J; Prof Herbert Huppert; Prof Huw Davies; Prof Kerry Emanuel; Prof Michael Kelly; OXBURGH, Lord
Subject: FW: Press release today
Attachments: SAP- finalRS.doc



SAP- finalRS.doc
(42 KB)

Dear all
Just to advise you that this press release has been issued today.

An a reminder from Lord Oxburgh's letter, which you may need to bear in mind this week:
"Finally it is possible that we may all be subject to personal comment from bloggers and media alike, and any of us may be contacted directly by the media. Should this happen I would ask you not to respond to any such approaches or to speak to the media for the time being. While our work is under way we should avoid fuelling speculation and keep our powder dry until we are ready to issue our final report."

Do let me know if you have any queries/concerns in this regard.

Best,
[REDACTED]

[REDACTED]
Vice-Chancellor's Office
University of East Anglia
Norwich NR4 7TJ

Tel: [REDACTED]
Email: [REDACTED]

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Hand, David J

From: Hand, David J
Sent: 22 March 2010 13:40
To: [REDACTED] (VCO)
Subject: RE: For David Hand, please

Dear [REDACTED] and Ron,

Yes, I can be there on 30th, arriving on 29th.

Just so I am clear, should I also be there on 6-8th April as planned?

Thanks

David

David J. Hand
Professor of Statistics, Imperial College, London
President, Royal Statistical Society
Phone: [REDACTED]

From: [REDACTED] (VCO) [REDACTED]
Sent: 22 March 2010 08:55
To: Hand, David J
Subject: FW: For David Hand, please

From: OXBURGH, Lord [mailto:[REDACTED]]
Sent: Monday, March 22, 2010 6:47 AM
To: [REDACTED] (VCO)
Subject: For David Hand, please

This is a long shot. Everyone except our tree ring expert, Lisa Graumlich, can be in Norwich on the agreed dates. Lisa G will be making an visit somewhat earlier by herself and arriving in N on the evening of 29 Mar and seeing tree ring people on 30th. I shall be there but would very much like to have another member of the panel with me and in view of the relevance of statistics to tree ring questions, I wondered if there was any chance that you could be with us on 30th (and of course the evening before if possible when I shall go). If you happened to be able to make yourself free I would be delighted.

All the best,
Ron Oxburgh

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27/05/2010

Hand, David J

From: Hand, David J
Sent: 22 March 2010 19:16
To: [REDACTED]
Subject: FW: For David Hand, please

From: Hand, David J
Sent: 22 March 2010 13:40
To: [REDACTED] (VCO)
Subject: RE: For David Hand, please

Dear [REDACTED] and Ron,

Yes, I can be there on 30th, arriving on 29th.

Just so I am clear, should I also be there on 6-8th April as planned?

Thanks

David

David J. Hand
Professor of Statistics, Imperial College, London
President, Royal Statistical Society
[REDACTED]

From: [REDACTED] (VCO) [REDACTED]
Sent: 22 March 2010 08:55
To: Hand, David J
Subject: FW: For David Hand, please

From: OXBURGH, Lord [mailto:Oxburghe@parliament.uk]
Sent: Monday, March 22, 2010 6:47 AM
To: [REDACTED] (VCO)
Subject: For David Hand, please

This is a long shot. Everyone except our tree ring expert, Lisa Graumlich, can be in Norwich on the agreed dates. Lisa G will be making an visit somewhat earlier by herself and arriving in N on the evening of 29 Mar and seeing tree ring people on 30th. I shall be there but would very much like to have another member of the panel with me and in view of the relevance of statistics to tree ring questions, I wondered if there was any chance that you could be with us on 30th (and of course the evening before if possible when I shall go). If you happened to be able to make yourself free I would be delighted.

All the best,
Ron Oxburgh

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27/05/2010

Hand, David J

From: OXBURGH, Lord [REDACTED]
Sent: 23 March 2010 06:42
To: Hand, David J
Subject: RE: For David Hand, please

David - absolutely delighted as is Lisa Graumlich. Yes please do come 6 - 8 as planned.

Best,
Ron

27/05/2010

Hand, David J

From: [REDACTED] (VCO) [REDACTED]
Sent: 23 March 2010 09:41
To: 'Dr Lisa Graumlich'; Hand, David J
Subject: Briffa papers

Attachments: Comments on Briffa Papers.docx



Comments on Briffa
Papers.docx...

Dear Lisa and David
Lord Oxburgh has asked me to forward these comments to you, written by Michael Kelly, on the Briffa papers.

Best,
[REDACTED]

-----Original Message-----

From: MJKelly [REDACTED]
Sent: 22 March 2010 15:04
To: OXBURGH, Lord
Subject: My Feedback

Ron,
See attached.
I have done most of the work I can do before the meeting, and here are my notes.
You have already seen the first page.
If you wish to share them with the others, please do.
Michael

Michael Kelly
Cambridge University

Hand, David J

From: [REDACTED] (VCO) [REDACTED]
Sent: 23 March 2010 09:55
To: Dr Lisa Graumlich; Hand, David J; Prof Herbert Huppert; Prof Huw Davies; Prof Kerry Emanuel; Prof Michael Kelly
Cc: OXBURGH, Lord
Subject: SAP Paper allocation
Importance: High

MESSAGE FROM LORD OXBURGH:

Dear Colleagues,

Thank you all for being so accommodating. I concluded that the possibility of a teleconference with us all present was not quite practicable but I have been able to speak to some of you separately.

As you are aware our tree ring specialist Lisa Graumlich cannot join in the main visit with the rest of us after Easter and will be visiting Norwich 29-30. I will be there at that time and am very pleased that David Hand will be able to be with us as well. We will together look at the tree ring papers (2-6) and discuss them with the authors. Michael also has done some work on these papers but unfortunately cannot join us; he has, however, sent some comments.

Hopefully David and I will be able to constitute a bridge between the two visits so that we can write a coherent and balanced report across the spectrum of papers. With that in mind I suggest the following allocation of papers which pretty much follows any preferences you gave us. I'm afraid that the load is a little heavier than I originally suggested. To some extent the papers fall into natural groups. I have tried to ensure that each paper has at least one expert and one generalist commenting on it. Please also look at as much of the rest of the work that you can. If anyone would like to see any data before we get to Norwich please inform [REDACTED] and she will do her best to get it to you as quickly as possible. Please be aware that in the UK the Easter holiday means that things tend to close down on the afternoon of April 1 reopening on Tues April 6.

Lisa G. 2, 3, 4, 5, 6

Michael K. 7,8,9 & (2, 3, 4, 5, 6)

David H. 2,3,4,5,6 & 7, 8, 9

Hugh D. 1, 7, 8, 9

Herbert H.1,10, 11.

Kerry E. 10,11, also reading the rest

Please let me know if there are any problems. I look forward to seeing you all in Norwich.

Regards,

Ron

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27/05/2010

Hand, David J

From: Hand, David J
Sent: 23 March 2010 12:48
To: [REDACTED]
Cc: [REDACTED]
Subject: Climate change

Attachments: SAP- finalRS.doc



SAP- finalRS.doc
(42 KB)

Dear Lucy,

I am not sure if you are the right person to send this to, but I have been appointed to a panel to investigate the University of East Anglia climate change publications, chaired by Lord Oxburgh, and it is entirely possible that Imperial might be approached by the media. Details are on the attached.

Please get back to me if you need more information - but note that I will not be speaking to the media about the panel or its deliberations.

Thanks

David

David J. Hand
Professor of Statistics, Imperial College, London
President, Royal Statistical Society
[REDACTED]

Hand, David J

From: [REDACTED] (VCO) [REDACTED]
Sent: 23 March 2010 13:02
To: Hand, David J
Cc: [REDACTED] (VCO)
Subject: RE: For David Hand, please

David
yes please, Ron would like you to attend twice.

Many thanks
[REDACTED]

27/05/2010

Hand, David J

From: [REDACTED] (VCO) [REDACTED]
Sent: 23 March 2010 17:31
To: Hand, David J
Subject: Travel/Accommodation arrangements for next week

Dear Professor Hand,

I spoke with [REDACTED] today, but I wondered if you could confirm if you need hotel accommodation for the nights of 29th and 30th March? I am not sure of your travel plans, but if you are travelling by train I can organise for a taxi to collect you from the railway station and take you to the hotel. I will also organise for a taxi to collect you from the hotel on Tuesday morning of next week and bring you to the University.

I look forward to hearing from you.

Regards,

[REDACTED]

[REDACTED] | Vice-Chancellor's Office | University of East Anglia | Norwich | NR4 7TJ

Telephone: [REDACTED] | Fax: [REDACTED]

PA to: Professor Edward Acton - Vice-Chancellor

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27/05/2010

Hand, David J

From: Hand, David J
Sent: 23 March 2010 21:49
To: [REDACTED] (VCO)
Subject: RE: For David Hand, please

OK

Many thanks

David

David J. Hand
Professor of Statistics, Imperial College, London
Chief Scientific Advisor, Winton Capital Management
President, Royal Statistical Society

27/05/2010

Hand, David J

From: Hand, David J

Sent: 23 March 2010 22:29

To: [REDACTED] (VCO)

Subject: RE: Travel/Accommodation arrangements for next week

Dear [REDACTED]

Thanks for your email. I confirm that I would like hotel accommodation for the night of 29th (but not the 30th).

If you could organise a taxi from the station, and then from the hotel on Tuesday, that would be great: I will be arriving at Norwich station at 18.42 on 29th.

Incidentally, will you also be organising accommodation for the meeting from 6th to 8th April? If so, I will need a room for the nights of the 6th and 7th.

Many thanks

David

David J. Hand
Professor of Statistics, Imperial College, London
Chief Scientific Advisor, Winton Capital Management
President, Royal Statistical Society

27/05/2010

Hand, David J

From: Hand, David J
Sent: 23 March 2010 22:31
To: [REDACTED] (VCO)
Subject: RE: Briffa papers

Thanks

David

David J. Hand
Professor of Statistics, Imperial College, London
Chief Scientific Advisor, Winton Capital Management
President, Royal Statistical Society

Phone: [REDACTED]

-----Original Message-----

From: [REDACTED] (VCO) [REDACTED]
Sent: 23 March 2010 09:41
To: 'Dr Lisa Graumlich'; Hand, David J
Subject: Briffa papers

Dear Lisa and David

Lord Oxburgh has asked me to forward these comments to you, written by Michael Kelly, on the Briffa papers.

Best,

-----Original Message-----

From: MJKelly [mailto:mjk1@cam.ac.uk]
Sent: 22 March 2010 15:04
To: OXBURGH, Lord
Subject: My Feedback

Ron,

See attached.

I have done most of the work I can do before the meeting, and here are my notes.

You have already seen the first page.

If you wish to share them with the others, please do.

Michael

Michael Kelly
Cambridge University

Hand, David J

From: [REDACTED] (VCO) [REDACTED]
Sent: 24 March 2010 11:12
To: Hand, David J
Cc: [REDACTED] (VCO)
Subject: RE: Travel/Accommodation arrangements for next week

Dear David,

Many thanks for getting back to me. I have booked a Goldstar taxi to collect you from Norwich Railway Station at 18:42 on Monday evening. If for any reason you encounter any problems their telephone number is: [REDACTED]. The taxi is on our Vice-Chancellor's account so you do not need to pay for it.

You are staying at Caistor Hall Hotel, Caistor St Edmund, Norwich - about a 20 minute taxi ride from the railway station. Their telephone number is: [REDACTED]

I have also booked you into the same hotel for your return trip on 6th April - 2 nights 6th/7th.

Looking forward to meeting you next week and if there is anything else I can do to help, just let me know.

Best wishes,

[REDACTED]

27/05/2010

Hand, David J

From: Hand, David J
Sent: 24 March 2010 12:51
To: Adams, Niall M
Subject: RE: Opportunities
Attachments: SAP- finalRS.doc

Niall,

I am having problems getting papers via Athens. I cannot be sure whether it is an issue of using the wrong password etc or if the library does not have access to the journal.

Could you have a stab and see if you can get the following paper:

Cook, Briffa, and Jones (1994) Spatial regression models in dendroclimatology: a review and comparison of two techniques. *International Journal of Climatology*, 14, 379-402.

Sorry for bothering you, but it is most frustrating, and I wanted to ask someone who knew about such matters.

Thanks

David

David J. Hand
Professor of Statistics, Imperial College, London
Chief Scientific Advisor, Winton Capital Management
President, Royal Statistical Society

Hand, David J

From: [REDACTED]
Sent: 24 March 2010 15:02
To: Hand, David J
Subject: RE: Climate change publications investigations panel

Hi David

I propose using some of the text of the announcement as below, with appropriate links to UEA and to its web page for the Muir Russell review.

[REDACTED]

It has been announced that RSS president, Professor David Hand, is to be a member of an independent Scientific Assessment Panel established by the University of East Anglia to examine elements of the published science of its Climatic Research Unit (CRU).

In making the announcement, Professor Trevor Davies, the University's Pro-Vice-Chancellor for Research, said: "CRU's scientific papers have been examined by scientists from other institutions through the peer review process before being accepted for publication by international journals. We have no reason to question the effectiveness of this process. Nevertheless, given the concerns about climate research expressed by some in the media, we decided to augment the Muir Russell review with an independent assessment of CRU's key publications in the areas which have been most subject to comment."

He added that: "Our concern has been to bring together a distinguished group of independent scientists who understand the difference between assertion and evidence, and are familiar with using the latter to judge the validity of conclusions arising from science research. The panel members have the right mix of skills to understand the complex nature of climate research and the discipline-based expertise to scrutinise CRU's research. How they do this will be entirely down to the panel."

The panel will meet in Norwich in April and will have the opportunity to see original data and speak to those who did the work.

The panel is to be chaired by Lord Oxburgh, a former chair of the Lords Select Committee on Science and Technology. In addition to Professor Hand the other members of the panel are to be:

Professor Huw Davies, Professor of Physics at the Institute for Atmospheric & Climate Science at ETH Zürich

Professor Kerry Emanuel, Professor of Meteorology at Massachusetts Institute of Technology

Professor Lisa Graumlich, Director of the School of Natural Resources and the Environment at the University of Arizona

Professor Herbert Huppert, Professor of Theoretical Geophysics at the University of Cambridge

Professor Michael Kelly, Prince Philip Professor of Technology at the University of Cambridge.

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27/05/2010

Hand, David J

From: Hand, David J
Sent: 24 March 2010 14:55
To: [REDACTED]
Subject: RE: Climate change publications investigations panel

Hi [REDACTED],

This is perfect.

Thanks

David

David J. Hand
Professor of Statistics, Imperial College, London
Chief Scientific Advisor, Winton Capital Management
President, Royal Statistical Society

27/05/2010

Hand, David J

From: Hand, David J
Sent: 24 March 2010 15:58
To: Dallman, Maggie J; Hoskins, Brian J
Subject: Scientific Advisory Panel - UEA Climatic Research Unit publications
Attachments: SAP- finalRS.doc

Dear Maggie and Brian,

I thought you should both know that I have agreed to serve on a panel, to be chaired by Lord Oxburgh, assessing the scientific work of the Climatic Research Unit at the University of East Anglia. Details are on the attached.

Best wishes

David

David J. Hand
Professor of Statistics, Imperial College, London
Chief Scientific Advisor, Winton Capital Management
President, Royal Statistical Society

Phone 

27/05/2010

Hand, David J

From: [REDACTED] (VCO) [REDACTED]
Sent: 26 March 2010 18:38
To: Dr Lisa Graumlich; OXBURGH, Lord; Hand, David J
Subject: Schedule for next week
Attachments: Travel - Accommodation details for SAR Panel March Visit.doc; PROGRAMME OF MEETINGS - March SAP.doc

Dear all

Please find attached the updated schedule for next week, together with travel details.

Do let me know if you spot anything amiss or have any queries.

Hope the journeys are ok and I look forward to meeting you all in Norwich.

Best,

[REDACTED]

[REDACTED]
Vice-Chancellor's Office
University of East Anglia
Norwich NR4 7TJ

Tel: [REDACTED]

Email: [REDACTED]

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27/05/2010

Hand, David J

From: Hand, David J
Sent: 26 March 2010 20:41
To: [REDACTED] (VCO); Dr Lisa Graumlich; OXBURGH, Lord
Subject: RE: Schedule for next week

Dear [REDACTED]

That's very helpful indeed. I had intended to ask about meeting with various people, but had not found time.

Many thanks

David

David J. Hand
Professor of Statistics, Imperial College, London
Chief Scientific Advisor, Winton Capital Management
President, Royal Statistical Society

27/05/2010

Hand, David J

From: Hand, David J
Sent: 26 March 2010 23:06
To: O'Nions, Keith
Subject: UEA Climatic Research unit - to keep you in the picture

Dear Keith,

Since I suspect it might attract some media attention, I thought I should let you know that I have agreed to serve on a panel, being chaired by Lord Oxburgh, to investigate the issues surrounding the papers of the Climatic Research Unit at the University of East Anglia. (I shall not be speaking to the media.)

Maggie Dallman and Brian Hoskins know.

I am sorry I will be unable to make your visit to the Maths Dept.

