

JAPAN 003-481-1811

Composition

SINGAPORE AUGUST 19-21

VIA NARITA 21

2010

GEORGE BALAZS

993 774 5935 0821

STARHUB 8000-010002

SINGTEL 8000-112-112

VERIZON JAPAN EXIT 010-1-800

100 Sheets • 200 Pages • Wide Ruled

9 3/4 x 7 1/2 in. • 24.7 x 19.0 cm



NORCOM

Tools For Knowledge

久

NPO YAKUSHIMA UMIGAME-KAN



屋久島

<http://www.umigame-kan.org>

G.H. BALAZS 2010

久

Friday		
Saturday		

WEB REFERENCE

GENERAL REFERENCE &

Central Intelligence Agency: www.odci.gov/cia/publications/factbook
Central Intelligence Agency (CIA) worldwide factbook containing in-depth data for over 200 countries around the globe.

CNN Student News: www.cnnfyi.com
U.S. and World news multimedia site tailored to the needs of students.

Conversion Tables: www.convert-me.com
Convert length, area, speed, temperature, etc., into different units and systems.

eLibrary Research: www.elibrary.com
Search any topic using a database of current newspapers, magazines, books and more.

Encyclopedia Britannica: www.britannica.com
Online version of one of the world's most trusted sources of information on every topic imaginable.

Fact Monster: www.factmonster.com
Designed for kids of all ages, this site offers an amazing array of facts and figures in addition to homework help, an almanac, dictionary and much more.

Gallup Organization: www.gallup.com
Search thousands of poll results, special reports, societal trends and social audits.

Hoovers Business Research: www.hoovers.com
Comprehensive index of over 45,000 leading U.S. private and public companies.



UNDERWATER WORLD
Singapore

A Member Of The 新加坡Hawpar Group

Latest Attraction :



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Singapore

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Deputy General Manager

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E-mail : peterchew@uws.hawpar.com

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SEP 2004 under Renato

former PNPA

Ooi Mei Chen 黄美珍
Marine biologist cum
veterinarian
HP (65) 9789961

N=8 ^{HAWKSBILL} Summary p. 6

NEI 003-
JAPAN 481-
993 774 5935 8821 1811

DIONG ABSTRACT p. 195
(APRIL 2010 of 2006-2007 work)

^{INDIAN}
^{CEAN}
IOSEA

United Nations
Population
Program
Conservation of
Migratory
Species
UNEP/CMS

SANSKRIT = CINTAMANICAKRA
NYOIRIN KANNON AT RAIKOJI TEMPLE
IN KAWAKURA WITH "DOMON" =
(CLAY CRESTS) 14th Century

HOLDING WITH-FULFILLING JEWEL ("NYOI HOJU")
AND THE DHAMMA WHEEL ("RINPO")



SYFRT@
KHGRP.CO.JP

^{KD} Shin Yokohama Kokusai Hotel
グランドビジネス 本館
アリーナ通り
〒222-0033 横浜市港北区新横浜3-18-1 TEL:045-473-1311(代)
<http://www.khgrp.co.jp/shinyoko/>

- 107417 8/28/10
- 5500 8/29
Honda

TEL. 81-045-473-1311
FAX 81-045-474-0152

Hotel Nikko NARITA ⁸¹ (0) 476 32 0032

CRESTS WARD OFF EVIL (YAKUYOKE) and ensure
easy delivery (ANZAN) to women in labor.

" KANNON Bodhisattva (BOZATSU) - Goddess of Mercy, one
who hears the prayers of the world "

ANTHONY CHANG
CURATOR



UNDERWATER WORLD
Singapore

A Member Of The MHI Group

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Website: http://www.underwaterworld.com.sg

over

← Gave speech on
beach at release 8/24/10

10-47, Moegino, Aobaku, Yokohama, Japan
TEL FAX 81 45 973 4749

Date: Wed, 28 Jul 2010 14:53:26 -1000
From: Shandell Brunson <Shandell.Brunson@noaa.gov>
To: 'George H. Balazs' <gbalazs@honlab.nmfs.hawaii.edu>
Subject: RE: Singapore- Verizon cell work there?

Your cell phone will Not work in Singapore. Here are the MCI phone card instructions:

Calling Instructions from outside the U.S.

1. Dial the worldwide access number of the country you are calling from

Singapore:

Call using SingTel 8000-112-112

Call using StarHub 8000-010-002

(i) no resale, (ii) payphone access for respective carrier's access number (ie. SingTel HCD number accessible only from SingTel payphone, StarHub HCD number accessible only from StarHub payphone)
Slovak Republic

2. Follow the voice instructions or hold for a worldwide operator to complete the call

SINGAPORE VIA JAPAN

^{Thursday} AUGUST 19/20 - 21 NARITA

AUGUST 21 - 28, 2010 } SINGAPORE
SATURDAY PM SATURDAY AM

August 28 - JAPAN
Saturday PM

GOALS FOR JAPAN RETURN STOP:

- BASKING GREENS OUTDOOR at ENOSHIMA
- Recovered ^{EXAMINE} logger-head APRIL 2010 AICHI MARU South ^{NEW} Yakushima
- DISCUSS PNPA hawksbill OKINAWA and ^{Proposals} CEAST release
- SUMA Kobe - YOSHIMASA/KAMEZOKI/TAKA
 - STUDENTS
 - POUND NET BYCATCH



UNDERWATER WORLD
Singapore

A Member Of The Hawpar Group

張劍豪
Anthony Chang
Curator

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E-mail : anthonychang@uws.hawpar.com

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Corporate Email: uwspl@underwaterworld.com.sg
Website: http://www.underwaterworld.com.sg

LABAT. AIR FROGADJIB

Notes:

009033

09/05/2010



(2)

BIG SISTERS ISLAND
(PALAU SUBAR LAUT)
SINGAPORE

SINGAPORE DATE
8-24-2010
3PM Release

LAT. 1.213999 N Long 103.835293 EAST

8 hawksbills 2007 hatch PNPA ∴ ~3 years old
CAPTIVE BRED PNPA

Denise FAX / 301-713-1034

ARGOS ID	SCL cm
50143	49.5
50153	49.0
50148	47.9
50147	51.0
50134	47.0
50150	48.0
50154	50.7
50149	52.2

IDEAS

- Send Gifts to Convent School
- Singapore Center for hawksbills
- Dong / PUSHPA / DOUG
- Photos video from Tang Ling Lee
- pegos - ALS TO SAITO and Anthony Chang
- Dutton - Results of Dong samples 2006
- Macrogen web site
- send - Lee and Ooi and Saito and Kwita ^{NECESSARY} MANUAL
- IPAD
- Say Say - STRAITTIMES article

Lee Tang Ling
Corporate Communications Manager

over

Personal 震豹 Haw par
Cell = 938 726 74

Haw Par Corporation Limited
401 Commonwealth Drive #03-03 Haw Par Technocentre Singapore 149598
Tel: (65) 6337 9102 DID: (65) 6490 0209 Fax: (65) 6336 9232
Company Registration No. 196900437M
HP: (65) 9177 5940 E-mail: leetangling@hawpar.com

JALWAYS

Economy Class



BALAZS/GEORGEHARV
JO 075 19AUG2010

Name BALAZS/GEORGEHARV
1319762167098
From HONOLULU
To TOKYO/NARITA

搭乗口 Gate	搭乗時刻 Boarding Time	Seat
25	0940	42D
		0003

Y

Flight JO 075 Class De Y 19AUG

Seat 42D
FFP Number AA710C
0003

GQ

10分前までに搭乗口へお越しください。機内での搭乗は、機内での搭乗です。

Honolulu TO JAPAN

ハワイらしさをたっぷりのJALオリジナルメニュー

Selected local menu



1食目 1st Meal

- カルア・ポーク・カレー もしくは ○照り焼きチキン
Kalua Pork Curry or Teriyaki Chicken with Rice
- ルアウ（ハワイの宴席）スタイル
でスモークした豚肉を使った、
JALハワイ線オリジナルのカレーです。
- ハワイ名物「フリフリチキン」
の風味を活かしながら、
照り焼きソースで仕上げました。

- アペタイザーサラダ
Korean Scallop Salad with Pineapple Dressing
韓国のコチュジャンのコクと味わいのある特製ソースでホタテとコーンを和えました。
フレッシュサラダはパイナップルドレッシングでお召し上がり下さい。

- チョコレートケーキ
Chocolate Cake with Passion Fruit Sauce
ハワイで評判のTed's Bakery特製のチョコレートケーキに
パッションフルーツのソースを添えました。

○ハワイウォーター Hawaii Water

2食目 2nd Meal

- ハワイ風肉まん「マナプア」とアイスクリーム（チョコレートサンデー）をお楽しみ下さい。
Baked "Manapua" and Chocolate Sundae Ice Cream

「裏面もご覧ください」

cell
exit
SINGAPORE

010-1-808
JAPAN version

(9)

8-19-2010 Depart JO75 JALWAYS 10:10 AM
Thursday for Narita - 7 hour flight.

