

EPA-3129

Ben DeAngelo/DC/USEPA/US
12/06/2009 06:19 PM

To Carol Holmes, John Hannon, Dina Kruger, Rona Birnbaum
cc
bcc

Subject proposing to delete this comment from vol 10...

There were questions about getting more detail from this original comment and when I go to the original comment all of the cause/contribute issues are already captured by the Findings and other responses in this volume. (b)(5) Deliberative

Comment (10-19):

(b)(5) Deliberative

EPA-EF-005319

EPA-3130

**Rona
Birnbaum/DC/USEPA/US**
12/06/2009 06:21 PM

To William Perkins
cc
bcc
Subject couple comments

(b)(5) Deliberative

Vol8.1 R1 to Rona.doc

William Perkins Rona, This is the only comment (b)(5) Deliberative 12/06/2009 05:03:12 PM

From: William Perkins/DC/USEPA/US
To: Rona Birnbaum/DC/USEPA/US@EPA
Date: 12/06/2009 05:03 PM
Subject: Vol8 R1 for your quick review

Rona,

This is the only comment (b)(5) Deliberative

I think it is good to go. Thank you.

Cheers,

Bill

[attachment "Vol8.1 R1 to Rona.doc" deleted by Rona Birnbaum/DC/USEPA/US]

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EPA-EF-005320

EPA-3131

William
Perkins/DC/USEPA/US
12/06/2009 06:22 PM

To Mae Thomas, Matthew Mitchell, Sue Eisenfeld
cc Jason Samenow
bcc
Subject Fw: requests for ERG on vol 2

Matt, Sue, and Mae,

As I emailed about earlier, here is the additional work that we need completed on Volume 2 (enclosed).

Jason's big instructions are at the bottom, then follow-on instructions for creating appendices are above that.

Please note that [REDACTED] (b)(5) Deliberative [REDACTED]

Jason Samenow is the POC for this at 202.343.9327.

Finally, your team is doing a really great job on this and this will all be complete in the next few hours.

Thank you.

Cheers,

Bill

Also, Please indicate that these are cached versions of the webpages from the given dates. If they have any questions on how they should look then please call Jason.

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----- Forwarded by William Perkins/DC/USEPA/US on 12/06/2009 06:16 PM -----

From: Jason Samenow/DC/USEPA/US
To: William Perkins/DC/USEPA/US@EPA
Date: 12/06/2009 06:15 PM
Subject: Fw: requests for ERG on vol 2

for appendix a and b: we should add text indicating these are in fact cached versions of the web pages from dates given , and provide these links:

appendix a:

<http://74.125.93.132/search?q=cache:KOxdACr9VBMJ:www.cru.uea.ac.uk/cru/data/temperature/+cru+temperature+data&hl=en&gl=us&strip=1> (cached version from november 28, 2009)

appendix b:

<http://74.125.93.132/search?q=cache:mcd09WUmm08J:https://www.cru.uea.ac.uk/cru/data/availability/+http://www.cru.uea.ac.uk/cru/data/availability/&hl=en&gl=us&strip=1> (cached version from october 21, 2009)

EPA-EF-005321

appendix c contains web text from a page which is live, so nothing special to do there.

Also, i just found a cached version for appendix d, which is attached.

the url is:

<http://74.125.93.132/search?q=cache:shJLWuK7EkcJ:https://www.cru.uea.ac.uk/cru/people/briffa/yamal2000/+%22The+substantive+implication+of+McIntyre%27s+comment%22&hl=en&gl=us&strip=1> (cached version from nov 5, 2009)



Yamal ring-width chronology of Briffa (2000).htm

----- Forwarded by Jason Samenow/DC/USEPA/US on 12/06/2009 05:46 PM -----

From: Jason Samenow/DC/USEPA/US
To: William Perkins/DC/USEPA/US@EPA
Date: 12/06/2009 05:24 PM
Subject: requests for ERG on vol 2

Instructions for ERG on Volume 2:

- 1) Address all margin comment bubbles directed to "ERG" in both the RTC and reference attachment and adjust references based on margin bubbles as necessary
- 2) Add the 2 comments and responses below to the Extreme Event section of this volume (at the end is fine), and renumber comments/responses beneath that. (note: the references cited in these RTCs are already in the TSD).
- 3) Making any necessary formatting adjustments to the Appendices. (b)(5) Deliberative
[Redacted]
- 4) Merge references (in separate document) with main volume

Thanks so much...
Jason

Comment:

(b)(5) Deliberative
[Redacted]

Response:

(b)(5) Deliberative
[Redacted]

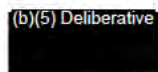
(b)(5) Deliberative

Comment:

(b)(5) Deliberative

Response:

(b)(5) Deliberative

 hadcru-temperature.htm  hadcru-availability.htm  (b)(5) Deliberative  (b)(5) Deliberative
vol 2 120709.doc references vol 2 120709.doc

This is Google's cache of <https://www.cru.uea.ac.uk/cru/data/availability/>. It is a snapshot of the page as it appeared on Oct 21, 2009 12:27:45 GMT. The [current page](#) could have changed in the meantime. [Learn more](#)

These terms only appear in links pointing to this page: **http www cru uea ac uk cru data availability**

[Full version](#)

[Climatic Research Unit : Data](#)

CRU Data Availability

The Climatic Research Unit (CRU) at the University of East Anglia (UEA) has, since 1982, made available gridded datasets of surface temperature data over land areas and averages for the Northern and Southern Hemispheres and the Globe. Until the development of the internet these were made available via various media. These datasets (the latest being CRUTEM3 <http://www.cru.uea.ac.uk/cru/data/temperature/>) have been developed from data acquired from weather stations around the world. Almost all these weather stations are run by National Meteorological Services (NMSs) and they exchange these data over the CLIMAT network, which is part of the World Meteorological Organization's (WMO) Global Telecommunications System (GTS). Much of the original data in the early 1980s came from publications entitled 'World Weather Records'. We also make use of data available from the National Climatic Data Center in Asheville, North Carolina (their [Global Historical Climatology Network](#), GHCN). We are also constantly striving to find additional, and homogenized data from a wide range of sources (see details of earlier work in the publications below). Both the gridded datasets and the station data archive have evolved over the years and we developed dataset version numbers in the early 1990s. The methodology we have used in developing the gridded datasets has been described in numerous publications in the climate literature (see list at the end of this document and also <http://www.cru.uea.ac.uk/cru/data/temperature/> and the linked FAQs).

Since the early 1980s, some NMSs, other organizations and individual scientists have given or sold us (see Hulme, 1994, for a summary of European data collection efforts) additional data for inclusion in the gridded datasets, often on the understanding that the data are only used for academic purposes with the full permission of the NMSs, organizations and scientists and the original station data are not passed onto third parties. Below we list the agreements that we still hold. We know that there were others, but cannot locate them, possibly as we've moved offices several times during the 1980s. Some date back at least 20 years. Additional agreements are unwritten and relate to partnerships we've made with scientists around the world and visitors to the CRU over this period. In some of the examples given, it can be clearly seen that our requests for data from NMSs have always stated that we would not make the data available to third parties. We included such statements as standard from the 1980s, as that is what many NMSs requested. The inability of some agencies to release climate data held is not uncommon in climate science. The Dutch Met Service (KNMI) run the European Climate Assessment and Dataset (ECA&D, <http://eca.knmi.nl/>) project. They are able to use much data in their numerous analyses, but they cannot make all the original daily station temperature and precipitation series available because of restrictions imposed by some of the data providers. A series of workshops (see Peterson and Manton, 2008 for details) has been held in diverse regions of the world to produce analyses of trends in extremes. NMSs are generally happy to release derived products from their data, even if they restrict access to their digital climate archives. A third example is the Global Precipitation Climatology Centre (<http://gpcc.dwd.de>), run by the German Weather Service (DWD) who make various versions of gridded precipitation datasets freely available, but due to restrictions imposed by data providers are not able to give access to any of the station monthly precipitation totals. The problem is a generic issue and arises from the need of many NMSs to be or aim to be cost neutral (i.e. sell the data to recoup the costs of making observations and preparing the data).

We receive numerous requests for these station data (not just monthly temperature averages, but precipitation totals and pressure averages as well). Requests come from a variety of sources, often for an individual station or all the stations in a region or a country. Sometimes these come because the data cannot be obtained locally or the requester does not have the resources to pay for what some NMSs charge for the data. These data are not ours to provide without the full permission of the relevant NMSs, organizations and scientists. We point enquirers to the GHCN web site. We hope in the future that we may be able to provide these data, jointly with the UK Met Office Hadley Centre, subject to

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obtaining consent for making them available from the rights holders. In developing gridded temperature datasets it is important to use as much station data as possible to fully characterise global- and regional-scale changes. Hence, restricting the grids to only including station data that can be freely exchanged would be detrimental to the gridded products in some parts of the world.

We are not in a position to supply data for a particular country not covered by the example agreements referred to earlier, as we have never had sufficient resources to keep track of the exact source of each individual monthly value. Since the 1980s, we have merged the data we have received into existing series or begun new ones, so it is impossible to say if all stations within a particular country or if all of an individual record should be freely available. Data storage availability in the 1980s meant that we were not able to keep the multiple sources for some sites, only the station series after adjustment for homogeneity issues. We, therefore, do not hold the original raw data but only the value-added (i.e. quality controlled and homogenized) data. The priorities we use when merging data from the same station from different sources are discussed in some of the literature cited below. Parts of series may have come from restricted sources, whilst the rest came from other sources. Furthermore, as stated in <http://www.cru.uea.ac.uk/cru/data/landstations/> we have never kept track of changes to country names, as it is only the location and the station's data that are important. So, extracting data for a single country isn't always a simple task.

We rely on the CLIMAT network for updating CRU data series in near-real time. After quality control at the Hadley Centre these data are made available (since 2000) at http://hadobs.metoffice.com/crudem3/data/station_updates/. Much climate data are now additionally available through the internet from NMSs, but these are often difficult to use as data series often refer to national numbering systems, which must be related back to WMO Station Identifiers. Furthermore a number of NMSs make homogenized data (after adjustments for example for site moves, instrument improvements and changes in the way averages are calculated) available in delayed mode over the internet. Some that provide both raw and homogenized versions, generally do not link the two sets of data together.

Some years ago, WMO enacted Resolution 40 (<http://www.map.meteoswiss.ch/map-doc/WMO/WMOresol40.htm>) which covers the exchange of meteorological data and many data products and services produced by NMSs. This resolution applies only to NMSs and whilst Annex 1 implies that much data should be freely available for research and operational uses (commercial is discussed separately in the resolution), many still impose conditions and charge for access (see the earlier discussion related to KNMI and GPCC).

The HadCRUT3 product is a blend of land surface (CRUTEM3) and sea surface temperatures (HadSST2), CRU developing the land series and the Hadley Centre the SST series. Real-time updates of both components are performed at the Hadley Centre (data available at <http://hadobs.metoffice.com/> and also on the CRU site). The collaboration has been ongoing for more than 20 years. A similar set of publications on the Hadley Centre site document the development of the SST datasets.

Files

- [Data agreements \(Adobe Portable Document Format file\)](#)

References

- Hulme, M., 1994: The cost of climate data: A European experience. *Weather* **49**, 168-176.
- Peterson, T.C. and Manton, M.J., 2008: Monitoring changes in climate extremes: a tale of international collaboration. *Bull. Amer. Meteorol. Soc.* **89**, 1266-1271.

Literature describing the development of CRU land temperature datasets

- 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,

doi:10.1029/2005JD006548.

- 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.
- Jones, P.D., New, M., Parker, D.E., Martin, S. and Rigor, I.G., 1999: Surface air temperature and its variations over the last 150 years. *Reviews of Geophysics* **37**, 173-199.
- Jones, P.D., Wigley, T.M.L. and Kelly, P.M., 1982. Variations in surface air temperatures, Part 1: Northern Hemisphere, 1881-1980. *Monthly Weather Review* **110**, 59-70.
- Jones, P.D., Raper, S.C.B., Bradley, R.S., Diaz, H.F., Kelly, P.M. and Wigley, T.M.L., 1986: Northern Hemisphere surface air temperature variations: 1851-1984. *Journal of Climate and Applied Meteorology* **25**, 161-179.
- Jones, P.D., Raper, S.C.B. and Wigley, T.M.L., 1986: Southern Hemisphere surface air temperature variations: 1851-1984. *Journal of Climate and Applied Meteorology* **25**, 1213-1230.
- Jones, P.D., Wigley, T.M.L. and Wright, P.B., 1986: Global temperature variations, 1861-1984. *Nature* **322**, 430-434.
- Jones, P.D., 1988: Hemispheric surface air temperature variations: Recent trends and an update to 1987. *Journal of Climate* **1**, 654-660.
- 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.
- Jones, P.D. and Briffa, K.R., 1992: Global surface air temperature variations over the twentieth century: Part 1 Spatial, temporal and seasonal details. *The Holocene* **2**, 165-179.
- Jones, P.D., 1994: Hemispheric surface air temperature variations: a reanalysis and an update to 1993. *Journal of Climate* **7**, 1794-1802.
- Bradley, R.S., Kelly, P.M., Jones, P.D., Goodess, C.M. and Diaz, H.F., 1985: A Climatic Data Bank for Northern Hemisphere Land Areas, 1851-1980, U.S. Dept. of Energy, Carbon Dioxide Research Division, *Technical Report TRO17*, 335 pp.
- Jones, P.D., Raper, S.C.B., Santer, B.D., Cherry, B.S.G., Goodess, C.M., Kelly, P.M., Wigley, T.M.L., Bradley, R.S. and Diaz, H.F., 1985: A Grid Point Surface Air Temperature Data Set for the Northern Hemisphere, U.S. Dept. of Energy, Carbon Dioxide Research Division, *Technical Report TRO22*, 251 pp.
- Jones, P.D., Raper, S.C.B., Cherry, B.S.G., Goodess, C.M. and Wigley, T.M.L., 1986: A Grid Point Surface Air Temperature Data Set for the Southern Hemisphere, 1851-1984, U.S. Dept. of Energy, Carbon Dioxide Research Division, *Technical Report TR027*, 73 pp.

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These search terms are highlighted: **hadley cru temperature** These terms only appear in links pointing to this [Full version](#) page: **center**

[Climatic Research Unit: Data](#)

[Graph](#)
Hemispheric and global averages [graph](#)
(also available as a [EPS](#) and [PDE](#))

Temperature

From the beginning of January 2006, we have replaced the various grid-box **temperature** anomaly (from the base period 1961-90) datasets with new versions, HadCRUT3 and CRUTEM3 (see Brohan et al., 2006). The datasets have been developed in conjunction with **Hadley** Centre of the UK Met Office. These datasets will be updated at roughly monthly intervals into the future. Hemispheric and global averages as monthly and annual values are available as separate files.

This text gives some brief information to users about the datasets including:

- [Scientific papers](#) that should be consulted for complete details and referenced if any of the datasets are used
- [Dataset terminology](#), [file formats](#) and [downloads](#) available
- [Answers to some frequently-asked questions](#)

The earlier versions (HadCRUT2 and CRUTEM2 and their variance adjusted versions) can be found [here](#). They are no longer being updated.

References

- Brohan, P., J.J. Kennedy, I. Harris, S.F.B. Tett and P.D. Jones, 2006: Uncertainty estimates in regional and global observed **temperature** changes: a new dataset from 1850. *J. Geophysical Research* **111**, D12106, [doi:10.1029/2005JD006548](https://doi.org/10.1029/2005JD006548) -- [Available as PDF](#)
- Jones, P.D., New, M., Parker, D.E., Martin, S. and Rigor, I.G., 1999: Surface air **temperature** and its variations over the last 150 years. *Reviews of Geophysics* **37**, 173-199.
- Rayner, N.A., P. Brohan, D.E. Parker, C.K. Folland, J.J. Kennedy, M. Vanicek, T. Ansell and S.F.B. Tett, 2006: Improved analyses of changes and uncertainties in marine **temperature** measured in situ since the mid-nineteenth century: the HadSST2 dataset. *J. Climate*, **19**, 446-469.
- Rayner, N.A., Parker, D.E., Horton, E.B., Folland, C.K., Alexander, L.V., Rowell, D.P., Kent, E.C. and Kaplan, A., 2003: Globally complete analyses of sea surface **temperature**, sea ice and night marine air **temperature**, 1871-2000. *J. Geophysical Research* **108**, 4407, [doi:10.1029/2002JD002670](https://doi.org/10.1029/2002JD002670)

Dataset Terminology

CRUTEM3CRUTEM3vHadCRUT3HadCRUT3vHadSST2Absolute

land air temperature anomalies on a 5° by 5° grid-box basis
variance adjusted version of CRUTEM3
combined land and marine [sea surface temperature (SST) anomalies from HadSST2, see Rayner et al., 2006] temperature anomalies on a 5° by 5° grid-box basis
variance adjusted version of HadCRUT3

EPA-EF-005327

sea surface **temperature** anomalies from Rainer et al (2006)

Absolute temperatures for the base period 1961-90 (see Jones et al., 1999)

File Formats

CRUTEM3, CRUTEM3v, HadCRUT3, HadCRUT3v, Absolute ASCII file format

```
for year = 1850 to endyear
for month = 1 to 12 (or less in endyear)
format(2i6) year, month
for row = 1 to 36 (85-90N,80-85N,75-70N,...75-80S,80-85S,85-90S)
format(72(e10.3,1x)) 180W-175W,175W-170W,...,175-180E
```

Data represent **temperature** anomalies wrt 1961-90 °C

Missing values represented by -1.000e+30

Absolute is just the twelve monthly averages for 1961-90: there are no years

HadSST2 ASCII file format

```
for year = 1850 to endyear
for month = 1 to 12 (or less in endyear)
format(2i12) month, year
for row = 1 to 36 (85-90N,80-85N,75-70N,...75-80S,80-85S,85-90S)
format(72(f7.2,1x)) 180W-175W,175W-170W,...,175-180E
```

Data represent **temperature** anomalies wrt 1961-90 °C

Missing values represented by -99.99

Hemispheric/global average data file format

```
for year = 1850 to endyear
format(i5,13f7.3) year, 12 * monthly values, annual value
format(i5,12i7) year, 12 * percentage coverage of hemisphere or globe
```

Coverage of 0 means data not yet available

[NetCDF format](#) is read by many commercial data-processing packages (eg. [IDL](#)) and public-domain software (eg. [ncview](#), a NetCDF viewer, and [NCL](#), a scriptable data-manipulation and visualisation package)

Data for Downloading

DatasetFull gridEnd month

Updated Hemispheric means **Hadley** CentreCRUTEM3 CRUTEM3v HadCRUT3 HadCRUT3v HadSST2 Absolute

Zipped ASCII 2 MB	NetCDF 18 MB	2009-02 2009-03-13	NH	SH	GL	HADLEY CENTRE
Zipped ASCII 3 MB	NetCDF 18 MB	2009-02 2009-03-13	NH	SH	GL	
Zipped ASCII 7 MB	NetCDF 18 MB	2009-02 2009-03-12	NH	SH	GL	HADLEY CENTRE
Zipped ASCII 7 MB	NetCDF 18 MB	2009-02 2009-03-12	NH	SH	GL	
Zipped ASCII 3 MB	NetCDF 37 MB	2009-02 2009-03-05	NH	SH	GL	HADLEY CENTRE
Zipped ASCII 3 MB	NetCDF 63 KB					

All these files can also be found on our FTP server <ftp://ftp.cru.uea.ac.uk/data>

Answers to Frequently-asked Questions

The answers given are intended to be brief rather than comprehensive. For complete details readers are referred to the scientific references already given.

