

Data rescue call 9/1/11

8am EDT

Attendees: Peter Thorne, Jared Rennie, Rick Crouthamel, Rob Allan, Jay Lawrimore, William Angel, Stefan Bronnimann, Hermann Machel, Juerg Luterbacher, Tom Ross, Manola Brunet, Rick Crouthamel, Masumi ZAIKI

Apologies in advance: Rod Hutchinson

Call in details circulated by email

Previous meeting notes available here:

http://www.surfacetemperatures.org/databank/data-rescue-task-team/datarescue_call_6811.pdf?attredirects=0

1. Review of Actions from last call

ACTION: Tom Ross / Rick Crouthamel to advise on IEDRO preferred solution to posting the IEDRO WMO congress video to the web.

Between Peter and Philip Brohan of Met Office Hadley Centre this video has now been posted on youtube and linked from surfacetemperatures.org. IEDRO has a few copies of the DVD available and would like to know who has a need for one. Please email IEDRO if you wish to have a hard copy.

ACTION: ALL to provide suggestions on improvements to the data rescue component of the www.surfacetemperatures.org domain.

Several modifications were made to this page as a result of feedback. It is very easy to make further changes and any suggestions are welcome.

2. Update on over-arching International Surface Temperature Initiative (Peter)

- The paper documenting the over-arching initiative goals has now been accepted and is available from BAMS (doi: 10.1175/2011BAMS3124.1)
- There is an overview talk accepted at the WCRP Open Science Conference in October and three posters (one on data rescue (see #6)).
- There is also a session at the metrology temperature symposium ITS9 in March 2012 which Peter will chair and give an invited presentation. There will be a poster on the databank.
- The website as a whole has been refreshed and branded - hopefully this website is now slightly more professional looking and useful. Feedback is welcome.
- An Implementation Plan for the Initiative as a whole has been published.

3. Update on databank progress to date (Jay)

Data incorporated so far:

Japan (Koji Ishihara)	Daily data for 157 stations.
Europe (KNMI; Albert Klein-Tank):	Daily data for 1177 stations.
ISPD (Int'l Sfc Pressure Databank):	Daily data for 13 stations in Tunisia&Morocco.
Pitcairn Island (Peter Fisher)	Daily data for 3 sources of same station

Previous Daily Data Submissions

Spain (Manola Brunet)

US Forts (CDMP)

Vietnam (CDMP)

Mexico (CDMP)

Recent Monthly Data Submissions

East Africa (John Christy) Monthly data for 112 stations.

Europe (KNMI; Albert Klein-Tank) stations. Monthly data for 1551

Japan (Koshi Ishihara) Monthly data for 157 stations.

Antarctica South Pole (Matthew Lazzara, Space Science and Engineering Center at the University of Wisconsin-Madison) Monthly data for 1 station.

GHCN-M version 2 Monthly data for ~ 7000 stations

UKMET HADCRU3 Monthly data for ~ 5000 stations

Previous Monthly Data Submissions

Colonial Era Archive

World Weather Records (Through 2000)

Antarctica (SCAR) (Antarctic Climate Data SCAR READER Project website -- <http://www.antarctica.ac.uk/met/READER/>, downloaded on 9 Feb 2011)

Databank mirror site up and running at WDC-B at RIHMI Russia.

A review of data collected as part of ISPD (pressure) effort turned up little new temperature data. Jared Rennie has attempted contacts with some data providers to determine if they have temperature data that could be submitted.

RA: A lot of the images are available on the BADC website. May be able to see which may contain temperature data.

JL: Plans to digitize?

RA: Plans to digitize are in the excel spreadsheet hosted on BADC. Actually the status of the data - whether hard copy, scanned/imaged or digitised

SB: Project inventory would be useful before diving into real details on a station by station basis.

Progress toward identifying new data sources has slowed in the past two months.

Completion of Submission guidance and databank overview letter may be helpful in future contacts.

Use of UIDs for data provenance tracking is being investigated. Not likely to be incorporated into land databank. While helpful to the ocean community, there are questions about its necessity for land data.

Databank poster to be produced in September in advance of the Oct WCRP Open Science Conference.

SB: ERA-CLIM need to submit inventory by end of month (N. Africa/Middle East). Will send to Jay.

JL: Main reason right now for lack of progress is that much of the data is on paper and we need to get a method to get it digitized. Crowdsourcing digitization is being pursued through various channels.