NO-COST airline travel paid by ANPA Sōchi

8/20 / ARRIVE ~ 12:00 PM - Change \$100. ~~¥8300~~
Friday Nikko Hotel Bus to hotel 15 MIN drive
Room 810. (HOTEL NIKKO NARITA)

Free ^{4 PM} BUS to NARITA TOWN TO KEISEI NARITA
TRAIN Station - near JR station. Walked around
town - including to Naritasan SHINSHOJI Temple
a large complex - "Guard" statues look to me like
those in tunnel at KVANTZ temple Taiwan.
Ponds under bridge with many dozens of fresh
water turtles. Buddhist temple but central god
and images - glass panes in front - can't see in due
to reflection.

Many unagi eel restaurants along the narrow
Aoyagi. Ate at "Coffee and Curry"
shop at JR Station. Bus back to Nikko
Hotel. To Bed ~ 9 AM

8-21-10 up ~ 5:30 AM. Hotel Breakfast buffet
Saturday ~ 6:30 AM. TO Airport Terminal 2 (JR)
at 8:30 AM

~~Julkon
8/21/10 Sat.~~

commercial

MACROGen Lab

Need
web site

korean but branches all over

National Institute of EDUCATION

Biocomputation Laboratory

Molecular Genetics (Education and Reser)

DR. CHIA TET FAT

unissons-nous pour les enfants

unicef

Minako MORIMOTO
Education Officer

Fonds des Nations Unies pour l'Enfance
Maison Commune des Nations Unies
Zone Galaxy Andraharo - B.P. 732
101 Antananarivo, Madagascar

Tél. : +261 20 23 300 92/93/94
Poste :
Fax : +261 20 23 301 81
Portable : +261 (0)33 23 426 88
E-mail : mmorimoto@unicef.org
www.unicef.org

NIXKO
NAETA
BUS TOX
ARROD

Royal Hotel
36 Newton Road

Roku Kannon

6 Kannon Protect all

"Sentient" Beings =

+1224 *0

Daikokuji Kyoto
Temple

(11)

8/21/10 Depart for Singapore 1055am
Saturday JL 719 - 6 hour flight
34000 ft. Ground Speed
Arrival estimate 435pm. 565mph

Arrive 445pm Changi Airport

VAN # 9 to Royal Hotel (~50min) Room 827



~ Singapore Lat - 1.2° North
Long - 103.8° East NAN XIANG

~ 8pm Dinner at Chinese local restaurant in
Novena Shopping Center - 10 min walk.

8/22/10 up ~ 630 AM (just getting flight out)
Sunday 730am free breakfast Buffet
(in hotel). Coffee good but food isn't.
TO PAGE 39

8/24/10 Kiyo Tamura
Dolphin TRAINER

kiyo_t0202@hotmail.com

CAPTIVE BORN

Need Doug

UNCMS

IOSEA

INTERVIEW AT SLP

2006 study

Dr. Diong - National Institute of Education

SPREP VISION:

8 green turtles
Two Caretta
(from Nagoya)

IUCN

MTSG

RICE/BALARS Pacific Islands

Sea Turtles along with all turtles run deep in the CULTURES and TRADITIONS of people the world over.

Release - Satellite tag
DRAW Attention - "Touch the Hearts"

36 Newton Road, Singapore 307964
Tel: (65) 6426 0168
Fax: (65) 6253 8668
Email: royal@hotelroyal.com.sg
Website: www.hotelroyal.com.sg



Every Room A Home
36 纽顿路, 新加坡第307964邮区
电话: (65) 6426 0168
图文传真: (65) 6253 8668
电子邮件: royal@hotelroyal.com.sg
网址: www.hotelroyal.com.sg



宾至如归

NOTES TO DRAW FROM FOR PRESENTATION (13)
2.5 MIN (?)

NEARLY 20 YEARS " (ARE WE TOO LATE?)
TURTLES TOWARDS EXTINCTION: HOW LATE ARE WE?
IS IT TOO LATE?
20 years sea turtle satellite tagging.

THANK YOU - UWS, PNPA, (NOAA) PIFSC, UN CMS DOUG HYKKE
Dr. Dong OUR COLLEAGUE SOICHI SAITO KUREITA "turtle Migration study"

* GREATEST HONOR AND PLEASURE TO RETURN TO SINGAPORE - SHIPS OF MANY NATIONS PASS IN PEACE
AT THIS PIVOTAL PORT OF THE WORLD (could be for) sea turtle research
SO SHOULD SEA TURTLES BE ALLOWED ^{RESEARCH} ^{TECHNICAL ASSISTANT}

GREAT AQUARIUMS AND MARINE PARKS ~~NOAA FISHERIES RESEARCH~~ ^{GOOD} SLP HAWAII ^{25 years} SCIENCE
PNPA, UWS, KELLY ARTHUR UW
TARANGA ZOO, AQUARIUM LES LAGOON ^{NOVA}
Education, Research, Capture Breeding

SUMA AQUALIFE - HEADQUARTERS FOR STAJ

- Hawks bill ^{has a} SORRY HISTORY ^{BETKO} = FOCUS OF PROJECT
MOST IN NEED OF CONSERVATION
INTERNATIONAL TRADE BETKO SCUTES FOR
JEWELRY HORN PIENES - PRIZED - GREAT VALUE
^{SOME TO MIND THE HAWKS BILLS}

- SEA TURTLE SUCCESSES - GREEN TURTLES
OGASAWARA, HAWAII, AUSTRALIA-HERON IS.
SEYCHELLES - HAWKS BILLS

3/20/09
Advocate

Notes to Brian from the presentation 13



UNDERWATER WORLD Singapore

JAPAN AIRLINES

Economy Class



BALAZS/GEORGEHARV
JL 719 21AUG2010

Name BALAZS/GEORGE
- 1319760167097
From TOKYO/NARITA
To SINGAPORE

搭乗口 Gate	搭乗時刻 Boarding Time	Seat
65	1025	50D

Y

Flight ~~JL 719~~ Class ~~Y~~ ~~21~~

Seat **50D** FFP Num
AA71007

BE 0007

お座
minutes

Singapore - Bangkok

-----Original Message-----
From: UNEP-CMS-IOSEA Marine Turtles [mailto:iosea@un.org]
Sent: Tuesday, 17 August, 2010 11:16 AM
To: DIONG Cheong Hoong (NSSE)
Cc: Patcharin Supitchakul
Subject: Underwaterworld Event next week

Hi Diong - just wondering if you are involved in this event (see attach
don't see your name in the programme. I wonder if Dr Maliki Osman,
Parliamentary Secretary for National Development, would be interested t
about a potential role for Singapore to participate in wider internatio
turtle conservation efforts?

all the best -
Douglas

(See attached file: Turtle-release%20e-invite.pdf)

Douglas Hykle
Co-ordinator / Senior CMS Advisor
IOSEA Marine Turtle MoU Secretariat ←
c/o UNEP Regional Office for Asia and the Pacific United Nations Building
Rajdamnern Nok Avenue Bangkok 10200, Thailand
Tel: + (662) 288 1471 ^{Phone} Fax: + (662) 288 3041
E-mail: iosea@un.org; Website: www.ioseaturtles.org
National Institute of Education (Singapore) http://www.nie.edu.sg ✓

~~IOSEA~~
web site of sat tag migrations ¹ Tag Series used ²



Have joined the cafe for a class of...

BALAZS/GER...