What are the basic raw data used?

Over land regions of the world over 3000 monthly station **temperature** time series are used. Coverage is denser over the more populated parts of the world, particularly, the United States, southern Canada, Europe and Japan. Coverage is sparsest over the interior of the South American and African continents and over the Antarctic. The number of available stations was small during the 1850s, but increases to over 3000 stations during the 1951-90 period. For marine regions sea surface **temperature** (SST) measurements taken on board merchant and some naval vessels are used. As the majority come from the voluntary observing fleet, coverage is reduced away from the main shipping lanes and is minimal over the Southern Oceans. Maps/tables giving the density of coverage through time are given for land regions by Jones and Moberg (2003) and for the oceans by Rayner *et al.* (2003). Both these sources also extensively discuss the issue of consistency and homogeneity of the measurements through time and the steps that have made to ensure all non-climatic inhomogeneities have been removed.

Why are sea surface temperatures rather than air temperatures used over the oceans?

Over the ocean areas the most plentiful and most consistent measurements of **temperature** have been taken of the sea surface. Marine air temperatures (MAT) are also taken and would, ideally, be preferable when combining with land temperatures, but they involve more complex problems with homogeneity than SSTs (Rayner *et al.*, 2003). The problems are reduced using night only marine air **temperature** (NMAT) but at the expense of discarding approximately half the MAT data. Our use of SST anomalies implies that we are tacitly assuming that the anomalies of SST are in agreement with those of MAT. Many tests show that NMAT anomalies agree well with SST anomalies on seasonal and longer time scales in most open ocean areas. Globally the agreement is currently very good (Rayner *et al.*, 2003), even better than in Folland *et al.* (2001b). However, some regional discrepancies in open ocean trends have recently been found in the tropics (Christy *et al.*, 2001).

Why are the temperatures expressed as anomalies from 1961-90?

Stations on land are at different elevations, and different countries estimate average monthly temperatures using different methods and formulae. To avoid biases that could result from these problems, monthly average temperatures are reduced to anomalies from the period with best coverage (1961-90). For stations to be used, an estimate of the base period average must be calculated. Because many stations do not have complete records for the 1961-90 period several methods have been developed to estimate 1961-90 averages from neighbouring records or using other sources of data. Over the oceans, where observations are generally made from mobile platforms, it is impossible to assemble long series of actual temperatures for fixed points. However it is possible to interpolate historical data to create spatially complete reference climatologies (averages for 1961-90) so that individual observations can be compared with a local normal for the given day of the year.

Why do anomalies not average exactly zero over 1961-90?

Over both the land and marine domains considerable care has been taken in calculating the base period values for the 1961-90 period. However, as all regions don't have complete data for this 30-year period, the anomaly data do not average exactly to zero for this 30-year period. This also applies to the global and hemispheric average series as well as the individual grid-box series. However, the IPCC optimally averaged global and hemispheric time series (see later web address) are constrained to have anomalies that average to zero over 1961-90.

How are the land and marine data combined?

Both the component parts (land and marine) are separately interpolated to the same 5° x 5° latitude/longitude grid boxes. The combined versions (HadCRUT3 and HadCRUT3v) take values from each component and weight the grid boxes where both occur (coastlines and islands). The weighting method is described in detail in Jones *et al.* (2001). Land **temperature** anomalies are infilled where more than four of the surrounding eight 5° x 5° grid boxes are present, as discussed in Jones *et al.* (2001). Infilling doesn't take place when the box is ocean, except when it covered by sea ice based on 1961-90 average conditions.

How accurate are the hemispheric and global averages?

Annual values are approximately accurate to +/- 0.05°C (two standard errors) for the period since 1951. They are about four times as uncertain during the 1850s, with the accuracy improving gradually between 1860 and 1950 except for temporary deteriorations during data-sparse, wartime intervals. Estimating accuracy is a far from a trivial task as the individual grid-boxes are not independent of each other and the accuracy of each grid-box time series varies through time (although the variance adjustment has reduced this influence to a large extent). The issue is discussed extensively by Folland *et al.* (2001a,b) and Jones *et al.* (1997). Both Folland *et al.* (2001a,b) references extend discussion to the estimate of accuracy of trends in the global and hemispheric series, including the additional uncertainties related to homogeneity corrections.

In the hemispheric files averages are now given to a precision of three decimal places to enable seasonal values to be calculated to ±0.01°C. The extra precision implies no greater accuracy than two decimal places.

*Why do global and hemispheric **temperature** anomalies differ from those quoted in the IPCC assessment and the media?*

We have areally averaged grid-box **temperature** anomalies (using the HadCRUT3v dataset), with weighting according to the area of each 5° x 5° grid box, into hemispheric values; we then averaged these two values to create the global-average anomaly. However, the global and hemispheric anomalies used by IPCC and in the World Meteorological Organization and Met Office news releases were calculated using optimal averaging. This technique uses information on how temperatures at each location co-vary, to weight the data to take best account of areas where there are no observations at a given time. The method uses the same basic information (i.e. in future HadCRUT3v and subsequent improvements), along with the data-coverage and the measurement and sampling errors, to estimate uncertainties on the global and hemispheric average anomalies. The more elementary technique (used here) produces no estimates of uncertainties, but our results generally lie within the ranges estimated by optimum averaging. The constraint that the average be zero over 1961-90 in the optimal averages also adds a small offset compared to the other data described here.

The present optimal averages with annual uncertainties are [accessible from the Hadley Centre](#). The data include values filtered to show decadal and longer-term variations and uncertainties. This replaces the IPCC 2001 version at the above site (see Parker *et al.* 2004). All other versions of global and hemispheric **temperature** anomalies are only steps to the IPCC series.

Why are values slightly different when I download an updated file a year later?

All the files on this page (except Absolute) will be updated on a monthly basis to include the latest month within about four weeks of its completion. Updating includes not just data for the last month but the addition of any late reports for up to approximately the last two years. In addition to this the method of variance adjustment (used for CRUTEM3v and HadCRUT3v) works on the anomalous temperatures relative to the underlying trend on an approximate 30-year timescale. Estimating this trend requires estimation of grid-box temperatures for years before the start of each record and after the end. With the addition of subsequent years, the underlying trend will alter slightly, changing the variance-adjusted values. Effects will be greatest on the last year of the record, but an influence can be evident for the last three to four years. Full details of the variance adjustment procedure are given in Jones *et al.* (2001). Approximately yearly, the optimally averaged values will also be updated to take account of such additional past information

See also

EPA-EF-005330

- [CRU Information Sheet no. 1: Global Temperature Record](#)
- [Climate Monitor Online](#) has month-by-month visualisations of [gridded](#) and [hemispheric temperature](#).
- Todd Mitchell at JISAO also provides a NetCDF version of [Land/Ocean](#) grid.
- [CRUTEM2 and related datasets](#) will remain available in parallel for a while.
- [Examples plots of CRU data](#) using [NCAR Command Language \(NCL\)](#)
- [Land Stations used by the Climatic Research Unit within CRUTEM3](#)
- Farmer et al. 1989, "[Documenting and explaining recent global-mean temperature changes](#)" ([Adobe Portable Document Format file](#)) (17MB) - final report to NERC contract GR3/6565.

Last updated: June 2008, Phil Jones & Mike Salmon (plus automatic updates for data)

This is Google's cache of <https://www.cru.uea.ac.uk/cru/people/briffa/yamal2000/>. It is a snapshot of the page as it appeared on Nov 5, 2009 23:13:40 GMT. The [current page](#) could have changed in the meantime. [Learn more](#)

These search terms are highlighted: **the substantive implication of mcintyre's comment**

[Full version](#)

[Climatic Research Unit](#) : [Staff](#) : [Keith Briffa](#)

The Yamal ring-width chronology of Briffa (2000)

My attention has been drawn to a comment by Steve McIntyre on the Climate Audit website relating to the pattern of radial tree growth displayed in the ring-width chronology "Yamal" that I first published in Briffa (2000). **The substantive implication of McIntyre's comment** (made explicitly in subsequent postings by others) is that the recent data that make up this chronology (i.e. the ring-width measurements from living trees) were purposely selected by me from among a larger available data set, specifically because they exhibited recent growth increases.

This is not the case. The Yamal tree-ring chronology (see also Briffa and Osborn 2002, Briffa et al. 2008) was based on the application of a tree-ring processing method applied to the same set of composite sub-fossil and living-tree ring-width measurements provided to me by Rashit Hantemirov and Stepan Shiyatov which forms the basis of a chronology they published (Hantemirov and Shiyatov 2002). In their work they traditionally applied a data processing method (corridor standardisation) that does not preserve evidence of long timescale growth changes. My application of the Regional Curve Standardisation method to these same data was intended to better represent the multi-decadal to centennial growth variations necessary to infer the longer-term variability in average summer temperatures in the Yamal region: to provide a direct comparison with the chronology produced by Hantemirov and Shiyatov.

These authors state that their data (derived mainly from measurements of relic wood dating back over more than 2,000 years) included 17 ring-width series derived from living trees that were between 200-400 years old. These recent data included measurements from at least 3 different locations in the Yamal region. In his piece, McIntyre replaces a number (12) of these original measurement series with more data (34 series) from a single location (not one of the above) within the Yamal region, at which the trees apparently do not show the same overall growth increase registered in our data.

The basis for McIntyre's selection of which of our (i.e. Hantemirov and Shiyatov's) data to exclude and which to use in replacement is not clear but his version of the chronology shows lower relative growth in recent decades than is displayed in my original chronology. He offers no justification for excluding the original data; and in one version of the chronology where he retains them, he appears to give them inappropriate low weights. I note that McIntyre qualifies the presentation of his version(s) of the chronology by reference to a number of valid points that require further investigation. Subsequent postings appear to pay no heed to these caveats. Whether the McIntyre version is any more robust a representation of regional tree growth in Yamal than my original, remains to be established.

My colleagues and I are working to develop methods that are capable of expressing robust evidence of climate changes using tree-ring data. We do not select tree-core samples based on comparison with climate data. Chronologies are constructed independently and are subsequently compared with climate data to measure the association and quantify the reliability of using the tree-ring data as a proxy for temperature variations.

We have not yet had a chance to explore the details of McIntyre's analysis or its implication for temperature reconstruction at Yamal but we have done considerably more analyses exploring chronology production and temperature calibration that have relevance to this issue but they are not yet published. I do not believe that McIntyre's preliminary post provides sufficient evidence to doubt the reality of unusually high summer temperatures in the last decades of the 20th century.

[An expanded comment on the McIntyre posting is now available](#) (27th October 2009).

EPA-EF-005332

K.R. Briffa
30 Sept 2009

- Briffa, K. R. 2000. Annual climate variability in the Holocene: interpreting the message of ancient trees. *Quaternary Science Reviews* **19**:87-105.
- Briffa, K. R., and T. J. Osborn. 2002. Paleoclimate - Blowing hot and cold. *Science* **295**:2227-2228.
- 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.
- Hantemirov, R. M., and S. G. Shiyatov. 2002. A continuous multimillennial ring-width chronology in Yamal, northwestern Siberia. *Holocene* **12**:717-726.

EPA-3132

Lesley
Jantarasami/DC/USEPA/US
12/06/2009 06:46 PM

To "Matthew Mitchell", Sue Eisenfeld
cc William Perkins
bcc
Subject LATE ADDITION for Vol 6

Hi Matt and Sue,

(b)(5) Deliberative
Could you make this comment/response the second to last comment in Section 6.2 - Forestry?

Comment:

(b)(5) Deliberative

Response:

(b)(5) Deliberative

So it will go right before the comment that states:

Comment:

(b)(5) Deliberative

Please let me know if you have questions - thanks!!!

Lesley

Lesley Jantarasami
US EPA, Climate Change Division
Climate Science & Impacts Branch
202.343.9929

EPA-EF-005334

202.343.2202 (fax)
Jantarasami.Lesley@epa.gov

"Matthew Mitchell" Hi Lesley-- For the first one: 12/06/2009 06:11:58 PM

From: "Matthew Mitchell" <Matthew.Mitchell@erg.com>
To: Lesley Jantarasami/DC/USEPA/US@EPA
Cc: William Perkins/DC/USEPA/US@EPA
Date: 12/06/2009 06:11 PM
Subject: Re: Fw: reference issue

Hi Lesley--

For the first one:

Don't ask me to diagram this sentence! But I say it should be (b)(5) Deliberative

For the second:

Those commas aren't necessary, but they're not really wrong either. I'd actually leave them in for clarity.

Matthew N. Mitchell
ERG
110 Hartwell Avenue
Lexington, MA 02421-3136
(p) 781-674-7331
(f) 781-674-2851
>>> <Jantarasami.Lesley@epamail.epa.gov> 12/06/09 5:29 PM >>>
Hi Matt,

Two quick questions about the following two sentences that were just added to Vol 11.

Grammatically correct? (b)(5) Deliberative

Aren't these commas unnecessary? (b)(5) Deliberative

Thanks,
Lesley

|----->
| From: |
|----->

>-----

-----|
| "Matthew Mitchell" <Matthew.Mitchell@erg.com>
|
>-----
----->
To:
----->
>-----
William Perkins/DC/USEPA/US@EPA, "Sue Eisenfeld" <Sue.Eisenfeld@erg.com>
>-----
----->
Cc:
----->
>-----
Lesley Jantarasami/DC/USEPA/US@EPA
>-----
----->
Date:
----->
>-----
12/06/2009 04:14 PM
>-----
----->
Subject:
----->
>-----
Re: Fw: reference issue
>-----

I do, I think, recommend using the (b)(5) Deliberative
[REDACTED]
[REDACTED]

(b)(5) Deliberative

(b)(5) Deliberative

Matthew N. Mitchell
ERG
110 Hartwell Avenue
Lexington, MA 02421-3136
(p) 781-674-7331
(f) 781-674-2851
>>> <Perkins.William@epamail.epa.gov> 12/06/09 3:57 PM >>>

Matt and Sue,

Please see the correspondence chain below. If you agree with the approach of listing the author as the one in the most recent version, then could you please send us a properly formatted citation that we can use across all the volumes?

If you agree with the approach, please send the language to Lesley and I. If you disagree based on convention, please send us a suggestion for action. Please call Lesley with any questions on this specific issue at 202.343.9929.

Thank you.

Cheers,

Bill

Bill Perkins
Climate Change Adaptation Analyst
Climate Science and Impacts Branch
Climate Change Division
U.S. Environmental Protection Agency
perkins.william@epa.gov
(O) 202.343.9460
(F) 202.343.2202
(C) (b)(6)

----- Forwarded by William Perkins/DC/USEPA/US on 12/06/2009 03:53 PM -----

From: Lesley Jantarasami/DC/USEPA/US
To: William Perkins/DC/USEPA/US@EPA
Date: 12/06/2009 03:13 PM
Subject: Fw: reference issue

What do you think about getting ERG's take on this issue? Or at least having them send us a properly formatted citation with just one author

(b)(5) Deliberative
[Redacted]

(b)(5) Deliberative
[Redacted]

Having said that, I think that the best thing to do would be to reference the

(b)(5) Deliberative
[Redacted]

Specifically, the (b)(5) Deliberative

[Redacted]

Marcus and I noticed that the Vol. 4 reference list includes the following:

(b)(5) Deliberative
[Redacted]

[Redacted]

[attachment "EPA-HQ-OAR-2009-0171-4035.1.pdf" deleted by Marcus Sarofim/DC/USEPA/US]

EPA-3133

Dina Kruger/DC/USEPA/US
12/06/2009 06:54 PM

To Jason Samenow, Ben DeAngelo
cc Rona Birnbaum
bcc
Subject Popultion control

There is a comment [REDACTED] (b)(5) Deliberative

[REDACTED]
I'm attaching it.