Thanks

David

David J. Hand
Professor of Statistics, Imperial College, London
Chief Scientific Advisor, Winton Capital Management
President, Royal Statistical Society

Phone: 

27/05/2010

Hand, David J

From: MJKelly [REDACTED]
Sent: 28 March 2010 15:15
To: emanuel@MIT.EDU; 'Williams Lisa Ms (VCO)'; 'Dr Lisa Graumlich'; Hand, David J; 'Prof Herbert Huppert'; 'Prof Huw Davies'
Cc: 'OXBURGH, Lord'
Subject: Pre-work
Attachments: CRU Review Input.docx

Colleagues,

I am away within 24 hours for a break in Jordan, coming back a day earlier than planned to be able to get to Norwich for the dinner on 6 April.

I may be out of email contact for some of the time.

Before I go, I share with you my initial reflections, which I sent to our Chairman two days ago.

Michael

Professor Michael J Kelly FRS FREng
Prince Philip Professor of Technology,
Centre for Advanced Photonics and Electronics,
Department of Engineering,
University of Cambridge,
9 JJ Thompson Avenue,
Cambridge CB3 0FA,
UK

Tel: [REDACTED]
email: [REDACTED]

27/05/2010

Hand, David J

From: Hand, David J
Sent: 28 March 2010 19:47
To: 'MJKelly'; emanuel@MIT.EDU; '[REDACTED]' (VCO); 'Dr Lisa Graumlich'; 'Prof Herbert Huppert'; 'Prof Huw Davies'
Cc: 'OXBURGH, Lord'
Subject: RE: Pre-work

Dear Michael,

Interesting that you should cite that quotation from Rutherford. I would have thought that no modern branch of science is without need of statistics! Particle physics certainly makes heavy use of it. And did you know that, after making that comment, Rutherford attended the basic probability course at Manchester, where he was then professor?

I can see that we have much to discuss!

David

David J. Hand
Professor of Statistics, Imperial College, London
Chief Scientific Advisor, Winton Capital Management
President, Royal Statistical Society

27/05/2010

Hand, David J

From: Hand, David J
Sent: 31 March 2010 16:51
To: [REDACTED] (VCO)
Subject: RE: Polar Xdate Docs

Noted,

Thanks

David

David J. Hand
Professor of Statistics, Imperial College, London
Chief Scientific Advisor, Winton Capital Management
President, Royal Statistical Society

-----Original Message-----

From: [REDACTED] (VCO) [REDACTED]
Sent: 31 March 2010 16:20
To: Hand, David J
Subject: FW: Polar Xdate Docs

David

Please would you note that one of the three attachments sent today (BriffaNatcomm.doc) contains McIntyre's comment that he submitted to "Nature" criticising Briffa et al. (1995). However, it also includes (after the reference list) what appears to be an early draft of Briffa/Melvin's response to this criticism.

I'm advised by CRU that you should ignore that and refer to BriffaNatreply.doc for the final version of their response.

Best,

[REDACTED] Senior Assistant Registrar Vice-Chancellor's Office University of East Anglia Norwich NR4 7TJ

Tel: [REDACTED]
Email: [REDACTED]

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>To: Hand, David J
>Subject: FW: Polar Xdate Docs
>
>David
>Please would you note that one of the three attachments sent today
>(BriffaNatcomm.doc) contains McIntyre's comment that he submitted to
>"Nature" criticising Briffa et al. (1995).
>However, it also includes (after the reference
>list) what appears to be an early draft of Briffa/Melvin's response to
>this criticism.
>
>I'm advised by CRU that you should ignore that and refer to
>BriffaNatreply.doc for the final version of their response.
>
>Best,
>[REDACTED]
>
>*****
>[REDACTED] Vice-Chancellor's Office
>University of East Anglia Norwich NR4 7TJ
>
>Tel: [REDACTED]
>Email: [REDACTED]
>
>This email is confidential and may be privileged. If you are not the
>intended recipient please accept my apologies; please do not disclose,
>copy or distribute information in this email or take any action in
>reliance on its contents: to do so is strictly prohibited and may be
>unlawful. Please inform me that this message has gone astray before
>deleting it. Thank you for your co-operation.
>
>
>

Hand, David J

From: [REDACTED] (VCO) [REDACTED]
Sent: 31 March 2010 18:11
To: Hand, David J
Cc: [REDACTED] (VCO)
Subject: RE: Polar Xdate Docs

Dear David,

I have organised a Goldstar taxi to collect Lord Oxburgh and Professor Huppert from Norwich railway station at 18:30 on Tuesday evening (rail strikes permitting!) would you like to wait and catch that one with them to Caistor Hall? I believe they are both travelling from Cambridge. If you would like me to organise a separate one for you, could you let me know by return of e-mail.

Many thanks.

[REDACTED]

27/05/2010

Hand, David J

From: [REDACTED] (VCO) [REDACTED]
Sent: 31 March 2010 18:35
To: oxburgh@parliament.uk; mjk1@cam.ac.uk; heh1@cam.ac.uk; emanuel@mit.edu; huw.davies@env.ethz.ch; Hand, David J
Cc: [REDACTED] (VCO); Liss Peter Prof (ENV); Davies Trevor Prof (ENV)
Subject: Arrangements for next week's SAP meetings at UEA
Attachments: Travel - Accommodation details for SAP April Visit.doc; PROGRAMME OF MEETINGS-April SAP.doc

Dear All,

Please find attached details of transport/accommodation and programme for next week's meetings at UEA. The University is now closed until Wednesday 7th April, but if you need to contact me urgently, please do not hesitate to call me on [REDACTED]

I look forward to seeing you all on Wednesday morning.

Best wishes,

[REDACTED]

[REDACTED] | Vice-Chancellor's Office | University of East Anglia | Norwich | NR4 7TJ

Telephone: [REDACTED] Fax: [REDACTED]

PA to: Professor Trevor Davies - PVC Research, Enterprise & Engagement
[REDACTED] PVC -Academic

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27/05/2010

Hand, David J

From: Hand, David J
Sent: 31 March 2010 19:04
To: [REDACTED] (VCO)
Subject: RE: Polar Xdate Docs

Hi,

Sure - the 18.30 taxi is fine.

Thanks

David

Professor David J. Hand
Professor of Statistics, Imperial College, London
Chief Scientific Advisor, Winton Capital Management
President, Royal Statistical Society

27/05/2010

Hand, David J

From: [REDACTED] (VCO) [REDACTED]
Sent: 01 April 2010 14:59
To: Hand, David J; Prof Herbert Huppert; Prof Huw Davies; Prof Kerry Emanuel; Prof Michael Kelly
Cc: [REDACTED] (VCO); Liss Peter Prof (ENV); Lord OXBURGH
Subject: Arrangements
Attachments: Travel - Accommodation details for SAP April Visit2.doc; PROGRAMME OF MEETINGS-April SAP (2).doc

Dear all

Please find attached slightly revised travel details (including contacts) and an updated schedule (later taxi at 9:30am and the addition of a working dinner at 7pm on 7th).

I trust this is all in order and hope you all have good journeys to UEA. Unfortunately I will be away for this visit but leave you in the capable hands of my colleagues [REDACTED] and Acting CRU Director Peter Liss.

The University is now closed. I will be in email contact until the end of today if you need to check anything. For urgent matters, the relevant contact details are on the travel details document.

Best,
[REDACTED]

[REDACTED]
Vice-Chancellor's Office
University of East Anglia
Norwich NR4 7TJ

Tel: [REDACTED]
Email: [REDACTED]

This email is confidential and may be privileged. If you are not the intended recipient please accept my apologies; please do not disclose, copy or distribute information in this email or take any action in reliance on its contents: to do so is strictly prohibited and may be unlawful. Please inform me that this message has gone astray before deleting it. Thank you for your co-operation.

27/05/2010

Hand, David J

From: [REDACTED] (MAC) [REDACTED]
Sent: 09 April 2010 16:20
To: [REDACTED] Hand, David J
Subject: Briefing

Dear Lord Oxburgh and Prof Hand,

I work in the press office here at UEA and [REDACTED] has asked that I confirm with you some details for a media briefing next week regarding your report. It has been arranged with the Science Media Centre that they will host a briefing at 10am on Wednesday April 14, so that you may talk about the findings of the Science Assessment Panel report and take questions. We're still finalising some details, but time and place have been confirmed.

If you've any questions, please don't hesitate to get in touch.

Kind regards

[REDACTED]
[REDACTED]
Press Officer
Marketing and Communications Division
University of East Anglia

[REDACTED]
www.uea.ac.uk/comm

A PREMIER RESEARCH AND TEACHING UNIVERSITY
3rd for facilities and 5th overall in the Times Higher Student Experience Survey 2010.
2009 "What Uni" Student Choice Award winner and 3rd among mainstream English universities in the National Student Survey
World top 200, European top 100, UK top 30 (Times League Table 2010)
Norwich: fourth highest cited UK city for science, thanks to the University and our Norwich Research Park partners.

Hand, David J

From: OXBURGH, Lord [redacted]
Sent: 11 April 2010 16:50
To: Hand, David J; Prof Herbert Huppert; Prof Huw Davies; Prof Kerry Emanuel; Prof Michael Kelly
Subject: FW: report

-----Original Message-----

From: Lisa Graumlich [mailto:lgraumlich@gmail.com]
Sent: 10 April 2010 18:43
To: OXBURGH, Lord
Cc: Williams Lisa; Churchill Jacqui Mrs (VCO)
Subject: report

Dear Ron,

I am in complete accord with the findings and tone of the report.

Best,
Lisa

* * * * *

Dr. Lisa J. Graumlich
Professor & Director
School of Natural Resources and the Environment The University of Arizona
325 BioSciences East
Tucson AZ 85721
[redacted] (main office)
[redacted] (fax)
<http://snr.arizona.edu>

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Hand, David J

From: Hand, David J
Sent: 11 April 2010 19:18
To: 'OXBURGH, Lord'
Subject: Meet?

Ron,

Should we meet up before the 10am meeting on Wednesday? My mobile number is [REDACTED]

Thanks

David

David J. Hand
Professor of Statistics, Imperial College, London
Chief Scientific Advisor, Winton Capital Management
President, Royal Statistical Society

Phone: [REDACTED]

Hand, David J

From: OXBURGH, Lord [REDACTED]
Sent: 12 April 2010 08:13
To: Hand, David J
Subject: RE: Meet?

Good idea - there is a coffee shop which is part of the RI but has its own name and street level entrance. How about 9.30 there?

Best,
Ron

-----Original Message-----

From: Hand, David J [mailto:[REDACTED]]
Sent: 11 April 2010 19:18
To: OXBURGH, Lord
Subject: Meet?

Ron,

Should we meet up before the 10am meeting on Wednesday? My mobile number is [REDACTED]

Thanks

David

David J. Hand
Professor of Statistics, Imperial College, London Chief Scientific Advisor, Winton Capital Management President,
Royal Statistical Society

Phone: [REDACTED]

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Hand, David J

From: Hand, David J
Sent: 12 April 2010 11:15
To: OXBURGH, Lord
Subject: RE: Meet?

OK. 9.30 at the RI coffee shop it is.

Thanks

David

David J. Hand
Professor of Statistics, Imperial College, London
Chief Scientific Advisor, Winton Capital Management
President, Royal Statistical Society
Phone: [REDACTED]

From: OXBURGH, Lord [REDACTED]
Sent: 12 April 2010 08:13
To: Hand, David J
Subject: RE: Meet?

Good idea - there is a coffee shop which is part of the RI but has its own name and street level entrance. How about 9.30 there?

Best,
Ron

-----Original Message-----

From: Hand, David J [REDACTED]
Sent: 11 April 2010 19:18
To: OXBURGH, Lord
Subject: Meet?

Ron,

Should we meet up before the 10am meeting on Wednesday? My mobile number is [REDACTED]

Thanks

David

David J. Hand
Professor of Statistics, Imperial College, London Chief Scientific Advisor, Winton Capital Management President,
Royal Statistical Society

Phone: [REDACTED]

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Hand, David J

From: [REDACTED]
Sent: 12 April 2010 11:24
To: Hand, David J; [REDACTED]
Subject: RE: Press release

David

This is just being decided. My understanding (which I'll confirm) is that the plan is to release it in hardcopy at the press conference itself and not before.

Can I confirm with you that you do intend to attend with Lord Oxburgh?

many thanks

[REDACTED]

From: Hand, David J [REDACTED]
Sent: Monday, April 12, 2010 11:17 AM
To: [REDACTED]
Cc: [REDACTED]
Subject: Press release

[REDACTED]

Will the SAP report be released before the press conference on Wednesday, or is the plan to release it then?

Thanks

David

David J. Hand
Professor of Statistics, Imperial College, London
Chief Scientific Advisor, Winton Capital Management
President, Royal Statistical Society
[REDACTED]

27/05/2010

Hand, David J

From: Hand, David J
Sent: 12 April 2010 11:27
To: [REDACTED]
Subject: RE: Press release

Hi,

OK. Yes, I do intend to attend with Lord Oxburgh.

Thanks

David

David J. Hand
Professor of Statistics, Imperial College, London
Chief Scientific Advisor, Winton Capital Management
President, Royal Statistical Society
[REDACTED]

From: [REDACTED]
Sent: 12 April 2010 11:24
To: Hand, David J; [REDACTED]
Subject: RE: Press release

David

This is just being decided. My understanding (which I'll confirm) is that the plan is to release it in hardcopy at the press conference itself and not before.

Can I confirm with you that you do intend to attend with Lord Oxburgh?

many thanks

From: Hand, David J [REDACTED]
Sent: Monday, April 12, 2010 11:17 AM
To: [REDACTED]
Cc: [REDACTED]
Subject: Press release

[REDACTED]

Will the SAP report be released before the press conference on Wednesday, or is the plan to release it then?

Thanks

David

David J. Hand
Professor of Statistics, Imperial College, London
Chief Scientific Advisor, Winton Capital Management
President, Royal Statistical Society
[REDACTED]

27/05/2010

Hand, David J

From: Hand, David J
Sent: 12 April 2010 11:33
To: [REDACTED]
Subject: RE: Press release

Hi,

Thanks.

Some sort of media preparation before the briefing might be a good idea, if we can find a suitable time. I've given radio and TV interviews, and have even been trained to be an interviewer, but don't think I've done this sort of thing before.

Many thanks

David

David J. Hand
Professor of Statistics, Imperial College, London
Chief Scientific Advisor, Winton Capital Management
President, Royal Statistical Society

27/05/2010

Hand, David J

From: [REDACTED]
Sent: 12 April 2010 11:31
To: Hand, David J
Subject: RE: Press release

David
Thanks.

And yes I can confirm that the plan is to release it in hardcopy at the press conference itself and not before.

I'll be speaking to [REDACTED] in a minute and putting this question to him too - do either of you wish to have any kind of media training/preparation before the briefing, to help you prepare for questions? The Science media centre may be able to provide something if you wish, perhaps with [REDACTED] or [REDACTED]
[REDACTED]

Best,
[REDACTED]

27/05/2010

Hand, David J

From: [REDACTED]
Sent: 12 April 2010 18:05
To: Hand, David J; OXBURGH, Lord
Subject: preparation

Dear both

It looks like the SMC will not be able to help with providing any preparation at your 9:30am meeting, as they will be busy preparing for the press conference at that time. I'm not sure there will be another opportunity for you beforehand - but if you do want me to try and set something up for you tomorrow, please let me know. Alternatively we can put you in touch with a media adviser.

I've now heard that the SMC will be printing copies of the report and UEA response and issuing these to journalists in attendance at 9:30am on Weds.

I will also be attending on Weds so will be on hand if needed.

Best,

[REDACTED]

27/05/2010

Hand, David J

From: [REDACTED]
Sent: 12 April 2010 18:15
To: OXBURGH, Lord
Cc: Hand, David J
Subject: Penn State inquiry

Attachments: Findings_Mann_Inquiry.pdf



Findings_Mann_Inq
uiry.pdf (102...

Ron,
You mentioned concerns about Mann. I thought I recognised the name. Here's the report we received from his University's internal review which you may find of interest.

Best,
[REDACTED]

Hand, David J

From: Davies Trevor Prof (ENV [REDACTED])
Sent: 13 April 2010 13:51
To: Hand, David J
Subject: Report etc

Dear David,

Thank you very much for your immense input into the Oxburgh Report. [REDACTED] has, or soon will, sent you a copy of our response fyi. You will see that we have fully taken on board the suggestion of engaging more with statisticians, and look forward to discussing with you the most effective way of doing this - if you agree (but felt it would be best not to say in the Report that we we hope to talk to you about it!).

Best Wishes

Trevor

Professor Trevor Davies
Pro Vice-Chancellor Research, Enterprise & Engagement
University of East Anglia
Norwich, UK

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Hand, David J

From: [REDACTED]
Sent: 13 April 2010 18:04
To: OXBURGH, Lord; Hand, David J
Subject: FW: UEA response attached

Attachments: University response to Oxburgh report.doc



University response
to Oxburgh...

FYI - final version attached.

-----Original Message-----

From: [REDACTED]
Sent: Tuesday, April 13, 2010 5:23 PM
To: [REDACTED]
Subject: UEA response attached

[REDACTED] Head of Communications,
University of East Anglia,
Norwich, NR4 7TJ.
Tel: +44 (0)1603 593939
www.uea.ac.uk/comm
.....

Hand, David J

From: OXBURGH, Lord [REDACTED]
Sent: 14 April 2010 17:50
To: Fiona Fox; Hand, David J
Cc: [REDACTED]
Subject: RE: Oxburgh/UEA coverage so far

Many thanks, Fiona, for all your help and for your superb managing of the briefing.