TOKYO/NARITA

CE 1025 500

500

(71)

PNPA

MR. HIRONARI SATO = PR-photo man

Det PNPA That did "MAY 2010" of 2 dead E
in a hurry = YOSHIKO KANOJI - WAS (200? After)



Sunday UWS
8-22-2010

Resin Catalyst ^{Finishing}
from Diana +
Supplies provided

(19)

Finishing
Resin

1030 AM test Resin

1040 AM 10 drops 30cc

14 MIN TO HARDEN

MIX 20cc 20 drops 1052 AM quick

SCL-49.5 Hawkbill Turtle ONE

notch-46.5

several pictures in box w/leed SAITO

1158 AM Magnet off

LARGE

60-80 cc Syringe Resin

35-40 drops
catalyst

"Good for drawing out

3 Coats for each of 8 turtles - last coat
was Castro = wood dowel with outer layer of Kevlar and
Resin (premade).

50-50 ELASTOMER putty used. I KIT sufficient
for all 8 TRANSMITTERS.

(20)

8 Magnets Left with EE



TURTLE #6 (See page 31)



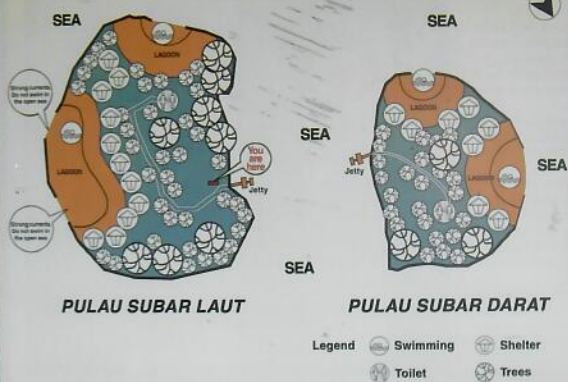
Turtle #1
Hawksbill
8-22-2010 Sunday
UWS
SAT TAG
TAM=
2007 PNPA hatch
TITANIUM
Left FRONT
TAG 0930
LI-25
small
TITANIUM Stock brands
(INSCRIPTION VERY FAINT - DIFFICULT TO READ)
PNPA Address

TAM
SCL 49.5 em
Notch 46.5
11.6 kg
ARGOS 50143
Tel # 635267
ON hours 6
hours off 24

Standing 11:30 AM
EXISTING LH PIT Magnet off 11:51 AM (nest
3 in lot off over nest hour)
00-066D+C644
N=10

Released Big Sisters' Island
August 24, 2010 Tuesday

WELCOME TO SISTERS' ISLANDS



NOTICE

- 1) All visitors must leave the island by 7.00pm.
- 2) Visitors are advised that it is against Sentosa's regulations to camp overnight without a permit.
- 3) For your own safety, visitors are advised not to swim in the open sea as the currents are strong and swift.
- 4) Please be informed that there is no lifeguard on duty. Visitors are advised that they swim at their own risk.
- 5) Beware of wild monkeys. Please do not feed them.

The Legend of Sisters' Islands

Once upon a time, there was a middle aged widow who lived with her two daughters on an island near Singapore. The two sisters, Lina and Minah, were very close.

When they grew up, their mother wanted to marry them off. Since Lina and Minah wanted to stay together forever, they insisted on marrying brothers only. Unfortunately, none among the numerous suitors fulfilled this vital requirement. Soon after, when their mother passed away, the girls left their home to join their uncle in his village.

One fateful day, Lina caught the attention of the lustful Orang Laut chief when she was drawing water at the well. The chief, a cruel sea pirate, followed Lina home and threatened her with an ultimatum - to marry him on the following day.

Both sisters spent a sleepless night praying for a miracle to save their plight but to no avail. The next day, Lina was seized and dragged in front of the villagers to the sampan panjang - an Orang Laut boat. Since Minah could not prevent the sampan panjang from setting sail, she ran heedlessly into the waves and was eventually engulfed by a large wave. Upon seeing this, Lina suddenly gained strength, broke free of her captors and flung herself overboard to join her beloved sister.

Meantime, the ominous dark clouds which loomed overhead unleashed into a fury storm which continued till the next day. When the storm ceased, villagers discovered that two islands stood where the sisters were claimed by their watery graves. The islands were then named Sisters' Islands.

Adapted from 'Myths and Legends of Singapore' by Mr. Pugalent.

sentosa

Hawksbill #2

8-22-2010 Attachment Sunday VWS

(23)

TITANIUM left front
TAG Ø922 w/Agoya Address

SCL 49.0 cm 10.4 kg
Notch 46.3 cm

TAM

ID 50153

Telephones # 635275

EXISTING

LH PIT ~~00~~-066D-E6FA . LH

Released Big Sisters' Island
8-24-2010 TUESDAY

5 Adults/subadults full 6 years VWS Released

2 ♂ 3 Female TAG 8-24-10
TAG w/ TITANIUM PIT LH

2952 122232115A

2905 MALE 121945237A

2961 2963 MALE 122126 282A 78 59

2964

2905 122955210A A 70

(53)

Handwritten notes at the top of the page, including "8-33-3010 Attachment" and "WFF Party".



Handwritten notes below the photograph, including "8-31-2010 Tuesday" and "Kolesead Big Sister's Island".

Hutchbill
#3

8-27-2010
Sunday UWS

(25)

TITANIUM L1-25
0931 (MISSING THIS TAG) NOT Present -

SCL 47.9 cm WT = 11.4 kg
Notch 44.0 cm

TAM

ID 50148

TELEPHONE # 635270

Released 8-24-2010 BIG SISTERS ISLAND TUESDAY

106 PM Mover off 8/22/10

New pit tag present
#3 122253385A

#4 122126593A new for page 27
#7 121963325A new for page 33

5 Adults/Subadults held for years UWS Released Big Sisters IS 8-24-10

Tag	TITANIUM	PITLH	SCL	SKIN DNA	WT
2952	Large	122232115A	77	62	7
2905	MALE	121945337A	75	56	
2961 2963	MALE	122124285A	72	54	
2964		122157645A	71	42	
2965		122155210A	71	43	



Hawksbill #4

8-22-10 Sunday

Attachments page 27

TITANIUM L1-25
0920 stock brand

But not weighed this date

SC 51.0 ^{need to remeasure} cm
N-46.6 cm

WT, 12.2 kg

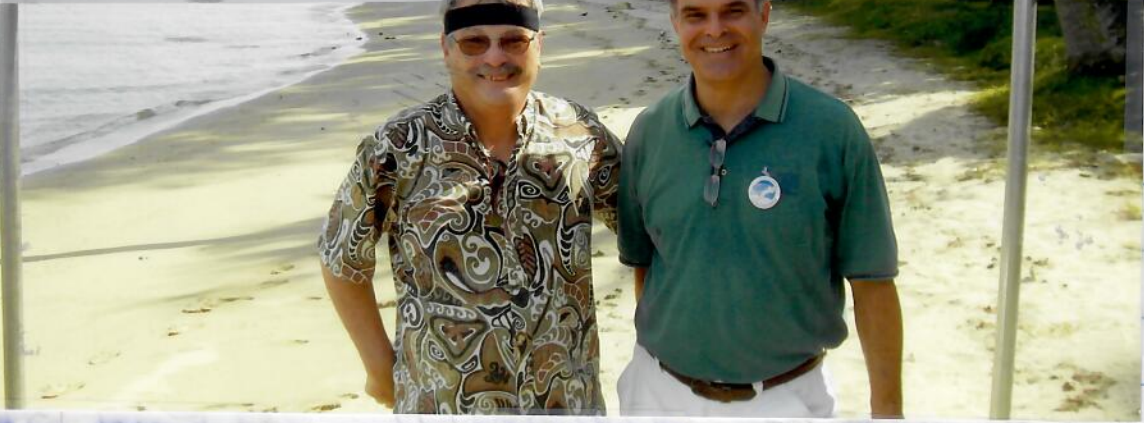
ID 50147
Teloneg# 635269
110 pm mag net off

NO PIT TAG present

NO READ
new pit inserted 8/24/2010 LH
122126593 A

BREK TIME
At cafeteria
(Lunch)
end 3 pm
Great food!