Jason, can you confirm [REDACTED] (b)(5) Deliberative

[REDACTED] Thanks - (and edits/improvements to the language of the response are welcome to.)

Dina

[REDACTED] (b)(5) Deliberative

population comment.doc

Dina Kruger
Director, Climate Change Division
USEPA

202-343-9039 (phone)
202-343-2290 (fax)

EPA-EF-005339

EPA-3134

Ben DeAngelo/DC/USEPA/US
12/06/2009 06:56 PM

To Dina Kruger, Rona Birnbaum, Carol Holmes, John Hannon
cc Lesley Jantarasami, Bill Perkins
bcc

Subject revised vol 10

This version incorporates and accepts John's and Carol's comments. Some track changes left here to note.

There comments in here ID'd to move to vol 11.

Comment [REDACTED] (b)(5) Deliberative

[REDACTED] (b)(5) Deliberative

RTC draft Volume 10 Cause or Contribute 120609 BJD.doc

EPA-EF-005340

EPA-3135

Carol Holmes/DC/USEPA/US
12/06/2009 07:14 PM

To Ben DeAngelo
cc Dina Kruger, John Hannon, Lesley Jantarasami, Bill Perkins,
Rona Birnbaum
bcc
Subject Re: revised vol 10

Thanks Ben.

Re 10-3 -- did you ever respond to my comment balloon? (b)(5) Deliberative

re 10-5 -- are revised, (b)(5) Deliberative
How about:

(b)(5) Deliberative

Check for headings being changed to Volume 10 from 11 (e.g., (b)(5) Deliberative

(b)(5) Deliberative

Agree moving (b)(5) Deliberative .

10-16 -- OK. Need to underline "Comment: (10-16)"

10-17 -- did you mean to refer to 10-16? Something I like (b)(5) Deliberative

10-18 -- OK

10-20 -- still don't understand (b)(5) Deliberative

THANKS

Confidential communication for internal deliberations only; Attorney-client, attorney work product and/or enforcement privilege; Do not distribute outside EPA or DOJ

Carol S. Holmes
Office of General Counsel
U.S. Environmental Protection Agency
1200 Pennsylvania Ave, NW (MC 2344A)
Washington, DC 20460
Phone (202) 564-8709
Fax (202) 564-5603

Ben DeAngelo This version incorporates and accepts... 12/06/2009 06:56:35 PM

From: Ben DeAngelo/DC/USEPA/US
To: Dina Kruger/DC/USEPA/US@EPA, Rona Birnbaum/DC/USEPA/US@EPA, Carol

Cc: Holmes/DC/USEPA/US@EPA, John Hannon/DC/USEPA/US@EPA
Lesley Jantarasami/DC/USEPA/US@EPA, Bill Perkins <perkins.william@epa.gov>
Date: 12/06/2009 06:56 PM
Subject: revised vol 10

This version incorporates and accepts John's and Carol's comments. Some track changes left here to note.

There comments in here ID'd to move to vol 11.

Comment [REDACTED] (b)(5) Deliberative
[REDACTED]

[attachment "RTC draft Volume 10 Cause or Contribute 120609 BJD.doc" deleted by Carol Holmes/DC/USEPA/US]

EPA-3136

"Matthew Mitchell"
<Matthew.Mitchell@erg.com>
12/06/2009 07:19 PM

To Lesley Jantarasami, William Perkins
cc "Mae Thomas", "Sue Eisenfeld"
bcc

Subject Volume 6, second round

Attached please find Volume 6. I haven't had time to attach and edit Lesley's new foreword (doing that next); I have inserted Lesley's comment that needed adding. Note that it seems to cite a new reference, one we don't have.

Matthew N. Mitchell
ERG
110 Hartwell Avenue
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(p) 781-674-7331
(f) 781

(b)(5) Deliberative

vol 6 second-round edited.doc

EPA-3137

William
Perkins/DC/USEPA/US
12/06/2009 07:22 PM

To "Matthew Mitchell"
cc Lesley Jantarasami, "Mae Thomas", "Sue Eisenfeld"
bcc
Subject Re: Volume 6, second round

Matt,

Thank you. I spoke to Mae a few minutes ago, and I am going to send you new references that we have added since final copyedit in "batches" throughout the evening. Also, we'll paste in the new forewords, please don't worry about that for 1 either.

Cheers,

Bill

Bill Perkins
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Climate Science and Impacts Branch
Climate Change Division
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perkins.william@epa.gov
(O) 202.343.9460
(F) 202.343.2202
(C) (b)(6)

"Matthew Mitchell" Attached please find Volume 6. I ha... 12/06/2009 07:20:40 PM

From: "Matthew Mitchell" <Matthew.Mitchell@erg.com>
To: Lesley Jantarasami/DC/USEPA/US@EPA, William Perkins/DC/USEPA/US@EPA
Cc: "Mae Thomas" <Mae.Thomas@erg.com>, "Sue Eisenfeld" <Sue.Eisenfeld@erg.com>
Date: 12/06/2009 07:20 PM
Subject: Volume 6, second round

Attached please find Volume 6. I haven't had time to attach and edit Lesley's new foreword (doing that next); I have inserted Lesley's comment that needed adding. Note that it seems to cite a new reference, one we don't have.

Matthew N. Mitchell
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[attachment "vol 6 second-round edited.doc" deleted by William Perkins/DC/USEPA/US]

EPA-EF-005344

EPA-3138

Carol Holmes/DC/USEPA/US

12/06/2009 07:28 PM

To John Hannon

cc Ben DeAngelo, Dina Kruger, Lesley Jantarasami, Bill Perkins,
Rona Birnbaum

bcc

Subject Re: revised vol 10

Everyone -- Ben and I walked through my comments and we are DONE!!! :)

Confidential communication for internal deliberations only; Attorney-client, attorney work product and/or enforcement privilege; Do not distribute outside EPA or DOJ

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John Hannon

[no comments \(and I like saying that!\). ...](#)

12/06/2009 07:03:06 PM

From: John Hannon/DC/USEPA/US
To: Ben DeAngelo/DC/USEPA/US@EPA
Cc: Carol Holmes/DC/USEPA/US@EPA, Dina Kruger/DC/USEPA/US@EPA, Lesley Jantarasami/DC/USEPA/US@EPA, Bill Perkins <perkins.william@epa.gov>, Rona Birnbaum/DC/USEPA/US@EPA
Date: 12/06/2009 07:03 PM
Subject: Re: revised vol 10

no comments (and I like saying that!).

John Hannon
Office of General Counsel
U.S. Environmental Protection Agency
1200 Pennsylvania Ave. NW (MC 2344A)
Washington, D.C. 20460
Phone (202) 564-5563
Fax (202) 564-5603

Ben DeAngelo

[This version incorporates and accepts...](#)

12/06/2009 06:56:35 PM

From: Ben DeAngelo/DC/USEPA/US
To: Dina Kruger/DC/USEPA/US@EPA, Rona Birnbaum/DC/USEPA/US@EPA, Carol Holmes/DC/USEPA/US@EPA, John Hannon/DC/USEPA/US@EPA
Cc: Lesley Jantarasami/DC/USEPA/US@EPA, Bill Perkins <perkins.william@epa.gov>
Date: 12/06/2009 06:56 PM
Subject: revised vol 10

This version incorporates and accepts John's and Carol's comments. Some track changes left here to note.

There comments in here ID'd to move to vol 11.

EPA-EF-005345

Comment [REDACTED] (b)(5) Deliberative

[attachment "RTC draft Volume 10 Cause or Contribute 120609 BJD.doc" deleted by John Hannon/DC/USEPA/US]

EPA-3139

Lesley
Jantarasami/DC/USEPA/US
12/06/2009 07:31 PM

To "Matthew Mitchell"
cc William Perkins
bcc
Subject Re: Volume 6, second round

Thanks, Matt. Here is reference. Could you format it correctly for me? I don't know the conventions we're using, and don't want to mess it up. Thanks!

(b)(5) Deliberative

"Matthew Mitchell" Attached please find Volume 6. I ha... 12/06/2009 07:20:41 PM

From: "Matthew Mitchell" <Matthew.Mitchell@erg.com>
To: Lesley Jantarasami/DC/USEPA/US@EPA, William Perkins/DC/USEPA/US@EPA
Cc: "Mae Thomas" <Mae.Thomas@erg.com>, "Sue Eisenfeld" <Sue.Eisenfeld@erg.com>
Date: 12/06/2009 07:20 PM
Subject: Volume 6, second round

Attached please find Volume 6. I haven't had time to attach and edit Lesley's new foreword (doing that next); I have inserted Lesley's comment that needed adding. Note that it seems to cite a new reference, one we don't have.

Matthew N. Mitchell
ERG
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[attachment "vol 6 second-round edited.doc" deleted by Lesley Jantarasami/DC/USEPA/US]

EPA-3140

William
Perkins/DC/USEPA/US
12/06/2009 07:35 PM

To "Mae Thomas"
cc Lesley Jantarasami, "Matthew Mitchell", "Sue Eisenfeld"
bcc
Subject Re: Volume 6, second round

Mae,

Sorry not being clearer; no. Only goal here is to be sure that the docket is correct, and that you have all the RTC references, so that in the end the copyrighted stuff given to the docket = (RTC references + journals on ftp site).

To that end, I'll send you batches of new refs as they arrive. Only have a couple so far.

Please call me if for whatever reason that is not clear (problem is definitely on my end if that is the case). Thank you.

Cheers,

Bill

Bill Perkins
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(O) 202.343.9460
(F) 202.343.2202
(C) (b)(6)

"Mae Thomas" Bill, when you and I talked I was compl... 12/06/2009 07:32:29 PM

From: "Mae Thomas" <Mae.Thomas@erg.com>
To: William Perkins/DC/USEPA/US@EPA, "Matthew Mitchell" <Matthew.Mitchell@erg.com>
Cc: Lesley Jantarasami/DC/USEPA/US@EPA, "Sue Eisenfeld" <Sue.Eisenfeld@erg.com>
Date: 12/06/2009 07:32 PM
Subject: Re: Volume 6, second round

Bill, when you and I talked I was completely focused on the docket list. Are you saying you want us to edit the volumes with the new references too?

>>> <Perkins.William@epamail.epa.gov> 12/6/2009 7:22 PM >>>
Matt,

Thank you. I spoke to Mae a few minutes ago, and I am going to send you new references that we have added since final copyedit in "batches" throughout the evening. Also, we'll paste in the new forewords, please don't worry about that for 1 either.

Cheers,

Bill

EPA-EF-005348

Bill Perkins
Climate Change Adaptation Analyst
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Climate Change Division
U.S. Environmental Protection Agency
perkins.william@epa.gov
(O) 202.343.9460
(F) 202.343.2202
(C) (b)(6)

From: "Matthew Mitchell" <Matthew.Mitchell@erg.com>
To: Lesley Jantarasami/DC/USEPA/US@EPA, William Perkins/DC/USEPA/US@EPA
Cc: "Mae Thomas" <Mae.Thomas@erg.com>, "Sue Eisenfeld" <Sue.Eisenfeld@erg.com>
Date: 12/06/2009 07:20 PM
Subject: Volume 6, second round

Attached please find Volume 6. I haven't had time to attach and edit Lesley's new foreword (doing that next); I have inserted Lesley's comment that needed adding. Note that it seems to cite a new reference, one we don't have.

Matthew N. Mitchell
ERG
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[attachment "vol 6 second-round edited.doc" deleted by William Perkins/DC/USEPA/US]

EPA-3141

Ben DeAngelo/DC/USEPA/US

To William Perkins

12/06/2009 07:41 PM

cc Rona Birnbaum

bcc

Subject vol 9 -- need to merge these 2

Copyedited from ERG received yesterday, and new version with all comments incorporated since yesterday. I accepted all track changes in ERG's version.

(b)(5) Deliberative

(b)(5) Deliberative

RTC draft Volume 9 120609+DINA.doc vol 9 first-round edited.doc

Benjamin J. DeAngelo
Climate Change Division, Office of Atmospheric Programs
U.S. Environmental Protection Agency
1200 Pennsylvania Ave., NW (6207J)
Washington, DC 20460

Tel: +1 202-343-9107
Fax: +1 202-343-2202
deangelo.ben@epa.gov

EPA-3142

"Matthew Mitchell"
<Matthew.Mitchell@erg.com>
12/06/2009 08:03 PM

To Lesley Jantarasami
cc William Perkins
bcc
Subject Re: Volume 6, second round

Absolutely! Here goes:

(b)(5) Deliberative

(b)(5) Deliberative

Matthew N. Mitchell
ERG
110 Hartwell Avenue
Lexington, MA 02421-3136
(p) 781-674-7331
(f) 781-674-2851

>>> <Jantarasami.Lesley@epamail.epa.gov> 12/06/09 7:31 PM >>>
Thanks, Matt. Here is reference. Could you format it correctly for me?
I don't know the conventions we're using, and don't want to mess it up.
Thanks!

(b)(5) Deliberative

|----->
| From: |
|----->

>-----

| "Matthew Mitchell" <Matthew.Mitchell@erg.com>
|

>-----

|----->
| To: |
|----->

>-----

| Lesley Jantarasami/DC/USEPA/US@EPA, William Perkins/DC/USEPA/US@EPA
|
>-----

----->
|----->
| Cc: |
|----->
>
----->
|----->
| "Mae Thomas" <Mae.Thomas@erg.com>, "Sue Eisenfeld" <Sue.Eisenfeld@erg.com>
|
>
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|----->
| Date: |
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|----->
| 12/06/2009 07:20 PM
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>
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|----->
| Subject: |
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|----->
| Volume 6, second round
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|----->

Attached please find Volume 6. I haven't had time to attach and edit Lesley's new foreword (doing that next); I have inserted Lesley's comment that needed adding. Note that it seems to cite a new reference, one we don't have.

Matthew N. Mitchell
ERG
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[attachment "vol 6 second-round edited.doc" deleted by Lesley Jantarasami/DC/USEPA/US]

EPA-3143

William
Perkins/DC/USEPA/US
12/06/2009 08:05 PM

To Matthew Mitchell, Sue Eisenfeld
cc Mae Thomas, Ben DeAngelo
bcc

Subject Fw: vol 9 -- need to merge these 2

Matt and Sue,

As discussed, please help in preserving your copyedits and the edits of others in Vol 9. Ben describes this in detail below. Also, please advise if this is not possible or you recommend a different course of action.

Point of contact for this specific task is Ben DeAngelo, CCed, 202.343.9107.

Thank you.

Cheers,

Bill

Bill Perkins
Climate Change Adaptation Analyst
Climate Science and Impacts Branch
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perkins.william@epa.gov
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(F) 202.343.2202
(C) (b)(6)

----- Forwarded by William Perkins/DC/USEPA/US on 12/06/2009 08:04 PM -----

From: Ben DeAngelo/DC/USEPA/US
To: William Perkins/DC/USEPA/US@EPA
Date: 12/06/2009 07:53 PM
Subject: Fw: vol 9 -- need to merge these 2

Here are the copyedited from ERG received yesterday, and new version with all comments incorporated since yesterday. I accepted all track changes in ERG's version.

I think the main difference is that since yesterday's ERG version a new comment/response has been added, on p. 27 of today's version.

Hopefully these docs can be merged to keep all the formatting already done in the ERG version, but to ensure all new language and edits from today's version are retained.

Pls let us know if this is workable, or if (hopefully not) copyediting today's from scratch is a safer bet.

(b)(5) Deliberative

(b)(5) Deliberative

vol 9 first-round edited.doc RTC draft Volume 9 120609+DINA.doc

Benjamin J. DeAngelo
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Washington, DC 20460

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Fax: +1 202-343-2202

deangelo.ben@epa.gov

EPA-3144

William
Perkins/DC/USEPA/US
12/06/2009 08:07 PM

To Mae Thomas
cc Matthew Mitchell, Sue Eisenfeld
bcc Lesley Jantarasami
Subject Batch 1: Additional or fixed (if ERG had questions) references since copyediting for docketing

Mae,

As discussed; thank you.

Cheers,

Bill

Volume 3:

(b)(5) Deliberative

[Redacted]

[Redacted]

[Redacted]

Volume 6:

(b)(5) Deliberative

Bill Perkins
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Climate Science and Impacts Branch
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(C) (b)(6)

EPA-3145

Ben DeAngelo/DC/USEPA/US
12/06/2009 08:09 PM

To Lesley Jantarasami, Carol Holmes
cc
bcc

Subject here are 3 comments to be moved from vol 10 to vol 11

(b)(5) Deliberative

moving from 10 to 11.doc

EPA-3146

Ben DeAngelo/DC/USEPA/US

12/06/2009 08:14 PM

To Dina Kruger

cc Carol Holmes, John Hannon, Rona Birnbaum, William Perkins, Lesley Jantarasami

bcc

Subject Dina: if you haven't yet started with 10 use this version

I moved out some comments to vol 11 and did some re-ordering and did re-numbering.