Best,
 Ron

From: Fiona Fox [REDACTED]
Sent: 14 April 2010 17:43
To: OXBURGH, Lord; Hand, David J
Subject: FW: Oxburgh/UEA coverage so far

Dear Lord Oxburgh and David,

Just a quick note to show you some of the coverage we have picked up so far this afternoon. The Telegraph headline is perverse – but I must admit all the rest of the coverage looks good to me – even the Daily Mail!!! I wanted to say what a pleasure it was to have you two in the Science Media Centre today. Your whole approach and style was brilliant and you clearly endeared the journalists to yourselves through being so open and clear and compelling and robust. We've run many briefings on this subject now and this was by far the most relaxed and enjoyable.

Hope it was a positive experience for you too – I loved the fact that you managed to squeeze in quite a few messages about the way science works and an 'idiots guide to statistics' while you were at it!

Cheers
 [REDACTED]

Science Media Centre and UEA/Oxburgh News Briefing

Part 1: Findings of the report

Lord Ron Oxburgh
 Prof. David Hand

Part 2: Response from UEA

Prof. Edward Acton, Vice Chancellor
 Prof. Trevor Davies, Pro-Vice-Chancellor
 Prof Peter Liss, Acting Director of CRU

Attendees

[REDACTED]	BBC East
[REDACTED]	BBC
[REDACTED]	Daily Mail
[REDACTED]	BBC Panorama
[REDACTED]	BBC Panorama
[REDACTED]	Panorama
[REDACTED]	BBC
[REDACTED]	ITV
[REDACTED]	BBC
[REDACTED]	BBC
Tom Heap	BBC
[REDACTED]	PA
[REDACTED]	Channel 4 News
[REDACTED]	Guardian
[REDACTED]	Independent
[REDACTED]	Press Association
[REDACTED]	Times Higher Education
[REDACTED]	Reuters
[REDACTED]	Today
[REDACTED]	Telegraph

27/05/2010

	Sun
Oliver Morton	Economist
	New Scientist
	Research Fortnight
	FT
	Science
	BBC

Broadcast coverage

BBC News at One: <http://news.bbc.co.uk/1/hi/sci/tech/8620160.stm>

Newspaper coverage

Telegraph, Louise Gray: Lord Oxburgh and Prof. Hand quoted.

<http://www.telegraph.co.uk/earth/environment/climatechange/7589715/Climategate-scientists-criticised-for-not-using-best-statistical-tools.html>

Times Online, Ben Webster: Quotes Lord Oxburgh and Edward Acton. <http://www.timesonline.co.uk/tol/news/environment/article7097234.ece>

Times, Ben Webster: Quotes Lord Oxburgh <http://www.timesonline.co.uk/tol/news/environment/article7097334.ece#cid=OTC-RSS&attr=797084>

Channel 4 News: Oxburgh and Hand quoted

http://www.channel4.com/news/articles/politics/domestic_politics/climategate+science+unit+gets+ampaposclean+bill+of+healthampapos/3612297

London Evening Standard, Mark Prigg: "Panel" quoted. <http://www.thisislondon.co.uk/standard/article-23824512-climate-scientists-cleared-of-manipulating-research.do>

AFP: Lord Oxburgh quoted http://www.google.com/hostednews/afp/article/ALeqM5iNyWNZpAsCy_07cGGhJUbgMJSsNA

Daily Mail: Mentions Lord Oxburgh and Prof Hand. <http://www.dailymail.co.uk/news/article-1265921/No-evidence-malpractice-scientists-accused-fabricating-global-warming-results-inquiry-finds.html>

Nature.com blog, The Great beyond: Quotes report, UEA response and Bob Ward (Round up)

http://blogs.nature.com/news/thegreatbeyond/2010/04/cru_inquiry_science_solid_desp.html

Guardian, David Adam and James Randerson: Quotes Lord Oxburgh and response from UEA

<http://www.guardian.co.uk/environment/2010/apr/14/oxburgh-uea-cleared-malpractice>

Norfolk Eastern Daily News, Tara Greaves: [http://www.edp24.co.uk/content/edp24/news/story.aspx?](http://www.edp24.co.uk/content/edp24/news/story.aspx?brand=EDPOnline&category=News&tBrand=EDPOnline&tCategory=xDefault&itemid=NOED14%20Apr%202010%2013%3A49%3A51%3A260)

[brand=EDPOnline&category=News&tBrand=EDPOnline&tCategory=xDefault&itemid=NOED14%20Apr%202010%2013%3A49%3A51%3A260](http://www.edp24.co.uk/content/edp24/news/story.aspx?brand=EDPOnline&category=News&tBrand=EDPOnline&tCategory=xDefault&itemid=NOED14%20Apr%202010%2013%3A49%3A51%3A260)

BBC News: quotes Lord Oxburgh <http://news.bbc.co.uk/1/hi/sci/tech/8618024.stm>

Clips

Telegraph, Louise Gray: Lord Oxburgh and Prof. Hand quoted.

<http://www.telegraph.co.uk/earth/environment/climatechange/7589715/Climategate-scientists-criticised-for-not-using-best-statistical-tools.html>

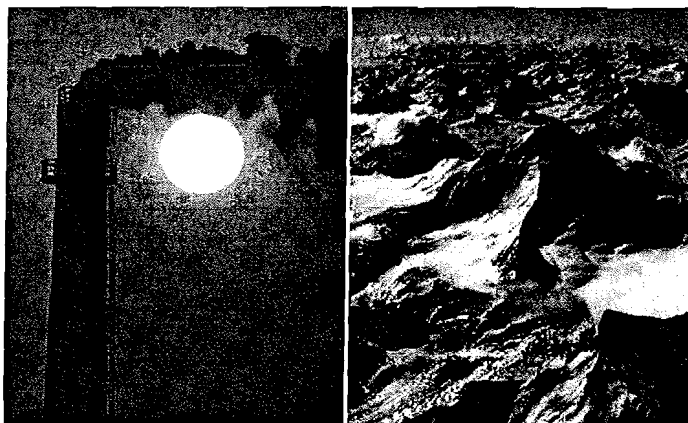
'Climategate' scientists criticised for not using best statistical tools

Climate change scientists at the centre of an ongoing row over man-made global warming have been criticised for being "naive" and "disorganised".

By Louise Gray, Environment Correspondent

Published: 1:34PM BST 14 Apr 2010

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Sceptics still question the extent of man-made global warming

An independent inquiry said the Climatic Research Unit (CRU) at the University of East Anglia was "ill prepared for being the focus of public attention" when sceptics began to question their figures on climate change.

As well as taking issue with the researchers' record keeping, the panel of experts said better statistical methods should have been used to interpret the "messy" data on world temperatures.

"We found a small group of dedicated if slightly disorganised researchers who were ill-prepared for being the focus of public attention," said Lord Oxburgh, an academic and former head of Shell, who conducted the inquiry.

However, there was no evidence of "deliberate scientific malpractice", meaning the conclusion that mankind is causing global warming is probably correct.

The independent panel said any exaggeration of the extent of global warming was made by other organisations, including public bodies and governments, that took the information produced by academics but failed to inform the public about the uncertainties.

Supporters of the scientists said the investigation upheld the science behind global warming and undermined the arguments of critics.

The "climategate" scandal erupted after thousands of emails were stolen from the CRU at the end of last year. One email referred to a "trick" to "hide the decline" in global temperatures, prompting claims that scientists were willing to manipulate the data to exaggerate the extent of global warming.

The incident led to a public outcry, casting doubt over climate change just as the United Nations was meeting in Copenhagen to try to agree a deal to stop global warming.

Lord Oxburgh was asked to look back at 20 years of research by CRU in order to check the scientific methods were sound. In a detailed review of 11 scientific papers he found "absolutely no evidence of any impropriety whatsoever".

"Whatever was said in the emails, the basic science seems to have been done honestly and fairly," he said.

Lord Oxburgh said any exaggeration of the extent of global warming happened when the data produced by CRU was presented to the public by various organisations, including the UN body in charge of climate change the Intergovernmental Panel on Climate Change that went on to advise Governments around the world. The IPCC has also been criticised for incorrectly claiming the Himalayan glaciers could melt by 2035.

"I am sure that they [public bodies including the IPCC] took the uncertainties into account making policy but in the way some of this has been presented to the public, it has not," he said.

The statistical methods used by the scientists could also have been improved, according to the panel.

Professor David Hand, president of the Royal Statistical Society and a member of the review panel, said improved techniques developed by computers over recent years could have been used.

"I think that CRU perhaps did not use the most advanced statistical tools. But it's not clear to me that that, had they done, that they would have drawn different conclusions," he said.

However Professor Hand did say that "inappropriate methods" were used by a separate university to draw up the infamous "hockey stick" graph showing the rise in global temperatures over more than 1,000 years.

Again, he said the basic shape of the graph would not have been changed but the rise in temperature during the 20th century compared to the past was exaggerated.

Overall Prof Hand said the scientists at CRU were to be commended for making clear there are uncertainties in the extent of global warming – although that does not change the overall trend.

"There is no evidence of anything underhand – the opposite, if anything, they have brought out into the open the uncertainties with what

they are dealing with," he said.

Edward Acton, Vice Chancellor of the University of East Anglia, said the report was a great relief to the individuals involved including the head of the CRU at the time Prof Phil Jones.

"This has been a horrendous experience for Phil Jones and a turbulent time for CRU," he said. "We have had months of vilification against our most precious asset of scientific integrity which, as this report confirms yet again, was totally unjustified."

Bob Ward, policy and communications director at the Grantham Research Institute on Climate Change and the Environment at London School of Economics and Political Science, called for an apology from the sceptics.

"I think those so-called sceptics who have attempted to undermine the credibility of climate change science on the basis of the hacked emails now need to apologise for misleading the public about their significance."

Times Online, Ben Webster: Quotes Lord Oxburgh and Edward Acton. <http://www.timesonline.co.uk/tol/news/environment/article7097234.ece>

Climate scientists at East Anglia University cleared by inquiry



(Chris Bourchier/The Sunday Times)

Professor Phil Jones has stood down from his post as director of the unit while investigations take place

Ben Webster, Environment Editor

[7 COMMENTS](#)

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Climate scientists at the centre of the row over stolen e-mails acted with integrity and made no attempt to manipulate their research on global temperatures, an external inquiry has found.

Their research was, however, misrepresented by the Intergovernmental Panel on Climate Change, which failed to reflect uncertainties the scientists had reported concerning the raw temperature data.

An inquiry panel of leading scientists, nominated by the Royal Society, said that the University of East Anglia's Climatic Research Unit may not have used the best methods for analysing temperature records.

The unit had also failed to store all its data and keep full records of exactly what it had done, preventing other scientists from checking all its findings.

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[Sceptics publish stolen climate e-mails](#)

[University 'tried to mislead on climate change'](#)

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But after interviewing the unit's scientists and studying 11 of their reports, the panel concluded: "We found them to be objective and dispassionate in their view of the data and their results, and there was no hint of tailoring results to a particular agenda.

"Their sole aim was to establish as robust a record of temperatures in recent centuries as possible."

Professor Phil Jones has stood down from his post as director of the unit while investigations take place into issues raised by a thousand e-mails he sent or received.

A separate inquiry, chaired by Sir Muir Russell, is continuing into the contents of the e-mails and apparent attempts by Professor Jones to suppress data.

His research underpins the claim made by the IPCC that it is highly likely that rising temperatures since the mid-20th century have been caused by human activities.

The panel was not asked to consider whether the unit's findings were correct but to judge whether the scientists had conducted their research in an honest and robust manner.

The panel said it was "regrettable" that the IPCC, in its advice to governments on climate change, had failed to reflect uncertainties that had been clearly stated in the unit's reports.

"Recent public discussion of climate change and summaries and popularisations of the work of CRU and others often contain oversimplifications that omit serious discussion of uncertainties emphasized by the original authors.

"For example, CRU publications repeatedly emphasise the discrepancy between instrumental and tree-based proxy reconstructions of temperature during the late 20th century, but presentations of this work by the IPCC and others have sometimes neglected to highlight this issue."

The panel also criticised the Government for "impeding the flow of processed and raw data to and between researchers" by adopting a policy of charging for access to environmental data collected by publicly funded researchers.

"This is unfortunate and seems inconsistent with policies of open access to data promoted elsewhere in government."

The panel said the unit's findings would have been more robust if they had worked with experts on interpreting statistics.

However, the panel reserved its strongest criticism for the climate sceptics who had accused the unit of manipulating its findings.

It said the attacks on the unit's work had been "selective and uncharitable".

It added: "Although we deplore the tone of much of the criticism that has been directed at CRU, we believe that this questioning of the methods and data used... will ultimately have a beneficial effect and improve working practices."

The panel, whose members were appointed by the university on the recommendation of the Royal Society, has been accused of lacking independence.

Lord Oxburgh, the panel's chairman, has links to low-carbon energy companies that stand to profit from efforts to cut greenhouse gases.

He is chairman of wind energy firm Falck Renewables and president of the Carbon Capture and Storage Association.

Edward Acton, vice chancellor of UEA, described the panel's report as "hugely positive".

He said: "UEA has already put on record its deep regret and anger that the theft of e-mails from the University, and the blatant misrepresentation of their contents as revealed both in this report and the previous one by the Science and Technology Select Committee, damaged the reputation of UK climate science.

"We would like to express our gratitude to Lord Oxburgh and his selfless group of scientists for producing this important report."

The university accepted the criticisms of the unit's statistical techniques and data storage and said these issues would be rectified.

Times, Ben Webster: Quotes Lord Oxburgh <http://www.timesonline.co.uk/tol/news/environment/article7097334.ece#cid=OTC-RSS&attr=797084>

Analysis: sceptics will not be appeased

Ben Webster, Environment Editor

Phil Jones says that he contemplated suicide after the leaking of his e-mails resulted in accusations that he had faked the evidence for man-made climate change.

He and his fellow scientists at the University of East Anglia's Climatic Research Unit (CRU) will draw great comfort from today's report by an external panel.

It is the second report in two weeks to exonerate them and conclude that their research was conducted with integrity. The Commons Science and Technology Committee had said that Professor Jones had "no case to answer".

But both reports have already been dismissed as whitewashes by climate sceptics, who have spent years picking holes in the conclusion reached by the overwhelming majority of climate scientists that the temperature increase in recent decades is man-made and dangerous.

The sceptics' suspicions have been fuelled by the praise heaped on Professor Jones and the CRU in the latest report.

The international panel of scientists, chaired by Lord Oxburgh, a former chairman of Shell UK, paints a picture of a small group of unassuming researchers dedicated to seeking the truth about climate change.

The panel's report says: "We believe that CRU did a public service of great value by carrying out much time-consuming meticulous work on temperature records at a time when it was unfashionable and attracted the interest of a rather small section of the scientific community."

Lord Oxburgh added: "I don't think they even minded what the outcome of their work was, as long as it was as close to the truth as possible."

Scientists build their reputations on their theories and the sceptics will find it hard to believe that Professor Jones and his colleagues would have been just as happy if they had found evidence which contradicted their previous conclusions.

The sceptics have questioned Lord Oxburgh's independence because he has close links to companies that stand to profit from global efforts to reduce greenhouse gas emissions.

The Royal Society had recommended him, but it was the university's final decision to appoint him to chair the panel.

Lord Oxburgh says he told the university, when it approached him, that people might question his independence.

"I said undoubtedly people will point at this and their answer was, after they consulted, that I was the best person to do it."

The university could not have hoped for a stronger endorsement of its science, but today's report would have silenced more critics if it had been presented by a chairman with no links to low-carbon businesses.

Channel 4 News: Oxburgh and Hand quoted

http://www.channel4.com/news/articles/politics/domestic_politics/climategate+science+unit+gets+ampaposclean+bill+of+health+ampapos/3612297

Climategate: science unit gets 'clean bill of health'

By Channel 4 News

27/05/2010

Updated on 14 April 2010

An independent review into the science on climate change produced by a research unit at the University of East Anglia has concluded that there is no evidence of "deliberate scientific malpractice" at the centre.



A detailed review of 11 scientific papers from the CRU published over 20 years found "absolutely no evidence of any impropriety whatsoever", according to Lord Oxburgh, who headed up the inquiry.

Lord Oxburgh said the scientists at the research unit arrived at their conclusions "honestly and sensibly".

The conclusions were not tested by the review panel and therefore cannot be proved correct or incorrect.

But the scientific processes behind the CRU's hypotheses were given a "clean bill of health".

He said the reviewers found that the scientists could have used better statistical methods in analysing some of their data, but this was unlikely to have made much difference to the results.

Professor David Hand, a statistician from Imperial College and a member on the review panel, said the "inappropriate" methods for analysing the data had been used in the famous "hockey-stick" graph produced by US scientists led by Michael Mann in 1998 which showed a steep recent rise in temperatures.

Hand said this resulted in an exaggeration of the phenomenon. He said that there is no evidence these "inappropriate methods" were implemented by CRU.

He added: "I think that CRU perhaps did not use the most advanced statistical tools. But it's not clear to me that, had they done, that they would have drawn different conclusions."

And he said the researchers "are to be commended" for spelling out the uncertainties of the data in their scientific papers.

