



Madrid – April 5, 2011

## ICCAT CIRCULAR # 1309 / 2011

**Subject: TERMS OF REFERENCE – CALL FOR TENDERS – GBYP 05/2011  
AERIAL SURVEY ON SPAWNING AGGREGATION (ICCAT/GBYP Phase 2)**

I have the honor to transmit to you the attached the Terms of Reference - Call for Tenders GBYP 05/2011 for “Aerial Survey on Spawning Aggregation” of the ICCAT Atlantic-Wide Research Programme on Bluefin Tuna (GBYP).

This information has been translated to French and Spanish by the ICCAT Secretariat.

Please accept the assurances of my highest consideration.

  
Driss Meski  
Executive Secretary

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#### **Cooperating Parties, Entities, or Fishing Entities (English):**

Chinese Taipei H.Y. Huang  
Guyana D. Permaul  
Curaçao S. Mambi

cc : Head Scientists

Attachment: Terms of Reference / Call for Tenders  
Budget  
Sampling Design (in pdf)

**TERMS OF REFERENCE**  
**CALL FOR TENDERS GBYP 05.2011**  
**AERIAL SURVEY ON SPAWNING AGGREGATION**  
**ATLANTIC WIDE RESEARCH PROGRAMME ON BLUEFIN TUNA (ICCAT-GBYP Phase 2)**

**Background and objectives**

The comprehensive ICCAT Atlantic Wide Research Programme on Bluefin Tuna (GBYP) is required to improve basic data collection, the understanding of key biological and ecological processes, assessment models and management.

An important element of this programme is to carry out aerial surveys by transects in the Mediterranean of the spawning population where and when schools are traditionally sighted close to the surface to support the development of fishery-independent indices. As part of this programme, scientific Institutes and public or private entities are asked to submit tenders to carry out the surveys.

**Contractor tasks**

The Contractor, who will work in close consultation with the ICCAT GBYP Coordinator and the Steering Committee, will conduct aerial surveys of one or more sub-areas covering spawning aggregations, identified in the attached maps, according to the sampling design provided in attached. The four sub-areas to be surveyed are the followings: 1, 2, 3CM, and 6. The Contract has the responsibility for obtaining the flight permits.

The operational budget for the 2nd year survey campaign is sufficient for at least two replicates (surveys) for each area, (plus a maximum of 20% days stand-by time for adverse weather conditions).The offer is to specify the following: (a) type of aircraft (adequate for aerial spotting, possibly with upper wings, two propellers and good forward visibility, mandatory equipped with bubble windows, one on each side); (b) availability of a pilot and a professional tuna spotter; (c) availability of two scientific spotters, who pertain to scientific Institutions independent from the fishing industries; d) the number of surveys and survey time provided for each sub-area.

The surveys will be conducted only on bluefin tuna spawning aggregations in the period between June 1, 2011 to June 30, 2011, by several aircraft in the various sub-areas, at a spotting altitude of 300 m. The distance covered in a one hour flight should be about 100 nm, with about 6 flight hours on duty per day. It is reasonable to take into account adverse weather forecast of 20% of the days (bad weather condition means winds over 3 or 4 on Beaufort scale, or low clouds at less than 300 m altitude, or heavy rain, which prevents a reliable observation of tuna schools close to the sea surface).

The tender should be able to provide a GPS recording of all flights and sighting positions, together with the necessary way points when relevant. All sightings shall be documented with photos, preferentially using a high resolution, geo-stabilised, GPS tagging, electronic camera. All photos shall be delivered along with the final report.

Each Contractor, in case of award, shall ensure the participation of one official representative, the pilot(s), the professional spotter(s) and the scientific spotters to a training course (3 days) to be held at the ICCAT Secretariat in May 2011, on a short notice. The participation to the course is mandatory. The Contractor shall provide photos of all the staff working at the survey on the first day of the training course at the latest.

**Contractor minimum qualifications**

- Documented multi-year experience in bluefin tuna studies and/or aerial surveys or censuses of marine populations; previous experience in tuna aerial survey will be preferential.
- Availability of an adequate aircraft for aerial spotting, including a technical description of the aircraft equipped with two bubble windows (one on each side), piloted by a licensed pilot having documented experience in this field.
- Availability of at least one professional tuna spotter, who has documented multiyear experience in this field.

- Availability of at least two scientific observers, preferably with previous experience in tuna fisheries or biology, aerial surveys and/or census of marine populations, and who pertain to scientific Institutions independent of the fishing industries and who hold a university degree in one of the following: Fisheries Science, or Marine Biology or Natural Sciences or Biological Sciences or Environmental Sciences or closely related fields.
- Excellent working knowledge of one of the three official languages of ICCAT (English, French and Spanish). A high level of knowledge of English is highly desirable.
- Bank or Insurance guaranty for the amount of the contract, to be provided before the signature of the eventual contract.

