

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 flows 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.

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名古屋市

f nagoya public aquarium

尾張旭市

目進市

豊田市

段戸山

刈谷市

知多市

日上市

鈴鹿市

伊勢湾
ISE-BAY

蒲郡市

豊橋市

三河湾

渥美半島

AKABASE
9/27/07

release point

鳥羽市

遠州灘

ENSYU-NADA

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George Balazs (left) and Marc Rice with juvenile loggerhead turtles at the Port of Nagoya Public Aquarium.



HPA TEACHER LOGGING LOGGERHEAD SEA TURTLES

Marc Rice, assistant headmaster and science teacher at Hawaii Preparatory Academy, recently participated in the largest single deployment of satellite tagged animals anywhere in the world.

Rice, who also directs the Sea Turtle Research Program at HPA, joined George Balazs, leader of the Hawaiian Marine Turtle Research for the National Marine Fisheries Service (NMFS), Honolulu Laboratory, and several colleagues from Japan in attempting to answer the question of oceanic migratory habits of loggerhead turtles through the use of satellite telemetry.

Hatchling and juvenile loggerhead turtles spend many years in the pelagic waters of the North Pacific Ocean where they feed on planktonic organisms. Their travels during these "lost years" are still somewhat of a mystery although it is known that they will often travel many thousands of kilometers as they circumnavigate the north Pacific basin. During their travels they sometimes are caught by long-line fishermen, both by foreign vessels and domestic ones based in Hawaii. A better understanding of the pelagic migratory habits of juvenile loggerheads could lead to the development of important strategies for the conservation of this species in the North Pacific.

In April 2003, Balazs put out seven satellite tags on juvenile loggerhead turtles from the Port of Nagoya Public Aquarium, Nagoya, Japan. These turtles were fitted with satellite tags and released into a region off the shore of Japan where the Kuroshio current sweeps close to the mainland. The turtles have been tracked for about eight months now and their paths have been amazingly similar, as though they are following some special oceanographic features of the ocean currents. This was not unexpected as it is believed that food items are most abundant along regions where currents converge. By using satellite images of the north Pacific that give temperature, sea level, and other physical and biological (e.g. chlorophyll) measurements, scientists at the NMFS, Honolulu Laboratory will correlate these factors with the observed paths of the tagged loggerheads.

With the introduction of smaller satellite tags this year, it was possible to attach tags to smaller turtles that had

April
2004

been raised at the Port of Nagoya Public Aquarium. The new SPOT 3 tags are small enough that they can be put on turtles that are less than one year old, an age class that was not represented in the earlier studies. Rice and Balazs traveled to Nagoya this past November to deploy 18 satellite tags on 17 loggerhead turtles ranging in size from 25 to 50 centimeters. Each of these tags, as with the previous tags, is fibreglassed to the dorsal carapace of the turtle so that it will remain attached for a period of at least 1.5 years after which it will slough off as the shell grows. This is about the maximum time the batteries will last for the satellite tags.

Over a period of three days, Balazs and Rice attached the tags and placed the turtles into individual pens pending their release. Each of the tags remained in the off mode prior to release in order to conserve battery power. The turtles were to be released on Nov. 26 about 40 miles offshore in the Kuroshio current, but the ocean was extremely rough and the trip was delayed. The turtles remained very safe and healthy in their individual pens.

picked up by the ARGOS satellites passing overhead at that time. Currently, all 17 turtles are transmitting and giving position data on their whereabouts. As the largest single deployment of satellite tagged animals anywhere in the world, this release, because of its numbers, will give the NMFS a much better understanding of the movement of these endangered turtles as they migrate around the north Pacific basin.

Since 1987, HPA and the NMFS, Honolulu Laboratory, have worked together on a project that enables HPA students to assist the federal agency's investigations of turtles in West Hawaii. The work has grown over the years in scope, magnitude, and importance to overall species conservation.

On November 27, the seas calmed just enough to make the voyage on board one of the large ferry boats that travels from Nagoya to Sendai, passing through the edge of the Kuroshio current. At about 6:30 a.m. on Nov. 28, each of the turtles, with names such as "Coco," "Byte," "Masa," "Yoko," and "Ama," was lowered in a basket 30 feet over the side of the ship and released into the ocean. Almost immediately, signals began to be



子ガメに発信器を取り付けるスタッフ

カメの背に発信器

回遊経路解明へ取り付け

名古屋港水族館
房総で25日放流

港区の名古屋港水族館で22日、同館で生まれた子ガメへの電波発信器取

り付け作業が行われた。作業はきょう23日まで続き、計25匹に発信器を取り付け

る。発信器を背負った子ガメは、25日に房総半島沖で放流される。

発信器を取り付けた放流は、同館とNOAA（アメリカ海洋気象庁）が共同で実施している。世界中の温帯の海に生息するアカミガメだが、北太平洋の産卵は現在、日本の太平洋岸でしか確認されていない。メキシコで発見されたアカミガメの遺伝情報をたどると日本で生まれていることから、回遊経路を解明しようとする2003年から行っている。

発信器はマッチ箱よりやや大きい箱型。昨年8月に生まれ、甲長約25センチに成長した子ガメの背に特殊接着剤で取り付けられた。カメが呼吸のために海面に上がってくるたびに、衛星がその位置をキャッチする。

同館によると、03年4月に放流した子ガメは黒潮に乗って約4年かけ、メキシコ沿岸部に到着。途中、寒流と暖流がぶつかってアラシントンが繁殖する潮目や、ハワイ近海で寄り道することが確認されている。

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あかばね塾 代表

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Yasuo

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ウミガメ保護へ 回遊先を追跡

絶滅の恐れがあるアカウミガメの太平洋回遊ルートを追跡している名古屋水族館(名古屋港区)は、同水族館生まれの一歳の子亀二十五匹を今月下旬、太平洋のハワイ

名港水族館 1歳子亀に発信機



アカウミガメの子亀の甲羅に発信機を取り付ける関係者。名古屋港区の名古屋港水族館で

イシガキの西方約二百五十キロの海域で放流する。同水族館では十八日、人工衛星追跡用の電波発信機を子亀の甲羅に装着する作業が行われた。(倉知哲也)

アカウミガメは日本の太平洋岸の砂浜で産卵し、ふ化した子亀は北太平洋海域を東に移動しながら回遊。日本沿岸では成長過程にあるアカウミガメが見つかったことがないため、太平洋で約二十年ほど過ごした後、日本に戻って産卵する

ハワイで放流へ

らしいが、詳しい回遊ルートは不明のまま。同水族館はアカウミガメの保護に欠かせないルート

の保護のため、米海洋大気局(NOAA)と協力して、二〇〇三年から五回にわたって計百匹余りのアカウミガメを帰郷する島知やハワイ沖で放流してきた。今回もマンチ種大の小型電波発信機を、三十匹の子亀に成長した甲羅に取り付け、電気が持続する約一年半の間、回遊ルートを追跡する。この日はNOAA所属でウミガメの生態に詳しい生物学者、ジョージ・バラースさんが子亀一匹一匹の甲羅にガラス繊維シートを張り付け、樹脂を塗りつけて発信機を固定。バラースさんは「アカウミガメが太平洋を舞台に、どう生活しているか、少しずつ解明していきたい」と期待している。子亀は二十日、三谷水産高校(蒲郡市)の実習船「愛知丸」に乗せられて蒲郡港を出航、一週間前後で放流海域に到達する予定。

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Notes:

003419
10/23/2006



Notes:

003422
10/23/2006



Notes:

003422
10/23/2006



2007. Sep. 22

Baby
Honu

To Mr.
Balazs





Sing



Taru
PQR



1 あ" り - あ" い 九

("Mr. Balazs" in Japanese by Lili)



OCT 2006 PNPA

2007. Sep. 22

Baby
Honu

To Mr. Balazs



9



1 あ" り - あ" い ね

("Mr. Balazs" in Japanese by Cili)