(b)(5) Deliberative

RTC draft Volume 10 Cause or Contribute 120609 BJD.doc

EPA-EF-005357

EPA-3147

Lesley Jantarasami
04/01/2010 03:51 PM

To
cc
bcc

Subject UPLOAD C:\Documents and Settings\ljantara\My Documents\Endangerment\02_Comments and Responses\Vol 6 stuff\vol 6 second-round edited.doc

(b)(5) Deliberative

- vol 6 second-round edited.doc

EPA-3148

"Matthew Mitchell"
<Matthew.Mitchell@erg.com>
12/06/2009 08:24 PM

To William Perkins, "Sue Eisenfeld"
cc Jeremy Martinich, "Mae Thomas"
bcc

Subject Re: Do you have an ETA on Volume 1? Thank you (eom)

The ETA is, in fact, right now--file is attached.

After this, I need to edit that revised foreword and send it back to Lesley; next I'll tackle those third-round revisions to Volume 2.

Matthew N. Mitchell
ERG
110 Hartwell Avenue
Lexington, MA 02421-3136
(p) 781-674-7331
(f) 781-674-2851
>>> <Perkins.William@epamail.epa.gov> 12/06/09 8:11 PM >>>

Bill Perkins
Climate Change Adaptation Analyst
Climate Science and Impacts Branch
Climate Change Division
U.S. Environmental Protection Agency
perkins.william@epa.gov
(O) 202.343.9460
(F) 202.343.2202
(C) (b)(6)

(b)(5) Deliberative

vol 1 second-round edited.doc

EPA-3149

Lesley Jantarasami/DC/USEPA/US
12/06/2009 08:42 PM
To "Matthew Mitchell"
cc
bcc
Subject note regarding vol 9

Thanks, Matt. Also, on vol 9, just wanted to make you aware that the Table of Contents is definitely wrong. As you go through this one again, could you update the section/subsection titles and numbers in the TOC?

Thanks!

Lesley

Lesley Jantarasami
US EPA, Climate Change Division
Climate Science & Impacts Branch
202.343.9929
202.343.2202 (fax)
Jantarasami.Lesley@epa.gov

"Matthew Mitchell" Absolutely! Here goes: (b)(5) Deliberative 12/06/2009 08:04:30 PM

From: "Matthew Mitchell" <Matthew.Mitchell@erg.com>
To: Lesley Jantarasami/DC/USEPA/US@EPA
Cc: William Perkins/DC/USEPA/US@EPA
Date: 12/06/2009 08:04 PM
Subject: Re: Volume 6, second round

Absolutely! Here goes:

(b)(5) Deliberative
[Redacted]

Matthew N. Mitchell
ERG
110 Hartwell Avenue
Lexington, MA 02421-3136
(p) 781-674-7331
(f) 781-674-2851

>>> <Jantarasami.Lesley@epamail.epa.gov> 12/06/09 7:31 PM >>>
Thanks, Matt. Here is reference. Could you format it correctly for me?
I don't know the conventions we're using, and don't want to mess it up.
Thanks!

(b)(5) Deliberative
[Redacted]

(b)(5) Deliberative

|----->
| From: |
|----->

>-----

| "Matthew Mitchell" <Matthew.Mitchell@erg.com>
|

>-----

|----->
| To: |
|----->

>-----

| Lesley Jantarasami/DC/USEPA/US@EPA, William Perkins/DC/USEPA/US@EPA
|

>-----

|----->
| Cc: |
|----->

>-----

| "Mae Thomas" <Mae.Thomas@erg.com>, "Sue Eisenfeld" <Sue.Eisenfeld@erg.com>
|

>-----

|----->
| Date: |
|----->

>-----

| 12/06/2009 07:20 PM
|

>-----

|----->
| Subject: |
|----->

>-----

| Volume 6, second round
|

>-----

Attached please find Volume 6. I haven't had time to attach and edit Lesley's new foreword (doing that next); I have inserted Lesley's comment that needed adding. Note that it seems to cite a new reference, one we don't have.

Matthew N. Mitchell

ERG

110 Hartwell Avenue

Lexington, MA 02421-3136

(p) 781-674-7331

(f) 781-674-2851

[attachment "vol 6 second-round edited.doc" deleted by Lesley Jantarasami/DC/USEPA/US]

EPA-3150

Ben DeAngelo

04/06/2010 04:56 PM

To

cc

bcc

Subject UPLOAD C:\Documents and Settings\owner\My Documents\Endangerment\Response to Public Comments\moving from 10 to 11.doc

(b)(5) Deliberative

- moving from 10 to 11.doc

EPA-EF-005363

EPA-3151

Lesley
Jantarasami/DC/USEPA/US
12/06/2009 09:26 PM

To William Perkins
cc Ben DeAngelo, David Chalmers, Jason Samenow, Jeremy
Martinich, Marcus Sarofim, Rona Birnbaum
bcc
Subject Clean, edited, newest version of the Foreword!

Please replace your Forewords with this one.

(b)(5) Deliberative

CORRECT Revised Foreword CLEAN.doc

Lesley

Lesley Jantarasami
US EPA, Climate Change Division
Climate Science & Impacts Branch
202.343.9929
202.343.2202 (fax)
Jantarasami.Lesley@epa.gov

EPA-3152

Carol Holmes/DC/USEPA/US
12/06/2009 09:33 PM

To Lesley Jantarasami
cc Ben DeAngelo
bcc

Subject Re: here are 3 comments to be moved from vol 10 to vol 11

No. I think the first two comment summaries [redacted] (b)(5) Deliberative [redacted]

Comment (11-): ADD TO MISC
[redacted] (b)(5) Deliberative [redacted]

Comment (11-): ADD TO MISC
[redacted] (b)(5) Deliberative [redacted]

Comment (11-): ADD TO 11-24, last para under mobile sources
[redacted] (b)(5) Deliberative [redacted]

Confidential communication for internal deliberations only; Attorney-client, attorney work product and/or

enforcement privilege; Do not distribute outside EPA or DOJ

Carol S. Holmes
Office of General Counsel
U.S. Environmental Protection Agency
1200 Pennsylvania Ave, NW (MC 2344A)
Washington, DC 20460
Phone (202) 564-8709
Fax (202) 564-5603

Lesley Jantarasami Just want to confirm that you mean... 12/06/2009 09:21:57 PM

From: Lesley Jantarasami/DC/USEPA/US
To: Ben DeAngelo/DC/USEPA/US
Cc: Carol Holmes/DC/USEPA/US@EPA
Date: 12/06/2009 09:21 PM
Subject: Re: here are 3 comments to be moved from vol 10 to vol 11

Just want to confirm that you mean these to go into [REDACTED] **(b)(5) Deliberative**

Ben DeAngelo [attachment "moving from 10 to 11.doc"... 12/06/2009 08:09:46 PM

From: Ben DeAngelo/DC/USEPA/US
To: Lesley Jantarasami/DC/USEPA/US@EPA, Carol Holmes/DC/USEPA/US@EPA
Date: 12/06/2009 08:09 PM
Subject: here are 3 comments to be moved from vol 10 to vol 11

[attachment "moving from 10 to 11.doc" deleted by Lesley Jantarasami/DC/USEPA/US]

EPA-3153

Jason
Samenow/DC/USEPA/US
12/06/2009 09:39 PM

To Jeremy Martinich
cc
bcc
Subject health iqa comment

Comment (5-23):

(b)(5) Deliberative

Response (5-23):

(b)(5) Deliberative

EPA-3154

Lesley Jantarasami
04/01/2010 03:42 PM

To
cc
bcc

Subject UPGOAD F:\Endangerment\02_Comments and Responses\Stock Language\ed-CORRECT Revised Foreword.doc

(b)(5) Deliberative

- ed-CORRECT Revised Foreword.doc

EPA-3155

Lesley Jantarasami
04/01/2010 03:49 PM

To
cc
bcc

Subject UPGRADE C:\Documents and Settings\ljantara\My Documents\Endangerment\02_Comments and Responses\Stock Language\ed-CORRECT Revised Foreword.doc

(b)(5) Deliberative

- ed-CORRECT Revised Foreword.doc

EPA-3156

Lesley Jantarasami
04/01/2010 03:42 PM

To
cc
bcc

Subject UPGOAD F:\Endangerment\02_Comments and
Responses\Stock Language\CORRECT Revised Foreword
CLEAN.doc

(b)(5) Deliberative

- CORRECT Revised Foreword CLEAN.doc

EPA-3157

Lesley Jantarasami
04/01/2010 03:49 PM

To
cc
bcc

Subject UPGRADE C:\Documents and Settings\ljantara\My Documents\Endangerment\02_Comments and Responses\Stock Language\CORRECT Revised Foreword CLEAN.doc

(b)(5) Deliberative

 - CORRECT Revised Foreword CLEAN.doc

EPA-3158

Bill Irving/DC/USEPA/US

12/06/2009 10:29 PM

To Ben DeAngelo

cc BrianB Cook, Carol Holmes, Leif Hockstad, Dina Kruger, Rona Birnbaum

bcc

Subject Re: could you help with this comment? Why not IPCC emission estimates

Ben - the wireless in my laptop died and I have to do this on my BB, so I can't give you line edits.

-2nd para: note that (b)(5) Deliberative

(b)(5) Deliberative

-note that (b)(5) Deliberative

Some language was copied from my email before and isn't really official-sounding

(b)(5) Deliberative

(b)(5) Deliberative

Argument #3

(b)(5) Deliberative

Bill Irving

Sent by EPA Wireless E-Mail Services.

Ben DeAngelo

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

From: Ben DeAngelo

Sent: 12/05/2009 06:52 PM EST

To: Bill Irving

Cc: BrianB Cook; Carol Holmes; Leif Hockstad; Dina Kruger; Rona Birnbaum

Subject: Re: could you help with this comment? Why not IPCC emission estimates

Bill, thanks for the previous response. If you have any time this eve/tomorrow to take a second look at this. Here's the latest version of his comment/response building off what you provided:

Comment (10-15):

(b)(5) Deliberative

Response (10-15):

(b)(5) Deliberative

EPA-EF-005372

(b)(5) Deliberative

[Redacted]

[Redacted]

[Redacted]

Bill Irving Ben follow-up points for you specifically... 11/25/2009 04:52:29 PM

From: Bill Irving/DC/USEPA/US
To: BrianB Cook/DC/USEPA/US@EPA
Cc: Ben DeAngelo/DC/USEPA/US@EPA, Leif Hockstad/DC/USEPA/US@EPA, Carol Holmes/DC/USEPA/US@EPA
Date: 11/25/2009 04:52 PM
Subject: Re: could you help with this comment? Why not IPCC emission estimates

Ben

follow-up points for you specifically to consider if they are useful to respond to Carol's question, because I'm not sure that our answer addresses it completely. (b)(5) Deliberative

[Redacted]

1. (b)(5) Deliberative

2. [REDACTED] (b)(5) Deliberative

3. [REDACTED] (b)(5) Deliberative

Leif should probably check this over as well.

Bill

Chief - Program Integration Branch,
Climate Change Division , USEPA
tel +1 202 343-9065 - mobile +1 202 341 3384

BrianB Cook Thanks for your feedback Carol - I hop... 11/25/2009 02:50:14 PM

From: BrianB Cook/DC/USEPA/US
To: Carol Holmes/DC/USEPA/US@EPA
Cc: Ben DeAngelo/DC/USEPA/US@EPA, Bill Irving/DC/USEPA/US@EPA, Leif Hockstad/DC/USEPA/US@EPA
Date: 11/25/2009 02:50 PM
Subject: Re: could you help with this comment? Why not IPCC emission estimates

Thanks for your feedback Carol - I hope this response is better.

Ben, I'm not sure how you wanted to incorporate Carol's 2nd suggestion, I just added a sentence at the end of the response but that should definitely be reviewed.

- Brian

Response (10-15):

[REDACTED] (b)(5) Deliberative

[REDACTED]

(b)(5) Deliberative

[Redacted]

Carol Holmes Hey guys - (b)(5) Deliberative 11/25/2009 12:58:07 PM

From: Carol Holmes/DC/USEPA/US
To: BrianB Cook/DC/USEPA/US@EPA
Cc: Ben DeAngelo/DC/USEPA/US@EPA, Bill Irving/DC/USEPA/US@EPA, Leif Hockstad/DC/USEPA/US@EPA
Date: 11/25/2009 12:58 PM
Subject: Re: could you help with this comment? Why not IPCC emission estimates

Hey guys - (b)(5) Deliberative

(b)(5) Deliberative

- 1. (b)(5) Deliberative
- 2. (b)(5) Deliberative

THANKS

Confidential communication for internal deliberations only; Attorney-client, attorney work product and/or enforcement privilege; Do not distribute outside EPA or DOJ

Carol S. Holmes
Office of General Counsel
U.S. Environmental Protection Agency
1200 Pennsylvania Ave, NW (MC 2344A)
Washington, DC 20460
Phone (202) 564-8709
Fax (202) 564-5603

BrianB Cook Hey Ben - Leif is out the rest of this we... 11/25/2009 09:38:28 AM

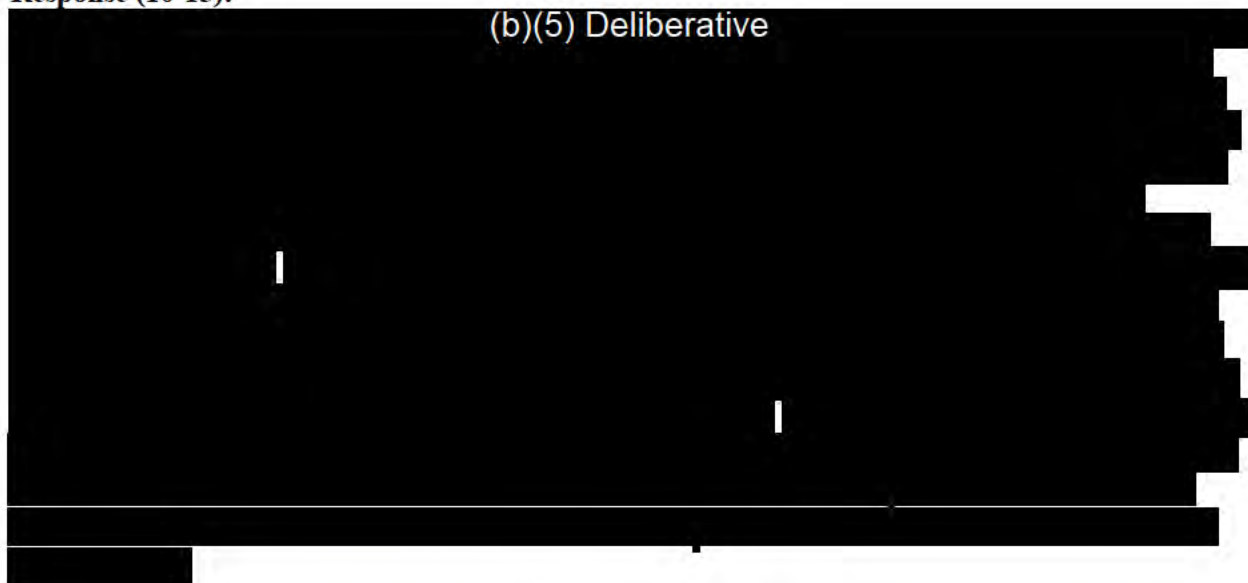
From: BrianB Cook/DC/USEPA/US
To: Ben DeAngelo/DC/USEPA/US@EPA
Cc: Bill Irving/DC/USEPA/US@EPA, Carol Holmes/DC/USEPA/US@EPA, Leif Hockstad/DC/USEPA/US@EPA
Date: 11/25/2009 09:38 AM
Subject: Re: could you help with this comment? Why not IPCC emission estimates

Hey Ben - Leif is out the rest of this week, but I think this updated response should be sufficient. Let me know if you think I should add more to it.

- Brian

Response (10-15):

(b)(5) Deliberative



Ben DeAngelo

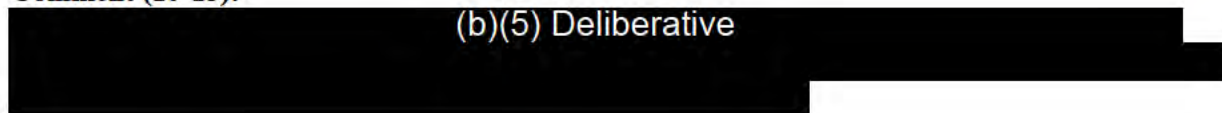
Comment (10-15): (b)(5) Deliberative

11/24/2009 09:25:39 PM

From: Ben DeAngelo/DC/USEPA/US
To: Leif Hockstad/DC/USEPA/US@EPA
Cc: Bill Irving/DC/USEPA/US@EPA, BrianB Cook/DC/USEPA/US@EPA, Carol Holmes/DC/USEPA/US@EPA
Date: 11/24/2009 09:25 PM
Subject: could you help with this comment? Why not IPCC emission estimates

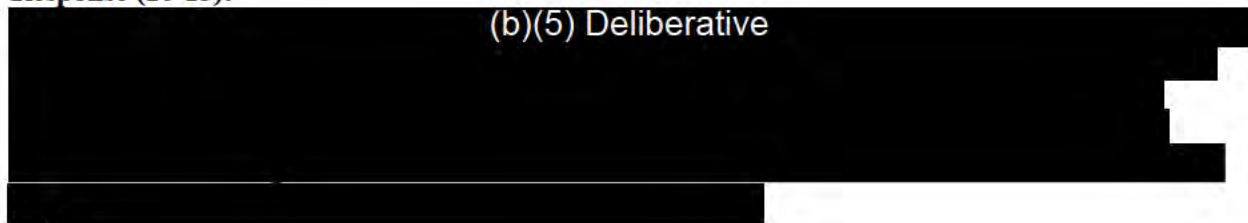
Comment (10-15):

(b)(5) Deliberative



Response (10-15):

(b)(5) Deliberative



EPA-3159

Lesley Jantarasami
04/01/2010 03:51 PM

To
cc
bcc

Subject UPGOAD C:\Documents and Settings\ljantara\My Documents\Endangerment\02_Comments and Responses\Vol 6 stuff\RTC draft Volume 6 Combined 12-06-09 + DINA.doc

(b)(5) Deliberative

- RTC draft Volume 6 Combined 12-06-09 + DINA.doc

EPA-EF-005377

EPA-3160

Lesley Jantarasami
04/01/2010 03:51 PM

To
cc
bcc

Subject UPGOAD C:\Documents and Settings\ljantara\My Documents\Endangerment\02_Comments and Responses\Vol 6 stuff\RTC draft Volume 6 Forestry Only 12-06-09 -jh1206.doc

(b)(5) Deliberative

- RTC draft Volume 6 Forestry Only 12-06-09 -jh1206.doc

EPA-EF-005378

EPA-3161

Lesley Jantarasami
04/01/2010 03:52 PM

To
cc
bcc

Subject UPGRADE C:\Documents and Settings\ljantara\My Documents\Endangerment\02_Comments and Responses\Vol 9 and 12 stuff\RTC draft Final Volume 11 12-06-09.doc

(b)(5) Deliberative

- RTC draft Final Volume 11 12-06-09.doc

EPA-EF-005379

EPA-3162

Jeremy
Martinich/DC/USEPA/US
12/06/2009 10:41 PM

To Rona Birnbaum
cc
bcc
Subject Re: you got this in earlier-right?

yes, got it.