He concluded "there is no evidence of anything underhand. The opposite, if anything, they have brought out into the open the uncertainties with what they are dealing with."

The University of East Anglia's (UEA) climatic research unit (CRU) had become embroiled in a global row over emails sent by some of its scientists last year, which implied they had manipulated data supporting the theory of manmade global warming.

The emails had been hacked and were leaked online, which fueled the "[climategate](#)" row between climate scientists and sceptics.

The timing of the leaks was significantly before world leaders met in [Copenhagen](#) to attend a climate summit.

Last month the University of East Anglia was told by a committee of MPs to publish all their raw data and methods to ensure the research is "irreproachable" in future.

[The Commons Science and Technology Committee](#), said a "culture of non-disclosure" at the University of East Anglia in response to Freedom of Information (FoI) requests for climate data was "reprehensible".

The committee said that some of the leaked emails suggested a "blunt refusal" by the CRU's head [Professor Phil Jones](#) to share scientific data.

But Phil Willis, chairman of the committee said the inquiry had found no evidence that Prof Jones hid or manipulated data to back up his own science.

Much of the criticism of CRU by sceptics has focused on an email in which Prof Jones talks about using a

27/05/2010

"trick" to "hide the decline" in temperature records sourced from tree ring data in the 1960s.

But the MPs said the phrases were colloquialisms and did not represent a systematic attempt to mislead.

London Evening Standard, Mark Prigg: "Panel" quoted. <http://www.thisislondon.co.uk/standard/article-23824512-climate-scientists-cleared-of-manipulating-research.do>

Climate scientists cleared of manipulating research



Mark Prigg, Science and Technology Editor

14.04.10

The scientists at the centre of the "climategate" email scandal were today cleared of malpractice by an independent panel.

The panel, chaired by Lord Oxburgh, was convened to examine the conclusions of research published by the Climate Research Unit at the [University of East Anglia](#).

It began its review after hacked emails from research unit scientists were published on the web, leading climate sceptics to claim the statistical methods used were inadequate.

The panel said it might be helpful if researchers worked more closely with professional statisticians in the future to avoid problems.

"We cannot help remarking that it is very surprising that research in an area that depends so heavily on statistical methods has not been carried out in close collaboration with professional statisticians," the panel said.

The emails were put on the web in November. Critics said the exchanges revealed an attempt by the researchers involved to manipulate data.

A recent House of Commons Science and Technology Committee report into the emails also concluded that the scientists involved had no intention to deceive.

Leading scientists welcomed the finding. Dr Myles Allen, head of the Climate Dynamics Group at [Oxford University](#), said: "Anyone familiar with the way science works would know it would be quite impossible for a group of scientists to maintain a conspiracy for 20 minutes, never mind 20 years."

AFP: Lord Oxburgh quoted http://www.google.com/hostednews/afp/article/ALeqM5iNyWNZpAsCy_O7cGGhJUbGmJSsNA

'No deliberate malpractice' in British climate row
(AFP) — 1 hour ago

LONDON — A review of the work of one of the world's leading climate research centres, launched after a major scandal last year, concluded Wednesday there had been no deliberate scientific malpractice.

The University of East Anglia's Climatic Research Unit (CRU) became embroiled in a worldwide row after more than 1,000 emails were hacked from the university's server and posted online.

Sceptics claimed the messages showed evidence scientists were trying to exaggerate the case for global warming in the run-up to December's UN climate talks aimed at striking a new accord to tackle climate change.

An independent panel, led by Lord Ron Oxburgh, was asked by the university last month to look into claims that the CRU's data had been dishonestly selected or manipulated, and concluded Wednesday it had not.

"We saw no evidence of any deliberate scientific malpractice in any of the work of the Climatic Research Unit, and had it been there we believe that it is likely that we would have detected it," the panel said.

However, it added: "It is very surprising that research in an area that depends so heavily on statistical methods has not been carried out in close collaboration with professional statisticians."

A parliamentary inquiry last month cleared the CRU scientists of wrongdoing, while a third investigation launched in December has yet to report back.

Daily Mail: Mentions Lord Oxburgh and Prof Hand. <http://www.dailymail.co.uk/news/article-1265921/No-evidence-malpractice-scientists-accused-fabricating-global-warming-results-inquiry-finds.html>

'Climategate' scientists CLEARED of manipulating global warming data

By [Daily Mail Reporter](#)

Last updated at 12:29 PM on 14th April 2010

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27/05/2010

The scientists embroiled in the Climategate email scandal have been cleared of 'deliberate scientific malpractice' by an independent review.

The University of East Anglia's Climatic Research Unit (CRU) has been under attack since hacked emails were leaked online last year, which sceptics claimed showed scientists were manipulating data to support a theory of man-made global warming.

But a detailed review of 11 scientific papers from CRU published over 20 years found 'absolutely no evidence of any impropriety whatsoever', according to Lord Oxburgh, who headed up the inquiry.



Climategate: Professor Phil Jones appeared before MPs last month to deny manipulating climate change data

Lord Oxburgh said the scientists at the research unit arrived at their conclusions 'honestly and sensibly'.

The review did not analyse whether those conclusions were correct, but gave the scientific processes at CRU a 'clean bill of health', he said.

He said the reviewers found that the scientists could have used better statistical methods in analysing some of their data, but that it was unlikely to have made much difference to their results.

The row centred mainly around an email sent by the University's Professor Phil Jones, who discussed using a 'trick' to 'hide the decline' in temperature records sourced from tree ring data in the 1960s.

Today's report follows an official inquiry released last month which also cleared researchers of wrongdoing.

But the committee of MPs said the university had an 'unacceptable' culture of secrecy and may have broken Freedom of Information laws.

They also called for greater openness from global warming scientists about their research and data.

Professor Jones appeared before MPs last month to deny manipulating figures.

He admitted withholding data about global temperatures but said the information was publicly available from American websites.

'I have obviously written some pretty awful emails,' he admitted.

And he claimed it was not 'standard practice' to release data and computer models so other scientists could check and challenge research.

'I don't think there is anything in those emails that really supports any view that I, or the CRU, have been trying to pervert the peer review process in any way,' he said.

Lord Oxburgh's review said inappropriate statistical methods which could produce misleading results had been used by other groups of scientists, but papers from CRU had not used them.

Professor David Hand, a statistician from Imperial College and a member of the review panel, said the 'inappropriate' methods for analysing the data had been used in the famous 'hockey-stick' graph produced by US scientists led by Michael Mann in 1998 which showed a steep recent rise in temperatures.

This had led to an exaggeration of the phenomenon, he said.

But the investigation into CRU did not reveal that researchers in the UK had used those 'inappropriate methods'.

'I think that CRU perhaps did not use the most advanced statistical tools. But it's not clear to me that that, had they done, that they would have drawn different conclusions,' he said.

And he said the researchers 'are to be commended' for spelling out the uncertainties of the data in their scientific papers.

'There is no evidence of anything underhand - the opposite, if anything, they have brought out into the open the uncertainties with what they are dealing with.'

Nature.com blog, The Great beyond: Quotes report, UEA response and Bob Ward (Round up)
http://blogs.nature.com/news/thegreatbeyond/2010/04/cru_inquiry_science_solid_desp.html

CRU inquiry: science solid despite lack of statistical know-how - April 14, 2010

The integrity of research by the 'climate-gate' scientists has been upheld by the latest report into the email theft affair, despite the inquiry team expressing surprise that few professional statisticians were involved in work that is "fundamentally statistical".

This inquiry, headed by Ron Oxburgh, is one of a number into the aftermath of emails leaked from the Climatic Research Unit at the University of East Anglia. It was established to consider allegations that papers emanating from CRU had manipulated data dishonestly to support pre-determined conclusions on climate change.

"We saw no evidence of any deliberate scientific malpractice in any of the work of the Climatic Research Unit and had it been there we believe that it is likely that we would have detected it," says the [Oxburgh report](#). "Rather we found a small group of dedicated if slightly disorganised researchers who were ill-prepared for being the focus of public attention."

This report reviewed 11 publications considered to be representative of the CRU's output (including two papers published in *Nature*). These cover direct temperature observations and the tree ring work that has caused many climate change sceptics to get so hot under the collar.

The tree-ring work was considered by the panel to have been "carried out with integrity" and the methods used in the direct temperature work were "fair and satisfactory". However, the lack of proper statistical input into CRU's research did displease Oxburgh's panel.

"We cannot help remarking that it is very surprising that research in an area that depends so heavily on statistical methods has not been carried out in close collaboration with professional statisticians," says their report.

In response, a [statement](#) from UEA says that specialists gain their own statistical skills. "However, we do see the sense in engaging more fully with the wider statistics community to ensure that the most effective and up-to-date statistical techniques are adopted and will now consider further how best to achieve this," it adds.

Oxburgh's panel has already been attacked by some over perceived conflicts of interest – such as its chair also being [honorary president](#) of the Carbon Capture and Storage Association. The other inquiries into the email theft and subsequent 'climate-gate' furore have also been attacked on similar grounds.

Bob Ward, policy and communications director at the Grantham Research Institute on Climate Change, said in a statement, "The panel has carried out a thorough investigation of the evidence, and anybody who simply rejects these findings will show that they are motivated by prejudice and ideology rather than by scepticism and a desire to uncover the truth. I think those so-called sceptics and commentators in the media who have attempted to undermine the credibility of climate change science on the basis of the hacked e-mails now need to apologise for misleading the public about their significance."

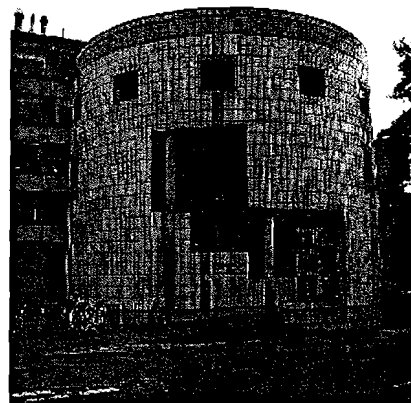
Image: CRU building at UEA / wikipedia

Guardian, David Adam and James Randerson: Quotes Lord Oxburgh and response from UEA
<http://www.guardian.co.uk/environment/2010/apr/14/oxburgh-uea-cleared-malpractice>

Scientists cleared of malpractice in UEA's hacked emails inquiry

Researchers 'dedicated if slightly disorganised', but basic science was fair, finds inquiry commissioned by university

- [David Adam and James Randerson](#)
- [guardian.co.uk](#), Wednesday 14 April 2010 11.11 BST
- [Article history](#)





Lord Oxburgh, former chair of the House of Lords science and technology select committee, cleared the scientists of malpractice. Photograph: Eamonn McCabe

The scientists at the centre of the row over the hacked climate emails have been cleared of any deliberate malpractice by the second of three inquiries into their conduct.

The inquiry panel, led by the former chair of the House of Lords science and technology select committee Lord Oxburgh, was commissioned by the University of East Anglia with investigating the research produced by the scientists at its Climatic Research Unit (CRU).

The work of the unit has come under intense scrutiny since November when thousands of private emails between the researchers were released onto the internet. At a press conference earlier today Lord Oxburgh said, "Whatever was said in the emails, the basic science seems to have been done fairly and properly," although his panel did criticise the scientists for not using the best statistical techniques at times.

The report concluded: "We saw no evidence of any deliberate scientific malpractice in any of the work of the Climatic Research Unit and had it been there we believe that it is likely that we would have detected it. Rather we found a small group of dedicated if slightly disorganised researchers who were ill-prepared for being the focus of public attention. As with many small research groups their internal procedures were rather informal."

In a formal response to the report the UEA wrote: "It is gratifying to us that the Oxburgh report points out that CRU has done a public service of great value by carrying out meticulous work on temperature records when it was unfashionable and attracted little scientific interest, and that the unit has been among the leaders in international efforts to determine the overall uncertainty in the derived temperature records."

The panel was not tasked specifically with looking at the way CRU handled access to its data and Freedom of Information requests from members of the public but it commented that there were "a host of important unresolved questions" arising from the application of FoI to academic research. "We agree with the CRU view that the authority for releasing unpublished raw data to third parties should stay with those who collected it," the report said.

It did criticise the government's policy of charging for access to data. "This is unfortunate and seems inconsistent with policies of open access to data promoted elsewhere in government."

The panel did raise doubts about the statistical input into scientific papers authored by researchers at CRU. "We cannot help remarking that it is very surprising that research in an area that depends so heavily on statistical methods has not been carried out in close collaboration with professional statisticians," it concluded.

In UEA's formal response it noted: "Specialists in many areas of research acquire and develop the statistical skills pertinent to their own particular data analysis requirements. However, we do see the sense in engaging more fully with the wider statistics community to ensure that the most effective and up-to-date statistical techniques are adopted and will now consider further how best to achieve this."

The University of East Anglia set up and funded the review in March. The appointment of Oxburgh, who is a former industry scientist and academic has been criticised by some who are suspicious of CRU's work. He is currently president of the Carbon Capture and Storage Association and has business interests in wind energy so critics have alleged that he has a vested interest in defending the science of climate change. Oxburgh denies that the review panel had a pre-conceived opinion about the science.

This is the second of three inquiries into the release of private emails from researchers at UEA. The first, by the House of Commons Science and Technology select committee criticised UEA for not tackling a "culture of withholding information" among the scientists. It did not blame CRU or Prof Phil Jones for these failings and concluded that his scientific reputation was untarnished. Third inquiry into the hacked emails, headed by Sir Muir Russell, who was appointed by UEA in December to look at four key allegations arising from the correspondence, is due to report shortly.

The members of Oxburgh's panel were: Prof Huw Davies at ETH Zurich, Prof Kerry Emanuel at MIT, Prof Lisa Graumlich of the University of Arizona, Prof David Hand of Imperial College London, and Prof Herbert Huppert and Prof Michael Kelly at the University of Cambridge.

- You can read Fred Pearce's full investigation into the hacked climate emails here.

Norfolk Eastern Daily News, Tara Greaves: <http://www.edp24.co.uk/content/edp24/news/story.aspx?brand=EDPOnline&category=News&tBrand=EDPOnline&tCategory=xDefault&itemid=NOED14%20Apr%202010%2013%3A49%3A51%3A260>

UEA climate unit did nothing wrong

TARA GREAVES

Last updated: 14/04/2010 14:20:00

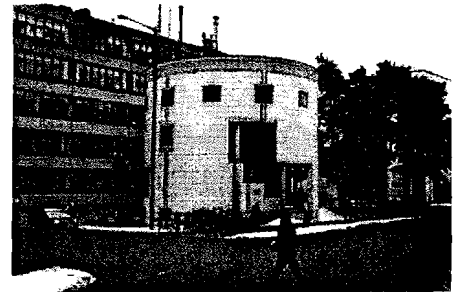
Scientists working at the Norfolk university unit at the centre of the "climategate" row were guilty of being "disorganised" but there was no evidence of any "deliberate scientific malpractice in any of the work", according to an independent report today.

The University of East Anglia's Climatic Research Unit (Cru) has been embroiled in controversy since hacked emails were leaked online last year, which sceptics claimed showed scientists were manipulating data to support a theory of manmade global warming.

But a second review into the saga, which this time looked at scientific papers published by the unit in the last 20 years, found "absolutely no evidence of any impropriety whatsoever", according to Lord Oxburgh, chairman of the inquiry.

The report concludes: "We saw no evidence of any deliberate scientific malpractice in any of the work of the Climatic Research Unit and had it been there we believe that it is likely that we would have detected it. Rather we found a small group of dedicated if slightly disorganised researchers who were ill-prepared for being the focus of public attention. As with many small research groups their internal procedures were rather informal."

For more on this story see tomorrow's paper.



The Climatic Research Unit at the centre of the email scandal.

BBC News: quotes Lord Oxburgh <http://news.bbc.co.uk/1/hi/sci/tech/8618024.stm>

'No malpractice' by climate unit

There was no scientific malpractice at the University of East Anglia's Climatic Research Unit, which was at the centre of the "Climategate" affair.

This is according to an independent panel chaired by Lord Oxburgh, which was convened to examine the research published by the unit.



The row surrounds e-mails hacked from the University of East Anglia

It began its review after e-mails from CRU scientists were published online.

The panel said it might be helpful if researchers worked more closely with professional statisticians.

This would ensure the best methods were used when analysing the complex and often "messy" data on climate, the report said.

"We cannot help remarking that it is very surprising that research in an area that depends so heavily on statistical methods has not been carried out in close collaboration with professional statisticians," the panel remarked in its conclusions.

The e-mails issue came to light in November last year, when hundreds of messages between CRU scientists and their peers around the world were posted on the world wide web, along with other documents.

Critics said that the e-mail exchanges revealed an attempt by the researchers involved to manipulate data.

But a recent House of Commons Science and Technology Committee report into the e-mails concluded that the scientists involved had no

intention to deceive.

And Lord Oxburgh said that he hoped these further "resounding affirmations" of the unit's scientific practice would put those suspicions to bed.

He stated: "We found absolutely no evidence of any impropriety whatsoever. That doesn't mean that we agreed with all of their conclusions, but these people were doing their jobs honestly."

Climate interest

The chair has been challenged over his other interests. Lord Oxburgh is currently president of the Carbon Capture and Storage Association and chairman of wind energy firm Falck Renewables.

Critics say clean energy companies would benefit from policies to tackle climate change. But Lord Oxburgh insists the panel did not have a pre-conceived view.

