



**THE FIRST SEAFDEC MEETING ON
REGIONAL SEA TURTLE DATA MANAGEMENT**

Kuala Terengganu, Malaysia 20 – 21 November, 2000

COUNTRY REPORT

**TAGGING PROGRAMME AND POPULATION STATISTICS ON
SEA TURTLES IN INDONESIA**

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Jakarta, November 2000



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1. INTRODUCTION

In the year 1978, three species sea turtles in Indonesia was protected, and in the year 1999 all the Sea Turtles (6 species) have been protected base on regulation of government No. 7, 1999 concerning Preservation of Fauna and Flora. The six species Sea Turtles are *Dermochelys coriacea*, *Eretmochelys imbricata*, *Chelonia mydas*, *Lepidochelys olivacea*, *Natator depressus*, and *Caretta caretta*.

As general the problems in management the sea turtles in Indonesia can be classified as follows:

- Using of sea turtles as food and livelihood for local community;
- Using products of sea turtles or their parts to commercial purposes;
- Damaging of sea turtles as consequence on fish catching activities;
- Damaging of coastal as nesting habitat for sea turtles;
- Water pollution.
- Etc.

This phenomena is founded at several region in Indonesia i.e. Bali, East Borneo, Riau, and Irian Jaya. According to all sea turtles including migratory species and they have migratory behavior differences, then conservation efforts must be enhanced.

2. MANAGEMENT OF SEA TURTLES AND ITS IMPLEMENTATION IN INDONESIA

The main objective of national sea turtle conservation strategy:

1. Population status have been protected;
2. Species status in Indonesia with reference to CITES (Appendix I);
3. Marine turtle sanctuaries and protected habitat.



The distribution area of sea turtles in Indonesia can be classified as follows:

No.	Species	Distribution Area
1.	<i>Caretta caretta</i>	No found nesting in Indonesia
2.	<i>Dermochelys coriacea</i>	Java, Kepulauan Kei, Bengkulu, Manokwari
3.	<i>Eretmochelys imbricata</i>	Kalimantan, Riau, Sulawesi, East Java
4.	<i>Chelonia mydas</i>	Java, Sumatera, Bali, Kalimantan, Irian Jaya
5.	<i>Lepidochelys olivacea</i>	East Java
6.	<i>Natator depressus</i>	Irian Jaya

Institution and organization have responsible and care to conserve the sea turtles in Indonesia i.e.:

- Directorate General of Nature Protection and Conservation;
- Minister of State of Environmental;
- Department Marine and Fishery;
- WWF;
- Kehati Foundation;
- And others NGO's.

3. TAGGING PROGRAM

Tagging activity in Indonesia has been executed since year 1984. The tag material made plastic and no standard, until the data can not compiled perfectly. As the fact of tagging activity was reported by Meru Betiri National Park that they ever founded return to landing in Indonesia. Indonesia has been using three tag code, i.e.:

1. Tag number : 001; 002; 050; 090; etc
Material : Titanium, plastic
Location : Kepulauan Seribu National Park and Segama island (Lampung province)
2. Tag number : IN 001; IN 0010; IN 2088; etc
Material : Inconel
Location : Pesemut Island
3. Tag number (SEAFDEC) : ID 0001 until ID 1000; ID 1001 until 2000
Material : Inconel



Realization:

- 1998 to 2000 (May 2000) : 82 sea turtles (see Annex)
 Location : Kepulauan Seribu National Park
 Organizer : PKA-Japan Bekko Association (JBA)
- September 1996 to October 2000 : 49 sea turtles (see Annex)
 Location : Segama Besar, Pesemut, and Memperang
 Organizer : Alam Lestari Foundation

September 25, 2000 to September 28, 2000: 9 sea turtles

Tag Number	Landing Date	Tag Position	CCL (cm)	CCW (Cm)
ID 0524	September 25, 2000	Right	92.9	83.0
ID 0501	September 25, 2000	Right	103.9	91.7
ID 0523	September 25, 2000	Left	104.5	94.3
ID 0576	September 28, 2000	Left	94.6	88.5
ID 0503	September 28, 2000	Left	104.1	96.0
ID 0521	September 28, 2000	Left	94.9	87.8
ID 0522	September 28, 2000	Left	105.0	94.7
ID 0504	September 28, 2000	Left	101.6	91.3
ID 0505	September 28, 2000	Left	99.5	93.5

Location: Berau (East Kalimantan)
 Organizer: KEHATI Foundation

4. MONITORING POPULATION STATISTIC

Monitoring population on sea turtle has been executing on several location in Indonesia. The locations are Alas Purwo NP, Meru Betiri NP, Kepulauan Seribu NP, West Java (Cipatujah and Pangumbahan), and Berau (East Kalimantan). Based on data collecting is reported approximately 138 nesting site on several habitat in Indonesia. As you may be aware on the reality at field to take some obstruction especially fulfill of SEAFDEC form which implementation in field is not easy (until data cannot complete) and restrictedness budget.