OCT 2006 INPA

183



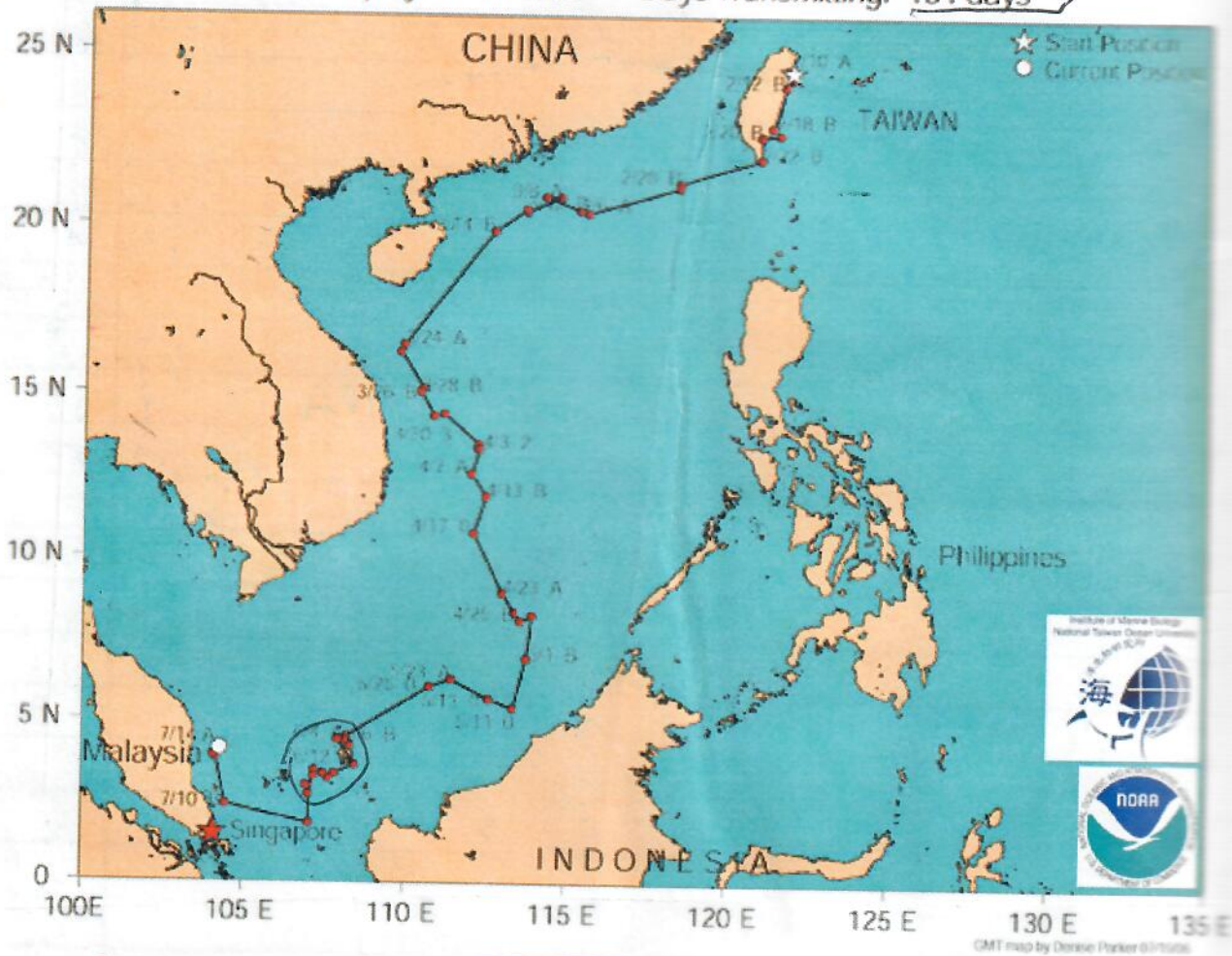
OCT 2006 PNPA

Notes:



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Update and Final as of 9/09/06:
2006 movement of Taiwan coastal net by-catch loggerhead 53771
SPLASH Duty cycle: 6 hours on, 48 hours off SCL: 76.0 cm
Date Deployed: 2/10/06 Days Transmitting: 154 days

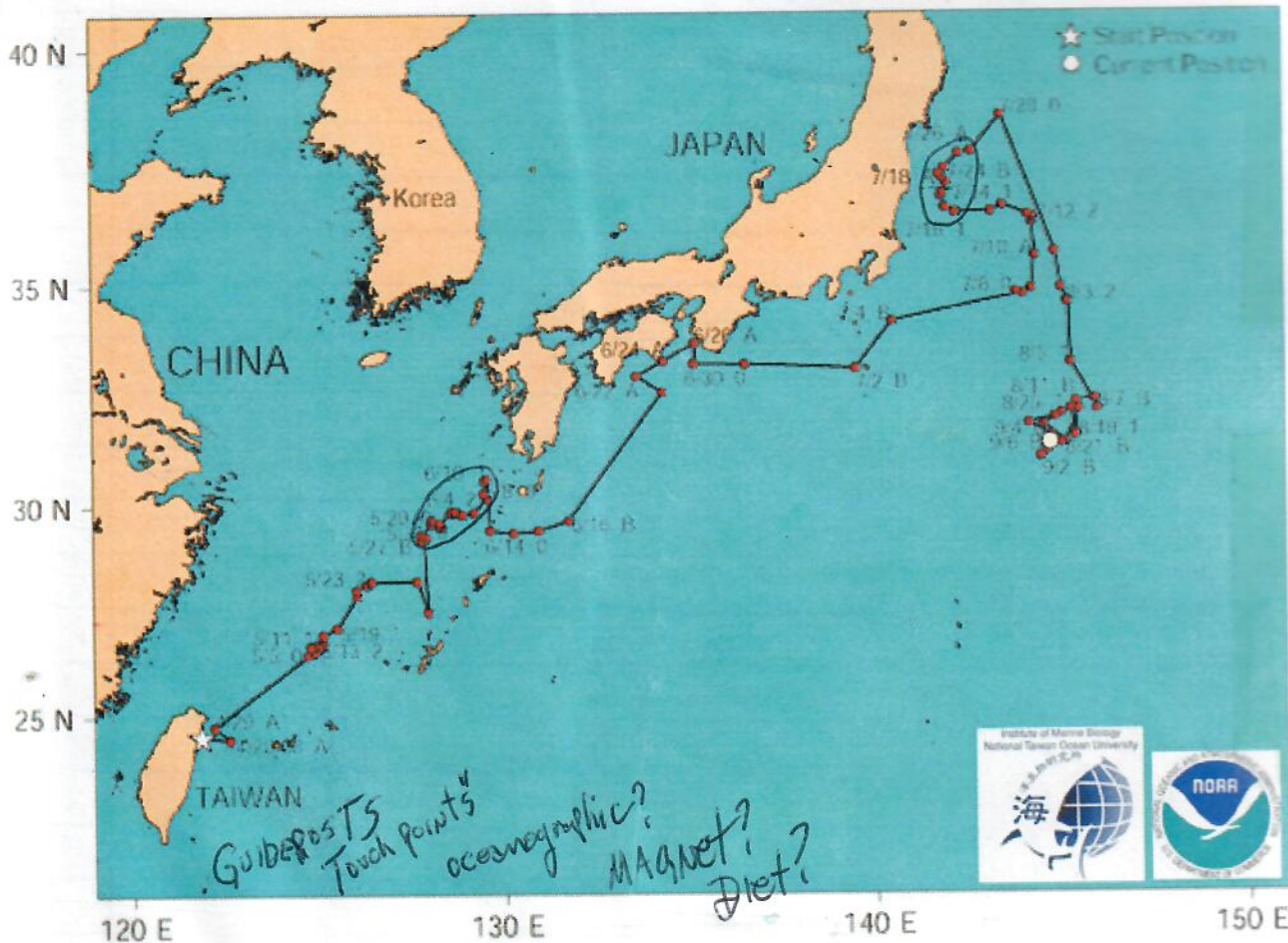


Update as of 9/08/06:

