

PROPOSAL FOR NEW AGREEMENT FOR EXTRAMURAL RESEARCH AT UNIVERSITIES, COLLEGES AND OTHER RESEARCH BODIES

To: Procurement

Will you please negotiate a formal agreement for extramural research as described and approved below.

1. Short title of Research.

Modelling Assessment for DECC G20 Project (Projected changes in impacts to 2050 and 2100).

2. Description of Research:

To provide quantitative information on impact metrics directly related to water resources, fluvial flood risk, crop suitability and crop productivity, drought and cooling and heating degree days.

3. Deliverables:

a. Anticipated outputs or Results

1. An interim report on the impact metrics noted in section 2 above, for the following 24 countries: South Africa, Egypt, Kenya, Argentina, Brazil, Mexico, Canada, USA, Peru, China, Japan, Republic of Korea, India, Indonesia, Saudi Arabia, Turkey, Bangladesh, Russia, UK, Italy, France, Germany, Spain, Australia. The interim report should contain brief information on methods, plus the initial presentation of results.
2. A final report on the impact metrics noted in section 2 above, for the following 24 countries: South Africa, Egypt, Kenya, Argentina, Brazil, Mexico, Canada, USA, Peru, China, Japan, Republic of Korea, India, Indonesia, Saudi Arabia, Turkey, Bangladesh, Russia, UK, Italy, France, Germany, Spain, Australia. The final report should contain three main elements: a) full description of methods for producing the metrics, b) full description of the results for each metric, for each country above, and c) conclusions.

The reports above will be based on the 58 member HadCM3C ensemble using the A1B and RCP2.6 scenarios, and if relevant, two simulations from HadGEM2-ES.

b. Tasks to be performed by each Party

- (1a) Simulation of the global-scale hydrological impacts under the 58 member HadCM3C ensemble set
- (1b) Simulation of effects on global crop (soybean, wheat, maize) productivity under the 58 member HadCM3C ensemble set
- (1c) Calculation of global crop suitability indicators under the 58 member HadCM3C ensemble set
- (1d) Calculation of global drought indicators (SPI) under the 58 member HadCM3C ensemble set
- (1e) Calculation of global heating and cooling indicators under the 58 member HadCM3C ensemble set
- (2a) Calculation of hydrological indicators, flood indicators and water resources stress indicators over the 24 countries / regions
- (2b) Calculation of crop productivity indicators over the 24 countries/regions
- (2c) Calculation of crop suitability indicators over the 24 countries/regions
- (2d) Calculation of drought indicators over the 24 countries/regions
- (2e) Calculation of heating/cooling indicators over the 24 countries/regions

c. Timetable of Project Milestones

1. 25th March – start assessment
2. 30th June – interim report as outlined above
3. 29th July – final report as outlined above

4. Research Body

a. Address of extramural body

Walker Institute
Agriculture Building
University of Reading, Earley Gate

Reading, RG6 6AR, UK

b. Name of contacts for;

(i) Contractual matters: [REDACTED]

(ii) Technical matters: [REDACTED]

5. Project Management:

a. Supervisor of extramural research team to be named in the Agreement as the Principal Investigator: [REDACTED]

b. Responsibilities of Principal Investigator

Supervise and coordinate the modelling assessment, and collate/write deliverable reports. Contribute to the writing and review of the final products produced for the customer.

c. Project Meetings frequency, location, and representative of each Party

One meeting at DECC (timing to be confirmed) to present results. Regular teleconferences to be held between the Walker Institute and the Met Office (fortnightly) to discuss progress.

d. Location where the Project is to be carried out: Walker Institute

6. Equipment to be provided by each Party (and whether, if provide by the other, it is donated to the other or is on loan until the end of the Project. If any equipment is on loan whose responsibility is it for keeping it in good condition, maintaining and insuring it?)

a. Equipment to be provided by the Met Office
no non standard equipment is needed

b. Equipment to be provided by the Research Body
no non standard equipment is needed

7. Request for Single Tender:

Reasons why this research cannot be provided by any other organisation

Note: Single Tender has already been awarded by Procurement ([REDACTED] – 15/3/11).

8. Are any patents concerned or likely to arise?

No

9. Originator of proposal.

[REDACTED]

10. Met Office Key Personnel:

[REDACTED] and [REDACTED]

11. Security classification of the work (this should normally be unclassified).

Unclassified

12. Notice Period

In case of termination, how many months notice are to be given to the extramural body?

2

13. Do you confirm that similar work is not being undertaken by any other Branch or Establishment of the Ministry of Defence or other Government Departments?

Yes

14. Period

- a. Start date of Agreement: 25th March 2011
- b. End date of Agreement: 30 September 2011
- c. The Agreement is to be let for:
 - (i) The full duration,

Note: Delivering on time will NOT be affected by the contract being set up after the start date.

15. Progress Reports

- a. Progress reports required at intervals of: 30 June and 29 July for deliverables. Every two weeks by phone.
- b. Number of copies required: N/A
- c. Number of copies of final report required: N/A

16. Copies of Agreement required for:

Tamasine Woods, Paula Newton, Sandra Pearson, Elizabeth Spedding

17. Estimated cost of research.

£ 50,000 (excluding any VAT if appropriate)

18. Will there be any contribution to the costs by the extramural body?

FQAs to be used: FQA 1: RFDURB

FQA 2: K699

FQA 3: 00000

19. Intellectual Property Rights:

a. Details of any Background (existing) IP Material that the Met Office must provide

None

b. Details of any Background IP Material that the Research Body must provide

Model data to Met office on crop yields/productivity, water stress indicators, drought, flooding and crop suitability, and heating and cooling degree days.

c. Details of any Background IP Material that is to be obtained by either Party from a third party.

None

20. Please note any relevant background points which could help Procurement in negotiations, particularly with regard to Intellectual Property Rights.

None

h. 2. 2010