Hawksbill Turtle Tagging and Release Project
Big Sister's Island
 24 August 2010
 Guest-of-Honour
Dr Mohamad Maliki Bin Osman
 Parliamentary Secretary, Ministry of National Development



01-66-8
 25-11-10
 2010
 13719203A

Time
 (do
 13719203A

#5 PM LAST NEXT 4 GROUP 7:20pm 8/22/2010 UWS (20 page)
Hawksbill TITANIUM Ag LI-25 "0919"

ARGOS ID 50134
TEL 635298

SCL-470 WT-9.6kg
Notch 43.6

LH ~~EXISTING~~ 00066DE863
S I C I I I I I I I

Released 8-24-2010 Tuesday
Big Sister's Island

LATE 2010 MAKEKULA

HPA Sea Turtle Research Program Assists With International Project

Marc Rice, director of the Sea Turtle Research Program at Hawai'i Preparatory Academy, recently assisted with the satellite tagging and release of eight three-year-old hawksbill turtles at the Underwater World Singapore. The international project was conducted in cooperation with Underwater World Singapore, the Port of Nagoya Public Aquarium in Japan, the National Oceanic Atmospheric Administration (NOAA), and Hawai'i Preparatory Academy.



Marc Rice (right), director of the Sea Turtle Research Program at Hawai'i Preparatory Academy, is pictured with one of the tagged hawksbill turtles at the Underwater World Singapore with (l to r) George Balazs, leader of the Marine Turtle Research Program, Pacific Islands Fisheries Science Center, National Marine Fisheries Service, NOAA; Tomomi Saito, director of the Turtle Breeding Program at the Port of Nagoya Public Aquarium; and Tiow Aun Lee, marine biologist at the Underwater World Singapore.

"Being part of an international project that helps raise awareness of the plight of sea turtles in this part of the world was very rewarding," said Rice. "I am pleased that HPA could make a contribution."

Dozens of school children and visitors attended the send-off ceremony for the young turtles at Big Sister Island. The preliminary results of the turtles' movements will be presented at the Tenth Meeting of the Convention of the Parties Governing the United Nations Convention on Biological Diversity (COP 10) being held in Nagoya, Japan in October 2010.

Rice also was a guest panelist at a multidisciplinary forum hosted by Underwater World Singapore, "Turtles Toward Extinction: How Late Are We? Is It Too Late?" Professor Peter Ng, director of the Raffles Museum of Biodiversity Research, chaired the forum. ■

#Aunt's bill #6 photo page 20

L1-25
0924

8-22-10
Sunday
UWS

(31)

TITANIUM TAG

SCL-V 48.0 cm
Notch 45.1 cm

wt. 10.2kg

ID 50150

Telona # 635273

EXISTING

Pit LH ~~00-0662-CE34~~

Released Big Sisters' Island
8-24-2010

08-24-10 Tuesday
3PM

8-22-10 Sunday PM UWS

#7

Hawksbill
TAG
TITANIUM

LIS - 0984

33

ID 50154

Telms ID 635268

SCL 50.7 cm

Notch 47.2 cm

WT 12.4 kg
2 J

new
8/24/10 = 121963325A LH

NO PIT present
Small extra scute 1st lateral left
and 2nd central - both anterior -

Released Big Sister's Island
8-24-10 Tuesday
3PM

f/Awbakoff



8-22-2010 Sunday UWS

end

35

L1-2S Ø929 TITANIUM

ID 50149
* TELONICS# 635272

on hours
6/24

Box 4

SCL 52.2 cm
Notch 48.6 cm

WT - 14.6 kg

LH EXISTING

ØØ - Ø66D - FA9F

8-23-2010 Monday

✓✓ Neerney
of 0983

✓✓ lateral not examined

✓✓ Seal toe and nail morphology normal

Also examined hat (no other beard)

2010 May 2007/2008 - heavy FAT PRESENT

8-23-2010 PM / 2009 PNPA HATCH
Monday & 8/24 Tuesday / New PIT TAGS

37

① LF(LI-25) AND SKIN BIOPSIES FOR DNA
TAG 9860 RHF SKIN 4mm biopsy INTO ALCOHOL
new LH 122135363A SCI=30.2

② [6860] (0989) 32.0 SCL LH SKIN BIOPSY
new LH 122123240A

③ 0987 31.8 SCL LH SKIN BIOPSY
new LH 122216315A

④ 0988 32.0 SCL LH SKIN BIOPSY
new LH 122161513A

⑤ 0990 30.6 SCL LH SKIN BIOPSY
new LH 122153251A

8-23-2010 Monday
PK Necropsy of 0983
- Swallowed ~~swallowed~~ 0926 tag found in GIT
EXCELLENT BODY FAT PRESENT

Send Lee and 001 necropsy manual
Pectoral not excised

Also examined but didn't throw Throater (second)
2010 May MORTALITY - BODY FAT PRESENT

8/22/10 Sunday TO UWS ^{GB/MR/T.SAITO} ~9:30 AM - Saw turtles, met Lee. Set up work area, tested Resin from Diong, proceeded to measure ^{SND} ELA stores (50-50) TAM Transmitters N=8 6/24 to 8 2007 hawksbills. Did 4, then did remaining 4. Finished ~7 pm TAXI back to hotel - then ~8:30 pm to Newton Food Court - Stingray wings, Prawns, Tiger Bees.

8-23-2010 11 AM TAXI to ~~WWS~~ JADE Monday Crystal Seafood Restaurant in waterfront Shopping Center - Hosted by Peter Chew Deputy Manager Peter Chew

~2 pm to UWS - met, discussed, ^{suppl} JNA & PIT tagged 5 2009 Ei to be released. Thawed part Examined 2 Ei 2007 that died in air transit, only flation removed. Federal muscle bones intact - save liver and kidney dug out by vet KANOU PUPA in May. Saito wouldn't say if present at necropsy. Oei said he was

8-23-2010 Monday

GOMADS = ♀
(1 of 2 exams)

41

is a hurry. Some small rocks
and titanium (log 0926) in GIT, ^{DRIED}
_{and saved}

Ample Body depot fat in both turtles.
But still a sunken plastron.

noting body wt ~ 30% less than
equal size of Hawaii hawkbills.

Dinner at Novena Shopping Center - Chinese ^{shop}
+ Burger King.

8/24/10 up ~ 5:30 AM
Tuesday

Coffee in Hotel Buffet

Picked up at 8 AM VAN to UWS

Leo TAN Wee Hin (Professor)

陈伟兴

PhD Spore U, Hon D. Sc Loughborough U
Hon F. S(biol), PPA(E), PBM, BBM
Director (Special Projects)



NUS
National University
of Singapore

Dean's Office

Faculty of Science
Block S16, Level 9
6 Science Drive 2, Singapore 117546
Tel: (65) 6516 5960 Fax: (65) 6872 4613
E-mail: leotan@nus.edu.sg
Website: www.science.nus.edu.sg

over

Chng Hwee Hong
Executive Director

over

震豹 Haw par

Haw Par Corporation Limited

401 Commonwealth Drive #03-03 Haw Par Technocentre Singapore 149598
Tel: (65) 6337 9102 DID: (65) 6490 0208 Fax: (65) 6336 9232
Company Registration No. 196900437M
E-mail: chnghweehong@hawpar.com



Li Yuanyi
Reporter
News Desk
Lianhe Zaobao

联合早报

over

Singapore Press Holdings Limited

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Email: yuanyi@sph.com.sg www.sph.com.sg www.zaobao.com

TUESDAY - 10AM - Multi-Disciplinary (43)
8/24/2010 - FORUM -
* Anthony Chang NWS Seminar Room

Reintroduction

Moderator NG Director Raffle see page 71
* Peter - Museum of Biodiversity,

"Doing it to look Good feel Good"

anybody
technical
NTU University
Diong

Tripartite agreement

SIMON TAY
enforcement/law

International Law

Ethics morals AWARENESS
problems

how human animal behaves

"like a New Year's Resolution"

Law a good tool
enforcement
DIFFICULT

"Collateral Damage" shrimp trawling

no

power points

"Green Movements"
used and covered

Moderator

2 hawkbills ^{dead} in lobster net,

Significance lies in purpose

(4)