2006 movement of Taiwan coastal net by-catch loggerhead 53768

ST-20 Duty cycle: 6 hours on, 48 hours off SCL: 73.0 cm

Date Deployed: 4/28/06 Days Transmitting: 132 days



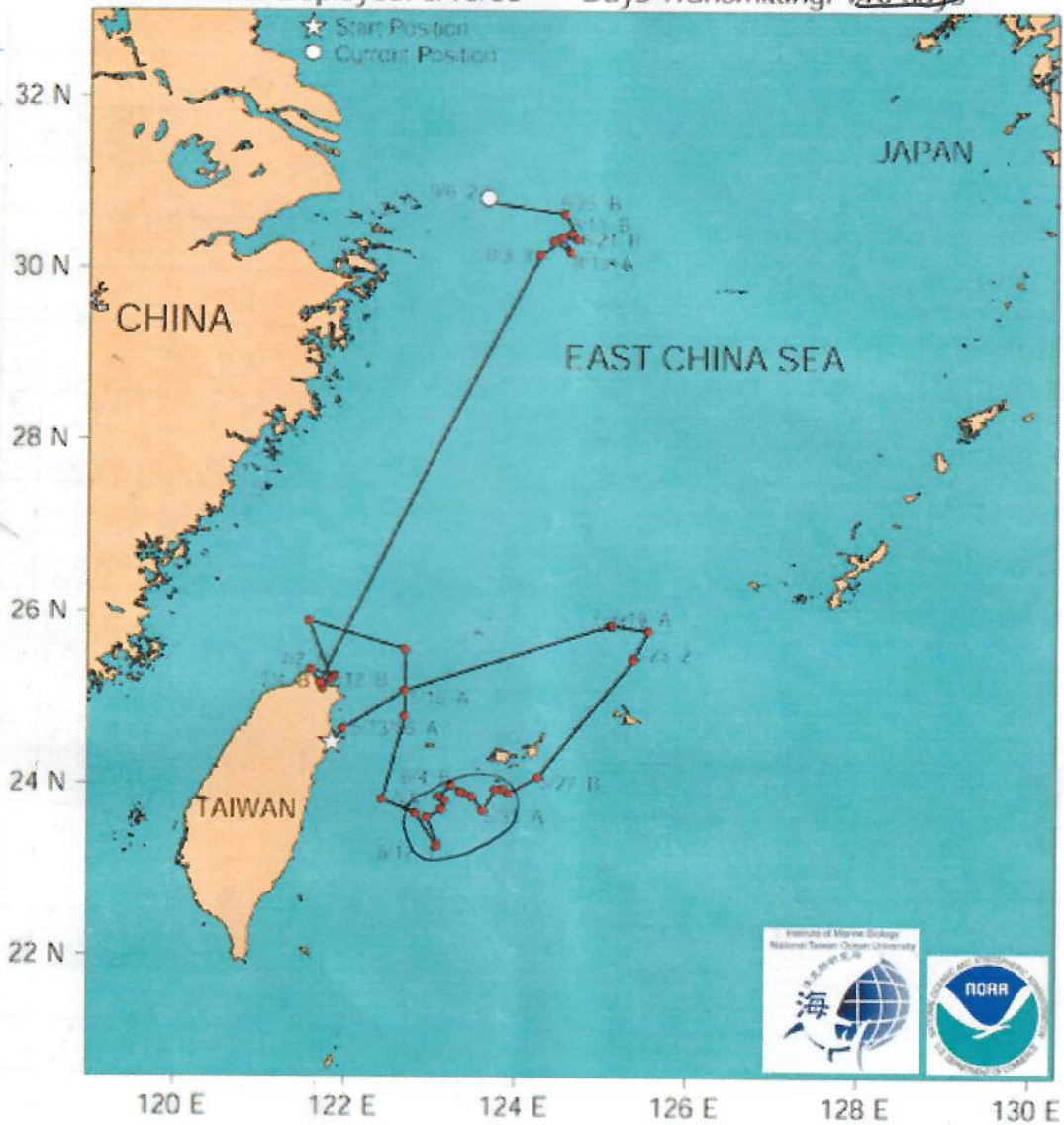
GMT map by Dennis Parker 050905

Update as of 9/08/06:

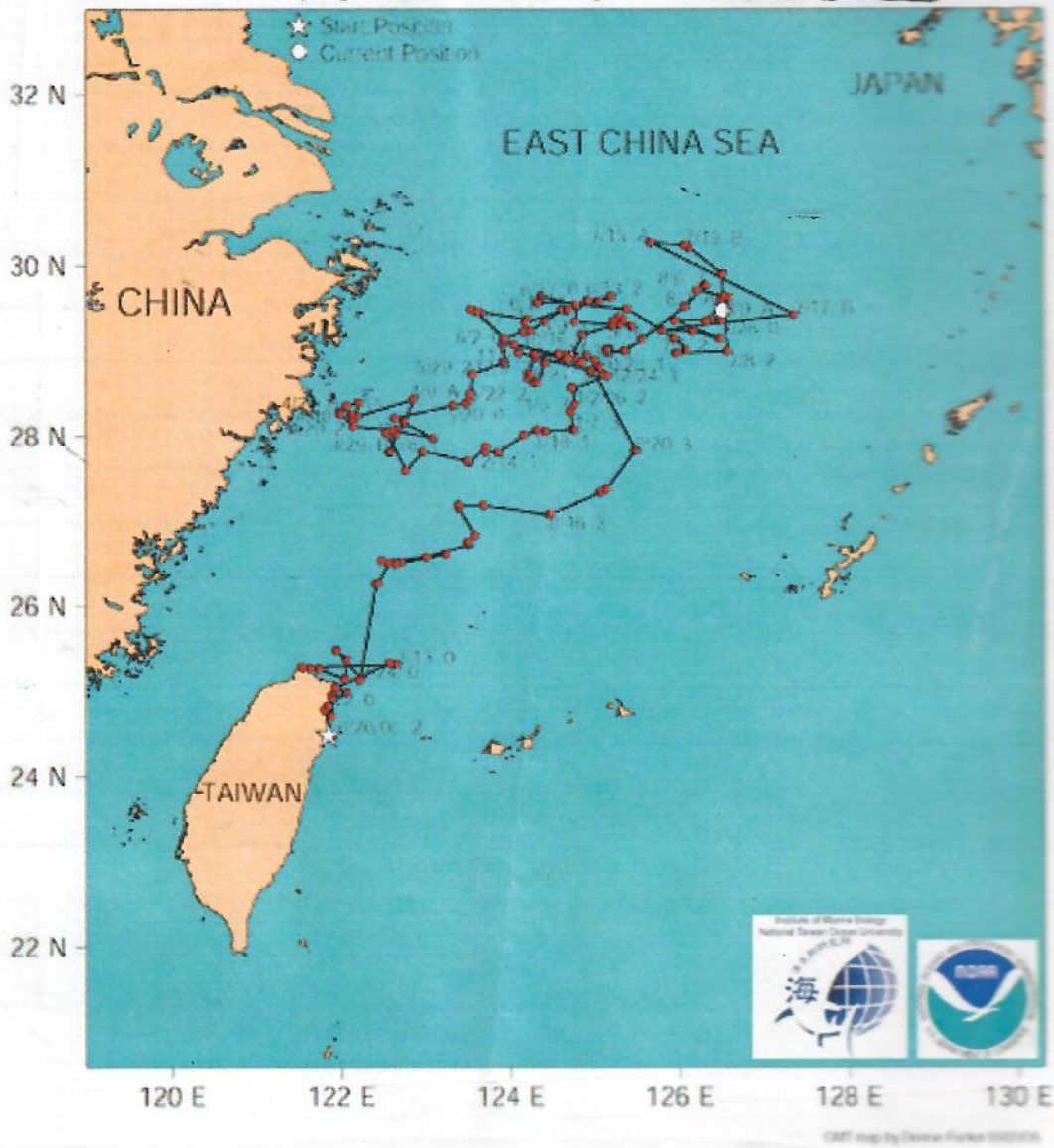
2006 movement of Taiwan coastal net by-catch loggerhead 53772