MB: EURO4m are digitizing a lot of daily values - more than a million values. Can send a list of stations and target stations and progress. Meeting next September on digitization between EURO4m and ERA-CLIM activities on digitization. Trying to merge ancient past with the current holdings. Data access restrictions are still an issue with much of these data.

JL: Ideally we would not have Quality Controlled data, what QC is being undertaken as part of EURO4M?

MB: Two stages. First is largely that it is the right station and date. Then QC for gross details.

PT: Databank we want to get as close to the raw values as possible so would want the first stage in addition to the second. Reiteration of what the databank structure is envisaged to be. (see www.surface temperatures.org)

RC: We (IEDRO) are at the front end of getting the data. We have used CDMP to digitize but will now take some role on at IEDRO to digitize. Will retain the provenance information. However, we do not plan to be a long term repository. NCDC?

JL: What resources would NCDC need?

WA: Trying to wrap our heads around the access rights and administration rights.

JL: Returning to the BADC holdings (and any others), we would like to be able to go through the forms and ascertain what we can potentially rescue. Resources are an issue.

4. Updates on other activities (All)

i) (Manola) There is a recently EU-funded FP7-INFRASTRUCTURES-2010-1 Coordination and Support Action-262263 (*Data repositories and computational infrastructure for environmental and climate studies in the eastern Mediterranean*: DARECLIMED: <http://ewrc.cyi.ac.cy/DARECLIMED>), which could be worth to interact with.

Juerg: Was involved in proposal writing. Mainly on data repository. No specific action on data rescue and digitization etc. Not sure of potential wins. Limited funding.

ii) Rod Hutchinson - Melbourne, Australia

I maybe an apology. I have had a heart attack last week, and am just out of hospital and am not sure I will be able to stay up to late. However current state of play follows.

Task Team members sent their collective best wishes.

Rollout of CDMS developed by Pacific Climate Change Science Program (PCCSP) to Small NMS in NW and SW Pacific continues; I.E. member of the Pacific Island Forum. These include US affiliates of Palau, FSM and Marshall Islands. SW Pacific rollout is East Timor, Cook Islands, Fiji Is, Kiribati, Naru, Niue, PNG, Samoa, Solomon Is, Tonga, Tuvalu, Vanuatu. All these countries will have the capacity to undertake key entry of historical records.

The PCCSP is proposing to digitise scanned climate records from colonial times, probably those located at British Atmospheric Data Centre and Australia (pre World War 2) for up to 5 countries including East Timor, Kiribati, Tuvalu, Vanuatu and Fiji. This money is additional to money for Phase 2 of the same project.

I have located manuscript records from the 1950-1970 in the Dili Archives (East Timor) on our last trip which I wish to image and digitise.

I hope to attend 10ICSHMO in Noumea in April 2012 and make a presentation under the ACRE Special Session. Do you think our poster should be presented there?

Peter: Definitely. The idea is that the poster be available generically and used widely. I will endeavour to keep it up to date to reflect progress. In general please task team members should feel free to use the poster or any other initiative related materials to further data rescue efforts. Please utilize any ISTI related resource felt appropriate so long as attributed to the Initiative and please feel free to highlight your role.

RA: ACRE is looking to work more closely with PCCSP and there are likely to be major discussions at the 10ICSHMO about integrating efforts further.

iii) Regional Historical Terrestrial and Marine Weather Data Recovery, Imaging & Digitisation Foci under ACRE (Rob Allan)

ACRE Chile – following three visits to Chile in 2009 and 2010 (<http://www.met-acre.org/data-projects-and-regional-chapters/chilean-chapter>), funding to initiate this focus was obtained from a partnership in the EC FP7 as part of the ERA-CLIM (European Reanalysis of Global Climate Observations) project.

ACRE Pacific – led by Drew Lorrey at NIWA (National Institute of Water & Atmospheric Research) in New Zealand; following an Asian-Pacific Network for Global Climate Change (APN)-funded CAPaBLE 2010-2011 ‘Improving Pacific Island Meteorological Data Rescue and Data Visualisation Capabilities through Involvement in Emerging Climate Research Programmes’ (<http://www.met-acre.org/meetings-and-workshops-1/CBA2010-05NSY-Lorrey.pdf?attredirects=0>) project meeting in Auckland, New Zealand, 27th-29th September 2010, and initial funding (for a year from July 2011) was obtained via the Demande Fonds Pacifique 2011_Initiative Pacifique ACRE (French Pacific Fund) project ‘Rescuing the climate, weather, and exploration history of former French territories of the Southwest Pacific: A key component of the ACRE Pacific (Atmospheric Circulation Reconstructions across the Earth) international programme’

- Special project on recovering, imaging and digitising of old German weather observations from the Apia Observatory in Samoa: involving NIWA, Samoan Meteorology Division, University of Giessen, Deutscher Wetterdienst (DWD)

ACRE India – linked to British Library-India initiative’s Bangalore meeting in March 2011 on 'South Asian Historical Records and Climate' funded by the UK Arts and Humanities Research Council (AHRC) and the new consortium Collaborative Research on the Meteorological History of the Indian Ocean, 1600-1900, led by the Centre for World Environmental History, University of Sussex.