Jeremy Martinich
USEPA, Climate Change Division
202-343-9871

Rona Birnbaum ----- Forwarded by Rona Birnbaum/DC/... 12/06/2009 10:35:09 PM

From: Rona Birnbaum/DC/USEPA/US
To: Jeremy Martinich/DC/USEPA/US@EPA
Date: 12/06/2009 10:35 PM
Subject: you got this in earlier-right?

----- Forwarded by Rona Birnbaum/DC/USEPA/US on 12/06/2009 10:35 PM -----

From: Dina Kruger/DC/USEPA/US
To: Jeremy Martinich/DC/USEPA/US@EPA, Rona Birnbaum/DC/USEPA/US@EPA
Cc: Jason Samenow/DC/USEPA/US@EPA
Date: 12/06/2009 06:13 PM
Subject:

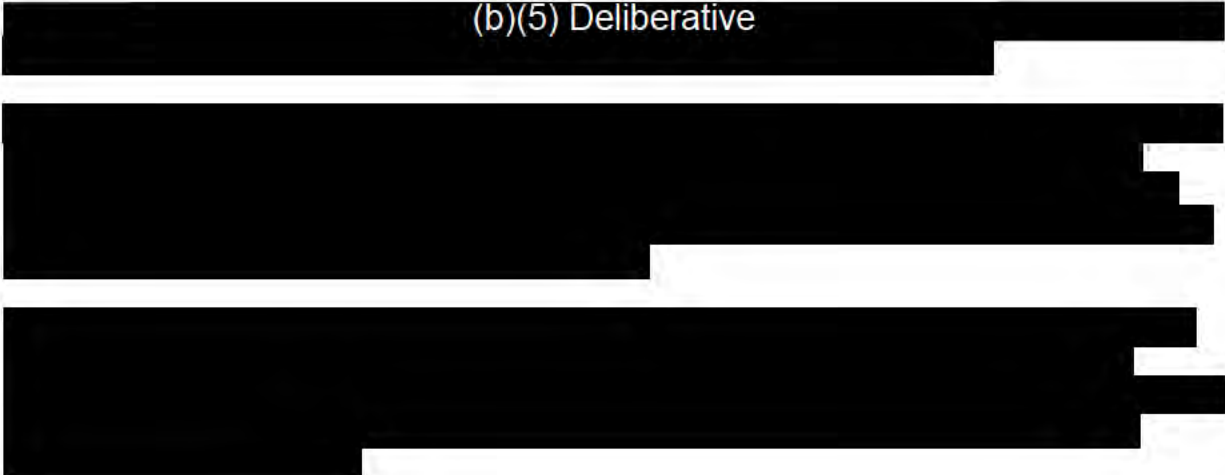
This is good -- my edits to the blue part are capitalized. (IPCC was already capitalized...)

Response (1-11):

(b)(5) Deliberative

[Redacted content]

(b)(5) Deliberative



Dina Kruger
Director, Climate Change Division
USEPA

202-343-9039 (phone)
202-343-2290 (fax)

EPA-3163

Ben DeAngelo/DC/USEPA/US

12/06/2009 11:04 PM

To William Perkins

cc Lesley Jantarasami, Rona Birnbaum

bcc

Subject vol 10 complete

I made all final edits. Carol, John, and Dina are signed off on this (and Rona, incorporated last comments I just got from Bill I.). Incorporated foreword from Lesley.

I added page numbers to this very short table of contents, though someone or ERG may want to make the look consistent across volumes if there's time.

At some point, the "Draft, deliberative..." headers should be taken off all volumes.

Let me know if I need to clarify anything. Thanks!

-Ben

Benjamin J. DeAngelo
Climate Change Division, Office of Atmospheric Programs
U.S. Environmental Protection Agency
1200 Pennsylvania Ave., NW (6207J)
Washington, DC 20460

Tel: +1 202-343-9107

Fax: +1 202-343-2202

deangelo.ben@epa.gov

-----William Perkins/DC/USEPA/US wrote: -----

To: Jason Samenow/DC/USEPA/US@EPA
From: William Perkins/DC/USEPA/US
Date: 12/06/2009 07:12PM
cc: Ben DeAngelo/DC/USEPA/US@EPA, David Chalmers/DC/USEPA/US@EPA, Jeremy Martinich/DC/USEPA/US@EPA, Lesley Jantarasami/DC/USEPA/US@EPA, Marcus Sarofim/DC/USEPA/US@EPA, Rona Birnbaum/DC/USEPA/US@EPA
Subject: Re: Apologies - I messed up with version

All,

Sorry if this is redundant, but I believe that what Rona noted was that ERG is currently copyediting a NEW version of the foreword (in fact, Lesley just sent that to ERG) to fix the capitalization/punctuation issues and then Rona would send around to everyone a NEW version of the Foreword to paste in their Volumes. So no one needs to edit their Foreword, in fact, you can just delete the text for now to remind you to paste in the new one when Rona sends it.

Cheers,

Bill

Bill Perkins
Climate Change Adaptation Analyst
Climate Science and Impacts Branch

EPA-EF-005382

Climate Change Division
U.S. Environmental Protection Agency
perkins.william@epa.gov
(O) 202.343.9460
(F) 202.343.2202
(C) (b)(6)

Jason Samenow---12/06/2009 07:08:01 PM---note-- in the forward in Vol 5 I had, proposed findings were NOT capitalized contrary to the guidanc

From: Jason Samenow/DC/USEPA/US
To: Rona Birnbaum/DC/USEPA/US@EPA
Cc: Ben DeAngelo/DC/USEPA/US@EPA, David Chalmers/DC/USEPA/US@EPA, Jeremy Martinich/DC/USEPA/US@EPA, Lesley Jantarasami/DC/USEPA/US@EPA, Marcus Sarofim/DC/USEPA/US@EPA, Rona Birnbaum/DC/USEPA/US@EPA, William Perkins/DC/USEPA/US@EPA
Date: 12/06/2009 07:08 PM
Subject: Re: Apologies - I messed up with version

note-- in the forward in Vol 5 I had, proposed findings were NOT capitalized contrary to the guidance bill just sent around. So that should be a universal change for the Forewards.

Rona Birnbaum---12/06/2009 06:59:33 PM---so sorry, I grabbed the Foreword that was a few hours earlier than the one that included a few other

From: Rona Birnbaum/DC/USEPA/US
To: Rona Birnbaum/DC/USEPA/US@EPA
Cc: Ben DeAngelo/DC/USEPA/US@EPA, David Chalmers/DC/USEPA/US@EPA, Jason Samenow/DC/USEPA/US@EPA, Jeremy Martinich/DC/USEPA/US@EPA, Lesley Jantarasami/DC/USEPA/US@EPA, Marcus Sarofim/DC/USEPA/US@EPA, William Perkins/DC/USEPA/US@EPA
Date: 12/06/2009 06:59 PM
Subject: Apologies - I messed up with version

so sorry, I grabbed the Foreword that was a few hours earlier than the one that included a few other important changes to the Foreword. Bill, Lesley and I just agreed that the Foreword needs to go to ERG anyway. So, please expect to get ONE more and FINAL (I swear) version of the Foreword from either Lesley or me this evening after ERG edits. That version will have all of the changes just made in it. Thanks and sorry about that. :-)

Rona Birnbaum--12/06/2009 05:59:33 PM--1. please make this change in the Foreword in ALL Volumes. It involves deleting one sentence and I

From: Rona Birnbaum/DC/USEPA/US

To: Jason Samenow/DC/USEPA/US@EPA, Ben DeAngelo/DC/USEPA/US@EPA, Lesley Jantarasami/DC/USEPA/US@EPA, Jeremy Martinich/DC/USEPA/US@EPA, David Chalmers/DC/USEPA/US@EPA, Marcus Sarofim/DC/USEPA/US@EPA, William Perkins/DC/USEPA/US@EPA

Date: 12/06/2009 05:59 PM

Subject: Change to stock language

1. please make this change in the Foreword in ALL Volumes. It involves deleting one sentence and I also caught a small typo.

[attachment "REVISED FOREWORD.doc" deleted by Rona Birnbaum/DC/USEPA/US]

2. **Please do a search in your volume** to ensure that all Responses are consistent with #1 above.

3. **Please do a search in your volume** for (b)(5) Deliberative

(b)(5) Deliberative

RTC draft Volume 10 Cause or Contribute 120609 BJD2.doc

EPA-3164

Ben DeAngelo

04/06/2010 04:56 PM

To

cc

bcc

Subject UPLOADED C:\Documents and Settings\owner\My Documents\Endangerment\Response to Public Comments\CORRECT Revised Foreword CLEAN.doc

(b)(5) Deliberative

- CORRECT Revised Foreword CLEAN.doc

EPA-EF-005385

EPA-3165

William
Perkins/DC/USEPA/US
12/06/2009 11:18 PM

To Ben DeAngelo
cc Rona Birnbaum, Lesley Jantarasami
bcc
Subject Fw: Vol 9 Merge Issue Resolved

Ben,

Please check this to confirm that this is good real quick in case we need ERG to open up the patient's chest cavity again tonight. Thank you sir.

Cheers,

Bill

Bill Perkins
Climate Change Adaptation Analyst
Climate Science and Impacts Branch
Climate Change Division
U.S. Environmental Protection Agency
perkins.william@epa.gov
(O) 202.343.9460
(F) 202.343.2202
(C) (b)(6)

----- Forwarded by William Perkins/DC/USEPA/US on 12/06/2009 11:18 PM -----

From: "Jody Tisano" <Jody.Tisano@erg.com>
To: William Perkins/DC/USEPA/US@EPA
Cc: "Jason Renzaglia" <Jason.Renzaglia@erg.com>, "Mae Thomas" <Mae.Thomas@erg.com>, "Matthew Mitchell" <Matthew.Mitchell@erg.com>
Date: 12/06/2009 11:16 PM
Subject: Vol 9 Merge Issue Resolved

Hi Bill,

Here is Volume 9 with everyone's edits and their track changes (ERG and EPA combined). We have also updated the section/subsection titles and numbers in the TOC per Lesley's email sent to Matt 12/6/2009 8:42 PM.

Jody

Jody Tisano
ERG
1600 Perimeter Park
Morrisville, NC 27560
(919) 468-7900
E-mail: Jody.Tisano@erg.com

(b)(5) Deliberative

vol 9 first-round edited EVERYONE's EDITS.doc

EPA-EF-005386

EPA-3166

Lesley Jantarasami
04/01/2010 03:51 PM

To
cc
bcc

Subject UPGOAD C:\Documents and Settings\ljantara\My Documents\Endangerment\02_Comments and Responses\Vol 6 stuff\RTC draft Final Volume 6 12-06-09.doc

(b)(5) Deliberative

- RTC draft Final Volume 6 12-06-09.doc

EPA-EF-005387

EPA-3167

William
Perkins/DC/USEPA/US
12/06/2009 11:44 PM

To Carole Cook
cc "DeLoose, Christopher", Erin Birgfeld, "Tuberson, Kyle",
Mausami Desai, (b)(6), "Stambaugh, Sandi", Stacy Kika
bcc
Subject Update on endangerment staging

Chris, Kyle, and Sandi,

It looks like, (b)(5) Deliberative
However, we should have most or all of the 11 Response to Comment volumes and the Technical Support Document waiting in your inbox first thing in the morning (I believe that you are coming in at 6 a.m.).

What I will be sending you is a Word document for each that we would like you to PDF and then link appropriately. Please be prepared for a blizzard of quick turnarounds tomorrow morning. We should have everything, finalized, up on the staging server absolutely no later than 11 a.m. or so barring a major holdup.

Thank you and please contact me if you have any questions.

Cheers,

Bill

Bill Perkins
Climate Change Adaptation Analyst
Climate Science and Impacts Branch
Climate Change Division
U.S. Environmental Protection Agency
perkins.william@epa.gov
(O) 202.343.9460
(F) 202.343.2202
(C) (b)(6)

Carole Cook

12/06/2009 07:38:58 PM

From: Carole Cook/DC/USEPA/US
To: Erin Birgfeld/DC/USEPA/US@EPA
Cc: "Tuberson, Kyle" <KTuberson@icfi.com>, "DeLoose, Christopher" <CDeLoose@icfi.com>, Mausami Desai/DC/USEPA/US@EPA, (b)(6), "Stambaugh, Sandi" <SStambaugh@icfi.com>, Stacy Kika/DC/USEPA/US@EPA, William Perkins/DC/USEPA/US@EPA
Date: 12/06/2009 07:38 PM
Subject: RE: Endangerment web edits-I'm on now-Carole(eom)

EPA-EF-005388

EPA-3168

**Rona
Birnbaum/DC/USEPA/US**
12/06/2009 11:52 PM

To **Jeremy Martinich**
cc
bcc

Subject **Re: Fw: USE THIS ONE: Final Version of 1.1.1 (response to literature submitted)**

yes, looks good!

Jeremy Martinich **Comment (1-1): A large number of c...** 12/06/2009 11:41:05 PM

From: **Jeremy Martinich/DC/USEPA/US**
To: **Rona Birnbaum/DC/USEPA/US@EPA**
Date: **12/06/2009 11:41 PM**
Subject: **Fw: USE THIS ONE: Final Version of 1.1.1 (response to literature submitted)**

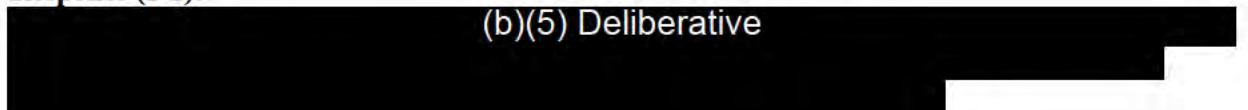
Comment (1-1):

(b)(5) Deliberative

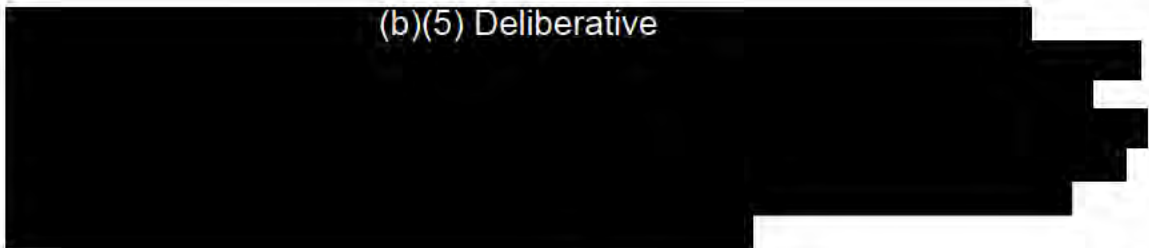


Response (1-1):

(b)(5) Deliberative



(b)(5) Deliberative



Jeremy Martinich
USEPA, Climate Change Division
202-343-9871

EPA-3169

Ben DeAngelo

04/06/2010 04:56 PM

To

cc

bcc

Subject UPLOAD C:\Documents and Settings\owner\My Documents\Endangerment\Response to Public Comments\RTC draft Volume 10 Cause or Contribute 120609 BJD.doc

(b)(5) Deliberative

RTC draft Volume 10 Cause or Contribute 120609 BJD.doc

EPA-EF-005391

EPA-3170

Lesley Jantarasami
04/01/2010 03:51 PM

To
cc
bcc

Subject UPGRADE C:\Documents and Settings\ljantara\My Documents\Endangerment\02_Comments and Responses\Vol 6 stuff\RTC draft Final Volume 6 12-06-09 clean.doc

(b)(5) Deliberative

TC draft Final Volume 6 12-06-09 clean.doc

EPA-3171

Ben DeAngelo

(b)(6)

12/06/2009 11:58 PM

To William Perkins

cc Rona Birnbaum, Lesley Jantarasami, Ben DeAngelo

bcc

Subject Fwd: Fw: Vol 9 Merge Issue Resolved

Bill,

(b)(5) Deliberative

Let me know if this works.