The panel included Professor David Hand, president of the Royal Statistical Society, who had been examining the way CRU used statistical methodology to develop an average annual global temperature.

Climate sceptics have argued CRU's statistical methods were inadequate.

And Professor Hand pointed out that the translation of "messy data" into clear facts had caused problems.

But he said that the CRU were "to be commended for how they dealt with the data," adding that, in their research papers, they were very open about the uncertainty in the numbers.

It is straightforward to get a measurement precise in space and time from an individual weather station - albeit with uncertainties attached.

But some countries have many weather stations, while others have very few, and there are sizeable areas of the Earth with no surface measurements at all.

"Unfortunately," Professor Hand said, "when this research is [republished and] popularised, those caveats tend to be forgotten."

The panel noted that the Intergovernmental Panel on Climate Change (IPCC) was one of the organisations that had "oversimplified" the CRU data it used in its publications.

They said it had neglected to highlight the discrepancy between direct and "proxy" measurements, such as the tree ring data often used to reconstruct past temperature changes.

He added that CRU had been "a little naïve" in not working more closely with statisticians.

Lord Oxburgh said that undertaking such interdisciplinary work in the future would address the fact that there "probably wasn't enough involvement of people outside of the immediate [climatic research] community" in the work undertaken at CRU.

UEA's vice chancellor Edward Acton said he welcomed the report.

"It is especially important that, despite a deluge of allegations and smears against the CRU, this independent group of utterly reputable scientists have concluded that there was no evidence of any scientific malpractice," he said.

Dr Benny Peiser, director of the Global Warming Policy Foundation, criticised the panel for producing a report that was "not even-handed" and appeared to be the product of a "rushed job".

He said: "This has produced a very superficial report. The panel should have taken more time to come to more balanced and trustworthy conclusions.

"They should have heard evidence from critical researchers who have been working in the same field for many years."

But Lord Oxburgh said that the seriousness of the allegations being investigated made it crucial that the panel publish their findings "as

quickly as possible".

He explained: "We read 11 key [CRU] publications spreading back over 20 years and a large number of others. We then spent 15 person days interviewing the scientists at UEA.

"I don't know what more we could have done and we came to a unanimous conclusion."

-



Science Media Centre

a: 21 Albemarle Street, London, W1S 4BS

f: [Redacted]
e: [Redacted]

w: www.sciencemediacentre.org

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Hand, David J

From: [REDACTED] on behalf of Oliver Morton [REDACTED]

Sent: 14 April 2010 18:18

To: Oliver Morton

Subject: Economist story on Oxburgh report

Dear anonymously addressed recipient

I try (though I often forget) to alert people to things that I have written about them. This is to let you know that The Economist's piece on the Oxburgh Report has just gone live on our website.

http://www.economist.com/science-technology/displaystory.cfm?story_id=15905175&source=features_box_main

Please let me know of mistakes, misprisions and suggested directions for future work.

With all best wishes

Oliver

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Oliver Morton
Energy and Environment Editor
The Economist

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27/05/2010

Hand, David J

From: Michael Mann [REDACTED]
Sent: 14 April 2010 18:46
To: Hand, David J
Subject: talk

Hi David,

I'm contacting you in regards to some comments you made about my work in a press conference this morning in the UK.

I'd appreciate the opportunity to discuss this with you, if you would be willing.

if you might have a chance to chat over the phone, I'd be much obliged.

I can be reached at: [REDACTED]

best regards,

Mike Mann

--
Michael E. Mann
Professor
Director, Earth System Science Center (ESSC)

Department of Meteorology
503 Walker Building
The Pennsylvania State University
University Park, PA 16802-5013

Phone: [REDACTED]
FAX: [REDACTED]
email: [REDACTED]

website: <http://www.meteo.psu.edu/~mann/Mann/index.html>
"Dire Predictions" book site:
http://www.essc.psu.edu/essc_web/news/DirePredictions/index.html

27/05/2010

Hand, David J

From: Hand, David J
Sent: 14 April 2010 21:37
To: 'Fiona Fox'; [REDACTED]
Subject: RE: Oxburgh/UEA coverage so far

Dear [REDACTED],

Thanks very much for your email. It was a very interesting experience - and quite fun in its way. I thought the questions were all very fair.

Best wishes

David

David J. Hand
Professor of Statistics, Imperial College, London
Chief Scientific Advisor, Winton Capital Management
President, Royal Statistical Society

27/05/2010

Hand, David J

From: Hand, David J
Sent: 14 April 2010 21:45
To: 'OliverMorton' [REDACTED]
Subject: RE: Economist story on Oxburgh report

Dear Oliver,

That's fine. I realised I shouldn't have said I'd like to bang their heads together, but it is true that I did!

In fact, I read considerably more than the 11 publications. These were presented to us, but we asked for other background material, and I also downloaded many other papers, and read the ClimateAudit and other websites, and also bought and read Montford's book 'The hockey stick illusion' as well as other books on the subject. I know that other panellists also read widely beyond the chosen 11 papers.

Thanks

David

David J. Hand
Professor of Statistics, Imperial College, London
Chief Scientific Advisor, Winton Capital Management
President, Royal Statistical Society

27/05/2010

Hand, David J

From: [REDACTED] on behalf of Oliver Morton [REDACTED]

Sent: 15 April 2010 08:13

To: Hand, David J

Subject: Fwd: Economist story on Oxburgh report

Dear David

I thought you might be interested in the below, forwarded with McIntyre's permission

Best, o

----- Forwarded message -----

From: Steve McIntyre [REDACTED]

Date: Wed, Apr 14, 2010 at 8:38 PM

Subject: RE: Economist story on Oxburgh report

To: [REDACTED]

It's interesting that Hand is more generous to critics orally than in the text of the report. You say:

His concerns centred mostly on questions about the selection of data sets and the need for studies that showed how sensitive the results were to different selections of data. These are, in effect, what some critics are offering (though with what the report calls "a rather selective and uncharitable approach". This antagonism irritates Dr Hand, since he thinks proper statistical scrutiny would have improved the work with little fuss. "What I want to do", he says, "is bang their heads together and say sit down together and work out what's going on."

In December 2005 – before the NAS Panel, before 95% of this - I had lunch with [REDACTED] (who purported to support Mann). Because I knew that our codes reconciled and we had many results in common, I proposed that we declare a two-month armistice in which we would attempt to write a statement on what we agreed on, what we disagreed on and how the remaining disagreements would be resolved. Each party would have the right to attach an addendum stating their own viewpoint. If, after 60 days of effort, we were unable to get such a text, the armistice would end.

[REDACTED] said that this would be "bad for his career" if he did this.

They obviously adopted a different strategy in which organs like realclimate abused me and others for any and all criticisms.

The strategy of realclimate has been to insist on a sort of infallibility for Mann and others – this insistence on infallibility is something that has occasioned a number of comments from bloggers and

27/05/2010

has to be considered in trying to figure out why the present debate is so peculiar.

It is unfair that Hand, in effect, blames me for this stalemate on me.

From: [REDACTED] **On Behalf Of** Oliver Morton
Sent: April-14-10 1:13 PM
To: Oliver Morton
Cc: Lord OXBURGH; David Hand; Steve McIntyre
Subject: Economist story on Oxburgh report

Dear anonymously addressed recipient

I try (though I often forget) to alert people to things that I have written about them. This is to let you know that The Economist's piece on the Oxburgh Report has just gone live on our website.

http://www.economist.com/science-technology/displaystory.cfm?story_id=15905175&source=features_box_main

Please let me know of mistakes, misprisions and suggested directions for future work.

With all best wishes

Oliver

--

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Oliver Morton
Energy and Environment Editor
The Economist

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Oliver Morton
Energy and Environment Editor
The Economist

27/05/2010

Hand, David J

From: OXBURGH, Lord [REDACTED]
Sent: 15 April 2010 11:51
To: Dr Lisa Graumlich; Hand, David J; Prof Herbert Huppert; Prof Huw Davies; Prof Kerry Emanuel; Prof Michael Kelly
Cc: [REDACTED] Liss Peter Prof (ENV); Davies Trevor Prof (ENV)
Subject: Publication of Scientific Assessment Panel Report
Attachments: Report of the Science Assessment Panel.doc; Findings_Mann_Inquiry.pdf; University response to Oxburgh report.doc

Dear All,

As most of you are probably aware our report was published yesterday. A press conference was held at the Science Media Centre in London yesterday morning. To my surprise, in spite of the fact that we are in the middle of general election and a party manifesto was being launched yesterday, the occasion was very well attended with standing room only for the late comers. In view of the importance of statistics in the whole process and our comments I invited David Hand to join me. The occasion seemed to go reasonably well and David was able to give the journalists a three minute course in elementary statistics that they seemed to enjoy. The questions were not hostile but one question that came up and recurred in other interviews during the day was whether we had taken enough time to do a proper job. My reply was that the University had asked us to report as soon as possible and that with everyone working hard and our remit limited to the honesty of the research, we did have enough time for a very experienced group to be quite clear and unanimous about the outcome.

I did a number of other interviews during the day and I have not looked at today's press coverage but my guess is that with other competing claims a good news story - which ours essentially is - will not retain press interest for long. My early impression is that our report contained just enough comfort to the more reasonable sceptics for them to accept that we had made a fair and critical evaluation of the Unit's work. I have already had one piece of US sceptic feedback to that effect - 'judicious and balanced'. But it is early days. During the day I did three TV interviews and around seven radio pieces.

The University had prepared a response to our report that was published along with it and the last third of the conference was used by UEA to present their response and answer questions. I think that that went pretty well too.

There are three enclosures with this message. The first is the final report which except for minor editing is the version we agreed before we left Norwich. The second is the University response. The third, for general interest, is the outcome of a university inquiry into the work of Professor Mann.

I know that the University is grateful to you all and will be writing to you personally to thank you for your work but may I offer my personal thanks for agreeing to participate so readily, rearranging your diaries to accommodate the tight timetable and then for working hard in such a collegial and collaborative way to arrive at a clear result.

Thanks and kind regards,
 Ron

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27/05/2010

Hand, David J

From: [REDACTED]
Sent: 15 April 2010 12:35
To: Hand, David J
Subject: FW: Please Forward to Professor David Hand

Dear David,

I'm forwarding an email which came through our GENERAL ENQUIRIES inbox addressed to you.

Many thanks
[REDACTED]

From: [REDACTED]
Sent: 15 April 2010 09:59
To: [REDACTED]
Subject: FW: Please Forward to Professor David Hand

From: [REDACTED]
Posted At: 15 April 2010 04:15
Posted To: General Enquiries
Conversation: Please Forward to Professor David Hand
Subject: Please Forward to Professor David Hand

<http://www.ft.com/cms/s/0/162b0c58-47f5-11df-b998-00144feab49a.html>

Professor Hand (<http://www.rss.org.uk/main.asp?page=2779>) :

I have no interest in "isolated incidents." To the contrary, I am interested in your answers to three very narrow and specific questions:

Question 1:

Did the Medieval Warm Period exist in history? (I am referring to that portion of the original MBH98/99 graph which allegedly depicts that period of history, apparently for the entire globe, but shows a virtually flat hockey-stick-handle-like near-horizontal trend line.) Again, did the Medieval Warm Period exist in history?

Question 2:

Does atmospheric carbon dioxide (from any source) above, say, 285 ppm drive global WARMING.


Question 3 (Relating somewhat to Question 2):

Although not portrayed as a direct quote, the FT link above presents you as the information source that claims that there is a "clear warming signal" in some unspecified "underlying

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data," which apparently was never made available to/for rigorous peer review prior to publication in the IPCC report. Regardless of the latter specification, did such "underlying data," clearly indicate that atmospheric carbon dioxide was the driver of that "signal," doing so to the extent that YOU, as a profesional statistician, could calculate a correlation value (i.e. R^2)? What is that R^2 value for the range of the "underlying data"?

Thank you so much for responding,



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For more information please visit <http://www.messagelabs.com/email>

Hand, David J

From: Hand, David J
Sent: 15 April 2010 13:38
To: Michael Mann
Subject: RE: talk

Dear Mike,

Sorry for being slow to get back to you. I will try to ring you this evening, my time (I guess 5 hours difference).

Incidentally, I occasionally come out to visit the Wharton School, where I am a Fellow of their Financial Institutions Center, so perhaps we can meet up some time.

Best regards

David

David J. Hand
Professor of Statistics, Imperial College, London
President, Royal Statistical Society

27/05/2010

Hand, David J

From: Michael Mann [REDACTED]
Sent: 15 April 2010 14:57
To: Hand, David J
Subject: Re: talk

David,

It turns out we have our endowed lecturer speaking today until about 2:45 PM or so.

Could we make it 3PM EDT (8PM your time?). I'll be reachable at either cell phone [REDACTED] or office phone [REDACTED]. Sorry about the change.

Meanwhile, I've attached some materials that are relevant to the matter I'd like to discuss (note that the [REDACTED] the head of the NCAR statistical climatology project, was a consultant on the Wahl et al paper I've attached).

I've also pasted below some comments from the press conference following the release of the 2006 *National Academy of Sciences* report on "Paleoclimate Reconstructions of the Past 2000 Years". Please note that one of the panel members was statistician [REDACTED] whom I believe you may know.

I hope you find these informative. I look forward to talking with you later.

thanks,

mike

COMMENTS FROM 2006 NAS PRESS CONFERENCE

Panel chair [REDACTED] of Texas A&M university stated:

“We roughly agree with the substance of their findings”.

Regarding the claim that we had in any way overstated our results, North agreed that any overstatement of the results was not our fault: “

The community probably took the results to be more definitive than Mann and colleagues intended”.

Panel member [REDACTED] characterized our work in this way: “

it was really the first analysis of its type...so its not surprising that they could have probably done some detailed aspects of it better, but it was a really remarkable contribution, and basically gave birth to a debate that's ongoing that's really teaching us a lot about how climate has changed.”.

Panel member [REDACTED] of North Carolina State University, a fellow of the Royal Statistical Society, added that our work was:

“a first of its kind study” noting that we *“had to make choices at various stages in how the data were processed, and the initial preparation, the inversion of the calibration equations, the selection of variables that were to be used in those equations”.*

[REDACTED] furthermore stated that:

our *“methods were all quite reasonable choices”* and that any choices we had made *“didn't have a material effect on the final conclusion”*. He also volunteered that he *“would not have been embarrassed by that work”* if he'd been an author of the paper himself.

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█████ stated that “
there might have been things that maybe they could have done differently, better, but it was after all the first paper on the subject.”

With regard to accusations that there was anything inappropriate about the way we had conducted our work, █████ the New York Times summarized the findings of the panel:
several members of the panel reviewing the study said they saw no sign that its authors had intentionally chosen data sets or methods to get a desired result”.

█████ had stated: “*I can tell you that is my own opinion and I think its probably true across the board here, I certainly did not see anything inappropriate*”, while statistician █████ said that he “*saw nothing that spoke to me of any manipulation*”

█████ added that he found our study to have been “*an honest attempt to construct a data analysis procedure.*”

Hand, David J

From: Hand, David J
Sent: 15 April 2010 13:48
To: Michael Mann
Subject: RE: talk

Yes, I think that timing will be about right.

Best wishes

David

David J. Hand
Professor of Statistics, Imperial College, London
President, Royal Statistical Society

27/05/2010

Hand, David J

From: Hand, David J
Sent: 15 April 2010 13:41
To: [REDACTED]
Subject: RE: Mike Mann

[REDACTED]

Will do.

It was likewise a pleasure to meet you. Please get in touch if you do manage to get to London.

Regards

David

David J. Hand
Professor of Statistics, Imperial College, London
Chief Scientific Advisor, Winton Capital Management
President, Royal Statistical Society
[REDACTED]

27/05/2010

Hand, David J

From: Peter Bloomfield [REDACTED]
Sent: 15 April 2010 15:50
To: Hand, David J
Subject: Mike Mann

Attachments: ATT00010.dat



ATT00010.dat

Dear David:

I was sent a link to a piece in the Telegraph
<URL:<http://www.telegraph.co.uk/earth/environment/climatechange/7589897/Hockey-stick-graph-was-exaggerated.html>>
that quotes you on the hockey stick, and in which Mike Mann asserts that I
reached some conclusion opposite to yours.

I'm sure you're familiar with the report of the NRC committee. Mike's
exclusion of [REDACTED] contribution and his reference to my membership
of the RSS are of course gratuitous--I'm undercutting my President?. A
quick rereading of the report didn't reveal any place where I, [REDACTED] or
any other member of the committee reached any conclusion with which you
would differ. If you're aware of any, I'd be glad of a reminder!

Best regards,

[REDACTED]

[REDACTED]
5210 SAS Hall
NCSU Dept of Statistics
[REDACTED]

Hand, David J

From: Michael Mann [REDACTED]
Sent: 15 April 2010 18:00
To: Hand, David J
Subject: Re: talk

David,

I also wanted to provide you an example of the sorts of news items that have appeared following yesterday's press conference:

<http://www.foxnews.com/scitech/2010/04/15/michael-mann-climategate-global-warming/>

I look forward to talking with you sometime after 3pm eastern time (8 pm your time) today,

Mike

On Apr 15, 2010, at 8:56 AM, Michael Mann wrote:

great--by the way, I'll be reachable at the cell phone # i provided [REDACTED] as well as my home phone: [REDACTED] in case you have trouble reaching me at the cell phone.

thanks again,

mike

On Apr 15, 2010, at 8:48 AM, Hand, David J wrote:

Yes, I think that timing will be about right.