ST-20 Duty cycle: 6 hours on, 48 hours off SCL: 73.0 cm

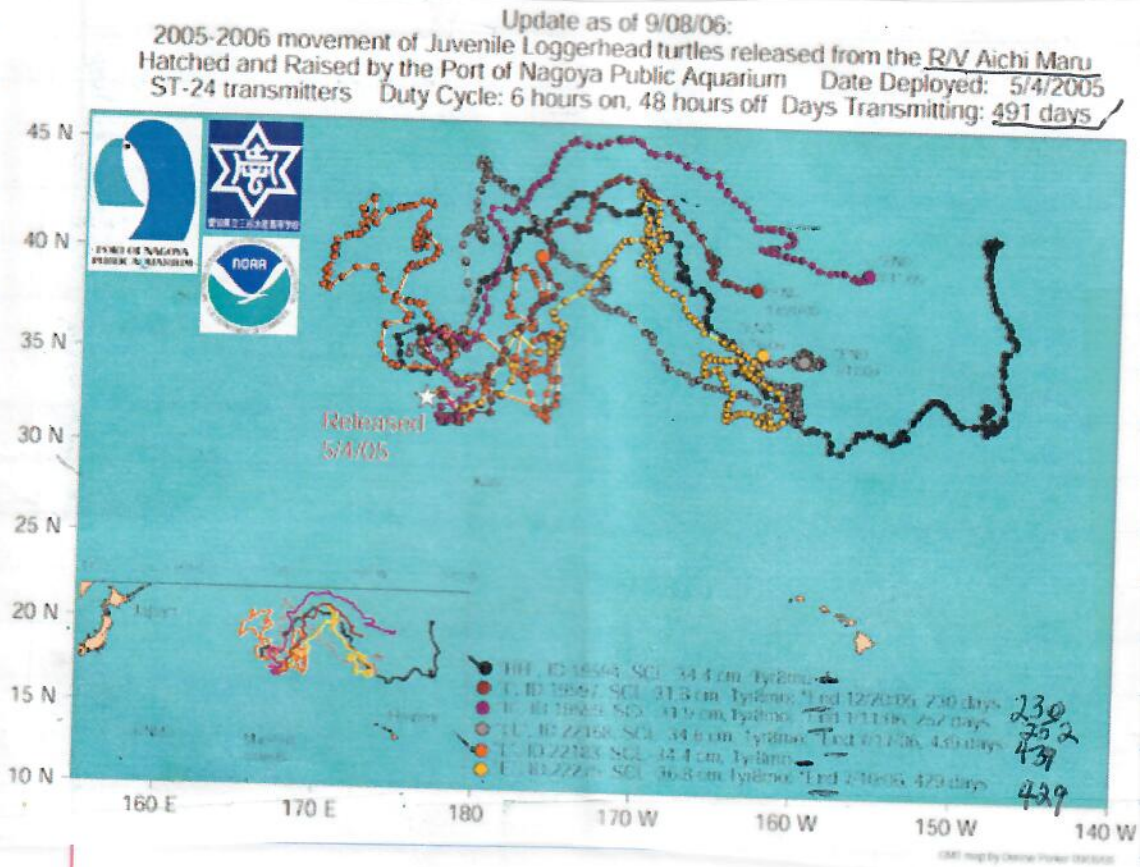
Date Deployed: 5/13/06 Days Transmitting: 116 days



Update as of 9/08/06:
2005-2006 movement of Taiwan coastal net by-catch loggerhead 53743
ST-20 Duty cycle: 6 hours on, 48 hours off SCL: 74.5 cm
Date Deployed: 6/26/05 Days Transmitting: 422 days



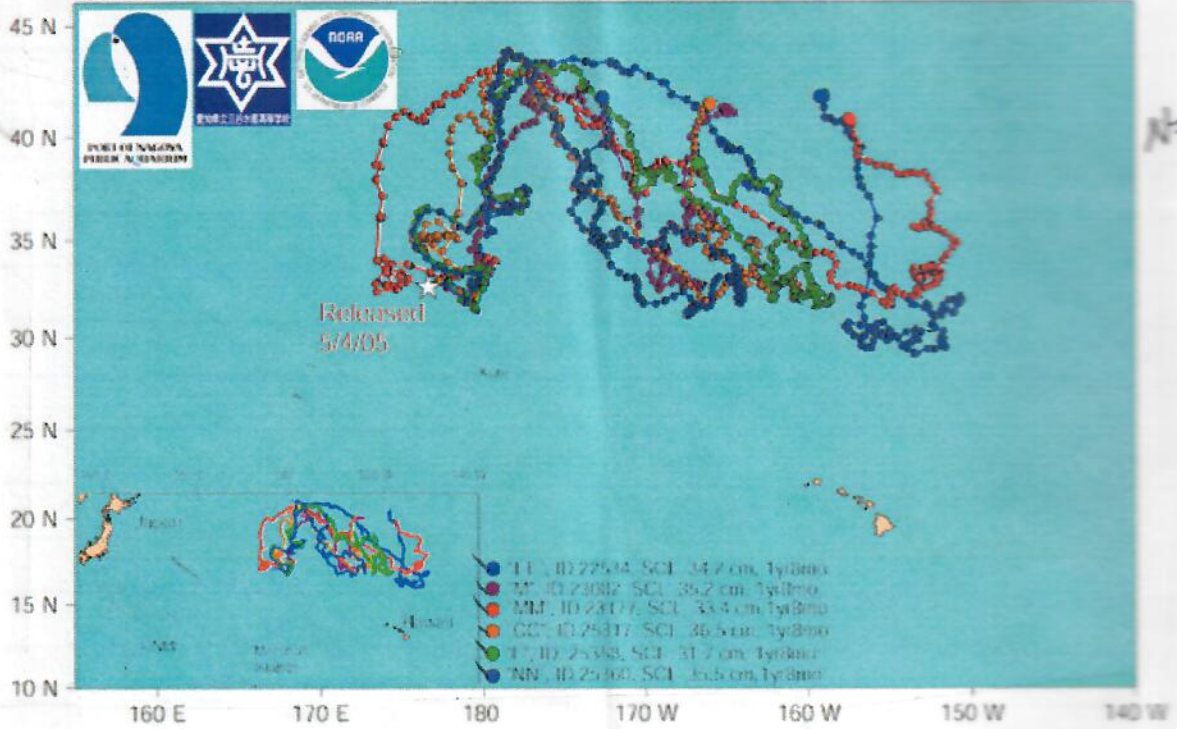
28 SPOTS still TRANSMITTING Aichi MARU AIS of 9/8/06 491 DAYS



Update as of 9/08/06:

2005-2006 movement of Juvenile Loggerhead turtles released from the R/V Aichi Maru
Hatched and Raised by the Port of Nagoya Public Aquarium Date Deployed: 5/4/2005
ST-24 transmitters Duty Cycle: 6 hours on, 48 hours off Days Transmitting: 491 days

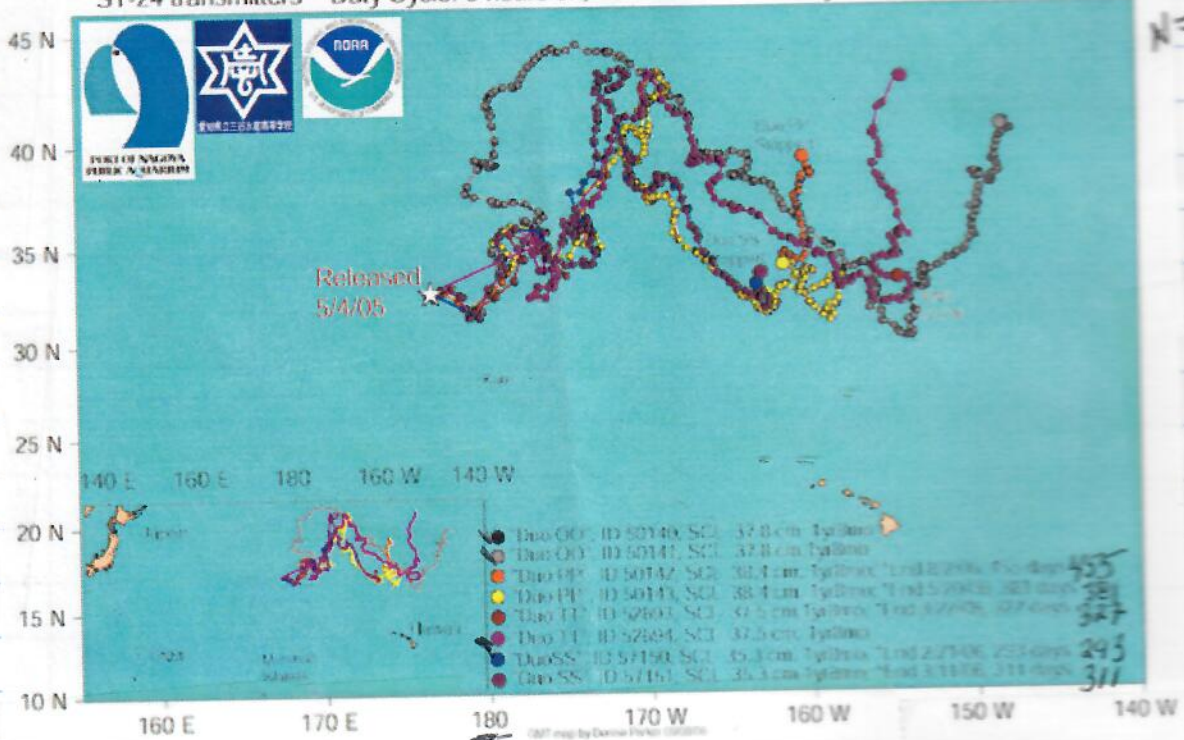
191



N=6

Update as of 9/08/06:

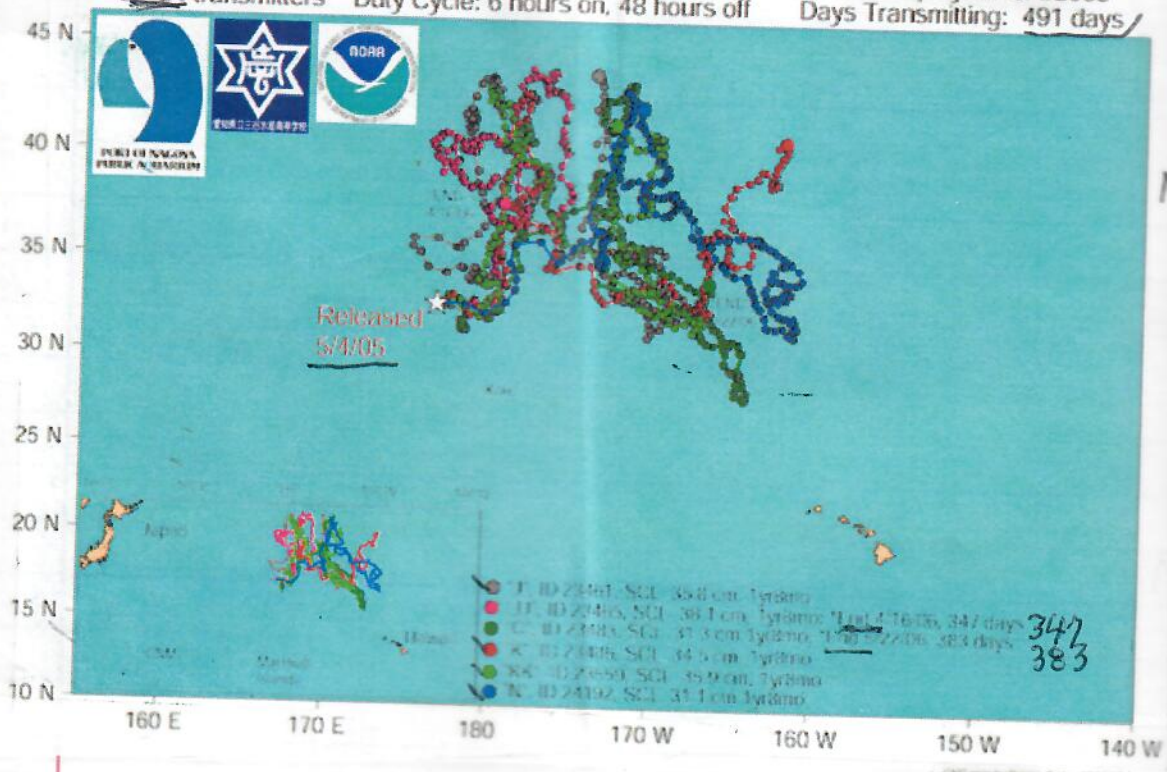
2005-2006 movement of Juvenile Loggerhead turtles released from the R/V Aichi Maru
Hatched and Raised by the Port of Nagoya Public Aquarium Date Deployed: 5/4/2005
ST-24 transmitters Duty Cycle: 6 hours on, 48 hours off Days Transmitting: 491 days



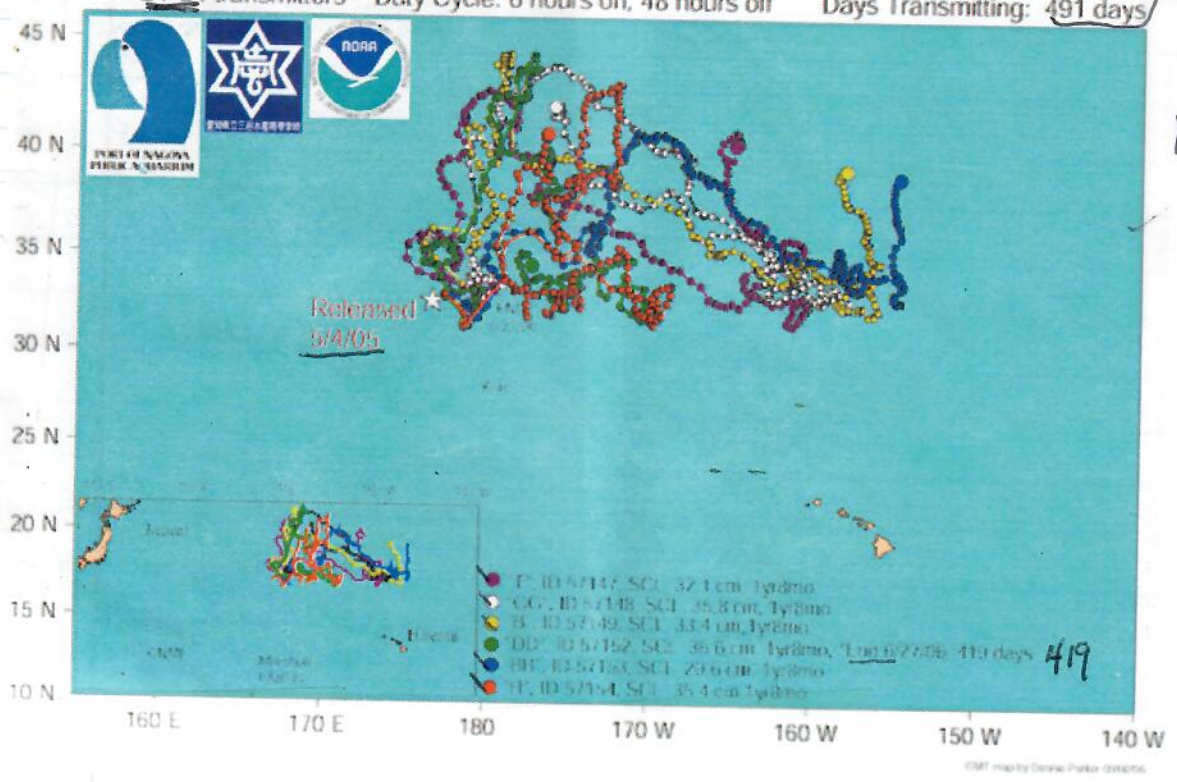
N=8

453
381
327
293
311

Update as of 9/08/06:
 2005-2006 movement of Juvenile Loggerhead turtles released from the R/V Aichi Maru
 Hatched and Raised by the Port of Nagoya Public Aquarium Date Deployed: 5/4/2005
 ST-24 transmitters Duty Cycle: 6 hours on, 48 hours off Days Transmitting: 491 days

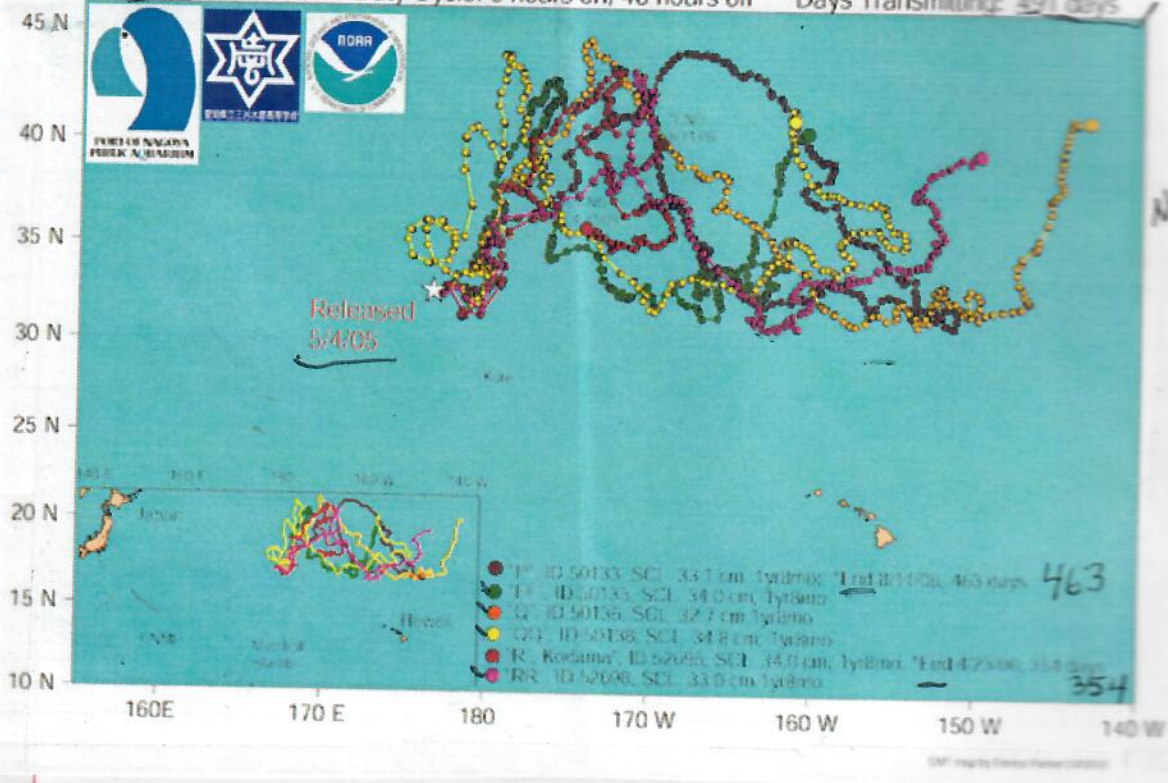


Update as of 9/08/06:
 2005-2006 movement of Juvenile Loggerhead turtles released from the R/V Aichi Maru
 Hatched and Raised by the Port of Nagoya Public Aquarium Date Deployed: 5/4/2005
 ST-24 transmitters Duty Cycle: 6 hours on, 48 hours off Days Transmitting: 491 days