10AM - Night-Safari
8/25/10

Wildlife Reserves Singapore Group



Wah Yap Hon

Curator
Zoology
River Safari

80 Mandai Lake Road Singapore 729826
D (65) 6210 5398
H (65) 8202 8282
F (65) 6363 8365
E yaphon@zoo.com.sg

Ponridge Shop
Wednesday pm
8/25/10

Wildlife Reserves
SINGAPORE



Owls keep rats in check.
Let's protect their homes
like they protect ours.

birdpark.com.sg • nightsafari.com.sg • zoo.com.sg

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8-24-2010 FORUM AT UWS
Cultural Connectivity
TUESDAY Seminar Room

45

Forum - hatching Release on the beach
lasted ~ 1/2 hours. Then proceeded
with OOI to pit tag turtles (3) of 8^{SAT} TAGS
that didn't have PIT tags. None of
5 2009 had pit tags so tagged them.
DNA samples from all 18 (8 sat tag²⁰⁰⁷, PNA
5 2009 PNA, 5 ^{3 subadults} adults confiscated from the past),

Departed in 3 buses to Port - Boat
to Big Sister's Island - turtles in boxes
on the beach + speaker stand and banner -
huge boats going by in the background.
Turtles released in groups or singles.
2009 year class ran down the beach faster
than I had ever seen a turtle move on the
beach. Some of Sat tags went fast.
Slowest were 5 subadults. Many
photos. Minister Secretary in yellow shirt.
Released ~ 3 pm (see Page 6).
Interview with CCTV China TV.
~ 5:00 pm back to hotel UWS on. Men
picked up ~ 6:45 pm for dinner
(Chinese/Malay fusion) = P

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TUESDAY Seminar Room
Cultural Connectivity

45


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~ 5:00 pm back to hotel UWS van. Men
picked up ~ 6:45 pm for dinner
(Chinese/Malay fusion) = P

(4)

8-24-2010
TUESDAY
Room
Forum AT UWS
Commong
mood

Delhi Restaurant
 SINGAPORE'S 100 BEST RESTAURANTS
 (1991 SINGAPORE TATLER'S)



EXQUISITE NORTH INDIAN MUGHLAI + KASHMIRI CUISINE
 OUR SPECIALITIES:
 *TANDOORI CHICKEN
 *CHICKEN TIKKA
 *FISH BANANA LEAF
 *NAAN & ROTI
 *VEG & NON-VEG

We cater for all social functions including outdoor caterings
 No. 60 Race Course Road,
 Singapore 218567 Tel: 62964585 Fax: 62975715
 Branch: 195C Serangoon Road
 (Inside Broadway Hotel)
 Singapore 218067 Tel: 62971148 Fax: 62916414
 Email: delhi@singnet.com.sg
 Website: www.delhi.com.sg
 Business Hours: 11.30 a.m. to 11.30 p.m.

Lunch at
Little India
8/25/2010 ~ 2pm



(30)

Landing of fuel by Chinese coolies at Boat Quay Singapore

Chinese (Malay) = 9
 2 1/2 pm
 2 1/2 pm

8/25/10 Wednesday

Slept in late-coffee breakfast at Hotel. Bought MRT+GB #8 (+\$10 deposit) All DAY MTR Pass at City Hall.

8/25/2010 TO MARINA Station - walked Wednesday to Sands Marina - Casino + hotel

Went in Casino - huge but too quiet - all video slots. Lots of ~~bars~~ ^{bars}, walked by Youth Olympics stadium

110 - first such games, Took MRT to "Little India", TO HOTEL

non MRT to 6:30 PM BURGIS walked to Quan "Lin" temple (closed) met Lee, visited nearby Indian (Hindu) temple

then TAXI to Porridge shop (outside tables - frog porridge (made with mashed rice not oats), "Heaven and Earth" brand lime tea.

Walked Chinatown area, MRT to Novena, visited Shank Fin and Bechede Mee store.

Somewhere in between earlier in the day also visited Buddha Tooth Relict Temple - tables w/ food at sent outside lining sidewalk (\$200. for table) Chenting inside. FOR HUNGRY G host MONDAY.

(7)



福祿壽四面佛

FU LU SHOU SI MIAN FO PTE LTD

4-headed Buddha (THAI)
BUEGIS DISTRICT

149 Rochor Road #01-18/19/20/23, #02-20/21/30/31
Fu Lu Shou Complex S(188425)
Tel: (65) 6338 1363, 6336 7640 Fax: 6334 4421
Email: fulushousimianfo@yahoo.com.sg
Website: www.fulushousimianfo.com

Near Raffles MRT

Best BARGAIN IN SINGAPORE

NAPKIN

"long tooth SILVER" fish lunch
NOVENA

8/26/2010 Thursday ^{Alone} MRT to Merlion - photos of SULLU.

^{NOVENA} MRT TO Bugis, bought incense/paper money/gold paper bars across the street from Guanlim temple.

Saw and photoed "4-headed" Gold Buddha (Thailand) at nearby store. Then MRT to Koffies: 50 cone at Burger King.

MRT Station walked area and to Buddha tooth Relic Temple. Chanting/Singing, Read Scrolls about kingdoms - Punishment in each - 16 places in each.

Took TAXI TO Hotel Royal, ~15 due to Surcharges peak time, etc. Showered - walked to Novena. ^(Roast chicken dinner - rice in wax paper + vegetable hot spicy) DINNER AT NAN XIAN G.

(MARC went to top of Marina Sands - 20 - photos of ships/city, 57 floors, shape of a ship on top connecting 3 towers.)

8/27/10 Worked on Hotel reservation for JAPAN - phoning Friday and ^{NOVENA} INTERNET station in the A.M. Confirmed

Shinjyokohama to kusai for 8/29 - previously had 8/28.

Took MRT to Changi Airport - above ground about half way - 2 changes of trains, ~ 1 hour + trip, off at Terminal 2 or 3. Huge Airport Complex.

Ate coffee, butter toast and 2 soft boiled eggs (#3.50) and Read STRAIT TIMES. walked to Terminal 1 - JAL only open morning and evening - 2 flights a day. TOOK MRT

37

about last "Temple with many arms" that looked like a store



命理風水

秀



蕭泳玲
Selina Xiao
命理顧問
HP: 9358 7051
Email: chinatown@ntiglobal.com

8/27/10 Friday PM

New Trend Lifestyle Pte Ltd

64 Upper Cross Street
Singapore 058354
Tel : 6533 0033
Fax: 6535 1447
www.ntiglobal.com



Handwritten notes on the right side of the page, including "Temple with many arms" and "that looked like a store".

ODDS'N'COLLECTABLES

THE LAST TIME ONE

JUZER SAIFEE

8/27/10 Friday PM

over for photo

128, Telok Ayer Street SINGAPORE 068597

Telephone : 6323 0043 Mobile : 9662 4461

Email Address : lasttimeone@yahoo.com.sg

Website : www.oddsandcollectables.com

Handwritten notes on the bottom half of the page, including "over for photo" and other illegible scribbles.

sent photo 9/7/10

仙 祖 宮
SIANG CHO KEONG TEMPLE

8/27/10 Friday Tel/Fax : 6324 4171

新加坡 069886 郵區，廈門街，門牌 66 號
NO. 66 AMOY STREET SINGAPORE 069886
ANI (Indonesia)

EMILY

over

TELOK AYER AREA

photo of girl studying
see page 114

on STEPS of Tien Hou Temple.

8/27/10 to Chinatown station - walked Friday to Telok Ayer (pedestrian walkway) diverted due to road construction. Visited Siang Cho Keong Temple just behind Amoy Food Court. Saw "Genbu" #388 in temple show case - had type over eyes. Went to ATM - bought it for \$300.

Thai green Curry Dinner at Amoy food Court. MRT to Novena, to Hotel.

