

2003

## Joint Research Agreement

Port of Nagoya Public Aquarium (hereinafter referred to as "PNPA") and Pacific Islands Fisheries Science Center, National Marine Fisheries Service, National Oceanic and Atmospheric Administration (hereinafter referred to as "NOAA") have entered into this agreement to jointly perform investigation and research (hereinafter referred to as "Joint Research") of the migration route of sea turtles as follows:

(Purpose)

### Article 1

The Joint Research shall be performed in accordance with the investigation and research purpose set forth in Exhibit A.

(Contents)

### Article 2

The Joint Research shall be performed in accordance with the items described hereunder:

- (1) To investigate the migration route of sea turtles using the Argos System by attaching satellite tracking devices to sub adults being raised at PNPA of its related facilities, or adults found in the wild, and then releasing them into the Pacific Ocean.
- (2) The achievement attained by the Joint Research shall be shared by PNPA and NOAA, and such achievements may be offered to a third party with the consent of both parties.
- (3) Neither PMPA nor NOAA shall take any action contrary to the purpose of the Joint Research.
- (4) PNPA may, within the framework of the Joint Research, exhibit the contents and achievements of the Joint Research at the facilities of PNPA.

(Term)

### Article 3

The term of the Joint Research shall be up to March 31, 2004 from the date of this Agreement, provided that such term may be extended under mutual consultation between PNPA and NOAA.

(Cost sharing)

### Article 4

PNPA and NOAA shall share the costs and expenses necessary for the Joint Research as follows:

#### 1 Scope of cost sharing by PNPA:

- (1) To provide the individual sea turtles to be used for the Joint Research.
- (2) Costs incurred for animal transport and transportation devices.

#### 2 Scope of cost sharing by NOAA:

- (1) Costs incurred for satellite tracking devices for the Joint Research.
- (2) Costs incurred for attachment of satellite tracking devices to the sea turtles.
- (3) Costs incurred for collection of migration route tracking data and other necessary data for analysis of analysis of the marine environment.

Any matters not provided for herein shall be determined through mutual consultation between PNPA and NOAA on each occasion.

(Cancellation of Agreement)

Article 5

Either PNPA or NOAA shall cancel this Agreement if any one the following is applicable:

- (1) Neither PNPA nor NOAA proposes extension of this Agreement when the term of this Agreement is expired.
- (2) When it is determined that the purpose of this Agreement may not be attained.
- (3) When there is a failure to achieve any of the items set forth in this agreement.
- (4) When either PNPA or NOAA proposes termination of this Agreement.

(Risk bearing)

Article 6

1. In the event that any loss arises out of execution of the Joint Research, PNPA and NOAA shall respectively bear such losses within the scopes as set forth in Article 4.
2. In the event that execution of the Joint Research results in any loss for a third party, PNPA and NOAA shall respectively compensate such losses on a pro rata basis of the respective responsibility.

(Disclosure)

Article 7

PNPA and NOAA shall consult each other with regards to disclosure of any matters provided herein.

(Others)

Article 8

Any matters that are not provided herein or any new doubts that arise from this Agreement shall be determined through consultation between PNPA and NOAA on each occasion.

IN WITNESS WHEREOF, the Parties hereto have executed this Agreement in duplicate with their names, and a copy shall be retained by each party.

Date:

For PNPA:

Itaru Uchida  
Director  
Port of Nagoya Public Aquarium

For NOAA

George H. Balazs  
Leader  
Pacific Islands Fisheries Science  
National Marine Fisheries Service  
National Oceanic and Atmospheric  
Administration

Exhibit A

Purpose of investigation and research

The hatchlings of loggerhead turtles born at beaches in Japan move northward in the Kuroshio Current that follows from the south to the north of the Japanese Islands, and then turn toward the east before gradually moving away from the coast of Japan.

They move further toward the east by the North Pacific Current, and then southward after reaching the waters off the west coast of the North American continent via the sea adjacent to Hawaii. It is thought that they grow while migrating in the North Pacific Ocean due to the effects of the California and Pacific North Equatorial Currents.

However, very little empirical research has thus far been conducted in the oceans covering loggerhead turtles born in Japan.

The purpose of this investigation and research, therefore, is to clarify the loggerhead turtles' marine ecology, including their migration route.