Hatching process (as form SEAFDEC) in Indonesia with way semi natural hatching. Using of sea turtle especially their eggs by local community will be directed on sustainable use. The methods can accommodation the problems are divide regulation of eggs number that may used and restocking purposes (50%:50%), rearing process, Captive breeding, and ecotourisme.



Conservation efforts have been executed as solution of the problems by Directorate General of Nature Protection and Conservation as follows:

- Law enforcement;
- Conservation extension;
- Pacification effort;
- Monitoring on research station at several National Park (Alas Purwo National Park, Meru Betiri National Park, Kepulauan Seribu National Park) and work area by responsible our regional office (BKSDA), in West Java Province, Irian Jaya Province, East Borneo Province, and others places.
- Population inventory.
- Tagging Programme.
- Ecotourism.



Sea Turtle Tagging Information

Year : 1998 - 2000
Country : Indonesia
Area/Location : Kepulauan Seribu National Park
Tag starting number :
Species : Hawksbill

Tag number	Landing date	No. of egg	Hatching date	No. of hatch	% hatching	SCL (cm)	SCW (cm)
2213 / 2214	25/10/98	-	-	-	-	42.3	32.3
2215 / 2216	25/10/98	-	-	-	-	34.5	29.1
2217 / 2218	25/10/98	-	-	-	-	39.0	32.5
2219 / 2220	25/10/98	-	-	-	-	37.6	31.1
2251 / 2252	07/12/98	-	-	-	-	40.0	32.5
2223 / 2293	20/02/98	-	-	-	-	36.0	31.5
2221 / 2222	01/03/99	-	-	-	-	37.5	31.5
2261 / 2225	18/03/99	-	-	-	-	40.5	33.4
2129 / 2124	11/04/99	-	-	-	-	41.5	33.4
2954 / 2978	11/04/99	-	-	-	-	19.0	14.7
2235 / 2236	11/04/99	-	-	-	-	21.6	16.5
2237 / 2238	11/04/99	-	-	-	-	25.3	20.1
2240 / 2241	11/04/99	-	-	-	-	26.5	20.1
2244 / 2245	11/04/99	-	-	-	-	28.8	21.7
2233 / 2234	11/04/99	-	-	-	-	24.4	17.7
2246 / 2247	11/04/99	-	-	-	-	33.9	24.7
2248 / 2249	11/04/99	-	-	-	-	20.3	15.6
2968 /	11/04/99	-	-	-	-	15.0	11.6
2971 /	11/04/99	-	-	-	-	13.2	10.1
2979 /	11/04/99	-	-	-	-	11.8	9.0
2962 /	11/04/99	-	-	-	-	12.6	10.7
2998 /	11/04/99	-	-	-	-	12.9	10.0
2991 /	11/04/99	-	-	-	-	12.3	9.6
2193 / 2194	13/04/99	-	-	-	-	35.8	26.9
2195 / 2196	13/04/99	-	-	-	-	41.3	32.2
2197 / 2198	15/04/99	-	-	-	-	40.1	35.7
2144 / 2243	15/05/99	-	-	-	-	63.3	48.7
2143 / 2142	15/05/99	-	-	-	-	48.0	38.9
2137 / 2136	15/05/99	-	-	-	-	55.9	46.5
2259 / 2269	02/08/99	-	-	-	-	45.2	36.8
2101 / 2116	14/11/99	-	-	-	-	30.5	24.5
2239 / 2242	14/11/99	-	-	-	-	67.9	45.4
2292 / 2079	14/11/99	-	-	-	-	54.9	43.5



Sea Turtle Tagging Information

Year : 05 Sep 96 – 8 Oct 2000
Country : Indonesia (Yayasan Alam Lestari)
Area/Location : Segama Barat, Pesemut, Momperang
Tag starting number :
Species : Hawksbill