8/28/2010 MEGB Departed hotel in TAXI \$25 to Saturday Changi Airport ~ 35 min drive no traffic. Departed Singapore JL 712 ~ 8:10 AM. ARRIVED NARITA ~ 4:30 pm. Exchanged Rail Pass Voucher. Took 5:19 pm NARITA express to SHINAGAWA 1 hour 8 min

12

8/28/2010
SATURDAY

NARITA EXPRESS
TO SHINAGAWA

JAL

me **BALAZS/GEORGEHARV**
1319762167097
SINGAPORE
TOKYO/NARITA

ETK

ght IL 712 Class Date Y 28AUG

t FFP Number AA710C7M2

18D
0001

指定券
RESERVED SEAT TICKET

空港第2ビル → 品川
AIRPORT TERMINAL 2 → SHINAGAWA

AUG. 28 (17:19発) (18:27着) C33

NARITA-EXPRESS 40 CAR. 1 SEAT. 1-D

¥***

1 hour 8 min

22.-8.28成田2外セMM3(2-) 40088-01

11 MINUTES SHINAGAWA TO SHIN YOKOHAMA 8/28/2010

新幹線指定券 8/28/10
RESERVED SEAT TICKET

品川 → 新横浜
SHINAGAWA → SHIN-YOKOHAMA

AUG. 28 (18:40発) (18:51着) C12

HIKARI 525 CAR. 7 SEAT. 4-E

¥***

22.-8.28成田2外セMM3(2-夕) 50089-01

新幹線指定券 8-29-10
RESERVED SEAT TICKET

新横浜 → 名古屋
SHIN-YOKOHAMA → NAGOYA

AUG. 29 (7:22発) (9:10着) C51

HIKARI 461 CAR. 6 SEAT. 14-E

¥***

無効
名古屋

22.-8.28成田2外セMM3(2-夕) 60090-01

8/28/2010 Shinkansen 640pm to
Saturday SHIN YOKOHAMA - 11 minutes
walked to Shin Yokohawa Kotussi Hotel
checked in to Room 1219 (small room).
Dinner at CoCo Curry Shin Yokohama Station.

up ~ 6:15 AM
8/29/2010 7:22 AM Hikari to
Sunday NAGOYA only 2 stops SHIZUOKA
and HAMAMATSU arrive 9:10 AM

Joe
BLAch

(1 hour 48 min) ^{KANAYAMA 30}
Breakfast at DENNY'S. ~ 11 AM to
NAGOYA food court - TALKED with YUKA
INPA vet - ^{has} 2 girls.

Need
1992
photo

Visited w/ Saito and Kurita and NOZOMI ^{same as Shinkansen}
Saw turtle Cc from April 2000 Release
foundy inland sea near Kobe/SUMA.
Looked and behaved fine, reticulate
tank not very large. weighed & measured
(Photos taken) = 7.3 kg

SOL 36.4 cm ^{still}
Fiberglass is milk colored but attached
to belly secure. No wear whatsoever on
antenna.

33

6 Pmt
8/31 Na
EXP
Shri

8/29/2010
Sunday

新幹線指定券
RESERVED SEAT TICKET


名古屋 → 新横浜
NAGOYA → SHIN-YOKOHAMA

AUG. 29 (15:33発) (17:21着) 032
HIKARI 476 CAR. 7 SEAT. 6-C

¥***

22-8-29(中) 金山駅 NR1 (3-) 40046-01

used

KOBE MUNICIPAL  SUMA AQUALIFE PARK

Met 8/30/10
KIYOMI NAKAMURA

WORKS WITH DOLPHIN

1-3-5, WAKAMIYA-CHO,
SUMA-KU, KOBE, 654-0049
JAPAN

PHONE: 81-78-731-5020
FAX: 81-78-733-6333
E-mail: k_nakamura@sumasui.jp
U R L: http://www.sumasui.jp

8/29/2010

Sunday Shinkansen back to Yokohama
departed 3:33 pm arrive 5:21 pm

8/30/10 8:27 AM to Shinjuku

Monday ^{Free} Breakfast at Hotel. Subway to
JR JR several stations to stop to
walk to SUMA Aqualife Park.

Met by Yoshi Matsuzawa and Taka (Ishi).
Met Kawaguchi - 2 tortoises in his office
on the carpet eating out of a bowl.

^{INSIDE} Saw 18 hatchling boggerheads (from Toyoshu)
said to be swallows. Saw prepared sliders
donated instead of released. Many hundreds
of turtles (photos) lettuce food to feed
for sale in machine. Saw adult greens
inside with ramp leading to small
sand beach. Soba noodle lunch
nearby. ~ 2.5 hours then returned

to Yokohama.
Dinner Fish Sashimi nearby.

8/31/2010 TUES. TO FUJISAWA, TO
ENOSHIMA AQUARIUM.

22

新幹線指定券
RESERVED SEAT TICKET

新 横 浜 → 新 神 戸
SHIN-YOKOHAMA → SHIN-KOBE

AUG. 30 (8:22発) (11:18着) C31
HIKARI 463 CAR. 6 SEAT. 16-A

指定券発行

22.-8.29@新横浜MR9 (3-夕) 60300-01

26044-609

the 57min
8-30-10

新幹線指定券
RESERVED SEAT TICKET

新 神 戸 → 新 横 浜
SHIN-KOBE → SHIN-YOKOHAMA

AUG. 30 (15:25発) (18:21着) C62
HIKARI 478 CAR. 12 SEAT. 10-E

22.-8.30新神戸駅@4 (4-夕) 11058-01



Wildlife Research Center
of Kyoto University

8-30/10
Met at
Suma AquoLife
Park

Dr. Shiro Kohshima

Professor

2-24 Tanaka-Sekiden-cho, Sakyo-ku, Kyoto 606-8203
Phone: +81-75-771-4364 Fax: +81-75-771-4394
E-mail: kohshima@wrc.kyoto-u.ac.jp
URL: <http://www.wrc.kyoto-u.ac.jp/en/index.html>

w/woman student
from Thailand



MARi
(KAMEZAKI
secretary)