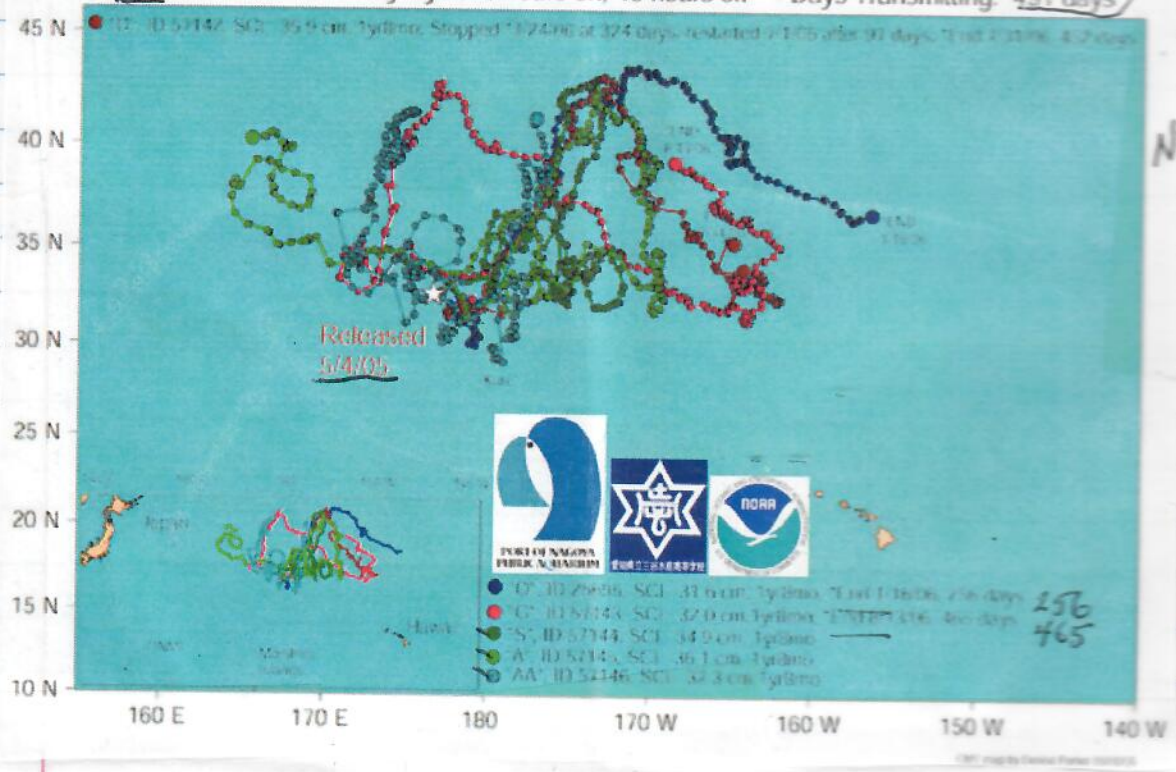
Update as of 9/08/06:
 2005-2006 movement of Juvenile Loggerhead turtles released from the R/V Aichi Maru
 Hatched and Raised by the Port of Nagoya Public Aquarium Date Deployed: 5/4/2005
 ST-24 transmitters Duty Cycle: 6 hours on, 48 hours off Days Transmitting: 491 days

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N=5

Update as of 9/08/06:
 2005-2006 movement of Juvenile Loggerhead turtles released from the R/V Aichi Maru
 Hatched and Raised by the Port of Nagoya Public Aquarium Date Deployed: 5/4/2005
 ST-24 transmitters Duty Cycle: 6 hours on, 48 hours off Days Transmitting: 491 days



N=3

194

40100 - 0038
Lili Kaji

Hawaii became the 50th state on August 21, 1959.
Consisting of 137 islands, inlets, shoals, and atolls
the 8 main islands are Niihau, Kauai, Oahu, Molokai,
Lanai, Maui, Kahoolawe, and Hawaii.

Mr. Balazo, Lili wrote: Thank you
for letting me know
about Lili the turtle.
Lili

Handwritten symbols and characters, including a large 'A' and various stylized marks.

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email: seasonalgifts@hawaii.rr.com
Designed in Hawaii Printed in Hong Kong



Aloha From Hawaii



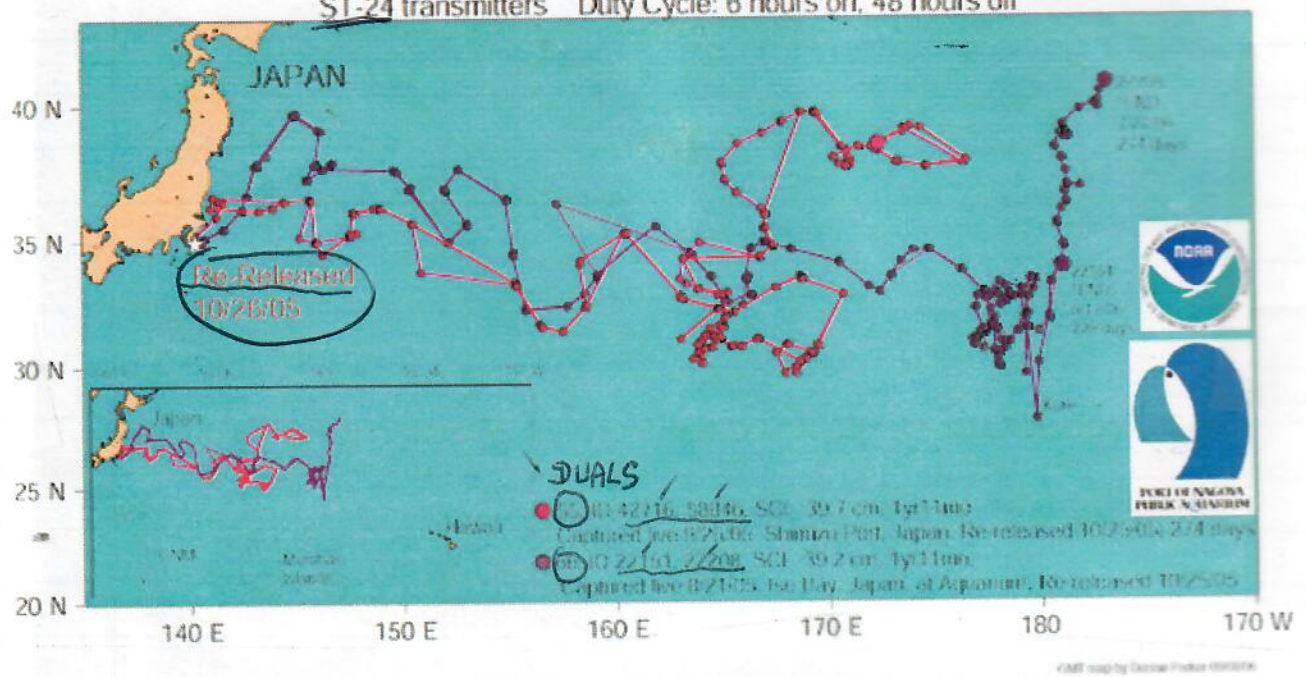
Hawaiian Islands

Molokai Mr. George H. Balazo,
Lanai Marine Turtle Research Program
Kahoolawe NOAA, National Marine Fisheries Service
Pacific Islands Fisheries Science Center
Honolulu, Hawaii
96822-2396
USA