- Special project on recovering, imaging and digitising of old weather observations extracted from ship logbooks in 188 volumes of Charles Meldrum's 'anemological' journals from 1853 to 1914 held by the National Archives in Mauritius (NAM), and terrestrial weather observations for Mauritius (including data from Colonel Lloyd's Colonial Observatory at Port Louis) from the late 18th to the early years of the 20th century held by the Mauritius Meteorological Services (MMS): involving NAM, MMS, IEDRO, University of Brighton.
- Imaging and digitising of old terrestrial and marine weather observations for the Indian Ocean domain from India Meteorological Department (IMD) Monsoon Charts 1893-1899: by Gail Willetts (ACRE)

ACRE Arctic – being developed by Kevin Wood, NOAA PMEL, via the Atmosphere/Climate Working Group (WG) of the International Arctic Science Committee (IASC).

ACRE Canada – The early Canadian historical data rescue project – run by Vicky Slonosky (<http://sites.google.com/site/historicalclimatedata/Home>)

ACRE SE Asia – applying for Asia Pacific Network (APN) ACRP grant with Stage 1 proposal ‘ACRE SE Asia: towards new baselines on environmental extremes, impacts and risks’ led by Rosanne D’Arrigo, Tree-Ring Lab, LDEO, USA, submitted 29th July 2011. Involving LDEO, NIWA, Indonesian Meteorological and Geophysical Service (BMKG), Malaysian Meteorological Service (MMS), Hong Kong Observatory, Meteorological Services of Singapore (MSS), Universiti Kebangsaan Malaysia (UKM) and the UK Foreign and Commonwealth Office (FCO) in Singapore, KNMI.

- Special project on recovering, imaging and digitising of old weather observations extracted from ship logbooks by the Hong Kong Observatory.

ACRE Africa – linked to the developing National Agro- Meteorology Advisory System for Agricultural Users – Africa (NAMASAU-Africa) proposal with a potential event at UNFCCC CoP17, Durban, South Africa, 28th November 9th-December 2011.

ACRE China – hoping to start via a proposal led by Robert Bickers from the Chinese Maritime Customs project at Bristol University, UK and via potential linkages into China via the new Met Office MoU with the Chinese Meteorological Administration (CMA).

- Special project on recovering, imaging and digitising of old weather observations extracted from ship logbooks by the Jesuit observatory in Shanghai.

iv) IEDRO (Rick Crouthamel) will be meeting with Dr. Diallo, Secretary-General of ACMAD here at IEDRO Headquarters in Maryland on October 21st to discuss the imaging of the DARE-I microfiche currently held at ACMAD in Niger. We will only be seeking permission to get the images (perhaps as many as 3,000,000) scanned and stored as JPEG, TIFF or other formats before the images fade and are lost forever. How we will get those data digitized will be worried about after the current images are safe.

IEDRO is constructing a "megaproposal" to seek substantial funding that will support several data rescue and digitization activities. Several of our surface temperatures group have sent us background information on their particular projects/programs to use as "ammunition" for our effort.

Google, Gates foundation etc. are the targets. 1-3 million dollars range?

RA: Try to make clear the ACMAD data may contain a large amount of data already in the public domain as monthly data or other summaries. Not really necessarily valuable to keep hold of that data but what data hasn't been rescued is truly invaluable and making it available helps.

RC: Certainly not useful in current form will be reiterated.

PT: NCDC offer of returning normals is on the table.

RC: Also IEDRO effort to add value added software to entice cooperation.

PT: Key is to ensure that the benefits are made apparent.

5. Pull through of data rescue efforts to the databank (Jay / Jared)

DATA SUBMISSIONS

If anyone wishes to submit data to the global databank, please use one of the following two e-mails:

Official E-Mail: data.submission@surfacetemperatures.org

My Personal E-Mail: jared.rennie@noaa.gov

Both are directed to me and I will be able to take the data in the original form (stage 1) and convert it to a common format (stage2).