Met 8/30/2010
研究員

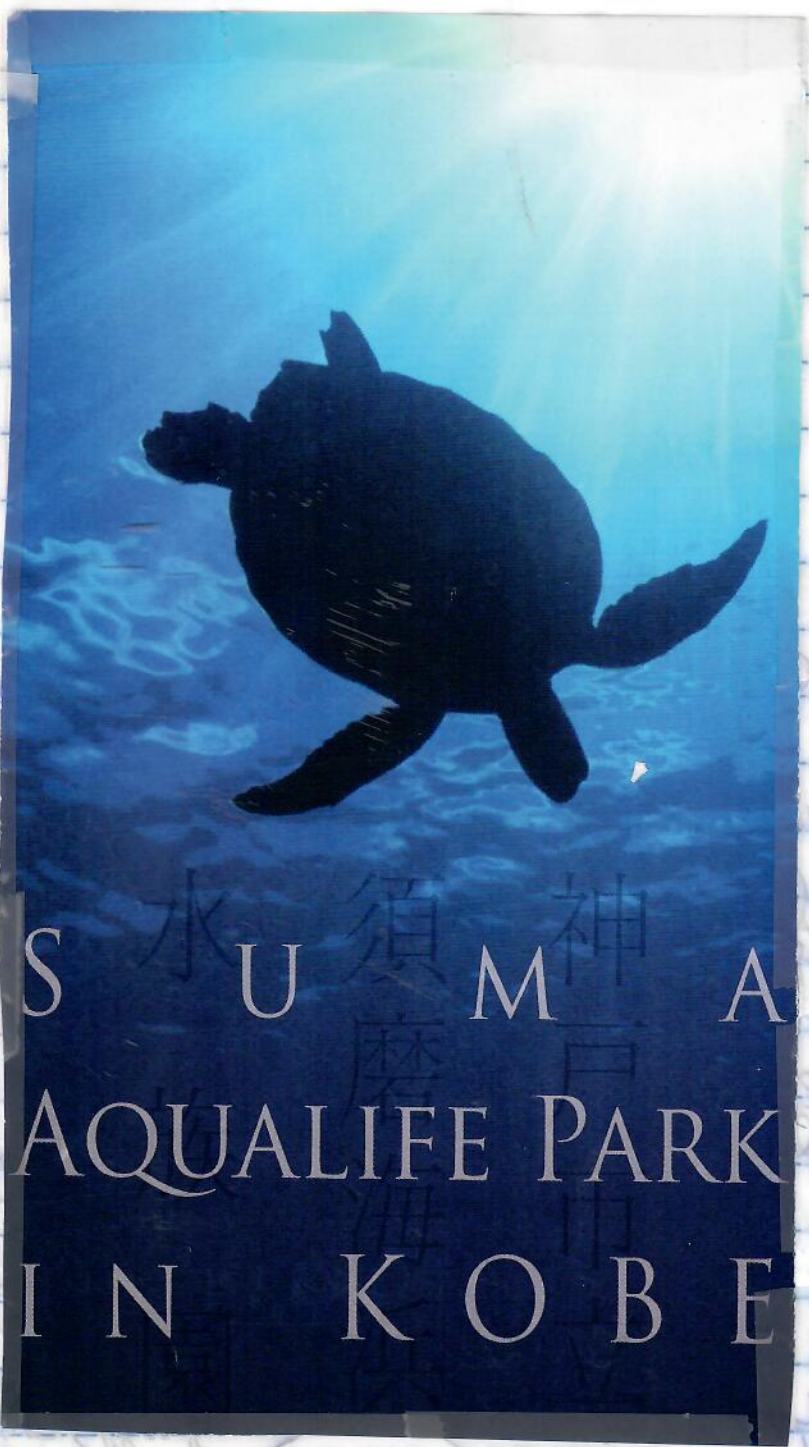
SUMA
AQUARIUM

谷口真理

〒654-0049 神戸市須磨区若宮町1丁目3番5号
PHONE: (078) 731-5020
FAX: (078) 733-6333
E-mail: m-taniguchi@sumasui.jp
URL: http://www.sumasui.jp

8/31/2010 Saw turtles in outside
TUESDAY pool - 5 greens, 2 loggerheads.
No Basking - They stay in the shade (the
greens). One of 2 loggerheads seem at
times to want to go ashore.
Watched kids feeding turtles long tongs
w/ lettuce (or cabbage).
Saw small bead in shape of turtles (for
sale). Lunch at Italian restaurant
FUJISAWA to OFUNA. Climbed hill to
OFUNA KAWAN - in cove. to hotel
packed and took Shinkansen from Yokohama
to SHINAGAWA (11 min) then
NARITA EXPRESS to Airport (~1 hour).
(Note NARITA express goes to OFUNA).
9pm JAL flight to Honolulu 5 seats across
(B-747) to sleep. Arrive ~9:30AM 8/31/2010

(72)



水 須 神
S U M A
AQUALIFE PARK
I N K O B E

[Faint handwritten notes in blue ink, partially obscured by the photo and text.]

[Faint handwritten notes in blue ink, partially obscured by the photo and text.]

[Faint handwritten notes in blue ink, visible at the bottom of the page.]



Seen PNPA Aug, 2010

Turtle Release Aichi Maru near
Yakushima April 2010 (w/others) found
near Kobe weak - taken back to PNPA by
Mr. Saito - eating but not growing well.
In tank alone O₂/transmitter left in place.

JALWAYS

Economy Class

BALAZS/GEORGEHARV
JD 074 31AUG2010

82043605 Name

BALAZS/GEORGI
1312188039723
From TOKYO/NARITA
To HONOLULU

搭乗口 Gate	搭乗時刻 Boarding Time	Seat
63	2030	42D
		0003

Y

01 May
2007
2 May
2007

Flight JD 074 Class Dat Y 31A

Seat 42D FFP Numbe AA710C71

0003 CS

10分前までに搭乗口へお越しにならない場合、お乗りいただけない場合がございます。
Please be at the gate at least 10 minutes before departure or you may not be able to board the aircraft.

新幹線指定券
RESERVED SEAT TICKET

新 横 浜 → 品 川
SHIN-YOKOHAMA → SHINAGAWA

AUG. 31 (17:22発) (17:33着) 053
HIKARI 476 CAR. 11 SEAT. 8-C

¥***

22.-8.31新横浜駅 MR905(3-) 30122-02

指定券
RESERVED SEAT TICKET

品 川 → 成 田 空 港
SHINAGAWA → NARITA AIRPORT

AUG. 31 (17:50発) (19:00着) 010
NARITA-EXPRESS 47 CAR. 10 SEAT. 3-C

¥***

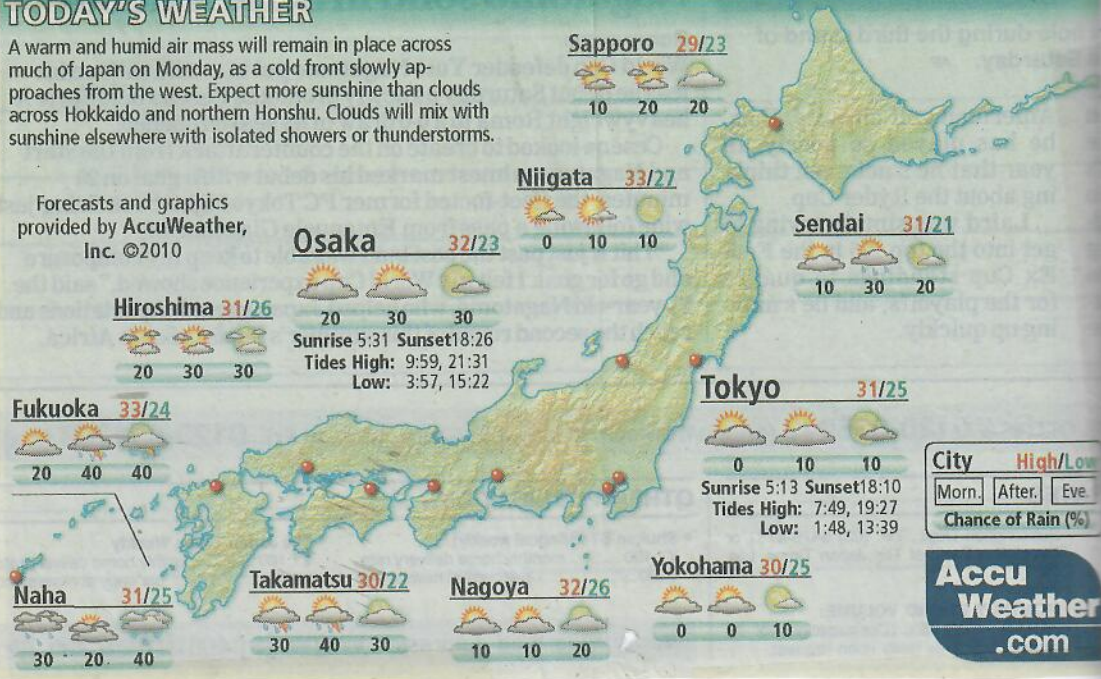
22.-8.31新横浜駅 MR905(3-タ) 30122-01

12

TODAY'S WEATHER

A warm and humid air mass will remain in place across much of Japan on Monday, as a cold front slowly approaches from the west. Expect more sunshine than clouds across Hokkaido and northern Honshu. Clouds will mix with sunshine elsewhere with isolated showers or thunderstorms.

Forecasts and graphics provided by AccuWeather, Inc. ©2010



EXTENDED FORECAST

	Tue.	Wed.	Thu.	Fri.
Sapporo	29 23 60	28 22 60	28 20 10	28 19 10
Sendai	29 23 60	29 24 70	28 23 30	29 24 40
Niigata	33 26 40	33 26 60	32 25 30	32 26 40
Tokyo	32 25 20	31 25 30	31 25 20	31 25 30
Yokohama	30 25 20	30 24 30	30 24 20	30 25 30
Nagoya	32 26 30	31 25 60	32 23 30	32 25 20
Osaka	32 22 40	32 22 40	32 22 10	32 23 10
Hiroshima	30 25 40	30 23 40	31 24 20	30 23 30
Takamatsu	28 22 60	28 21 40	28 21 20	29 22 30
Fukuoka	33 24 60	33 24 40	34 24 30	32 26 40
Naha	31 26 40	30 26 30	30 26 20	30 26 10

22



新江ノ島水族館
ENOSHIMA AQUARIUM

Aya Adati

Curator

ENOSHIMA AQUARIUM

2-19-1, Katasekaigan, Fujisawa-shi, Kanagawa

251-0035, Japan

TEL +81-466-29-9967 FAX +81-466-29-9974

E-mail: adati@enosui.com

http://www.enosui.com (PC)

http://bemss.jp/enosui (Mobile)

over

"KURO"
& "Red" to my eye have appearance of Hawaiian Stock



65





16

砂煲田鸡粥

Claypot Frog Porridge
\$8.00 / \$16.00

17

19

凤爪

Chicken Feet
\$3.60

21

宫保鱼头

Dried Chilli
Fish Head
\$8.30



A hawksbill turtle making its way to the sea at Big Sister Island yesterday. The event is thought to be the first tagging and release of captive-bred hawksbill turtles in the world. ST PHOTO: AIDAH RAUF

Turtles make a splash for science



BREAK FAST
7.13pm
DAY 15

TIPS FOR HYDRATION AFTER FASTING.