NIPPON MARU DUALS 10/26/05 ReRelease

Update as of 9/08/06:

2005-2006 movement of Juvenile Loggerhead turtles released from the M/V Nippon Maru
Hatched and Raised by the Port of Nagoya Public Aquarium Days Transmitting: 316 days
ST-24 transmitters Duty Cycle: 6 hours on, 48 hours off

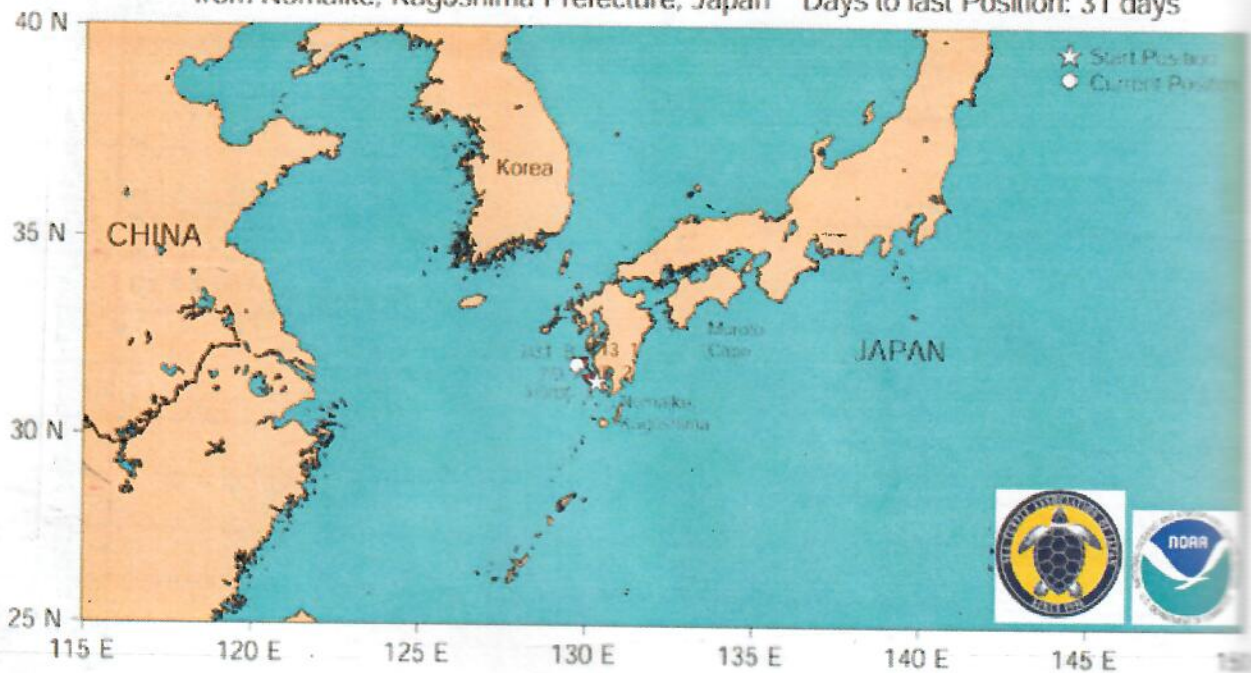


GMT map by Deane Fisher/NOAA

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Updated to 9/08/06:

2006 movement of Kagoshima coastal net by-catch female, Sakuya green turtle 53754
ST-20 Date Deployed: 7/5/06 Duty Cycle: 6 hours on, 48 hours off SCL: 85.4 cm
from Nomaike, Kagoshima Prefecture, Japan Days to last Position: 31 days



GMT map by Debra Parker 1/2005

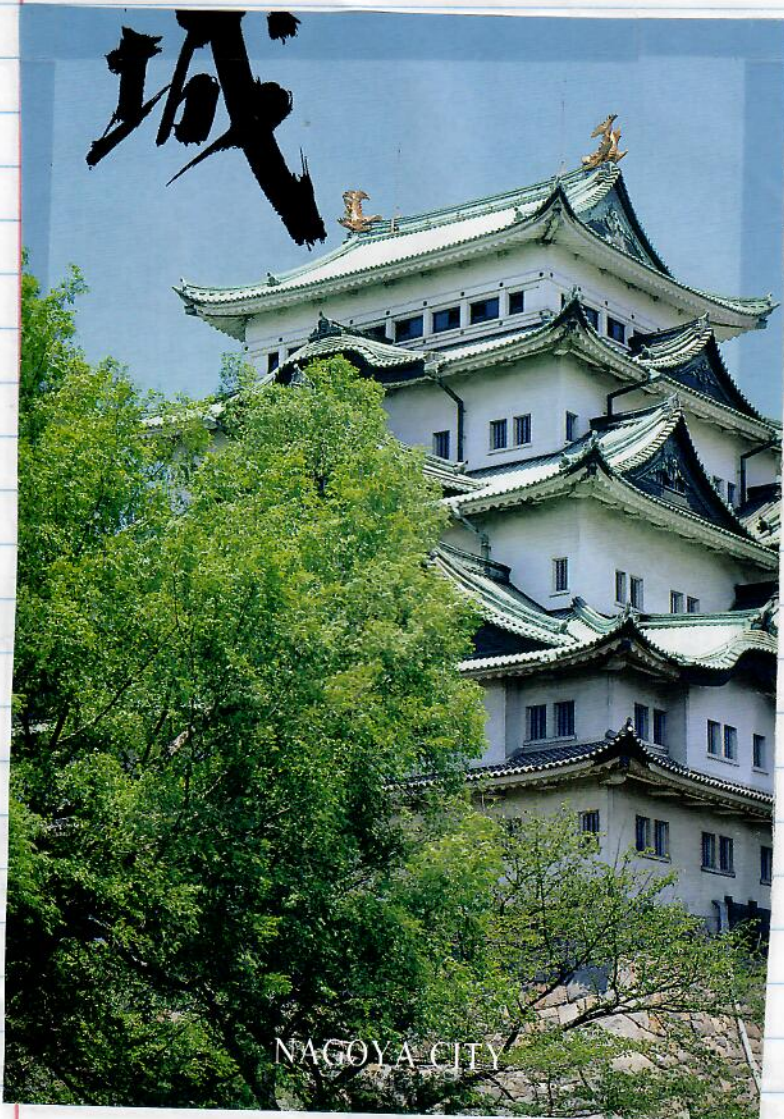
Updated to 9/08/06:

2006 movement of Muroto Point coastal net by-catch male loggerhead 53756
ST-20 Date Deployed: 4/27/06 Duty Cycle: 6 hours on, 48 hours off SCL: 80.8 cm
from Cape Muroto, Kochi Prefecture, Shikoku Japan Days to last position: 133 days



GMT map by Charles Poyser 1999/2000

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名古屋城特別展
尾張のやまと絵
やまとゝりえ

田中訥言

— 走りつづけた画家 —

平成18年 10月23日(月) ~ 11月23日(日)

田中訥言の全貌にせまる試み

開館時間 ◆ 午前9時 ~ 午後4時30分 (入館は午後4時まで)

時 間 ◆ 名古屋城天守閣2階展覧室

主 催 ◆ 名古屋市中区新聞社・東建ふしと歴史・東海ふし放送

名古屋タイムス社・名古屋城博物館

名古屋城 重要文化財

名古屋新聞

199



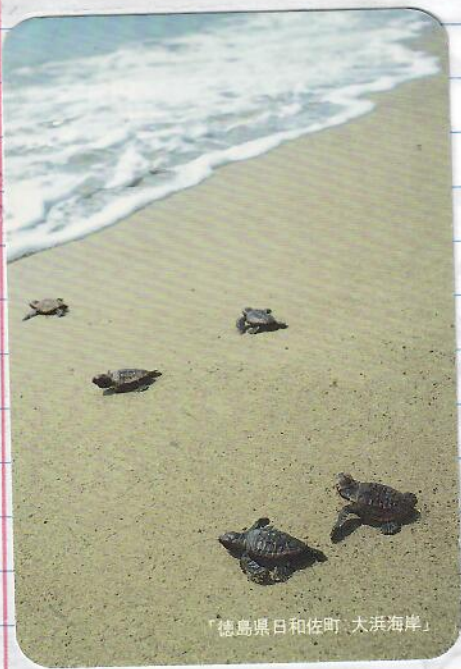
〔本堂〕十面千手觀世音菩薩立像（御本尊御前立）

200



8008

199



Questions for Justice
 - October 1999
 - Re-release of the...
 - ...