Submission guidelines are at:

<http://www.surfacetemperatures.org/databank/DataSubmission-Stage1-Guidance.pdf?attredirects=0>

I highly encourage people to pass the submission guidelines to anyone who wishes to submit data. Perhaps the guidelines and e-mail can be distributed at conferences. In general please take every opportunity to encourage submission of *any* data to the databank.

ACQUIRING MORE SOURCES

Have contacted most of the sources of ISPD data and requested more temperature data from their sources. Received response from a Mr. Eirik J. Førland directing me to the Norwegian Met Institute page: <http://www.eklima.no/>. Have also recently received a response from a Mr. Frank Le Blanq, who is willing to submit data for 2 stations from Channel Islands. Have sent him submission guidelines document for further instructions.

Have also sent some requests to the following sources

- HISTALP: <http://www.zamg.ac.at/histalp/content/view/18/36/index.html>
- Historical Canadian Climate Data:

<https://sites.google.com/site/historicalclimatedata/canadian-historical-data-typing-project/diaries-and-volunteers>

Received positive response from both sources and I sent them data submission form. Awaiting a response.

Received a list of some data sources (from Jay) that might be worth inquiring for submission. Some of the sources are already in the databank (ie WWR, GHCN, etc), however there are some that might be worth looking at.

Waiting on Brazilian Data from Waldenio and data from Uruguay from Madeline. Some Uruguay data is available online (5 stations) and will put those into the Databank soon.

6. Poster for WCRP OSC (Peter)

I had an abstract for a poster on data rescue accepted at WCRP OSC. I will take an initial draft of the poster before the call and circulate via the website to avoid inbox overkill. We will discuss the poster on the call.

Poster draft was sent 8/29. I subsequently filled in the white space on the right hand side with a GHCN-M data availability set of three maps over pre-1900 (top), 1961-90 (middle) and 2000s (bottom).

ACTION: All to provide any feedback on poster draft by 9/7. PT to redraft based upon feedback and then send back out. Final comment and redraft and send to printers 9/31.

7. Upcoming extraordinary session of WMO Congress (Peter)

The steering committee have learnt that there will be an extraordinary WMO congress session in summer 2012 including the global framework for climate services and a renegotiation of resolution 40 (potentially). It is possible for the initiative as a whole (along with others) to push e.g. the UK delegation to undertake a submission on this. This will be discussed on the steering committee call next week and I would welcome thoughts on this.

MB: Heard that they are determined to modify WMO res-40 to include time series. Not just real-time. Real wish by WMO to include climate data. Related to GFCS. Strong accent on integrated data rescue.

PT: It seems that what is needed is a strong indication from the community as a whole rather than any single initiative as to how this data if released will be stored and used and what short and long-term benefits will accrue. It will be an easier sell if we can show that as a community we have some coherent agreed plan in place, if we can make it both easy and appealing to people to release / digitize / rescue their data.

e.g. If you release your data it will go to repository X which is going to be recognized as the global repository for data type Y. Repository X has these [i) -n)] fundamental qualities that assure the scientific integrity, provenance and version tracking of your data. Data can be deposited very simply following guidance at www.xxx. From repository X we can derive value added products Y and Z and return these immediately. The benefits to society, industry and the public sector would be a, b, ... n. In addition the data would feed into longer-term science applications (dataset development, reanalyses etc.) from which the following benefits would accrue

ACTION: PT to try to push forwards formation of a team of interested parties who might prepare a white paper to document a plan for how data will be stored and used by the climate community more broadly in support of renegotiation of resolution 40.

Update 9/6: PT initiated discussions with Commission for Climatology who clarified that they will take a lead in this.

8. AOB

Bid through Cooperative Institute for funding of crowdsourcing did not succeed. Peter has a potential NSF bid in the pipeline that would include this but there are three sets of hoops to jump through so don't get your hopes up.

NCDC is keen on crowdsourcing digitization of rescued data and will continue to pursue opportunities to make this happen.

PT noted that there was a submission to google regarding data rescue and digitization which no decision as yet had been communicated upon.

ACTION: PT to chase up google and update the group on status of informal NCDC submission by Jay and Peter on data rescue issues.

RA: RMS are looking with Wiley to develop an online journal on data. RA will be editor. If it does happen it may be a useful avenue. rob.allan@metoffice.gov.uk For any thoughts on this please.

Next call in early November. PT will set up a doodle poll nearer the time.

PT noted that some people had had trouble accessing this number and indicated that other alternative suggestions were welcome. Skype was noted to be unavailable for some participants from their work location.