### **Request for bids**

Interested entities should submit an offer to the ICCAT Executive Secretary ([driss.meski@iccat.int](mailto:driss.meski@iccat.int)) and, in copy, to the ICCAT GBYP Coordinator ([antonio.dinatale@iccat.int](mailto:antonio.dinatale@iccat.int)) by **April 22, 2010**, including:

- a) A detailed offer, describing the sub-area(s) where the aerial survey will be carried out (for the identification of the sub areas, please refer to the attached maps), the type of spotting aircraft to be used for the survey, the minimum number of flight hours to be guaranteed in total, the maximum number of stand-by days, the date for the interim report and the date for the final report;
- b) The curricula of the pilot, the professional spotter and the scientific observers;
- c) The Curriculum of the institution or company;
- d) Applying for the GBYP Aerial Survey 2011, with any documented experience in aerial survey or marine population survey, to include recent and relevant contracts for the same or similar items and other references (including contract numbers, points of contact with telephone numbers and other relevant information);
- e) A preliminary estimated budget for the aerial survey, taking into account the proportion of the 1°x1° quadrants to be explored over the total of the quadrants where spawning activities were identified on the attached maps, and any discount terms (please use the attached table).
- f) The name, address, and telephone number of the tendering body;
- g) The institutional and administrative background of the tendering body (e.g.: statutes, type of institution, annual budget, budget control procedures, etc.).
- h) If the aircraft proposed for the survey does not belong to the tendering body, then a declaration from its owner should be included, to define the availability of the aircraft for this duty and to ensure that the aircraft is properly insured for all risks by a primary insurance company; a copy of the subcontract or MOU should be also provided;
- i) A detailed list of any subcontracting activities;
- j) The declaration that the offering Institution will strictly follow the aerial survey design provided by ICCAT prior to the beginning of the surveys, along with the forms to be used for the survey, and the administrative rules specified on the contract;
- k) A declaration that all the comments eventually made on the draft final report will be incorporated in the final report prior to the submission to the ICCAT SCRS.
- l) A completed copy of the operating license and authorization (if applicable) and any administrative document, released by the competent public authority, demonstrating that the offering institution is authorized to operate the aerial survey;
- m) A declaration that the offering Institution will provide an insurance guaranty for the full amount of the contract, before its signature;
- n) A declaration that the offering institution will be covered by a full insurance for the aerial survey to be carried out according to the Call for Tenders, excluding the ICCAT from all the responsibilities concerning the job to be done by each offering institution;
- o) Acknowledgment of this Call for Tenders (if applicable);

- p) A statement specifying the extent of agreement with all terms, conditions, and provisions herein included.

Offers that fail to furnish the required documentation or information, or reject the terms and conditions of the Call for Tenders may be excluded from consideration.

Contractors can be either research institutions such as government or private laboratories, universities, or private consultancy firms or other entities having the qualifications required.

The Contractor should be available to report to any meeting requested by ICCAT.

The Contractor shall be available to take on board an ICCAT-GBYP inspector at any time, on a short notice.

The ICCAT Secretariat will make a selection of the offers and, in consultation with the ICCAT GBYP Steering Committee, will decide the contract(s) to be awarded. The ICCAT Secretariat will notify the result of the selection process by the end of April, 2011.

### **Deliverables**

- 1) A preliminary short report to be submitted at the latest by **June 20, 2011**, including the description of the work carried out up to that date;
- 2) The draft final report to be submitted at the latest by **July 31, 2011**, including:
  - a) Full description of the work carried out during the aerial survey;
  - b) Detailed description of the methodology;
  - c) Detailed maps of the areas in which the aerial survey was carried out, according to the aerial survey design;
  - d) Maps with the GPS track of the survey, by date;
  - e) Detailed maps of the sightings, with GPS positions;
  - f) Official sighting forms, complete with full details;
  - g) Complete copy of the photos and videos taken during the survey (on DVD), including their reference;
  - h) Scientific report, prepared taking into account the aerial survey design and the relevant literature;
  - i) Summary.
- 3) A PowerPoint presentation of the main results to the ICCAT SCRS 2011 Bluefin Species Group Session or to any other ICCAT SCRS meeting.
- 4) The definitive final report, to be prepared taking into account the eventual comments provided by ICCAT and to be submitted by **September 23, 2010** at the latest.

### **Payment details**

Disbursements will be made according to the following schedule:

1. 40% of the total amount of the contract upon signing of the contract;
2. 40% upon completion of the interim report;
3. 20% after the approval of the final report by the ICCAT SCRS upon incorporation of comments by the ICCAT GBYP Steering Committee and the approval of the administrative documents.

### **Logistics**

All documents provided by the Contractor must be in MS Word or compatible software, tables must be in Excel format or compatible, figures and pictures must be in JPEG or TIFF format or compatible. All documents submitted must be in English, French or Spanish.

### **Copyright**

All of the material produced by the Contractor will remain the property of ICCAT/GBYP and it must be kept confidential.