200

8098

名古屋金山ワシントンホテルプラザ

◆ビジネスに観光に交通便利な金山総合駅から徒歩2分

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nagoya KANAYAMA WASHINGTON HOTEL PLAZA

GB&LB 10-15 Sunday
TO 10-23-06 Monday

502 > FRONT ROOMS
503

Uchida - Cell - 0905101423
Home 81528764392
MCI 00539121
NTT 0034811811
JT 004111121

UCHIDA OFFICE - 006 81526547130
Verizon 017 241 234
359 61

- Questions for Denise
 - Oct 2006 Aichi MARU No. 30 SPOTS duals - Results?
 - Re-Release NIPPON MARU (from 10/26/05 to 10/30/05) duals 2 of them?
 - No. 35 "YAYOI" 10/06 Aichi Maru
 - SMALLEST SPLASH?

2003

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(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.



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accommodations in Kyoto)

- R420037
- R420048
- R420055
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- Bessho Spa R420050
- Chikuma R420049
- Takayama 421005M
- 421007M
- 421008M
- Fukui 421022P
- 421023M
- 421024Y
- 421026R
- 421027M
- 421031M
- 421032M
- 421034R
- 421035R
- 421036M
- 421037M
- 421038M
- 421039R

- Matsumoto 420035P
- 420062P

- Wakasa Bay
- Mikata Five Lakes

- FUKUI 福井

- Gifu 岐阜

- SHIGA 滋賀

- Osaka 大阪

- Nara 奈良

- MIE 三重

- Ise Bay
- Ise Jingu Shrine
- Ise Shima Nat'l Park
- Nemuro no sato

- Osaka 527029
- 527046
- 527047
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- 527050
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- 527055
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- Nara 529001
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- Nagoya 423014
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- Kashikojima 524014

- Shizuoka 419005
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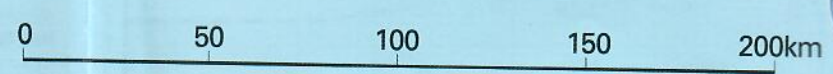
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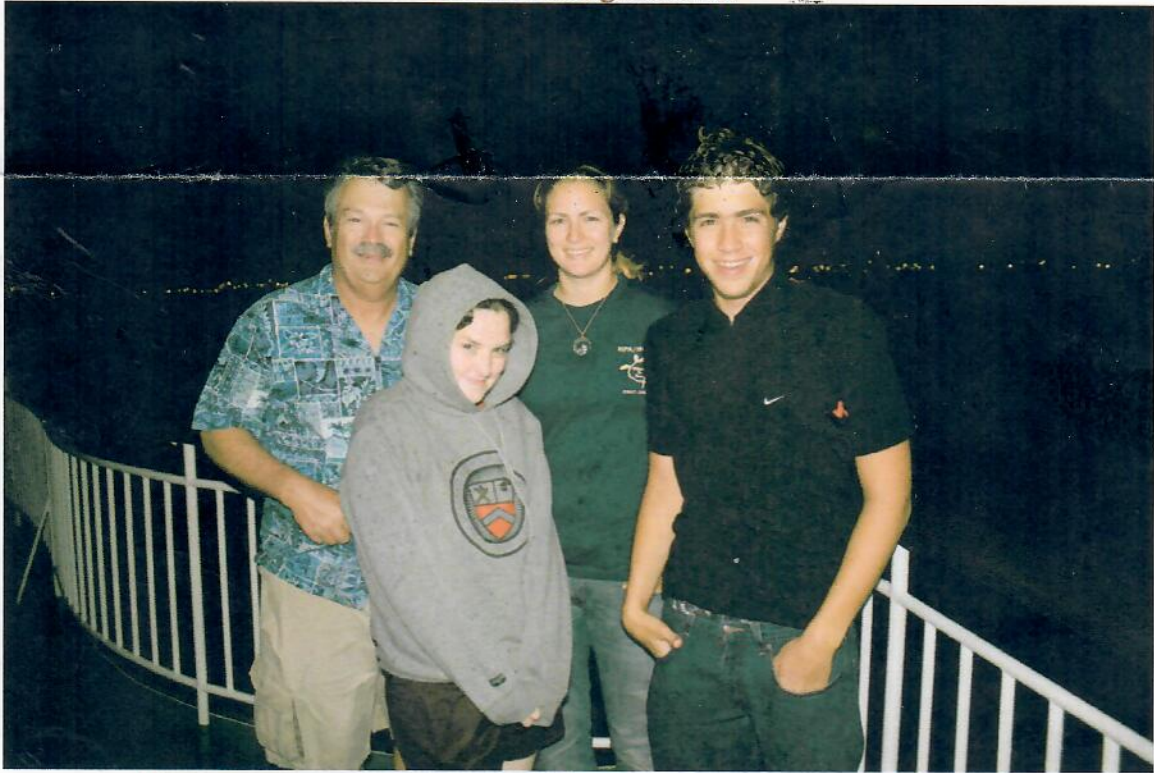
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- Minami-Boso 312028
- Ito 422036

- Itabashi 313147
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- Urayasu 312029
- Edogawa 313014
- Narita 312001
- 312005
- 312007
- 312024
- 312025
- 312027
- Ota 313025
- Yokohama 314027
- 314029
- 314030



Thanks

Dear Mr. Balazs,
Thank you very much for allowing us to join you in Nagoya. It was a great experience
and we had a great time.



Hey Mr Balazs,
thanks for a
great opportunity!
yours sincerely
the Irish girl!!
Kerthy



Thanks for letting us
participate in another
great project!

I am enclosing 2000 ¥ + 5⁰⁰

Thanks for everything
you have done for us
Sincerely
Alex

METRIC UNIT CONVERSIONS

FRACTIONS, DECIMALS, PERCENTAGES

When You

Length

- inches
- feet
- yards
- miles
- millimeter
- centimeter
- meters
- kilometer

Surface

- square feet
- square yards
- square miles
- square kilometers
- hectares

Volume

- pints (U.S.)
- quarts (U.S.)
- gallons (U.S.)
- liters
- liters
- liters



Weight and Mass

ounces	28.3495	grams
pounds	.4536	kilograms
short tons	.9072	metric tons
kilograms	2.2046	pounds
metric tons	1.1023	short tons

Temperature

To convert Fahrenheit (F°) to Celsius (C°):
subtract 32, multiply by 5, and then divide by 9.

To convert Celsius (C°) to Fahrenheit (F°):
multiply by 9, divide by 5, and then add 32.

3	3	6	9	12	15	18	21	24	27	30	33	36
4	4	8	12	16	20	24	28	32	36	40	44	48
5	5	10	15	20	25	30	35	40	45	50	55	60
6	6	12	18	24	30	36	42	48	54	60	66	72
7	7	14	21	28	35	42	49	56	63	70	77	84
8	8	16	24	32	40	48	56	64	72	80	88	96
9	9	18	27	36	45	54	63	72	81	90	99	108
10	10	20	30	40	50	60	70	80	90	100	110	120
11	11	22	33	44	55	66	77	88	99	110	121	132
12	12	24	36	48	60	72	84	96	108	120	132	144

PUNCTUATION

Use a period at the end of a declarative sentence.

EXAMPLE: We went to see the Tulip Festival in Lynden.

Also use a period at the end of an imperative sentence that does not express strong emotion.

EXAMPLE: Open the door.

Use a question mark after an interrogative sentence.

EXAMPLE: Where will we go for our field trip?

Use an exclamation mark after a sentence that expresses surprise or strong emotion.

EXAMPLE: Rodney looks just great!

Use a comma to separate words and phrases in a series.

EXAMPLE: Al Smith has goats, some cows, and a pair of llamas.

Use a semicolon when a conjunction is omitted; it indicates a greater degree of separation than a comma does.

EXAMPLE: The trail was steep and rocky; the wind was savage.

Use a colon to start a list or to formally introduce a statement.

EXAMPLE: She met three friends: Pam, Bev, and Joe.

Use double quotation marks around a direct quotation.

EXAMPLE: He said, "I am very happy."

Use an apostrophe in a contraction, as in it's (for it is), or to show possession, as in Dirk's dog.

SPELLING RULES

i before e except after c, or when sounded as g as in neighbor and weigh.

When a word ends in more than one consonant, do not double the final consonant.

EXAMPLE: from frowned frowning
help helped helping

When a word ends in soft ce or ge, keep the e before able and ous.

EXAMPLE: peace peaceable
courage courageous

When a verb ends in ie, change the ie to y before adding ing.

EXAMPLE: tie tying (tied)