Best wishes

David

David J. Hand
Professor of Statistics, Imperial College, London
President, Royal Statistical Society

From: Michael Mann [REDACTED]
Sent: 15 April 2010 13:45
To: Hand, David J
Subject: Re: talk

Hi David,

Thanks, yes we and UK are 5 hours apart right now. I look forward to your call, which I guess I should expect sometime after 2pm (?) my time then?

Mike

27/05/2010

Hand, David J

From: Michael Mann [REDACTED]
Sent: 15 April 2010 21:00
To: Hand, David J
Subject: Followup to our phone conversation
Attachments: pastedGraphic.pdf; ATT00002..htm

HI David,

It was good talking w/ you on the phone. I wanted to take this opportunity to both thank you for talking w/ me, and to summarize what I saw as the main points of our discussion.

Key points that I discussed with you were:

1. that the PCA centering issue that was raised by McIntyre has been shown repeatedly to be a non-issue in practice (see below).
2. That claims to the contrary of McIntyre which were largely parroted by [REDACTED] have been refuted in the IPCC report and in other peer-reviewed articles (several of which I've already sent you)
3. That the [REDACTED] study was not considered a legitimate peer-reviewed assessment. [REDACTED] was appointed by [REDACTED] challenge the conclusions of the National Academy of Science's own, actual peer-reviewed review. Serious issues have now been raised with the independence of the [REDACTED] panel and report.

Please see e.g.

<http://www.desmogblog.com/plagiarism-conspiracies-felonies-breaking-out-wegman-file>

<http://www.desmogblog.com/wegmans-report-highly-politicized-and-fatally-flawed>

<http://deepclimate.org/2010/02/08/steve-mcintyre-and-ross-mckitrick-part-2-barton-wegman/>

4. That the "blade" of the hockey stick is determined entirely by the CRU instrumental temperature record and in no way could possibly be influenced by technical issues involving conventions used in PCA to summarize proxy records. Yet most of the news reports make the claim that your comments indicated that our study exaggerated the *blade* of the hockey stick, i.e. the 20th century instrumental record. A very serious charge if it were true. But it simply is not.

I was reassured to learn that you are disconcerted by the way that your comments from the press conference have been misrepresented/misinterpreted in numerous news articles, as mentioned above.

Given all of this, as I stated in our phone conversation, I believe the only way to prevent the specious and false allegations about us and our work from spinning out of control in the media is for their to be a clarification issued on your part in the fairly near term, which others could then be able to repost and quote. Otherwise, the mischaracterizations that I know concern both of us, will continue to be propagated and promoted by those seeking to further enflame the discourse on this topic.

As you can see from the email I've forwarded below, my own university's newspapers now wants to do an article about this, which puts me in a very awkward position. I don't expect this sort of thing to stop without some action on your part, as mentioned above.

Now, with regard to some of the specifics discussed below, I already sent you [REDACTED] [REDACTED]. And I sent you the summary statements of the panel members of the 2006 National Academy Report who reviewed our work, which included Royal Statistical Society fellow [REDACTED] who was both very familiar with both the statistics involved and the topic of climate science.

I have attached as well the key plot from [REDACTED] that shows the actual difference that the PCA centering issue makes to our reconstruction. The effect is represented by the very small

27/05/2010

differences between the blue and red curves. As you can see it is negligible. This is something that Wegman in all of the discussion of his report somehow failed to take note of.

Here is what the IPCC 4th Assessment report had to say about the matter:

available online here: http://www.ipcc.ch/publications_and_data/ar4/wg1/en/ch6s6-6.html#6-6-1

McIntyre and McKittrick (2003) reported that they were unable to replicate the results of Mann et al. (1998). Wahl and Ammann (2007) showed that this was a consequence of differences in the way McIntyre and McKittrick (2003) had implemented the method of Mann et al. (1998) and that the original reconstruction could be closely duplicated using the original proxy data. McIntyre and McKittrick (2005a,b) raised further concerns about the details of the Mann et al. (1998) method, principally relating to the independent verification of the reconstruction against 19th-century instrumental temperature data and to the extraction of the dominant modes of variability present in a network of western North American tree ring chronologies, using Principal Components Analysis. The latter may have some theoretical foundation, but Wahl and Amman (2006) also show that the impact on the amplitude of the final reconstruction is very small ($\sim 0.05^{\circ}\text{C}$; for further discussion of these issues see also Huybers, 2005; McIntyre and McKittrick, 2005c,d; von Storch and Zorita, 2005).

Finally, at the risk of repeating myself, there is no conceivable way that any of the issues at matter could have exaggerated the *blade* of the Hockey Stick, which is what essentially all news accounts are quoting you as saying, since this is determined entirely by the instrumental record itself.

I am anxious to learn what measures you might be willing to take in the near term to correct the record, given the unusual amount of misinformation that this affair has now engendered.

Thanks in advance for your help,

Mike

Hand, David J

From: Hand, David J
Sent: 15 April 2010 22:34
To: 'Michael Mann'
Subject: RE: Followup to our phone conversation

Hi Michael,

Just so I am certain. A question I am sure has come up before:

In the von Storch and Zorita paper, Fig 1 legend says the 1900-1980 centering is given in red, but the label at the top of the figure indicates that the 1000-1980 is in red. Do we know for sure that the red one really is 1000-1980?

Thanks

David

David J. Hand
Professor of Statistics, Imperial College, London
Chief Scientific Advisor, Winton Capital Management
President, Royal Statistical Society

27/05/2010

Hand, David J

From: Michael Mann [REDACTED]
Sent: 15 April 2010 23:14
To: Hand, David J
Subject: Re: Followup to our phone conversation

Hi David,

thanks for bringing this to my attention. I had not noticed this before, and honestly I don't actually know which is which---would need to contact von Storch.

I had mostly just focused on the fact that the basic result was insensitive to the convention, even in this relatively extreme synthetic example (the Von Storch et al model simulation has unusually large temperature changes compared with all other simulations of the past millennium).

In my view, the more relevant study to the matter at hand *is* that of Wahl and Ammann, since it tests the sensitivity to convention for the *actual* data we used, rather than a surrogate as in the case of Von Storch. However, I do think the Von Storch and Zorita paper is useful in demonstrating this for a more general (synthetic case). And indeed, the testing of methods using model-derived surrogate data is something my group and I have devoted quite a bit of effort to over the past decade, precisely so we can understand the limitations and potential biases of the various methods. If you have a chance to look at the Mann et al '07 JGR article I sent, it will give you a flavor of our work in this area.

please don't hesitate to let me know if there are any other questions I can try to answer.

thanks,

Mike

27/05/2010

Hand, David J

From: [REDACTED]
Sent: 15 April 2010 23:32
To: Hand, David J
Subject: Significance - east Anglia report

Dear David,

Significance for June is at proof stage - and the inquiry into the climate change research at East Anglia comes out, and I hear that you are on the investigating panel and have pithy things to say about the lack of statisticians in the research. Significance should cover this!

Would you care either: a) to pen a shortish (600 words? 1000 if you like) piece, for the June News page, on it (or we might manage to give it a section of its own, which I would like); but we'd need it by the middle of next week; or b) a longer piece - 1500 - 2500 words - for the September issue (which is the first RSS/ASAS joint one) - which gives you more time to write it, but of course makes it much less topical when it comes out.

Congratulations on your re-appointment, by the way - though I appreciate you might have been looking forward to laying down the burden. You were after all the longest-serving President even before your second term.

Very best,

[REDACTED]

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Hand, David J

From: Sheila Bird [REDACTED]
Sent: 16 April 2010 09:40
To: Hand, David J
Subject: Re: [Fwd: Google Alert - Royal Statistical Society]

Dear David

It sounds as though some flak is flying but, for statistical science, your leadership here is just great: a key, but understandable issue (J shape) where methodology & inference are mutually-matter; put over gently in terms of 'criticism' of work by non-statisticians but FIRMLY & POLITELY; and - as president - you've taken up the challenge that Chief Scientist gave out at RSS175. This is just a fantastic & rapid return for statistics which does immense good for our subject & for RSS visibility. S/he who does little does little wrong . . . All the best, as ever; Sheila

Professor Sheila M. Bird
MRC Biostatistics Unit
Robinson Way
CAMBRIDGE CB2 0SR

Phone: [REDACTED]

Fax: [REDACTED]

email: [REDACTED]

Hand, David J wrote:

> Hi Sheila,
>
> Thank you very much for your supportive message.
>
> And this is not a standard 'thank you' note. I really mean it, as I am getting some of the sorts of emails that were to be expected from one side or other, whatever conclusion the panel reached. So it's nice to know that someone understands.
>
> David
>
> _____
> David J. Hand
> Professor of Statistics, Imperial College, London
> Chief Scientific Advisor, Winton Capital Management
> President, Royal Statistical Society
> [REDACTED]
>
> _____
> From: Sheila Bird [REDACTED]
> Sent: 15 April 2010 07:58
> To: [REDACTED], Hand, David J
> Subject: [Fwd: Google Alert - Royal Statistical Society]
>
> good coverage, well done, David!
>
> ----- Original Message -----
> Subject: Google Alert - Royal Statistical Society
> Date: Wed, 14 Apr 2010 21:11:37 +0000
> From: Google Alerts <googlealerts-noreply@google.com>
> To: [REDACTED]
>
>
>
> Google News Alert for: *Royal Statistical Society*
>
> <<http://www.google.com/url?sa=X&q=http://news.bbc.co.uk/2/hi/science/nature/8618441.stm&ct=ga&cad=7:2:0&cd=vozYasGWPbE&usg=AFQjCNFp-JiY1kL91qXk6YSOGc9B5rn2pg>>
>

Hand, David J

From: [REDACTED]
Sent: 16 April 2010 10:47
To: Hand, David J
Subject: Statistics in climate science

Dear Professor Hand

As a member of RSS who has been trying to promote better statistical practice in climate science since around 1995, I was very pleased to see the BBC News publish your comments about statistics at CRU.

One of the issues is that climate scientists (as is true of many physical scientists) don't get properly exposed to modern statistics during their university education.

Another issue is that research councils such as NERC don't actively promote the involvement of statisticians in research projects. Perhaps your comments on this case might help change that.

All the best

[REDACTED]

=====

[REDACTED]

University of Exeter,
College of Engineering, Mathematics and Physical Sciences,
Harrison Building, North Park Road, Exeter EX4 4QF, UK

[REDACTED]

=====

Hand, David J

From: Hand, David J
Sent: 16 April 2010 11:50
To: [REDACTED]
Subject: RE: Please Forward to Professor David Hand

Hi,

Yes, I'll respond (or sometimes perhaps not) directly. In fact I have received this one before, and am hesitant about whether to respond. The questions are all substantive ones about climate change, and not about the statistical tools, so outside my domain of expertise.

In any case, they may have to wait, as thanks to the investigation I am now way behind on other things (like preparing for next week's Council).

Thanks

David

David J. Hand
Professor of Statistics, Imperial College, London
Chief Scientific Advisor, Winton Capital Management
President, Royal Statistical Society

[REDACTED]

From: [REDACTED]
Sent: 16 April 2010 11:47
To: Hand, David J
Subject: FW: Please Forward to Professor David Hand

Hi David

I'm forwarding this as requested by the sender.

I will be sending through a couple of others. Are you happy to respond to people directly?

All the best,

[REDACTED]

[REDACTED]

[REDACTED]

From: [REDACTED]
Sent: 15 April 2010 04:15

27/05/2010

To: [REDACTED]

Cc: [REDACTED]

Subject: Please Forward to Professor David Hand

<http://www.ft.com/cms/s/0/162b0c58-47f5-11df-b998-00144feab49a.html>

Professor Hand (<http://www.rss.org.uk/main.asp?page=2779>) :

I have no interest in "isolated incidents." To the contrary, I am interested in your answers to three very narrow and specific questions:

Question 1:

Did the Medieval Warm Period exist in history? (I am referring to that portion of the original MBH98/99 graph which allegedly depicts that period of history, apparently for the entire globe, but shows a virtually flat hockey-stick-handle-like near-horizontal trend line.) Again, did the Medieval Warm Period exist in history?

Question 2:

Does atmospheric carbon dioxide (from any source) above, say, 285 ppm drive global WARMING.

Question 3 (Relating somewhat to Question 2):

Although not portrayed as a direct quote, the FT link above presents you as the information source that claims that there is a "clear warming signal" in some unspecified "underlying data," which apparently was never made available to/for rigorous peer review prior to publication in the IPCC report. Regardless of the latter specification, did such "underlying data," clearly indicate that atmospheric carbon dioxide was the driver of that "signal," doing so to the extent that YOU, as a professional statistician, could calculate a correlation value (i.e. R^2)? What is that R^2 value for the range of the "underlying data"?

Thank you so much for responding,

[REDACTED]

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27/05/2010

Hand, David J

From: [REDACTED] on behalf of Oliver Morton [REDACTED]

Sent: 16 April 2010 13:50

To: Lord OXBURGH; Hand, David J

Subject: How did you select the 11 CRU papers?

I realised a few hours later that it was stupid not to have asked about this at the time, but now I see it has become an issue on the blogs

The Oxburgh Report states that the eleven articles were “selected on the advice of the Royal Society”. However, they did not provide any information on how the Royal Society determined that these eleven publications were “representative”. Nor did they mention who at the Royal Society actually made the selection. The report says that UEA agreed that the Royal Society selection was a “fair sample”. I wonder who at UEA actually agreed that the selection was a “fair sample” and what their criteria were.

One of the recommendations of every inquiry so far is that methodologies be properly disclosed. Oxburgh didn't disclose how they selected their supposedly “representative” and “fair sample”. “Fair sample” and “representative” are statistical terms – terms were used in a report coauthored by a very senior professional statistician in a context where statistics are very much at issue. So I presume that the Royal Society took some care to ensure that the eleven publications actually were “representative” and a “fair sample” – and not ones that were pre-selected by UEA, rather than the Royal Society.

I wonder if one of you could address the selection question -- possibly in the context of the importance of selection effects, as emphasised at the briefing.

With best wishes

Oliver

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Oliver Morton
Energy and Environment Editor
The Economist

O=C=O O=C=O O=C=O O=C=O O=C=O

27/05/2010

Hand, David J

From: [REDACTED]
Sent: 16 April 2010 14:42
To: Hand, David J
Subject: UEA article for RSSeNews

Hi David,

Would the following be okay for RSSeNews, focussing on the comments about statistics, as a short piece on the Science Assessment Panel report? I would put in appropriate hyperlinks. Is there anything else that you would wish to highlight?

[REDACTED]

>>>>>

It is surprising that research into climate change has not been carried out in close collaboration with professional statisticians, according to the independent Science Assessment Panel appointed to assess the integrity of the research published by the Climatic Research Unit (CRU) at the University of East Anglia (UEA).

The panel had been established by UEA with members appointed on an independent basis on the advice of the Royal Society and included RSS president, Professor David Hand.

In its report, the panel noted that "CRU scientists were able to give convincing answers to our detailed questions about data choice, data handling and statistical methodology". They also reported that "in the CRU papers that we examined we did not come across any inappropriate usage [of statistical tools] although the methods they used may not have been the best for the purpose".

In its conclusions the panel said that:

1. We saw no evidence of any deliberate scientific malpractice in any of the work of the Climatic Research Unit and had it been there we believe that it is likely that we would have detected it. Rather we found a small group of dedicated if slightly disorganised researchers who were ill-prepared for being the focus of public attention. As with many small research groups their internal procedures were rather informal.
2. We cannot help remarking that it is very surprising that research in an area that depends so heavily on statistical methods has not been carried out in close collaboration with professional statisticians. Indeed there would be mutual benefit if there were closer collaboration and interaction between CRU and a much wider scientific group outside the relatively small international circle of temperature specialists.
3. It was not the immediate concern of the Panel, but we observed that there were important and unresolved questions that related to the availability of environmental data sets. It was pointed out that since UK government adopted a policy that resulted in charging for access to data sets collected by government agencies, other countries have followed suit impeding the flow of processed and raw data to and between researchers. This is unfortunate and seems inconsistent with policies of open access to data promoted elsewhere in government.
4. A host of important unresolved questions also arises from the application of Freedom of Information legislation in an academic context. We agree with the CRU view that the authority for releasing unpublished raw data to third parties should stay with those who collected it.

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27/05/2010

Hand, David J

From: OXBURGH, Lord [REDACTED]
Sent: 16 April 2010 14:50
To: OliverMorton [REDACTED]
Cc: Hand, David J
Subject: RE: How did you select the 11 CRU papers?

Thanks for your message - the answer is that I don't know! What I received was a list from the University which I understand was chosen by the Royal Society. The contact with the RS was I believe through [REDACTED] but I don't know who he consulted. [REDACTED] when I asked him, agreed that the original sample was fair.

None of us had had any previous close connection with this kind of climate science and the papers certainly gave us a good introduction to what CRU did and how their ideas and methods had evolved. We also individually read more widely both into their other papers and papers by other authors in the field.

Perhaps the main point, however, is that which we make in the third and fourth paragraphs of the report namely that the publications were effectively the starting off point for what turned out to be very long discussions with the CRU people that ranged far beyond the contents of the eleven papers but covered every aspect of the CRU work that we could think of. It was as much on the evidence of our prolonged questioning as of the study of the papers that we came to our conclusion.