Tag number	Landing date	No. of egg	Hatching date	No. of hatch	% hatching	CCL (cm) SCL	CCW (cm) SCW
004/005	05-Sep-96	-	-	-	-	75.3	56.0
077/078	08-Dec-97	-	-	-	-	79.5	58.0
079/080	08-Dec-97	-	-	-	-	78.0	64.5
081/083	16-Dec-97	-	-	-	-	81.4	59.4
082/085	20-Dec-97	-	-	-	-	77.0	56.0
084/086	20-Dec-97	-	-	-	-	80.0	57.0
088/090	23-Dec-97	-	-	-	-	81.0	61.5
IN 012/IN 011	29-Mar-98	-	-	-	-	82.3	61.5
IN 2180/IN 2181	31-Jan-99	-	-	-	-	74.7	55.1
IN 2275/IN 2274	03-Feb-99	-	-	-	-	75.6	55.8
IN 2253/IN 2254	04-Feb-99	-	-	-	-	76.7	58.2
IN 2262/IN 2263	06-Feb-99	-	-	-	-	79.9	57.2
IN 2258/IN 2257	07-Feb-99	-	-	-	-	79.1	58.8
IN 2089/IN 2088	08-Feb-99	-	-	-	-	73.3	57.2
IN 2055/IN 2056	08-Feb-99	-	-	-	-	84.2	61.2
IN 2199/IN 2289	23-May-99	-	-	-	-	75.6	55.4
ID 0001/ID 0002	24-May-99	-	-	-	-	77.7	54.2
ID 0024/ID 0023	06-Aug-99	-	-	-	-	80.3	59.9
ID 0008/ID 0007	09-Aug-99	-	-	-	-	78.3	58.3
ID 0012/ID 0011	13 Aug-99	-	-	-	-	76.7	57.1
ID 0015/ID 0016	07-Feb-00	-	-	-	-	81.7	54.1
ID 0014/ID 0013	09-Feb-00	-	-	-	-	78.6	56.6
ID 0032/ID 0031	13-Feb-00	-	-	-	-	77.0	56.8
ID 0085/ID 0084	29-Feb-00	-	-	-	-	82.8	63.4
ID 0036/ID 0035	03-Mar-00	-	-	-	-	82.5	58.8
ID 0038/ID 0037	07-Mar-00	-	-	-	-	82.4	56.4
ID 0040/ID 0039	05-Apr-00	-	-	-	-	84.3	59.2
ID 0043/ID 0044	06-Apr-00	-	-	-	-	78.2	69.0
ID 0041/ID 0042	08-Apr-00	-	-	-	-	80.2	58.9
ID 0046/ID 0045	30-Apr-00	-	-	-	-	84.6	56.7
ID 0056/ID 0057	05-Oct-00	-	-	-	-	78.7	56.5

**Sea Turtle Tagging Information**

Year : 05 Sep 96 – 8 Oct 2000
Country : Indonesia (Yayasan Alam Lestari)
Area/Location : Segama Barat, Pesemut, Momperang
Tag starting number :
Species : Green

Tag number	Landing date	No. of egg	Hatching date	No. of hatch	% hatching	CCL (cm) SCL	CCW (cm) SCW
ID 0003/ID 0004	24-May-00	-	-	-	-	91.4	65.7
ID 0005/ID 0006	24-May-00	-	-	-	-	95.2	69.3
IN 2129/IN 2130	21-May-00	-	-	-	-	87.4	64.1
IN 2131/IN 2133	22-May-00	-	-	-	-	92.5	70.7
IN 2164/IN 2165	22-May-00	-	-	-	-	95.0	71.8
IN 2138/IN 2139	22-May-00	-	-	-	-	95.4	76.0
IN 2140/IN 2141	22-May-00	-	-	-	-	89.3	68.9
IN 2127/IN 2128	23-May-00	-	-	-	-	93.4	69.7
ID 0009/ID 0010	03-Aug-00	-	-	-	-	-	-
IN 2120/IN 2119	06-Aug-00	-	-	-	-	90.9	60.8
IN 2126/IN 2125	06-Aug-00	-	-	-	-	95.9	74.5
ID 0022/ID 0021	13-Aug-00	-	-	-	-	90.4	70.9
ID 0027/ID 0026	12-Feb-00	-	-	-	-	87.4	64.1
ID 0028/ID 0029	12-Feb-00	-	-	-	-	89.0	65.1
ID 0047/ID 0048	21-Jun-00	-	-	-	-	94.5	73.9
ID 0053/ID 0054	02-Oct-00	-	-	-	-	97.3	74.3
ID 0058/ID 0059	07-Oct-00	-	-	-	-	90.5	70.4
ID 0060/ID 0061	08-Oct-00	-	-	-	-	84.4	64.1

LEGEND:

SCL : Straight Carapace Length

SCW : Straight Carapace Width