POAweather Ding 2012

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1 Intro

This is a data extraction from the POAweather project for Ning Ding, NCEPH staff member.

2 This document is an executable script

This document is produced from an R script that mixes computer code with narrative.

The structure of this document follows the - *Reichian load, clean, func, do* approach http://stackoverflow.com/a/1434424 first put forward by Josh Reich. The workflow is implemented here using the ProjectTemplate package http://projecttemplate.net/ by John Myles White.

3 Citation Requirements

Use of these data is open to all staff and students at NCEPH however do require the citations in the Reference list be cited in all publications.

The POAweather project should be cited. It is a combination of code and data produced from the original paper by Hanigan, Hall and Dear in 2006 [1] which compared 5 simple methods for estimating exposure to weather variables for populations of small areas (postcodes). The updated source codes are available from [2].

The source data are from the BoM [3] and the ABS [4] and are hosted at the National Centre for Epidemiology and Population Health of The Australian National University (using a PostgreSQL database http://www.postgresql.org with the PostGIS spatial extension http://postgis.refractions.net).

4 Authorship Requirements

These data must only be used by projects that produce NCEPH output, i.e. authorship and/or grant funding where an NCEPH staff member is a major participant.

5 Statement of Compliance

Details	User
Name:	
Organisation:	
I agree to abide by these requirements:	
Date:	

6 The Codes

6.1 main.r

This file is used to run the load, clean, func and do modules. It is found in the root of the project directory.

6.2 load.r

6.3 clean.r

6.4 func.r

6.4.1 lib

6.4.2 connect2postgres

6.4.3 postIDW

6.4.4 weathervars

6.5 do.r

6.5.1 do-prototype.r

6.5.2 do-final-run

7 Conclusion

8 References

References

[1] Ivan Hanigan, Gillian Hall, and Keith Dear. A comparison of methods for calculating population exposure estimates of daily weather for health research. *International journal of health geographics*, 5(1):38, 2006.

[2] Ivan C. Hanigan. POAweather. [[https://github.com/ivanhanigan/POAweather][https://github.com/ivan 2012.

[3] National Climate Centre of the Bureau of Meteorology. *Daily or three hourly weather data for Bureau of Meteorology stations.* 700 Collins Street Docklands VIC 3008, AUSTRALIA;, 2010.

[4] Australian Bureau of Statistics. 2923.0.30.001 - Census of Population and Housing: Census Geographic Areas Digital Boundaries, Australia. [[http://www.abs.gov.au/AUSSTATS/abs@.nsf/DetailsPage/2923.0.30.0012006?OpenDocument][http:// 2006.