I think that the critics of our use of the words 'fair' and 'representative' are being just a tad pedantic.

Regards,
 Ron Oxburgh

From: [REDACTED] **On Behalf Of** Oliver Morton
Sent: 16 April 2010 13:50
To: OXBURGH, Lord; David Hand
Subject: How did you select the 11 CRU papers?

I realised a few hours later that it was stupid not to have asked about this at the time, but now I see it has become an issue on the blogs

The Oxburgh Report states that the eleven articles were "selected on the advice of the Royal Society". However, they did not provide any information on how the Royal Society determined that these eleven publications were "representative". Nor did they mention who at the Royal Society actually made the selection. The report says that UEA agreed that the Royal Society selection was a "fair sample". I wonder who at UEA actually agreed that the selection was a "fair sample" and what their criteria were.

One of the recommendations of every inquiry so far is that methodologies be properly disclosed. Oxburgh didn't disclose how they selected their supposedly "representative" and "fair sample". "Fair sample" and "representative" are statistical terms – terms were used in a report coauthored by a very senior professional statistician in a context where statistics are very much at issue. So I presume that the Royal Society took some care to ensure that the eleven publications actually were "representative" and a "fair sample" – and not ones that were pre-selected by UEA, rather than the Royal Society.

I wonder if one of you could address the selection question -- possibly in the context of the importance of selection effects, as emphasised at the briefing.

27/05/2010

With best wishes

Oliver

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Oliver Morton
Energy and Environment Editor
The Economist

O=C=O O=C=O O=C=O O=C=O O=C=O

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27/05/2010

Hand, David J

From: Hand, David J
Sent: 16 April 2010 14:53
To: 'OliverMorton [REDACTED]', Lord OXBURGH
Subject: RE: How did you select the 11 CRU papers?

Dear Oliver,

Lord Oxburgh may be able to give you more details on how the 11 core publications were selected by the Royal Society and the UEA, but my understanding was that they were thought to be the central ones in the accusations.

However, I would like to make a crucial additional point, since I have seen misinformation being circulated in the blogs. The 11 publications were not the only things that were read, but were a small part of it. The report explicitly states: "The Panel was also free to ask for any other material that it wished and did so. Individuals on the panel asked for and reviewed other CRU research materials."

I certainly asked for other papers from UEA, and received them, as well as downloading many other papers myself. These included other papers by CRU, by their critics, and by other research groups around the world. I also bought and read several books on the subject, including books by critics.

There seems to be some notion going around that the panel was restricted to the 11 papers. This is very far from the truth, and the report says so. So your comment about selection effects, which would be spot on were the 11 papers the only things that were read, is not pertinent.

Hope this clarifies things.

Best wishes

David

David J. Hand
Professor of Statistics, Imperial College, London

27/05/2010

Hand, David J

From: Hand, David J
Sent: 16 April 2010 15:15
To: [REDACTED]
Cc: [REDACTED]
Subject: RE: Statistics in climate science

Dear [REDACTED]

Thanks very much for your email. The general area of how well (or ill) informed scientists are about statistics is also something which periodically crops up in other areas. I may well call on you to see if you are able to help in our initiatives to improve things.

Many thanks

David Hand

David J. Hand
President, Royal Statistical Society

-----Original Message-----

From: [REDACTED]
Sent: 16 April 2010 10:47
To: Hand, David J
Subject: Statistics in climate science

Dear Professor Hand

As a member of RSS who has been trying to promote better statistical practice in climate science since around 1995, I was very pleased to see the BBC News publish your comments about statistics at CRU.

One of the issues is that climate scientists (as is true of many physical scientists) don't get properly exposed to modern statistics during their university education.

Another issue is that research councils such as NERC don't actively promote the involvement of statisticians in research projects. Perhaps your comments on this case might help change that.

All the best

[REDACTED]

[REDACTED]
University of Exeter,
College of Engineering, Mathematics and Physical Sciences,
Harrison Building, North Park Road, Exeter EX4 4QF, UK

[REDACTED]

Hand, David J

From: Hand, David J
Sent: 16 April 2010 15:47
To: [REDACTED]
Subject: RE: THE article. CRU follow-up. comment sought
Attachments: R142 Modern statistics - the myth and the magic.pdf

[REDACTED]

Thanks for your email. I'd very definitely like to explore this. However, would it be possible to wait for a week or two? This week I seem to be spending replying to emails about the statistics of climate change (surprise surprise) and next week I am at a conference (at least, if I manage to write the keynote speech in the next day).

Meanwhile, you might be interested in the attached article, which was my RSS presidential address, given in December 2008.

Incidentally, I also have a couple of 'popular' books on statistics, which you might find interesting:

Hand D.J. (2008) *Statistics: a very short introduction*. Oxford University Press

Hand D.J. (2007) *Information Generation: How data rule our world*. OneWorld Publications

Best wishes

David

David J. Hand
 Professor of Statistics, Imperial College, London
 President, Royal Statistical Society

Phone: +44-20-8576-5811

From: [REDACTED]
Sent: 15 April 2010 16:14
To: Hand, David J
Subject: THE article. CRU follow-up. comment sought

Hi David,

We have done a web report on the CRU science report: <http://www.timeshighereducation.co.uk/story.asp?sectioncode=26&storycode=411254&c=1>

But I was interested in doing a follow-up for print, though taking a different angle.

One thing that strikes me is that if the climate researchers could have done better on their use of stats – there are probably research groups all over the country in all sorts of areas who could be doing better.

I thought it might be nice to explore this.

Is the problem wider than CRU?

Are there any disciplines where their statistical methods are particularly poor?

See the abstract of this paper (1997), which says there are problems in psychology:

<http://direct.bl.uk/bld/PlaceOrder.do?UIN=030053096&ETOC=RN&from=searchengine>

Would you have time for a quick chat?

27/05/2010

Just let me know when a good time to call is.

thanks and regards, [REDACTED]

[REDACTED]
Times Higher Education

[REDACTED]
THE

TSL Education Limited
26 Red Lion Square
London WC1R 4HQ

[REDACTED]
www.timeshighereducation.co.uk

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27/05/2010

Hand, David J

From: Hand, David J
Sent: 16 April 2010 16:18
To: [REDACTED]
Subject: RE: THE article. CRU follow-up. comment sought

Hi,

OK. Most convenient if I could ring you on Monday. What time would be convenient?

Thanks

David

David J. Hand
Professor of Statistics, Imperial College, London
Chief Scientific Advisor, Winton Capital Management
President, Royal Statistical Society

27/05/2010

Hand, David J

From: Hand, David J
Sent: 16 April 2010 16:26
To: 'Peter Bloomfield'
Subject: RE: Mike Mann

Dear Peter,

Thanks very much for your email. Extraordinary how the papers subtly distort things.

The thrust of the report and the press conference was whether the CRU group had been dishonest, but as you saw, the Telegraph heading focussed on the hockey stick.

Best wishes

David

David J. Hand
Professor of Statistics, Imperial College, London
Chief Scientific Advisor, Winton Capital Management
President, Royal Statistical Society

[REDACTED]

-----Original Message-----

From: Peter Bloomfield [REDACTED]
Sent: 15 April 2010 15:50
To: Hand, David J
Subject: Mike Mann

Dear David:

I was sent a link to a piece in the Telegraph
<[URL:http://www.telegraph.co.uk/earth/environment/climatechange/7589897/Hockey-stick-graph-was-exaggerated.html](http://www.telegraph.co.uk/earth/environment/climatechange/7589897/Hockey-stick-graph-was-exaggerated.html)>
that quotes you on the hockey stick, and in which Mike Mann asserts that I reached some conclusion opposite to yours.

I'm sure you're familiar with the report of the NRC committee. Mike's exclusion of [REDACTED] contribution and his reference to my membership of the RSS are of course gratuitous--I'm undercutting my President?. A quick rereading of the report didn't reveal any place where I, [REDACTED], or any other member of the committee reached any conclusion with which you would differ. If you're aware of any, I'd be glad of a reminder!

Best regards,

Peter

[REDACTED]
5210 SAS Hall
NCSU Dept of Statistics
<http://www.stat.ncsu.edu/people/bloomfield/>

Hand, David J

From: Hand, David J
Sent: 16 April 2010 16:53
To: [REDACTED]
Subject: RE: Significance - east Anglia report

Hi Julian,

I agree it would be time to do this. I'd certainly like to and will see if I will see if I can squeeze it in.

best wishes

David

David J. Hand
Professor of Statistics, Imperial College, London
Chief Scientific Advisor, Winton Capital Management
President, Royal Statistical Society

-----Original Message-----

From: [REDACTED]
Sent: 15 April 2010 23:32
To: Hand, David J
Subject: Significance - east Anglia report

Dear David,

Significance for June is at proof stage - and the inquiry into the climate change research at East Anglia comes out, and I hear that you are on the investigating panel and have pithy things to say about the lack of statisticians in the research. Significance should cover this!

Would you care either: a) to pen a shortish (600 words? 1000 if you like) piece, for the June News page, on it (or we might manage to give it a section of its own, which I would like); but we'd need it by the middle of next week; or b) a longer piece - 1500 - 2500 words - for the September issue (which is the first RSS/ASAS joint one) - which gives you more time to write it, but of course makes it much less topical when it comes out.

Congratulations on your re-appointment, by the way - though I appreciate you might have been looking forward to laying down the burden. You were after all the longest-serving President even before your second term.

Very best,

[REDACTED]

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Hand, David J

From: Hand, David J
Sent: 16 April 2010 19:53
To: 'OXBURGH, Lord'
Subject: Climate change


Dear Ron,

Could we have an urgent chat?

Many thanks

David

David J. Hand



27/05/2010

Hand, David J

From: Tom Heap [REDACTED]

Sent: 16 April 2010 14:04
To: Hand, David J
Subject: Hockey stick stats

David,
I'm working with [REDACTED] Panorama. We were at the press conference on Weds where you said Mann's 'inappropriate statistical technique' led to exaggeration. [REDACTED] asked you if you could give a figure or proportion to that. Can you?

Apologies if you've already mailed [REDACTED] he can't access his box.
Thanks,

[REDACTED]
Tom Heap

Hand, David J

From: Hand, David J

Sent: 17 April 2010 15:08

To: [REDACTED]

Subject: Query

Dear [REDACTED]

Thanks for your email. My apologies for being so slow to reply. As you might imagine, I have received a number of such queries.

I'm afraid the short answer to your questions is that I do not know. Your questions are all substantive ones about climate change, not ones about statistical methodology, which is my area of expertise. To obtain properly informed answers to your questions you will need to ask an expert in climatology.

Regards

David Hand

27/05/2010

Hand, David J

From: Hand, David J
Sent: 17 April 2010 15:12
To: [REDACTED]
Subject: RE: Hockey stick stats

Dear [REDACTED]

I'm afraid that the short answer is that the size of the effect will depend on the precise data series and modelling assumptions used.

Regards

David

Hand, David J

From: Michael Mann [REDACTED]
Sent: 17 April 2010 15:12
To: Hand, David J
Subject: Re: Followup to our phone conversation

Hi David,

Just wanted to followup on this. Please do let me know if you have any further questions I can address for you.

Some sort of statement early this week (i.e. monday) would be extremely helpful in preventing the spread of misinformation arising from the press conference, which unfortunately does continue in the U.S. media.

thanks in advance for any help you can provide.

best regards,

mike

On Apr 15, 2010, at 6:13 PM, Michael Mann wrote:

Hi David,

thanks for bringing this to my attention. I had not noticed this before, and honestly I don't actually know which is which---would need to contact [REDACTED]

I had mostly just focused on the fact that the basic result was insensitive to the convention, even in this relatively extreme synthetic example (the [REDACTED] model simulation has unusually large temperature changes compared with all other simulations of the past millennium).

In my view, the more relevant study to the matter at hand **is** that of [REDACTED], since it tests the sensitivity to convention for the **actual** data we used, rather than a surrogate as in the case of [REDACTED]. However, I do think the [REDACTED] paper is useful in demonstrating this for a more general (synthetic case). And indeed, the testing of methods using model-derived surrogate data is something my group and I have devoted quite a bit of effort to over the past decade, precisely so we can understand the limitations and potential biases of the various methods. If you have a chance to look at the Mann et al '07 JGR article I sent, it will give you a flavor of our work in this area.

please don't hesitate to let me know if there are any other questions I can try to answer.

thanks,

Mike

27/05/2010

Hand, David J

From: Hand, David J
Sent: 17 April 2010 15:15
To: [REDACTED]
Subject: Climate change

Hi [REDACTED]

Could you ask [REDACTED] to contact me as a matter of urgency. My mobile number is [REDACTED]

Thanks

David

David J. Hand
Professor of Statistics, Imperial College, London

[REDACTED]

Hand, David J

From: Hand, David J
Sent: 17 April 2010 20:36
To: 'OXBURGH, Lord'
Subject: Addendum to report
Attachments: Addendum to report.doc

As promised...

David

David J. Hand
Professor of Statistics, Imperial College, London
President, Royal Statistical Society

27/05/2010

Hand, David J

From: [REDACTED]
Sent: 17 April 2010 20:51
To: Hand, David J
Subject: Significance : a reader asks...

Hi, David,

I forward you this one, from a reader/contributor; it might help you in planning your piece...

Very best,

-----Original Message-----

From: [REDACTED]
Sent: Thu 4/15/2010 9:55 AM
To: [REDACTED]
Subject: FW: Climate Change: Where are the statisticians? An Answer at last?

Hi [REDACTED]

You've probably already thought to ask David Hand for a Significance article on this. Questions left still hanging, for me, from the press reports are:

- what was the "trick" referred to in presenting the data? I think they replaced the end of one time series with values from another. How did that affect the pattern?
- DH and his group are quoted as saying the science was done honestly but without using sophisticated statistical techniques - which however would not have changed the conclusions. What was used and what wasn't used?
- the climate change debate comes down to two questions: is the global climate changing and if so what is causing this? The first answer is clearly yes, but I'm confused on the evidence for the second. People variously seem to claim that the data shows "clearly" that the rate of change has increased (cf Duckworth editorial in News reporting change versus rates of change) or that the physics is unequivocal and the data just don't contradict the theory.

[REDACTED]'s message below suggests the further question of why they kept the data away from statisticians. What would their peers think if they decided not to involve qualified chemists, but just got some test tubes and a kit from Boots!

On a completely separate issue, British Birds has recently run papers on tracing the origins of vagrant birds through isotope analysis of feathers. For example, demonstrating a Baikal Teal collected in 1905 had almost certainly been hatched in Siberia and moulted some feathers in Europe before being shot. Might make an article of statistical interest.

Best wishes

-----Original Message-----

From: A UK-based worldwide e-mail broadcast system mailing list
Sent: 14 April 2010 22:35
To: [REDACTED]
Subject: Climate Change: where are the statisticians? An Answer at last?

Dear Allstatters,

Some of you may have seen this story on the BBC site which summarises the conclusions of a panel investigating the University of East Anglia Climate Research Unit. <http://news.bbc.co.uk/1/hi/sci/tech/8618024.stm>

The panel included Professor David Hand, President of the RSS and this passage in particular caught my eye.

"We cannot help remarking that it is very surprising that research in an area that depends so heavily on statistical methods has not been carried out in close collaboration with professional statisticians"

I look forward to reading the full report when it is published.

Regards

 Nigel Harriott















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Hand, David J

From: [REDACTED]
Sent: 17 April 2010 21:12
To: OXBURGH, Lord
Cc: Hand, David J; Liss Peter Prof
Subject: RE: Addendum to report

Ron, David, The text of the addendum doesn't appear to have been sent.
Please try again. Thanks, Peter

> Fine,
> Ron
>

>

> From: Hand, David J [REDACTED]
> Sent: 17 April 2010 20:36
> To: OXBURGH, Lord
> Subject: Addendum to report

> As promised...

> David
>
>

>

> David J. Hand
> Professor of Statistics, Imperial College, London
> President, Royal Statistical Society

>

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Prof. Peter S. Liss, CBE, FRS,
School of Environmental Sciences,
University of East Anglia,
Norwich, NR4 7TJ, United Kingdom

[REDACTED]

Hand, David J

From: Hand, David J
Sent: 18 April 2010 10:14
To: 'OXBURGH, Lord'
Subject: RE: Addendum to report

Thanks very much.

Can you forward it to Trevor Davies, with a brief explanatory note asking him to arrange for it to be put on the web (as a matter of urgency, I think, since Mann is continuing to pursue me and I'd like to have something to point him to), and copying it to Peter.

Peter said it was better if it came from you, as Chair.

Many thanks indeed

David

David J. Hand
Professor of Statistics, Imperial College, London
Chief Scientific Advisor, Winton Capital Management
President, Royal Statistical Society

[REDACTED]

From: OXBURGH, Lord [REDACTED]
Sent: 17 April 2010 20:55
To: Hand, David J
Cc: Liss Peter Prof (ENV)
Subject: RE: Addendum to report

Fine,
Ron

From: Hand, David J [REDACTED]
Sent: 17 April 2010 20:36
To: OXBURGH, Lord
Subject: Addendum to report

As promised...