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

From: <DeAngelo.Ben@epamail.epa.gov>

Date: Sun, Dec 6, 2009 at 11:22 PM

Subject: Fw: Vol 9 Merge Issue Resolved

To: (b)(6) Ben DeAngelo

Benjamin DeAngelo

Sent by EPA Wireless

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

From: William Perkins

Sent: 12/06/2009 11:18 PM EST

To: Ben DeAngelo

Cc: Rona Birnbaum; Lesley Jantarasami

Subject: Fw: Vol 9 Merge Issue Resolved

Ben,

Please check this to confirm that this is good real quick in case we need ERG to open up the patient's chest cavity again tonight. Thank you sir.

Cheers,

Bill

Bill Perkins

Climate Change Adaptation Analyst

EPA-EF-005393

Climate Science and Impacts Branch
Climate Change Division
U.S. Environmental Protection Agency
perkins.william@epa.gov

(O) 202.343.9460

(F) 202.343.2202

(C) (b)(6)

----- Forwarded by William Perkins/DC/USEPA/US on 12/06/2009 11:18 PM

From: "Jody Tisano" <Jody.Tisano@erg.com>

To: William Perkins/DC/USEPA/US@EPA

Cc: "Jason Renzaglia" <Jason.Renzaglia@erg.com>, "Mae Thomas" <Mae.Thomas@erg.com>, "Matthew Mitchell" <Matthew.Mitchell@erg.com>

Date: 12/06/2009 11:16 PM

Subject: Vol 9 Merge Issue Resolved

Hi Bill,

Here is Volume 9 (b)(5) Deliberative

Jody

Jody Tisano
ERG
1600 Perimeter Park
Morrisville, NC 27560
(919) 468-7900
E-mail: Jody.Tisano@erg.com

(See attached file: vol 9 first-round edited_EVERYONE's EDITS.doc)

(b)(5) Deliberative

RTC draft Volume 9 120609+DINA.doc

EPA-3172

Ben DeAngelo

04/06/2010 04:56 PM

To

cc

bcc

Subject UPGOAD C:\Documents and Settings\owner\My Documents\Endangerment\Response to Public Comments\RTC draft Volume 10 Cause or Contribute 120609 BJD2.doc

(b)(5) Deliberative

RTC draft Volume 10 Cause or Contribute 120609 BJD2.doc

EPA-EF-005396

EPA-3173

Lesley Jantarasami
04/01/2010 03:45 PM

To
cc
bcc

Subject UPGOAD C:\Documents and Settings\ljantara\My
Documents\Endangerment\01_Full Doc\Review
Volumes\RTC draft Volume 10 Cause or Contribute 120609
BJD2.doc

(b)(5) Deliberative

RTC draft Volume 10 Cause or Contribute 120609 BJD2.doc

EPA-EF-005397

EPA-3174

William
Perkins/DC/USEPA/US
12/07/2009 12:10 AM

To Ben DeAngelo
cc Ben DeAngelo, Lesley Jantarasami, Rona Birnbaum
bcc

Subject Re: Fwd: Fw: Vol 9 Merge Issue Resolved

Rona and Lesley,

I just talked through this with Ben on the phone. The bottom line is that (b)(5) Deliberative

Cheers,

Bill

Bill Perkins
Climate Change Adaptation Analyst
Climate Science and Impacts Branch
Climate Change Division
U.S. Environmental Protection Agency
perkins.william@epa.gov
(O) 202.343.9460
(F) 202.343.2202
(C) (b)(6)

Ben DeAngelo Bill, (b)(5) Deliberative 12/06/2009 11:58:38 PM

From: Ben DeAngelo (b)(6) >
To: William Perkins/DC/USEPA/US@EPA
Cc: Rona Birnbaum/DC/USEPA/US@EPA, Lesley Jantarasami/DC/USEPA/US@EPA, Ben DeAngelo/DC/USEPA/US@EPA
Date: 12/06/2009 11:58 PM
Subject: Fwd: Fw: Vol 9 Merge Issue Resolved

Bill, (b)(5) Deliberative

Let me know if this works.

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

From: <DeAngelo.Ben@epamail.epa.gov>
Date: Sun, Dec 6, 2009 at 11:22 PM
Subject: Fw: Vol 9 Merge Issue Resolved
To: (b)(6) Ben DeAngelo

EPA-EF-005398

Benjamin DeAngelo
Sent by EPA Wireless

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

From: William Perkins
Sent: 12/06/2009 11:18 PM EST
To: Ben DeAngelo
Cc: Rona Birnbaum; Lesley Jantarasami
Subject: Fw: Vol 9 Merge Issue Resolved

Ben,

Please check this to confirm that this is good real quick in case we need ERG to open up the patient's chest cavity again tonight. Thank you sir.

Cheers,

Bill

Bill Perkins
Climate Change Adaptation Analyst
Climate Science and Impacts Branch
Climate Change Division
U.S. Environmental Protection Agency
perkins.william@epa.gov
(O) 202.343.9460
(F) 202.343.2202
(C) (b)(6)

----- Forwarded by William Perkins/DC/USEPA/US on 12/06/2009 11:18 PM

From: "Jody Tisano" <Jody.Tisano@erg.com>
To: William Perkins/DC/USEPA/US@EPA
Cc: "Jason Renzaglia" <Jason.Renzaglia@erg.com>, "Mae Thomas" <Mae.Thomas@erg.com>, "Matthew Mitchell" <Matthew.Mitchell@erg.com>

Date: 12/06/2009 11:16 PM

Subject: Vol 9 Merge Issue Resolved

EPA-EF-005399

Hi Bill,

Here is Volume 9 [REDACTED] (b)(5) Deliberative

Jody

Jody Tisano
ERG
1600 Perimeter Park
Morrisville, NC 27560
(919) 468-7900
E-mail: Jody.Tisano@erg.com

(See attached file: vol 9 first-round edited _EVERYONE's EDITS.doc)

EPA-3175

**William
Perkins/DC/USEPA/US**
12/07/2009 12:21 AM

To Mae Thomas
cc Lesley Jantarasami
bcc
Subject Volume 9 for original copyediting

Mae,

As discussed. Thank you.

Cheers,

Bill

(b)(5) Deliberative

RTC draft Volume 9 120609+DINA.doc

Bill Perkins
Climate Change Adaptation Analyst
Climate Science and Impacts Branch
Climate Change Division
U.S. Environmental Protection Agency
perkins.william@epa.gov
(O) 202.343.9460
(F) 202.343.2202
(C) (b)(6)

EPA-EF-005401


EPA-3176

Ben DeAngelo
(b)(6) >
12/07/2009 12:22 AM

To Jason Samenow
cc
bcc
Subject Re: one more to look at...

Am responding to this one first...

(b)(5) Deliberative



On Sun, Dec 6, 2009 at 11:58 PM, <Samenow.Jason@epamail.epa.gov> wrote:

Note the (b)(5) Deliberative



Comment

(b)(5) Deliberative


(b)(5) Deliberative




Response

(b)(5) Deliberative

(b)(5) Deliberative



(b)(5) Deliberative



EPA-3177

Ben DeAngelo
(b)(6) >
12/07/2009 12:25 AM

To Jason Samenow
cc
bcc
Subject Re: comment/response to look at

(b)(5) Deliberative

(b)(5) Deliberative

On Sun, Dec 6, 2009 at 11:56 PM, <Samenow.Jason@epamail.epa.gov> wrote:

Comment (b)(5) Deliberative

(b)(5) Deliberative

(b)(5) Deliberative

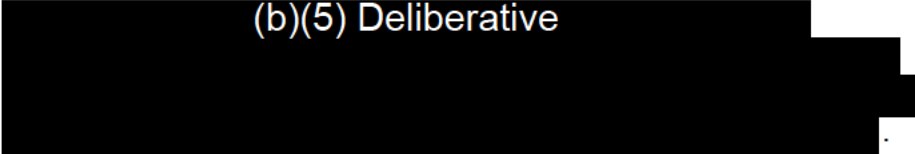
(b)(5) Deliberative

Response (b)(5) Deliberative:


(b)(5) Deliberative

(b)(5) Deliberative

(b)(5) Deliberative

A large black rectangular redaction covers the majority of the text in this section. The text "(b)(5) Deliberative" is visible at the top left of the redacted area.

(b)(5) Deliberative

A large black rectangular redaction covers the majority of the text in this section. The text "(b)(5) Deliberative" is visible at the top left of the redacted area.

EPA-3178

Jason
Samenow/DC/USEPA/US
12/07/2009 12:25 AM

To Marcus Sarofim
cc
bcc
Subject Fw: vol 2 for Jason

here you go...

Jason

----- Forwarded by Jason Samenow/DC/USEPA/US on 12/07/2009 12:25 AM -----

From: "Matthew Mitchell" <Matthew.Mitchell@erg.com>
To: William Perkins/DC/USEPA/US@EPA, "Mae Thomas" <Mae.Thomas@erg.com>, "Sue Eisenfeld" <Sue.Eisenfeld@erg.com>
Cc: Jason Samenow/DC/USEPA/US@EPA
Date: 12/07/2009 12:18 AM
Subject: Re: vol 2 for Jason

Hi Jason--

I believe I've addressed the issues you identified. I hope this all looks OK to you!

Matthew N. Mitchell
ERG
110 Hartwell Avenue
Lexington, MA 02421-3136
(p) 781-674-7331
(f) 781-674-2851
>>> <Perkins.William@epamail.epa.gov> 12/06/09 6:23 PM >>>

Matt, Sue, and Mae,

As I emailed about earlier, here is the additional work that we need completed on Volume 2 (enclosed).

(b)(5) Deliberative

Jason Samenow is the POC for this at 202.343.9327.

Finally, your team is doing a really great job on this and this will all be complete in the next few hours.

Thank you.

Cheers,

Bill

(b)(5) Deliberative

EPA-EF-005407

look then please call Jason.

Bill Perkins
Climate Change Adaptation Analyst
Climate Science and Impacts Branch
Climate Change Division
U.S. Environmental Protection Agency
perkins.william@epa.gov
(O) 202.343.9460
(F) 202.343.2202
(C) (b)(6)

----- Forwarded by William Perkins/DC/USEPA/US on 12/06/2009 06:16 PM

From: Jason Samenow/DC/USEPA/US

To: William Perkins/DC/USEPA/US@EPA

Date: 12/06/2009 06:15 PM

Subject: Fw: requests for ERG on vol 2

(b)(5) Deliberative [Redacted]

[Redacted]

(b)(5) Deliberative [Redacted]

[Redacted]

[Redacted]

(b)(5) Deliberative

----- Forwarded by Jason Samenow/DC/USEPA/US on 12/06/2009 05:46 PM

From: Jason Samenow/DC/USEPA/US

Date: 12/06/2009 05:24 PM

Subject: requests for ERG on vol 2

Instructions for ERG on Volume 2:

- 1) (b)(5) Deliberative
- 2) (b)(5) Deliberative
- 3) (b)(5) Deliberative
- 4) (b)(5) Deliberative

Thanks so much...
Jason

Comment:
(b)(5) Deliberative

Response:
(b)(5) Deliberative

(b)(5) Deliberative
[Redacted]

(b)(5) Deliberative
[Redacted]

Comment:
(b)(5) Deliberative
[Redacted]

Response:
(b)(5) Deliberative
[Redacted]

[Redacted]

(b)(5) Deliberative
[Redacted]

ed2-vol 2 120709.doc

EPA-3179

William
Perkins/DC/USEPA/US
12/07/2009 12:25 AM

To Lesley Jantarasami
cc
bcc
Subject Fw: volume 10

Bill Perkins
Climate Change Adaptation Analyst
Climate Science and Impacts Branch
Climate Change Division
U.S. Environmental Protection Agency
perkins.william@epa.gov
(O) 202.343.9460
(F) 202.343.2202
(C) (b)(6)

----- Forwarded by William Perkins/DC/USEPA/US on 12/07/2009 12:25 AM -----

From: William Perkins/DC/USEPA/US
To: Lesley Jantarasami/DC/USEPA/US@EPA
Date: 12/07/2009 12:24 AM
Subject: Fw: volume 10

Bill Perkins
Climate Change Adaptation Analyst
Climate Science and Impacts Branch
Climate Change Division
U.S. Environmental Protection Agency
perkins.william@epa.gov
(O) 202.343.9460
(F) 202.343.2202
(C) (b)(6)

----- Forwarded by William Perkins/DC/USEPA/US on 12/07/2009 12:24 AM -----

From: "Matthew Mitchell" <Matthew.Mitchell@erg.com>
To: Lesley Jantarasami/DC/USEPA/US@EPA, William Perkins/DC/USEPA/US@EPA
Cc: "Mae Thomas" <Mae.Thomas@erg.com>, "Sue Eisenfeld" <Sue.Eisenfeld@erg.com>
Date: 12/06/2009 03:02 PM
Subject: volume 10

Here's the second-round edit of Volume 10. Please let me know if you have any questions! Today, I'm still best reachable by cell phone: (b)(6) .

Matthew N. Mitchell
ERG
110 Hartwell Avenue
Lexington, MA 02421-3136
(p) 781-674-7331
(f) 781-674-2851
(b)(5) Deliberative

vol 10 second-round edited.doc

EPA-EF-005411

EPA-3180

Marcus
Sarofim/DC/USEPA/US
12/07/2009 12:38 AM

To Lesley Jantarasami
cc
bcc

Subject Volume 3 for page numbering?

(b)(5) Deliberative

vol 3 second-round edited-mcs.doc

I failed at getting page numbers to do my bidding. Hopefully I didn't screw up the formatting so much that it makes your life difficult... but could you do your page numbering magic for me on this? Thanks!

-Marcus

EPA-3181

Ben DeAngelo

04/06/2010 04:57 PM

To

cc

bcc

Subject UPGOAD C:\Documents and Settings\owner\My Documents\Endangerment\Response to Public Comments\vol 9 first-round edited_EVERYONE's EDITS.doc

(b)(5) Deliberative

vol 9 first-round edited_EVERYONE's EDITS.doc

EPA-3182

Ben DeAngelo

04/06/2010 04:56 PM

To

cc

bcc

Subject UPGOAD C:\Documents and Settings\owner\My Documents\Endangerment\Response to Public Comments\RTC draft Volume 9 120509 BJD -jh1206.doc

(b)(5) Deliberative

RTC draft Volume 9 120509 BJD -jh1206.doc

EPA-3183

Lesley
Jantarasami/DC/USEPA/US
12/07/2009 01:01 AM

To Marcus Sarofim
cc
bcc

Subject Re: Volume 3 for page numbering?

Here ya go!

(b)(5) Deliberative

vol 3 second-round edited-mcs LJ.doc

Marcus Sarofim | I failed at getting page numbers to do... 12/07/2009 12:38:05 AM

From: Marcus Sarofim/DC/USEPA/US
To: Lesley Jantarasami/DC/USEPA/US@EPA
Date: 12/07/2009 12:38 AM
Subject: Volume 3 for page numbering?

[attachment "vol 3 second-round edited-mcs.doc" deleted by Lesley Jantarasami/DC/USEPA/US]

I failed at getting page numbers to do my bidding. Hopefully I didn't screw up the formatting so much that it makes your life difficult... but could you do your page numbering magic for me on this? Thanks!

-Marcus

EPA-3184

**Marcus
Sarofim/DC/USEPA/US**
12/07/2009 01:02 AM

To Lesley Jantarasami
cc
bcc
Subject Re: Volume 3 for page numbering?

Yay, thank you!

Marcus C. Sarofim, PhD
phone: 202-343-9993
fax: 202-343-2202
1310 L Street 256C
AAAS Science & Technology Policy Fellow
with the EPA Climate Division

Lesley Jantarasami [Here ya go!](#) 12/07/2009 01:01:23 AM

From: Lesley Jantarasami/DC/USEPA/US
To: Marcus Sarofim/DC/USEPA/US@EPA
Date: 12/07/2009 01:01 AM
Subject: Re: Volume 3 for page numbering?

Here ya go!

[attachment "vol 3 second-round edited-mcs LJ.doc" deleted by Marcus Sarofim/DC/USEPA/US]

Marcus Sarofim [I failed at getting page numbers to do...](#) 12/07/2009 12:38:05 AM

From: Marcus Sarofim/DC/USEPA/US
To: Lesley Jantarasami/DC/USEPA/US@EPA
Date: 12/07/2009 12:38 AM
Subject: Volume 3 for page numbering?

[attachment "vol 3 second-round edited-mcs.doc" deleted by Lesley Jantarasami/DC/USEPA/US]

I failed at getting page numbers to do my bidding. Hopefully I didn't screw up the formatting so much that it makes your life difficult... but could you do your page numbering magic for me on this? Thanks!

-Marcus

EPA-EF-005416

EPA-3185

Jason
Samenow/DC/USEPA/US
12/07/2009 01:09 AM

To Lesley Jantarasami
cc
bcc
Subject vol 5

(b)(5) Deliberative

vol 5 120709.doc

EPA-3186

Lesley Jantarasami
04/01/2010 03:51 PM

To
cc
bcc

Subject UPLOAD C:\Documents and Settings\ljantara\My Documents\Endangerment\02_Comments and Responses\Vol 6 stuff\Comment 6-34.doc

(b)(5) Deliberative

omment 6-34.doc

EPA-3187

Jeremy Martinich
04/01/2010 01:28 PM

To
cc
bcc

Subject UPLoad
G:\CCD\CSIB\Martinich\Endangerment\Endangerment\Com
ment Sections\Final versions\Volumes\RTC draft Volume 1
General TSD Approach 12-6-09 TRACK.doc

(b)(5) Deliberative

RTC draft Volume 1 General TSD Approach 12-6-09 TRACK.doc

EPA-EF-005419

EPA-3188

William
Perkins/DC/USEPA/US
12/07/2009 01:19 AM

To Lesley Jantarasami
cc Marcus Sarofim
bcc

Subject Fw: Volume 3, ready for staging... I think...