Abstinence from eating and drinking dehydrates your body. Drink **10PLUS** to efficiently hydrate and replenish your body with fluids and electrolytes (minerals).



pure enjoyment pure goodness



67

Conservation bid sees 8 of 18 hawksbill turtles freed fitted with tracking devices

■ By VICTORIA VAUGHAN

EIGHTEEN critically endangered hawksbill turtles, eight of them fitted with tracking devices, raced to the sea yesterday at Big Sister Island (Pulau Subar Laut), south of Sentosa.

The event is thought to be the first tagging and release of captive-bred hawksbill turtles in the world, according to experts. The Straits Times spoke to. Globally, only about 60 to 80 nesting hawksbill turtles have been tagged.

Of those released yesterday, 13 were young turtles from the Port of Nagoya Public Aquarium in Japan. They had been bred in captivity from parents donated by Underwater World Singapore (UWS) in

1997 and 2002.

In a collaboration between the aquariums and the National Oceanic and Atmospheric Administration (NOAA) in Hawaii, eight of the turtles, all aged three, were fitted with satellite-linked tags, which will beam location information to the aquariums via France and the United States.

Raffles Museum of Biodiversity Research director Peter Ng said: "Five of the seven species of sea turtles can be found locally, with sightings of the hawksbill occurring frequently, making it a very important focal point for conservation."

"We must learn their idiosyncrasies before we can plan to protect them."

Hawksbill turtles are threatened by fishing practices, and are also caught for food and to make items such as combs from their shells.

Each tracking device, which costs around US\$2,000 (S\$2,700), transmits every 45 seconds when the turtle is on the ocean's surface. It is hoped that six months of data will be collected before the

devices run out of battery, or drop off as the turtles grow.

Five 1½-year-old turtles, with shells measuring 30cm across, were too small to be tagged. The remaining five adult turtles – two males and three females – were resident at UWS for about 16 years, and were picked from the 19 such turtles there for release due to their good health and chances of survival.

Although the turtles have spent their lives in captivity, the experts are confident of their survival in the wild.

Said NOAA turtle expert George Balazs: "Turtles are not highly evolved and are more inclined to their survival instincts than any intellectual thought process, so they are more likely to adapt well to the wild, unlike captive-bred dolphins, for example."

UWS curator Anthony Chang added: "The turtles have undergone conditioning for the wild. We created something that looks like a shallow reef and put food under rocks to get them used to searching for food."

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Dr George Balazs
Leader, Marine Turtle Research
Pacific Islands Fisheries Science Center
NOAA (National Oceanic and Atmospheric Administration)
2570, Dole Street
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Dear *Dr. Balazs*

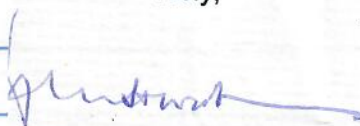
**Heartfelt Thanks — 2nd Multidisciplinary Forum
Turtle Conservation: Possibilities and The Way Forward, 19 April 2011**

As our Project Collaborator for the 2010 UWS-Nagoya Hawksbill Turtle Tag and Release Project, your contribution to the multidisciplinary discussion this Tuesday on turtle conservation, in particular, your insightful analyses of the satellite tracking results and recommendations cannot be overstated.

Together with fellow panelists — all of you thought leaders in your respective disciplines, you have challenged our perceptions, fostered cross-disciplinary conversations among forum participants to share data and best practices, and illuminated the way forward for turtle conservation efforts in Singapore and the region.

Thank you, Dr Balazs, for being a source of inspiration to us all.

Yours sincerely,



Chng Hwee Hong
Executive Director

P.S. In appreciation of your support towards the Project and the Forum, we have enclosed herewith a copy of the title "*Conservation Biology for All*" authored by Professor Navjot Sodhi for your reading pleasure. We have also included 4 copies of the Big Blue Book (April 2011 issue) in which you will find the article on our project titled "*Saving the Singapore Hawksbill*" on page 88.

海龟放生大海 盼能认祖归“海”

海洋学者将通过追踪仪器探测小海龟们的所在位置，从而了解它们被放生后，面对无穷无尽的大海做出什么样的选择，以供他们进行玳瑁海龟洄游路线研究。

黎远漪 报道

小海龟放生大海后，会游向何方？它们会比较“喜欢”回到自己的出生地繁衍下一代，还是回到印象更为鲜明的放生地？

这个问题至今没有明确的答案。其实对于某些海龟品种的许多习性，学者也不太清楚。而这正是新加坡海底世界昨日与日本名古屋港水族馆，及美国国家海洋与美国国家海洋与大气管理局（National Oceanic and Atmospheric Administration，简称NOAA）合作，为配合“国际生物多样性年”在昨日启动2010年保护海龟行动，希望寻找的主要答案。

这次在姐妹岛放生的18只海龟，都属于《新加坡红色资料书》中列为极度濒危的玳瑁海龟（Hawksbill Turtle）。

它们之中包括了五只一岁及八只三岁，相等于人类小学生年龄的玳瑁海龟。这些小海龟虽然在日本出生，但它们其实是我国海底世界于1997年捐赠给名古屋港水族馆五只玳瑁海龟的第二



圣婴女校（客乐）的学生昨日到姐妹岛，协助18只玳瑁海龟回归大海。（海峡时报照片）

代人工养殖玳瑁海龟。

名古屋水族馆三个月前，把这13只小海龟千里迢迢运来本地并在此放生，让这群“日本籍”小海龟能够认祖归“海”。其中，八只三岁大的小海龟背上都装有卫星追踪仪器，而仪器上突出的天线也被一层玻璃纤维包裹

着，以防海龟在海中与石头撞击时造成损坏。

NOAA将通过追踪仪器探测小海龟们的所在位置，从而了解它们被放生后，面对无穷无尽的大海做出什么样的选择，以供学者进行玳瑁海龟洄游路线研究。

名古屋港水族馆海龟繁衍及研究计划主要负责人齐藤知己 (Tomomi Saito) 表示, 通过了解海龟的洄游习性将有助于为玳瑁海龟创造良好的繁衍环境, 适合它们大量繁衍下一代, 为保护玳瑁海龟尽一份力。

在放生玳瑁海龟时, 有些海龟在沙滩上徘徊, 迟迟不肯下海, 是害怕还是兴奋的表现, 我们不得而知。这些玳瑁海龟多属于人工养殖, 它们是否能在野生环境下顺利存活, 新加坡海底世界总监张剑豪表示乐观。他说, 在放生之前, 海底世界已经让这些玳瑁海龟在模拟的野生环境中适应了一段时间, 再加上玳瑁海龟本身就是适应力较强的龟类, 因此大家并不需太过担忧。

至于卫星追踪究竟能持续多久, NOAA的生物研究学家白乐日 (George Balazs) 博士认为, 小海龟在茫茫大海中可能面对的任何状况, 再加上随着它们体积增大而导致的脱壳现象, 都将使到追踪器脱落, 他们预计大概可收到6个月的卫星传输。

除了这13只“日本籍”的小海龟以外, 海底世界也将五只 (三雌两雄), 15年前被人非法偷运至我国的成年玳瑁海龟, 在国家发展部政务次长孟理齐博士的带领下放归我国海域。

这五只成年玳瑁海龟, 及那五只一岁大的“日本籍”玳瑁海龟背上虽未安置卫星追踪仪器, 但它们的脚蹼 (flipper) 上都安有身份标签, 若公众在任何地方发现这些海龟的踪迹, 都可通知我国海底世界或名古屋港水族馆。

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