David

David J. Hand
Professor of Statistics, Imperial College, London
President, Royal Statistical Society

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27/05/2010

Hand, David J

From: OXBURGH, Lord [REDACTED]
Sent: 18 April 2010 13:42
To: [REDACTED]
Cc: Davies Trevor Prof (ENV); Liss Peter Prof (ENV); Hand, David J
Subject: RE: report addendum
Attachments: Addendum to report.doc

Dear [REDACTED]

Thanks - there isn't much correspondence but apparently David H is being pursued largely because of inaccurate press reports of what he said at the press conference but also because of our remarks in the report. I think that both were pretty unambiguous but he has suggested that if there were a clarifying addendum to the report he would have something to which he could point to indicate that there was no suggestion of malpractice on the part of any party.

If there is no objection on the part of the university, I think that it would be good if it could go up as quickly as possible. I am attaching the proposed text with which both David and I would be content.

Best,

Ron

From: [REDACTED]
Sent: 18 April 2010 12:04
To: OXBURGH, Lord
Subject: report

Ron

I gather from Peter Liss that there is to be an addendum, which is to go up on the UEA website asap. I haven't seen any of the correspondence on this yet so just wanted to check this with you.

Is the idea that this new paragraph should just go up quietly and then you and David will refer to it as necessary?

(I could be wrong, but can't see it getting much interest without people being directed to it.)

Is Monday ok or would it be best to go up today?

Best,
 [REDACTED]

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27/05/2010

Hand, David J

From: Davies Trevor Prof (ENV); [REDACTED]
Sent: 18 April 2010 13:57
To: OXBURGH, Lord; [REDACTED]
Cc: Liss Peter Prof (ENV); Hand, David J
Subject: RE: report addendum

Dear Ron, I spoke to both Peter and David this morning. We are, of course, happy that the addendum goes up on our website.

Best

Trevor

27/05/2010

Hand, David J

From: OXBURGH, Lord [REDACTED]
Sent: 18 April 2010 13:58
To: Davies Trevor Prof (ENV); [REDACTED]
Cc: Liss Peter Prof (ENV); Hand, David J
Subject: RE: report addendum

Thanks,
 Ron

From: Davies Trevor Prof (ENV); [REDACTED]
Sent: 18 April 2010 13:57
To: OXBURGH, Lord; [REDACTED]
Cc: Liss Peter Prof (ENV); Hand, David J
Subject: RE: report addendum

Dear Ron, I spoke to both Peter and David this morning. We are, of course, happy that the addendum goes up on our website.

Best

Trevor

From: OXBURGH, Lord [REDACTED]
Sent: Sunday, April 18, 2010 1:42 PM
To: [REDACTED]
Cc: Davies Trevor Prof (ENV); Liss Peter Prof (ENV); Hand, David J
Subject: RE: report addendum

Dear [REDACTED]

Thanks - there isn't much correspondence but apparently David H is being pursued largely because of inaccurate press reports of what he said at the press conference but also because of our remarks in the report. I think that both were pretty unambiguous but he has suggested that if there were a clarifying addendum to the report he would have something to which he could point to indicate that there was no suggestion of malpractice on the part of any party.

If there is no objection on the part of the university, I think that it would be good if it could go up as quickly as possible. I am attaching the proposed text with which both David and I would be content.

Best,
 Ron

From: [REDACTED]
Sent: 18 April 2010 12:04
To: OXBURGH, Lord
Subject: report

Ron

I gather from Peter Liss that there is to be an addendum, which is to go up on the UEA website asap. I haven't seen any of the correspondence on this yet so just wanted to check this with you.

Is the idea that this new paragraph should just go up quietly and then you and David will refer to it as necessary?

(I could be wrong, but can't see it getting much interest without people being directed to it.)

Is Monday ok or would it be best to go up today?

Best,



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Hand, David J

From: Hand, David J
Sent: 18 April 2010 18:55
To: 'Michael Mann'
Subject: RE: Followup to our phone conversation

Dear Michael,

A brief addendum to the panel report will be added to the UEA website.

Regards

David

David J. Hand

Hand, David J

From: Michael Mann [REDACTED]
Sent: 18 April 2010 18:59
To: Hand, David J
Subject: Re: Followup to our phone conversation

Dear David,

Much appreciated. If you wouldn't mind providing a bit more information about the nature of the addendum, I'd be very much obliged.

Thanks again,

mike

On Apr 18, 2010, at 1:54 PM, Hand, David J wrote:

Dear Michael,

A brief addendum to the panel report will be added to the UEA website.

Regards

David

David J. Hand

—
Michael E. Mann
Professor
Director, Earth System Science Center (ESSC)

Department of Meteorology
503 Walker Building
The Pennsylvania State University
University Park, PA 16802-5013

website: <http://www.meteo.psu.edu/~mann/Mann/index.html>
"Dire Predictions" book site:
http://www.essc.psu.edu/essc_web/news/DirePredictions/index.html

27/05/2010

Hand, David J

From: [REDACTED] on behalf of Oliver Morton [REDACTED]

Sent: 19 April 2010 08:30

To: Hand, David J

Subject: Re: How did you select the 11 CRU papers?

Dear David

I take those points. But as you were saying at the briefing, being specific and transparent about the criteria by which data are chosen is important, no? If the doubts about CRU's work really do center on papers that were not among the 11, that surely raises questions about, at the very least, how the list of 11 was arrived at.

best

o

On Fri, Apr 16, 2010 at 2:53 PM, David J Hand <d.j.hand@imperial.ac.uk> wrote:

Dear Oliver,

Lord Oxburgh may be able to give you more details on how the 11 core publications were selected by the Royal Society and the UEA, but my understanding was that they were thought to be the central ones in the accusations.

However, I would like to make a crucial additional point, since I have seen misinformation being circulated in the blogs. The 11 publications were not the only things that were read, but were a small part of it. The report explicitly states: "The Panel was also free to ask for any other material that it wished and did so. Individuals on the panel asked for and reviewed other CRU research materials."

I certainly asked for other papers from UEA, and received them, as well as downloading many other papers myself. These included other papers by CRU, by their critics, and by other research groups around the world. I also bought and read several books on the subject, including books by critics.

There seems to be some notion going around that the panel was restricted to the 11 papers. This is very far from the truth, and the report says so. So your comment about selection effects, which would be spot on were the 11 papers the only things that were read, is not pertinent.

Hope this clarifies things.

Best wishes

David

David J. Hand
Professor of Statistics, Imperial College, London

27/05/2010

Hand, David J

From: [REDACTED]
Sent: 19 April 2010 11:08
To: Hand, David J
Subject: FW: Query

Dear David

It's not clear if this message – sent to our general inquiries box – has also been sent to you directly.

In case not then here it is.

Best wishes,
[REDACTED]

[REDACTED]
[REDACTED]

From: [REDACTED]
Sent: 19 April 2010 09:15
To: [REDACTED]
Cc: [REDACTED]
Subject: FW: Query

From: [REDACTED]
Posted At: 17 April 2010 18:02
Posted To: General Enquiries
Conversation: Query
Subject: Re: Query

David:

Thank you for responding; I intended/intend to follow-up with you next week by telephone. The email that you ostensibly have thanked me for, but did not forward with your response, is attached.

Referenced by link in my previous email (attached) is the Financial Times article entitled: Global warming graph attacked by study. (Please understand, I write for Gannett News Services state-side, and rarely do I get the title that I suggest!) In this article it states:

"Prof Hand said his criticisms should not be seen as invalidating climate science. He pointed out that although the hockey stick graph – which dates from a study led by US climate scientist Michael Mann in 1998 – exaggerates some effects, the underlying data show a clear warming signal."

The FT piece goes on to say:

"He accused sceptics of "identifying a few particular issues and blowing them up" to distort the true picture. The handful of errors found so far, including the exaggerated hockey stick graph and a

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mistaken claim by the Intergovernmental Panel on Climate Change that Himalayan glaciers would disappear by 2035, were "isolated incidents", he said. "If you look at any area of science, you would be able to find odd examples like this. It doesn't detract from the vast bulk of the conclusions," he said."

I will explore these article quotes with you next week.

Regarding your proposition that I "ask an expert in climatology," I offer these links to a 1April 2010 article I wrote which discusses that fact that I have/had already done such, (spanning approximately 30 years) and was treated to decades of, what I identify in the link below as, "ethical divergence." Indeed, one of the climatology individuals I attempted to interview was [REDACTED] of EAU, but he refused to answer any of my questions. Instead I spoke with a "close friend" to Jones that is currently a member of Rutgers University and a member of the AGU. I mention that discussion in these links:

<http://www.pressconnects.com/apps/pbcs.dll/article?AID=20104010322>

Alt:

<http://www.theithacajournal.com/apps/pbcs.dll/article?AID=20104010322>

Please note that, although you did not 'ReplyAll' in your response, I have again cc'd various experts in climatology. Finally, please note that I have an undergraduate degree in mathematics; and although not an expert, I am familiar with statistics.

[REDACTED]

Hand, David J

From: [REDACTED]
Sent: 19 April 2010 14:58
To: Hand, David J
Subject: FW: About Prof Hand's recent statements to the Press

Hi David

Another UEA email, I'm afraid...

Best wishes,
[REDACTED]

-----Original Message-----

From: [REDACTED]
Sent: 19 April 2010 14:53
To: [REDACTED]
Subject: About Prof Hand's recent statements to the Press

Dear [REDACTED]

As you may already know, there is considerable debate at the moment regarding the issue of global warming/climate change.

Recently, RSS President Prof David Hand has been reported (by the Financial Times, Daily Telegraph, New Scientist among others) as stating the following:

<http://www.telegraph.co.uk/earth/environment/climatechange/7589897/Hockey-stick-graph-was-exaggerated.html>

"Prof Hand singled out a 1998 paper by Prof Mann of Pennsylvania State University, a constant target for climate change sceptics, as an example of this. He said the graph, that showed global temperature records going back 1,000 years, was exaggerated - although any reproduction using improved techniques is likely to also show a sharp rise in global warming. He agreed the graph would be more like a field hockey stick than the ice hockey blade it was originally compared to."

Would you be so kind as to confirm if the above does illustrate Prof Hand's opinion in a fair manner?

many thanks in anticipation

[REDACTED]

saluti/regards
[REDACTED]

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Hand, David J

From: Hand, David J
Sent: 19 April 2010 18:58
To: [REDACTED]; OXBURGH, Lord
Cc: Liss Peter Prof (ENV); Davies Trevor Prof (ENV)
Subject: RE: report addendum

[REDACTED]

Many thanks

David

From: [REDACTED]
Sent: 19 April 2010 17:51
To: OXBURGH, Lord; Hand, David J
Cc: Liss Peter Prof (ENV); Davies Trevor Prof (ENV)
Subject: RE: report addendum

Ron and David

Just to confirm that the addendum to the report was published on the UEA webpage first thing this morning (at the end of the report, before the appendices). I trust this is all in order but do let me know if you have comments.

<http://www.uea.ac.uk/mac/comm/media/press/CRUstatements/SAP>

Best,

[REDACTED]

I

27/05/2010

Hand, David J

From: Hand, David J
Sent: 19 April 2010 19:17
To: [REDACTED]
Subject: RE: Query

[REDACTED]

Perhaps you could reply to these sorts of enquiries that you have forwarded them to me. Hopefully that will stop them bothering you if I do not reply.

Many thanks

David

Professor David J. Hand

From: [REDACTED]
Sent: 19 April 2010 11:08
To: Hand, David J
Subject: FW: Query

Dear David

It's not clear if this message – sent to our general inquiries box – has also been sent to you directly.

In case not then here it is.

Best wishes,

[REDACTED]

27/05/2010

Hand, David J

From: Hand, David J
Sent: 21 April 2010 20:55
To: [REDACTED]
Subject: RE: Query

OK, thanks. They may still not get replies from me!

Thanks

David

David J. Hand
Professor of Statistics, Imperial College, London
Chief Scientific Advisor, Winton Capital Management
President, Royal Statistical Society

From: [REDACTED]
Sent: 21 April 2010 17:16
To: Hand, David J
Subject: RE: Query

Hi David

That's basically what I've said. I think that some inquirers will tend to "latch on" and carry on emailing (that tended to be my experience in political life!).

All the best,

[REDACTED]

27/05/2010

Hand, David J

From: Hand, David J
Sent: 27 April 2010 20:35
To: 'OXBURGH, Lord'
Subject: RE: aghhhhhhhhhhhhhhhhhhh!

Ron,

Thanks very much indeed!

Best wishes

David

David J. Hand
Professor of Statistics, Imperial College, London

-----Original Message-----

From: OXBURGH, Lord [REDACTED]
Sent: 27 April 2010 19:41
To: Hand, David J
Subject: RE: aghhhhhhhhhhhhhhhhhhh!

David,

I am sorry that your participation in our UEA study seems to have involved you further than we might have anticipated! If I can be of any help even remotely, please let me know.

Best,

Ron

-----Original Message-----

From: Hand, David J [REDACTED]
Sent: 27 April 2010 09:19
To: 'Fiona Fox'
Cc: OXBURGH, Lord
Subject: RE: aghhhhhhhhhhhhhhhhhhh!

Dear Fiona,

There has been some misrepresentation of my views, which have not changed and which are the following. Mann et al (1998) used a non-standard statistical method, but the papers and reports I have examined which explore the impact of this suggest to me that it is unlikely that the qualitative conclusion will be affected by a more appropriate analysis, though clearly the precise impact depends on which series are included and any assumptions underlying the analysis.

Hope that clarifies things.

Thanks

David

-----Original Message-----

From: Fiona Fox [REDACTED]
Sent: 26 April 2010 11:12
To: Hand, David J [REDACTED]
Cc: [REDACTED]
Subject: aghhhhhhhhhhhhhhhhhhh!

Hi Folks - assuming (praying) this is not true? If it - or any version of it - is true - can we chat about it and how the SMC might help? If it's rubbish someone might want to suggest to Michael Mann that he decrease from suggesting it to BBC reporters.

TOM HEAP

By the way [REDACTED], who wrote this, is my good friend (long term BBC science reporter)- he's making a Panorama on Climate-Gate and is generally a very responsible reporter - so if you can give me a message to pass to him that would also be useful

Cheers guys
Fiona

Fiona Fox

Director
Science Media Centre
The Royal Institution, 21 Albemarle Street, London W1S 4BS

[REDACTED]
www.sciencemediacentre.org
Registered Charity No 227938

-----Original Message-----

From: [REDACTED]
Sent: 23 April 2010 18:31
To: Fiona Fox
Subject: Re: Newswatch on science in BBC news

Thanks for the tip. Got trapped in US by cloud so couldn't do lomborg and watson at RI this week. Hoping to reschedule.

By the way, Mann said Hand got his criticism of the stats all wrong and would be issuing a clarification/ apology. True?

[REDACTED] **TOM HEAP**

-----Original Message-----

From: Fiona Fox <Ffox@ri.ac.uk>
Date: Fri, 23 Apr 2010 17:48:05
To: [REDACTED]

Subject: Newswatch on science in BBC news

...for those of you who get up at stupid O'Clock on Saturday mornings (those with small kids perhaps or insomnia?) Newswatch this week is on science news at the Beeb. There is an angry guy attacking science at beeb, Pallab defending it and me in the middle (well that's if they use the nice things I said as well as the 'what could be better' ones - and if they don't I'll be lodging my own complaints!!)

Enjoy the sunny weekend
Fiona

Fiona Fox

Director
Science Media Centre
The Royal Institution, 21 Albemarle Street, London W1S 4BS

[REDACTED]
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Hand, David J

From: Hand, David J
Sent: 06 May 2010 20:00
To: 'Beddington MPST'
Subject: RE: Urgent - Freedom of Information request, information disclosure

Just to say I know of no issues or considerations which will affect this.

Regards

David Hand

David J. Hand
Professor of Statistics, Imperial College, London
President, Royal Statistical Society

From: Beddington MPST [REDACTED]
Sent: 05 May 2010 14:58
To: Beddington MPST
Cc: [REDACTED]
Subject: Urgent - Freedom of Information request, information disclosure
Importance: High

Dear all

I am writing to let you know that the Department for Business, Innovation and Skills in the UK has received a request for correspondence or documentation under the UK Freedom of Information Act 2000 regarding any involvement that the Government's Chief Scientific Adviser, Professor John Beddington, may have had in the appointment or deliberations of the Panel which Lord Oxburgh led to review key science publications from the University of East Anglia's Climate Research Unit.

The Department proposes to release relevant email correspondence relating to soundings that were taken by the senior UEA leadership of Professor Beddington's views, as a senior figure in the scientific community, on possible candidates who might contribute as part of the Panel to ensuring a robust and objective review, and on how such candidates might be encouraged to consider positively an approach by UEA.

Your own name is referred to in this correspondence as a possible candidate to be approached in relation to the review .

I would be grateful if you could let be know of any particular issues or considerations that you believe relevant to the question of disclosure of this correspondence. Could you let me have your comments (if any) by 10 May 2010, please?

If you object to disclosure it is important for you to let us know how you think it would be harmful. This is to enable the Department to consider all relevant factors in taking a decision on whether the Freedom of Information Act requires this information to be

27/05/2010

disclosed.

With thanks (and apologies for the short notice)

[REDACTED]

[REDACTED] **Private Secretary to Professor John Beddington CMG FRS**
Chief Scientific Adviser to HM Government
Government Office for Science
Bay 2127, 1 Victoria Street, London SW1H 0ET

email: [REDACTED]

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