Marcus: Thank you, (b)(5) Deliberative Lesley has some magic that she is performing on the volumes to make the page numbers correct and a couple other things and then we'll give this little guy to ICF for them to post (b)(5) Deliberative

Lesley: Whenever you work your magic we can send to ICF.

Cheers,

Bill

Bill Perkins
Climate Change Adaptation Analyst
Climate Science and Impacts Branch
Climate Change Division
U.S. Environmental Protection Agency
perkins.william@epa.gov
(O) 202.343.9460
(F) 202.343.2202
(C) (b)(6)

----- Forwarded by William Perkins/DC/USEPA/US on 12/07/2009 01:17 AM -----

From: Marcus Sarofim/DC/USEPA/US
To: William Perkins/DC/USEPA/US@EPA
Date: 12/07/2009 01:09 AM
Subject: Volume 3, ready for staging... I think...

(b)(5) Deliberative

vol 3 second-round edited-mcs LJ.doc

(b)(5) Deliberative

Marcus C. Sarofim, PhD
phone: 202-343-9993
fax: 202-343-2202
1310 L Street 256C
AAAS Science & Technology Policy Fellow
with the EPA Climate Division

EPA-EF-005420

EPA-3189

William
Perkins/DC/USEPA/US
12/07/2009 01:21 AM

To Lesley Jantarasami
cc Marcus Sarofim
bcc

Subject Re: Fw: Volume 3, ready for staging... I think...

Awesome!

(b)(5) Deliberative

Bill Perkins
Climate Change Adaptation Analyst
Climate Science and Impacts Branch
Climate Change Division
U.S. Environmental Protection Agency
perkins.william@epa.gov
(O) 202.343.9460
(F) 202.343.2202
(C) (b)(6)

Lesley Jantarasami my magic has already been incorp... 12/07/2009 01:20:01 AM

From: Lesley Jantarasami/DC/USEPA/US
To: William Perkins/DC/USEPA/US@EPA
Cc: Marcus Sarofim/DC/USEPA/US@EPA
Date: 12/07/2009 01:20 AM
Subject: Re: Fw: Volume 3, ready for staging... I think...

my magic has already been incorporated!

William Perkins Marcus: Thank you, (b)(5) Deliberative 12/07/2009 01:19:06 AM

From: William Perkins/DC/USEPA/US
To: Lesley Jantarasami/DC/USEPA/US@EPA
Cc: Marcus Sarofim/DC/USEPA/US@EPA
Date: 12/07/2009 01:19 AM
Subject: Fw: Volume 3, ready for staging... I think...

Marcus: Thank you, (b)(5) Deliberative Lesley has some magic that she is performing on the volumes to make the page numbers correct and a couple other things and then we'll give this little guy to ICF for them to post (b)(5) Deliberative

Lesley: Whenever you work your magic we can send to ICF.

Cheers,

Bill

Bill Perkins
Climate Change Adaptation Analyst
Climate Science and Impacts Branch
Climate Change Division
U.S. Environmental Protection Agency

EPA-EF-005421

perkins.william@epa.gov

(O) 202.343.9460

(F) 202.343.2202

(C) (b)(6)

----- Forwarded by William Perkins/DC/USEPA/US on 12/07/2009 01:17 AM -----

From: Marcus Sarofim/DC/USEPA/US
To: William Perkins/DC/USEPA/US@EPA
Date: 12/07/2009 01:09 AM
Subject: Volume 3, ready for staging... I think...

[attachment "vol 3 second-round edited-mcs LJ.doc" deleted by Lesley Jantarasami/DC/USEPA/US]

(b)(5) Deliberative

Marcus C. Sarofim, PhD
phone: 202-343-9993
fax: 202-343-2202
1310 L Street 256C
AAAS Science & Technology Policy Fellow
with the EPA Climate Division

EPA-3190

Ben DeAngelo

04/06/2010 04:56 PM

To

cc

bcc

Subject UPGRADE C:\Documents and Settings\owner\My Documents\Endangerment\Response to Public Comments\Higuera_2535.pdf



- Higuera_2535.pdf

Available at <http://www.esajournals.org/doi/pdf/10.1890/07-2019.1>

EPA-3191

Jeremy Martinich
04/01/2010 01:28 PM

To
cc
bcc

Subject UPGLOAD
G:\CCD\CSIB\Martinich\Endangerment\Endangerment\Com
ment Sections\Final versions\Volumes\RTC Volume 1
General TSD Approach 12-6-09.doc

(b)(5) Deliberative

RTC Volume 1 General TSD Approach 12-6-09.doc

EPA-3192

Lesley Jantarasami
04/01/2010 03:45 PM

To
cc
bcc

Subject UPGRADE C:\Documents and Settings\ljantara\My Documents\Endangerment\01_Full Doc\Review Volumes\vol 5 120709.doc

(b)(5) Deliberative

vol 5 120709.doc

EPA-3193

William
Perkins/DC/USEPA/US
12/07/2009 01:30 AM

To ktuberson, "Stambaugh, Sandi", CDeLoose
cc Carole Cook, Mausami Desai, Erin Birgfeld, Stacy Kika
bcc

Subject RTC Volume 3 for posting to staging

Please PDF and post the following as RTC Volume 3 in the appropriate place on the endangerment staging page with the following filename: "RTC Volume 3.pdf"

Thank you.

Cheers,

Bill

(b)(5) Deliberative

RTC Volume 3.doc

Bill Perkins
Climate Change Adaptation Analyst
Climate Science and Impacts Branch
Climate Change Division
U.S. Environmental Protection Agency
perkins.william@epa.gov
(O) 202.343.9460
(F) 202.343.2202
(C) (b)(6)

EPA-3194

Jeremy Martinich
04/01/2010 01:29 PM

To
cc
bcc

Subject UPLoad
G:\CCD\CSIB\Martinich\Endangerment\Endangerment\Com
ment Sections\Final versions\Volumes\Old versions\RTC
Volume 1 General TSD Approach nearFINAL.doc

(b)(5) Deliberative

RTC Volume 1 General TSD Approach nearFINAL.doc

EPA-3195

William
Perkins/DC/USEPA/US
12/07/2009 01:32 AM

To Rona Birnbaum, Jason Samenow, Lesley Jantarasami, David
Chalmers, Marcus Sarofim, Jeremy Martinich, Ben DeAngelo
cc
bcc
Subject Significant moral victory: First RTC Volume (3) sent to ICF for
staging

Only 10 more to go!

Bill Perkins
Climate Change Adaptation Analyst
Climate Science and Impacts Branch
Climate Change Division
U.S. Environmental Protection Agency
perkins.william@epa.gov
(O) 202.343.9460
(F) 202.343.2202
(C) (b)(6)

----- Forwarded by William Perkins/DC/USEPA/US on 12/07/2009 01:31 AM -----

From: William Perkins/DC/USEPA/US
To: ktuberson@icfi.com, "Stambaugh, Sandi" <SStambaugh@icfi.com>, CDeLoose@icfi.com
Cc: Carole Cook/DC/USEPA/US@EPA, Mausami Desai/DC/USEPA/US@EPA, Erin
Birgfeld/DC/USEPA/US@EPA, Stacy Kika/DC/USEPA/US@EPA
Date: 12/07/2009 01:30 AM
Subject: RTC Volume 3 for posting to staging

Please PDF and post the following as RTC Volume 3 in the appropriate place on the endangerment staging page with the following filename: "RTC Volume 3.pdf"

Thank you.

Cheers,

Bill

(b)(5) Deliberative

RTC Volume 3.doc

Bill Perkins
Climate Change Adaptation Analyst
Climate Science and Impacts Branch
Climate Change Division
U.S. Environmental Protection Agency
perkins.william@epa.gov
(O) 202.343.9460
(F) 202.343.2202
(C) (b)(6)

EPA-EF-005428

EPA-3196

**Marcus
Sarofim/DC/USEPA/US**
12/07/2009 01:34 AM

To Jason Samenow
cc
bcc
Subject volume 2.1

I think this is ready for primetime. Hopefully. Anyway, you should be able to paste it right in...

(b)(5) Deliberative

ed2-vol 2 120709-mcs2.doc

-Marcus

Marcus C. Sarofim, PhD
phone: 202-343-9993
fax: 202-343-2202
1310 L Street 256C
AAAS Science & Technology Policy Fellow
with the EPA Climate Division

EPA-EF-005429

EPA-3197

Lesley
Jantarasami/DC/USEPA/US
12/07/2009 01:36 AM

To Jason Samenow
cc
bcc
Subject Re: vol 5

Done!

(b)(5) Del berative

vol 5 120709 LJ.doc

Jason Samenow [attachment "vol 5 120709.doc" delete... 12/07/2009 01:09:11 AM

From: Jason Samenow/DC/USEPA/US
To: Lesley Jantarasami/DC/USEPA/US@EPA
Date: 12/07/2009 01:09 AM
Subject: vol 5

[attachment "vol 5 120709.doc" deleted by Lesley Jantarasami/DC/USEPA/US]

EPA-3198

Lesley Jantarasami
04/01/2010 03:45 PM

To
cc
bcc

Subject UPGRADE C:\Documents and Settings\ljantara\My
Documents\Endangerment\01_Full Doc\Review Volumes\vol
3 second-round edited-mcs.doc

(b)(5) Deliberative

vol 3 second-round edited-mcs.doc

EPA-3199

Marcus Sarofim

To

cc

bcc

Subject UPGLOAD C:\Documents and Settings\msarofim\My Documents\WorkFolder\Tsd_Anpr\ResponseToComments\Final\Volumes\vol 3 second-round edited-mcs.doc

(b)(5) Deliberative

vol 3 second-round edited-mcs.doc

EPA-EF-005432

EPA-3200

William
Perkins/DC/USEPA/US
12/07/2009 01:38 AM

To Mae Thomas
cc Lesley Jantarasami
bcc
Subject Fw: vol 10 - almost final

Mae,

As discussed; all we need is a very quick copyedit. There are probably a few tiny little things that we missed. Thank you.

Cheers,

Bill

Bill Perkins
Climate Change Adaptation Analyst
Climate Science and Impacts Branch
Climate Change Division
U.S. Environmental Protection Agency
perkins.william@epa.gov
(O) 202.343.9460
(F) 202.343.2202
(C) (b)(6)

----- Forwarded by William Perkins/DC/USEPA/US on 12/07/2009 01:38 AM -----

From: Lesley Jantarasami/DC/USEPA/US
To: William Perkins/DC/USEPA/US@EPA
Date: 12/07/2009 01:30 AM
Subject: vol 10 - almost final

(b)(5) Deliberative

RTC Final Volume 10 Cause or Contribute 120609.doc

EPA-EF-005433

EPA-3201

Jason
Samenow/DC/USEPA/US
12/07/2009 01:49 AM

To Lesley Jantarasami
cc
bcc
Subject volume 2

(b)(5) Deliberative

vol 2 120809.doc

EPA-3202

David
Chalmers/DC/USEPA/US
12/07/2009 01:51 AM

To Marcus Sarofim
cc
bcc
Subject

(b)(5) Deliberative

Volume 4_12-06-09.doc

David Chalmers
ORISE Fellow
U.S. EPA, Climate Change Division
202.343.9814

EPA-EF-005435

EPA-3203

Ben DeAngelo

04/06/2010 04:56 PM

To

cc

bcc

Subject UPGOAD C:\Documents and Settings\owner\My Documents\Endangerment\Response to Public Comments\Comment 6-34 BJD.doc

(b)(5) Deliberative

Comment 6-34 BJD.doc

EPA-3204

Lesley Jantarasami
04/01/2010 03:45 PM

To
cc
bcc

Subject UPGRADE C:\Documents and Settings\ljantara\My Documents\Endangerment\01_Full Doc\Review Volumes\vol 3 second-round edited-mcs LJ.doc

(b)(5) Deliberative

vol 3 second-round edited-mcs LJ.doc

EPA-3205

Ben DeAngelo

04/06/2010 04:56 PM

To

cc

bcc

Subject UPLoad C:\Documents and Settings\owner\My Documents\Endangerment\Response to Public Comments\RTC draft Volume 9 120609+DINA.doc

(b)(5) Deliberative

RTC draft Volume 9 120609+DINA.doc

EPA-3206

Marcus Sarofim

To

cc

bcc

Subject UPGRADE C:\Documents and Settings\msarofim\My Documents\WorkFolder\Tsd_Anpr\ResponseToComments\Final\Volumes\vol 3 second-round edited-mcs LJ.doc

(b)(5) Deliberative

vol 3 second-round edited-mcs LJ.doc

EPA-3207

Lesley Jantarasami
04/01/2010 03:51 PM

To
cc
bcc

Subject UPLOAD C:\Documents and Settings\ljantara\My Documents\Endangerment\02_Comments and Responses\Vol 6 stuff\Comment 6-34 BJD.doc

(b)(5) Deliberative

Comment 6-34 BJD.doc

EPA-3208

Lesley
Jantarasami/DC/USEPA/US
12/07/2009 02:10 AM

To Jason Samenow
cc
bcc
Subject Re: volume 2

Done [REDACTED] (b)(5) Deliberative

thanks!

(b)(5) Deliberative

vol 2 120809 LJ.doc

Jason Samenow [attachment "vol 2 120809.doc" delete... 12/07/2009 01:49:26|AM

From: Jason Samenow/DC/USEPA/US
To: Lesley Jantarasami/DC/USEPA/US@EPA
Date: 12/07/2009 01:49 AM
Subject: volume 2

[attachment "vol 2 120809.doc" deleted by Lesley Jantarasami/DC/USEPA/US]

EPA-EF-005441

EPA-3209

Lesley Jantarasami
04/01/2010 03:45 PM

To
cc
bcc

Subject UPGRADE C:\Documents and Settings\ljantara\My Documents\Endangerment\01_Full Doc\Review Volumes\RTC Final Volume 10 Cause or Contribute 120609.doc

(b)(5) Deliberative


- RTC Final Volume 10 Cause or Contribute 120609.doc

EPA-3210

Lesley Jantarasami
04/01/2010 03:51 PM

To
cc
bcc

Subject UPLoad C:\Documents and Settings\ljantara\My Documents\Endangerment\02_Comments and Responses\Vol 6 stuff\Higuera.doc

 - Higuera.doc

Available at <http://www.esajournals.org/doi/pdf/10.1890/07-2019.1>

EPA-3211

Marcus Sarofim

To

cc

bcc

Subject UPGLOAD C:\Documents and Settings\msarofim\My Documents\WorkFolder\Tsd_Anpr\ResponseToComments\Final\Volumes\ed2-vol 2 120709-mcs.doc

(b)(5) Deliberative

ed2-vol 2 120709-mcs.doc

EPA-EF-005444

EPA-3212

Jeremy
Martinich/DC/USEPA/US
12/07/2009 02:33 AM

To Lesley Jantarasami
cc Rona Birnbaum, William Perkins
bcc
Subject V1

Specific directions:

- The appendices should be appended to the end of V1. I've already included page numbers in the Appendices so that the numbering runs continuously (1-147).
- The appendices are about 14MB right now. It would be good if ICF could compress the file to make it smaller but still fully readable.

(b)(5) Deliberative

RTC Volume 1 General TSD Approach FINAL.doc Volume 1 - Appendices A, B, C.pdf

Jeremy Martinich
USEPA, Climate Change Division
202-343-9871

available at:
<http://www.epa.gov/climatechange/endangerment.html#comments>

EPA-3213

Marcus Sarofim

To

cc

bcc

Subject UPGRADE C:\Documents and Settings\msarofim\My Documents\WorkFolder\Tsd_Anpr\ResponseToComments\Final\Volumes\ed2-vol 2 120709-mcs2.doc

(b)(5) Deliberative

ed2-vol 2 120709-mcs2.doc

EPA-3214

Lesley Jantarasami
04/01/2010 03:45 PM

To
cc
bcc

Subject UPGLOAD C:\Documents and Settings\ljantara\My
Documents\Endangerment\01_Full Doc\Review Volumes\vol
5 120709 LJ.doc

(b)(5) Deliberative

vol 5 120709 LJ.doc

EPA-EF-005447

EPA-3215

Jason
Samenow/DC/USEPA/US
12/07/2009 02:38 AM

To William Perkins
cc
bcc
Subject volume 5 for staging

(b)(5) Deliberative

vol 5 120809.doc

EPA-3216

Jason
Samenow/DC/USEPA/US
12/07/2009 02:40 AM

To William Perkins
cc
bcc
Subject Re: volume 5 for staging

yes

William Perkins thanks -- did Lesley add TOC, etc. to th... 12/07/2009 02:39:58 AM

From: William Perkins/DC/USEPA/US
To: Jason Samenow/DC/USEPA/US@EPA
Date: 12/07/2009 02:39 AM
Subject: Re: volume 5 for staging

thanks -- did Lesley add TOC, etc. to this yet?

Bill Perkins
Climate Change Adaptation Analyst
Climate Science and Impacts Branch
Climate Change Division
U.S. Environmental Protection Agency
perkins.william@epa.gov
(O) 202.343.9460
(F) 202.343.2202
(C) (b)(6)

Jason Samenow [attachment "vol 5 120809.doc" delete... 12/07/2009 02:38:35 AM

From: Jason Samenow/DC/USEPA/US
To: William Perkins/DC/USEPA/US@EPA
Date: 12/07/2009 02:38 AM
Subject: volume 5 for staging

[attachment "vol 5 120809.doc" deleted by William Perkins/DC/USEPA/US]

EPA-EF-005449

EPA-3217

Lesley Jantarasami
04/01/2010 03:45 PM

To
cc
bcc

Subject UPGRADE C:\Documents and Settings\ljantara\My Documents\Endangerment\01_Full Doc\Review Volumes\vol 2 120809.doc

(b)(5) Deliberative

vol 2 120809.doc

EPA-3218

David
Chalmers/DC/USEPA/US
12/07/2009 02:50 AM

To Lesley Jantarasami
cc
bcc
Subject magic please

Hi Lesley,

Can you work your page numbering/table of contents magic on this please? Thanks!!!

(b)(5) Deliberative

Volume 4_FINAL.doc

EPA-3219

Lesley
Jantarasami/DC/USEPA/US
12/07/2009 03:06 AM

To David Chalmers
cc
bcc

Subject Re: magic please

Here ya go - take one last look to see if page #s are correct and stuff.

(b)(5) Deliberative

Volume 4_FINAL LJ.doc

David Chalmers Hi Lesley, Can you work your page nu... 12/07/2009 02:50:33 AM

From: David Chalmers/DC/USEPA/US
To: Lesley Jantarasami/DC/USEPA/US@EPA
Date: 12/07/2009 02:50 AM
Subject: magic please

Hi Lesley,

Can you work your page numbering/table of contents magic on this please? Thanks!!!

[attachment "Volume 4_FINAL.doc" deleted by Lesley Jantarasami/DC/USEPA/US]

EPA-3220

Lesley Jantarasami
04/01/2010 03:45 PM

To
cc
bcc

Subject UPGLOAD C:\Documents and Settings\ljantara\My
Documents\Endangerment\01_Full Doc\Review Volumes\vol
2 120809 LJ.doc

(b)(5) Deliberative

vol 2 120809 LJ.doc

EPA-EF-005453

EPA-3221

**William
Perkins/DC/USEPA/US**
12/07/2009 03:10 AM

To Lesley Jantarasami
cc
bcc
Subject Fw: volume 2!!! :)

Bill Perkins
Climate Change Adaptation Analyst
Climate Science and Impacts Branch
Climate Change Division
U.S. Environmental Protection Agency
perkins.william@epa.gov
(O) 202.343.9460
(F) 202.343.2202
(C) (b)(6)

----- Forwarded by William Perkins/DC/USEPA/US on 12/07/2009 03:10 AM -----

From: Jason Samenow/DC/USEPA/US
To: William Perkins/DC/USEPA/US@EPA
Date: 12/07/2009 02:58 AM
Subject: volume 2!!! :)

(b)(5) Deliberative

vol 2 120809.doc

(b)(5) Deliberative

EPA-EF-005454

EPA-3222

Lesley
Jantarasami/DC/USEPA/US
12/07/2009 03:14 AM

To William Perkins
cc
bcc
Subject Re: Fw: volume 2!!! :)

yay!

(b)(5) Deliberative

vol 2 120809 LCJ.doc

William Perkins Bill Perkins Climate Change Adaptation... 12/07/2009 03:10:21 AM

From: William Perkins/DC/USEPA/US
To: Lesley Jantarasami/DC/USEPA/US@EPA
Date: 12/07/2009 03:10 AM
Subject: Fw: volume 2!!! :)

Bill Perkins
Climate Change Adaptation Analyst
Climate Science and Impacts Branch
Climate Change Division
U.S. Environmental Protection Agency
perkins.william@epa.gov
(O) 202.343.9460
(F) 202.343.2202
(C) (b)(6)

----- Forwarded by William Perkins/DC/USEPA/US on 12/07/2009 03:10 AM -----

From: Jason Samenow/DC/USEPA/US
To: William Perkins/DC/USEPA/US@EPA
Date: 12/07/2009 02:58 AM
Subject: volume 2!!! :)

[attachment "vol 2 120809.doc" deleted by Lesley Jantarasami/DC/USEPA/US]
(b)(5) Deliberative

EPA-EF-005455

EPA-3223

David
Chalmers/DC/USEPA/US
12/07/2009 03:21 AM

To Suzanne Kocchi
cc Carol Holmes, Rona Birnbaum, William Perkins
bcc
Subject Re: docket update

(b)(5) Deliberative

Suzanne Kocchi Ok. Let's just chase this up Mon. ----- 12/06/2009 11:19:59 AM

From: Suzanne Kocchi/DC/USEPA/US
To: Carol Holmes/DC/USEPA/US@EPA
Cc: Rona Birnbaum/DC/USEPA/US@EPA, David Chalmers/DC/USEPA/US@EPA
Date: 12/06/2009 11:19 AM
Subject: Re: docket update

Ok. Let's just chase this up Mon.

Carol Holmes

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

From: Carol Holmes
Sent: 12/06/2009 10:17 AM EST
To: Suzanne Kocchi
Cc: Rona Birnbaum; David Chalmers
Subject: Re: docket update

Hi Suzie -- (b)(5) Deliberative

Confidential communication for internal deliberations only; Attorney-client, attorney work product and/or enforcement privilege; Do not distribute outside EPA or DOJ

Carol S. Holmes
Office of General Counsel
U.S. Environmental Protection Agency
1200 Pennsylvania Ave, NW (MC 2344A)
Washington, DC 20460
Phone (202) 564-8709
Fax (202) 564-5603

Suzanne Kocchi (b)(5) Deliberative 12/06/2009 09:35:12 AM

EPA-EF-005456

From: Suzanne Kocchi/DC/USEPA/US
To: Carol Holmes/DC/USEPA/US@EPA
Cc: "David Chalmers" <Chalmers.David@epamail.epa.gov>, "Rona Birnbaum" <Birnbaum.Rona@epamail.epa.gov>
Date: 12/06/2009 09:35 AM
Subject: Re: docket update

(b)(5) Deliberative

David can call them on Mon

Carol Holmes

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

From: Carol Holmes
Sent: 12/05/2009 11:33 PM EST
To: Suzanne Kocchi
Subject: Re: docket update

(b)(5) Deliberative

Confidential communication for internal deliberations only; Attorney-client, attorney work product and/or enforcement privilege; Do not distribute outside EPA or DOJ

Carol S. Holmes
Office of General Counsel
U.S. Environmental Protection Agency
1200 Pennsylvania Ave, NW (MC 2344A)
Washington, DC 20460
Phone (202) 564-8709
Fax (202) 564-5603

Suzanne Kocchi To answer Carol's question, (b)(5) Deliberative 12/05/2009 10:28:01 PM

From: Suzanne Kocchi/DC/USEPA/US
To: David Chalmers/DC/USEPA/US@EPA, Rona Birnbaum/DC/USEPA/US@EPA
Cc: Jason Samenow/DC/USEPA/US@EPA, Ben DeAngelo/DC/USEPA/US@EPA, William Perkins/DC/USEPA/US@EPA, Lesley Jantarasami/DC/USEPA/US@EPA, Jeremy Martinich/DC/USEPA/US@EPA, Marcus Sarofim/DC/USEPA/US@EPA, Michael Kolian/DC/USEPA/US@EPA, Dina Kruger/DC/USEPA/US@EPA, Carol Holmes/DC/USEPA/US@EPA, John Hannon/DC/USEPA/US@EPA
Date: 12/05/2009 10:28 PM
Subject: Re: docket update

To answer Carol's question, (b)(5) Deliberative

To answer your question, yes you have until midnight on Mon to submit but as Carol said better to get it done well before if you can.

(b)(5) Deliberative

Hope that helps. Great job everyone!

From: David Chalmers
Sent: 12/05/2009 06:34 PM EST
To: Rona Birnbaum
Cc: Jason Samenow; Ben DeAngelo; William Perkins; Lesley Jantarasami; Jeremy Martinich; Marcus Sarofim; Michael Kolian; Dina Kruger; Carol Holmes; John Hammon; Suzanne Kocchi
Subject: docket update

The updated docket checklist. Please let me know if I'm missing anything.

ITEM(S) FOR DOCKETING	STATUS
(b)(5) Deliberative [Redacted]	[Redacted]
[Redacted]	[Redacted]
[Redacted]	[Redacted]
[Redacted]	[Redacted]
[Redacted]	[Redacted]
[Redacted]	[Redacted]
[Redacted]	[Redacted]
[Redacted]	[Redacted]

-----Rona Birnbaum/DC/USEPA/US wrote: -----

To: Jason Samenow/DC/USEPA/US@EPA, Ben DeAngelo/DC/USEPA/US@EPA, William Perkins/DC/USEPA/US@EPA, Lesley Jantarasami/DC/USEPA/US@EPA, Jeremy Martinich/DC/USEPA/US@EPA, Marcus Sarofim/DC/USEPA/US@EPA, David Chalmers/DC/USEPA/US@EPA, Michael Kolian/DC/USEPA/US@EPA
 From: Rona Birnbaum/DC/USEPA/US
 Date: 12/05/2009 05:15PM
 cc: Dina Kruger/DC/USEPA/US@EPA, Carol Holmes/DC/USEPA/US@EPA, John Hannon/DC/USEPA/US@EPA, Suzanne Kocchi/DC/USEPA/US@EPA
 Subject: Status of RTC Volumes

ALL: status as of 5:15 pm.

Vol 1: final draft now with Dina, John, Carol. Went to ERG for final editing. Any final comments will be made directly onto the edited version in morning.

Vol 2: Dina + OGC review complete. Copy edited version expected back from ERG around 6:00 and final edits will be made directly onto the edited version.

Vol 3: Dina + OGC review complete. Copy edited version expected back from ERG around 6:00 and

final edits will be made directly onto the edited version.

Vol 4: Dina + OGC review complete. Copy edited version expected back from ERG around 6:00 and final edits will be made directly onto the edited version.

Vol 5: Dina + OGC review complete. Copy edited version expected back from ERG around 6:00 and final edits will be made directly onto the edited version.

Vol 6: OGC review complete. Dina reviewing final Ag draft tonight. Final forestry draft will be sent tonight and final review tomorrow morning. Will also be sent OGC if John wants to have another look at that time. Will go to ERG tonight.

Vol 7: OGC review complete. Final draft with Dina and with ERG. Any final comments will be made directly onto the edited version in morning.

Vol 8: Dina + OGC review complete. Copy edited version expected back from ERG around 6:00 and final edits will be made directly onto the edited version. (A few lingering specific comments being worked out.)

Vol 9: final draft now with Dina, Rona, John, Carol. Is with ERG for editing. Any final comments will be made directly onto the edited version in morning.

Vol 10: final draft will be sent to Dina, Rona, John, Carol at 6:00 tonight. Final draft will also be sent to ERG at 6:00. Final review will be completed in the morning and edits made directly onto the edited version.

Vol 11: final draft with Dina. A few responses expected to be update [REDACTED] OGC review complete but will review the updated responses. Already went to ERG and final edits will be made directly onto the edited version.

On all Volumes: Rona, Dina, Carol and John are ready to address any specific questions on comments/responses.

David: please update the checklist for docketing.

ALL Volumes to be completed by 6:00 Sunday (many should be completed before then). At that point, Bill will work with the Web people to upload all volumes onto the staging server. Once up, we all will still be able to continue with minor polishing, cross-checking, etc. We want to be completed by Monday morning, although minor things can still be tweaked, if needed, on Monday morning.

We're almost there!!

EPA-3224

Lesley
Jantarasami/DC/USEPA/US
12/07/2009 03:21 AM

To Jeremy Martinich
cc
bcc
Subject Fw: V1

(b)(5) Deliberative

RTC Volume 1 General TSD Approach FINAL LJ.doc

----- Forwarded by Lesley Jantarasami/DC/USEPA/US on 12/07/2009 03:21 AM -----

From: Jeremy Martinich/DC/USEPA/US
To: Lesley Jantarasami/DC/USEPA/US@EPA
Cc: Rona Birnbaum/DC/USEPA/US@EPA, William Perkins/DC/USEPA/US@EPA
Date: 12/07/2009 02:33 AM
Subject: V1

Specific directions:

(b)(5) Deliberative

Jeremy Martinich
USEPA, Climate Change Division
202-343-9871

EPA-EF-005460

EPA-3225

David
Chalmers/DC/USEPA/US
12/07/2009 03:24 AM

To William Perkins
cc
bcc
Subject Vol 4

ready for the staging server. has been an honor. thanks for the all support and guidance throughout the process.

(b)(5) Deliberative

Volume 4_FINAL.doc

EPA-3226

William Perkins/DC/USEPA/US
12/07/2009 03:34 AM

To Lesley Jantarasami, Jason Samenow, Rona Birnbaum
cc
bcc
Subject Fw: RTC Volume 2 for staging

Bill Perkins
Climate Change Adaptation Analyst
Climate Science and Impacts Branch
Climate Change Division
U.S. Environmental Protection Agency
perkins.william@epa.gov
(O) 202.343.9460
(F) 202.343.2202
(C) (b)(6)

----- Forwarded by William Perkins/DC/USEPA/US on 12/07/2009 03:34 AM -----

From: William Perkins/DC/USEPA/US
To: CDeLoose@icfi.com, "Stambaugh, Sandi" <SStambaugh@icfi.com>, ktuberson@icfi.com
Cc: Carole Cook/DC/USEPA/US@EPA, Mausami Desai/DC/USEPA/US@EPA, Stacy Kika/DC/USEPA/US@EPA, Erin Birgfeld/DC/USEPA/US@EPA
Date: 12/07/2009 03:34 AM
Subject: RTC Volume 2 for staging

Please PDF and post the following as RTC Volume 2 in the appropriate place on the endangerment staging page with the following filename: "RTC Volume 2.pdf"

Thank you.

Cheers,

Bill

(b)(5) Deliberative
[Redacted]
RTC Volume 2.doc

Bill Perkins
Climate Change Adaptation Analyst
Climate Science and Impacts Branch
Climate Change Division
U.S. Environmental Protection Agency
perkins.william@epa.gov
(O) 202.343.9460
(F) 202.343.2202
(C) (b)(6)

EPA-EF-005462

EPA-3227

William
Perkins/DC/USEPA/US
12/07/2009 03:35 AM

To Rona Birnbaum
cc
bcc
Subject Fw: RTC Volume 5 for posting to staging

Bill Perkins
Climate Change Adaptation Analyst
Climate Science and Impacts Branch
Climate Change Division
U.S. Environmental Protection Agency
perkins.william@epa.gov
(O) 202.343.9460
(F) 202.343.2202
(C) (b)(6)

----- Forwarded by William Perkins/DC/USEPA/US on 12/07/2009 03:35 AM -----

From: William Perkins/DC/USEPA/US
To: Jason Samenow/DC/USEPA/US@EPA, Lesley Jantarasami/DC/USEPA/US@EPA
Date: 12/07/2009 02:48 AM
Subject: Fw: RTC Volume 5 for posting to staging

Fyi, here is the file I sent to ICF. (b)(5) Deliberative

Bill Perkins
Climate Change Adaptation Analyst
Climate Science and Impacts Branch
Climate Change Division
U.S. Environmental Protection Agency
perkins.william@epa.gov
(O) 202.343.9460
(F) 202.343.2202
(C) (b)(6)

----- Forwarded by William Perkins/DC/USEPA/US on 12/07/2009 02:47 AM -----

From: William Perkins/DC/USEPA/US
To: CDeLoose@icfi.com, "Stambaugh, Sandi" <SStambaugh@icfi.com>, ktuberson@icfi.com
Cc: Carole Cook/DC/USEPA/US@EPA, Erin Birgfeld/DC/USEPA/US@EPA, Mausami Desai/DC/USEPA/US@EPA, Stacy Kika/DC/USEPA/US@EPA
Date: 12/07/2009 02:47 AM
Subject: RTC Volume 5 for posting to staging

Please PDF and post the following as RTC Volume 5 in the appropriate place on the endangerment staging page with the following filename: "RTC Volume 5.pdf"

Thank you.

Cheers,

Bill

(b)(5) Deliberative
RTC Volume 5.doc

EPA-EF-005463

Bill Perkins
Climate Change Adaptation Analyst
Climate Science and Impacts Branch
Climate Change Division
U.S. Environmental Protection Agency
perkins.william@epa.gov
(O) 202.343.9460
(F) 202.343.2202
(C) (b)(6)

EPA-3228

Jeremy
Martinich/DC/USEPA/US
12/07/2009 03:35 AM

To William Perkins
cc Rona Birnbaum, Lesley Jantarasami
bcc

Subject Volume 1 - Final version

Specific directions:

- The appendices should be appended to the end of V1. I've already included page numbers in the Appendices so that the numbering runs continuously (1-142).
- The appendices are about 14MB right now. It would be good if ICF could compress the file to make it smaller but still fully readable.

(b)(5) Deliberative

RTC Volume 1 General TSD Approach FINAL.doc Volume 1 - Appendices A, B, C.pdf

available at:
<http://www.epa.gov/climatechange/endangerment.html#comments>

Jeremy Martinich
USEPA, Climate Change Division
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**Jeremy
Martinich/DC/USEPA/US**
12/07/2009 03:44 AM

To Lesley Jantarasami
cc
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Lesley Jantarasami
04/01/2010 03:45 PM

To
cc
bcc
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Documents\Endangerment\01_Full Doc\Review
Volumes\Volume 4_FINAL.doc

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Volume 4_FINAL.doc

EPA-3231

Lesley
Jantarasami/DC/USEPA/US
12/07/2009 03:49 AM

To William Perkins
cc Jeremy Martinich
bcc
Subject vol 7

Should be ready to go!

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