

BALAZS

NSTL - MISSISSIPPI AND IUCN - TORONTO

6-22 MAY 1978

30 SEPT - 4 OCTOBER 1985

GALVESTON KEMP'S RIDLEY SYMPOSIUM

BALAZS

1978

1985

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GEORGE H. BALAZS  
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Honolulu, Hawaii 96822



30 Sept. - 4 October 1985 . . . p. 77-

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KEMP'S RIDLEY SYMPOSIUM  
GALVESTON, TEXAS

VERNON



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see p 58  
60-64

NMFS BAY-ST. LOUIS NSTL  
PARTICIPANTS MISSISSIPPI (Monday) (Thursday)  
8-11 MAY 1978

1. Richard B. ROE - Acting Associate-Director  
Marine Mammals & E.S.
2. TOM VANSELONS
3. LARRY OGREN - late
4. DON EKBURG - late sp?
5. FRANK WHITMAN
6. Joe Sylvester

(NSTL  
Address)

- IUCN - Ad hoc TORONTO -

15-19 MAY 1978

Participants

1. MROSOVSKY
2. Marquez (Mr & Mrs)
3. Carr
4. SCHULZ
5. Siow
6. Ogren
7. KRISTEN
8. Kathy



KEY POINTS

- FISHERIES DEVELOPMENT, NHI
- NMFS high level recommendations to Sea Grant
- NMFS - NOAA - Secretary Department Commerce  
 Request Military help for the Pacific -  
 Precedent set by USAF Phoenix Is -  
 CG in Seewards, Etc.
- CG Assistance to FWS
- FAA



## CHRONOLOGY OF EVENTS

- 12 April 1978 Wednesday Morning - Richard Shomura first called to ask if I was interested in attending NMFS Washington meeting. I will meet with him on Friday for briefing. Meeting will start 24 April Monday.

- 14 April 1978 Friday Morning - Meeting at Dole Street Lab with Richard Shomura. Discussed role of Pacific - needs in his opinion include stock assessment and tag development. Also discussed role of STC and possibility of holding Pacific-wide turtle conference, with people who have turtle knowledge - can actually do the work.

17 April 1978 Monday - Richard informed me that Washington informed him meeting was being postponed due to problems organizing Southeast region people. Richard will be leaving on trip till 28 April. I should use his telephone to call Washington - Richard Roe - on Thursday for Friday.

21 April 1978 Friday - Met Tamio Otsu. Finally got through to Roe in Washington, D.C.

24 April  
Monday



First-draft for National Plan -  
He wants Carr to attend Meeting -  
SW needs - research and management

MONDAY  
24 April - Roe called TAMM <sup>OTSU</sup> and informed him  
Monday that 8 May Bay St Louis is positive -  
Perhaps I should fly into New Orleans  
and rent a car or be picked up. He will  
provide more information in a few days.

- Note Belly <sup>probe</sup> vs Back <sup>supine</sup> for resuscitation of drowned turtles
- Assemble bibliography on turtle mariculture



Monday  
1 May 78

Tamio informed me that still no word from Roe.  
11:45 AM call from Tamio - arrangements -  
Marilyn Godfrey <sup>GT</sup>  
making arrangements.

Consider hoses - Freeze Marking as  
per R. Keith Farrell - USDA, Pioneering  
Research Laboratory, Pullman, WA

2 May  
Tuesday

Went to Dole Street Lab - Saw Mrs.  
Mary Lynn Godfrey - gave information  
for OT travel form & collect \$1500 cash  
advance - Roe had told Mrs. Godfrey  
that he will arrive New Orleans  
Sunday, 7 May afternoon.

4:45 PM today telegram/prepaid ticket  
arrived CP AIR from Switzerland -  
Honolulu - 845-9323; sent wire back  
saying I only need New Orleans - Toronto -  
Honolulu

Need - passport - Folder - Captive Release Write-up  
for each member - also possibly slide  
show.

3 May 78  
WEDNESDAY

→ call from Mrs. Godfrey <sup>Mary Lynn</sup>  
Mary Andrews - Dick Roe's assistant  
(504) 643-9969  
SLIDELL, LA - 20 miles from New Orleans -  
RAMADA INN - Reservations  
Meeting will last all week.

3 May 78  
Wed

4 May  
Thursday



Honolulu  
NMFS 946-2181

3 May 78

Wed - Call from Taniro Otsu indicating that SW Regional NMFS Director had called and requested info on how thought turtles should be listed - He thought Loggerhead; Green-Hawk endangered.

4 May Thursday Picked up <sup>and Pacific Airways</sup> and VA tickets in Waikiki - Call from Otsu indicating I should call Roe one last time tomorrow morning.

IUCN Turtle Meeting to start  
6 PM Monday 15 MAY 1978  
at Mrosovsky's House  
580 HURON ST, TORONTO  
home - (416) 967-3864  
office - 978-8506

Joyce AND JOE MATTHEWS  
30599 MARQUETTE  
GARDEN CITY, MICHIGAN 48135

Terry and Linda Ohlsen  
1092 WANDA Rd  
ORANGE, CA 92667  
(714) 639-4059



MARY JANE WITZ  
17620 Poplar Ave  
RIVERVIEW, MICH 48142

5/6

CARL BROW  
3167 FORT PARK  
LINCOLN PARK, MICH 48146  
(313) (38) DU-2 9459

5/6/78  
SATURDAY

Flight plan - UA 196 Sat. 11:45 PM  
Arrive LA 7:55 AM  
DELTA 964 9 AM  
Arrive NO 2:12 PM

5/5/78 called  
Friday Dick ROE  
~ 9:30 AM

will arrive  
EASTERN → 6:08 PM

BAY St. LOUIS →

Tom VANSEBUS -- (organizing  
daughter, Cindy 494-3102 meeting)  
interested in fish.

(Important to have public "think turtle"  
PR, etc. CONSCIOUS OF ECOLOGY  
AND PROBLEMS - IE - MY BOOKLET.

(Investment made at FFS -  
Continuation of monitoring absolutely essential.  
KEY FACTOR - MY SALARY)

Feb 1978  
1978



5/6 ~ 1 PM - Called MROSOVSKY IN TORONTO.

→ EASY RIDER CORPORATION AS MATCHING - FINANCIAL  
SHOW OF SUPPORT FROM INDUSTRY - WRITTEN LETTER  
TO SEA GRANT. ANY OTHERS POSSIBLE?  
(ATTAWAY?) \$ VALUE TO TRIPS TO LEEWARDS?

5/6/78  
SATURDAY

DEPART 11:45 AM UA 196<sup>747</sup> to L.A.

outsider MAGAZINE published my LETTER TO CAHILL.

Changed planes, depart Delta 9 AM FL 964 -  
Arrive New Orleans ~ 2:15 PM

\$10.00 + \$1.00 TIP  
Mississippi Coast Lemosine for  
Transportation to Sidell.

At airport terminal, noted fresh 1/2 shell  
oysters served for \$3.95 doz - obtained  
from Bay nearby.

Consider - Military's use of Army Corps  
of Engineers to do sea turtle  
survey - determine Critical Habitat  
i.e. Kuzjalin - concerning Carter's  
order of last year for Federal - Military  
agencies to assess lands of  
endangered (threatened) species  
plants too?

Retires  
Retires  
5 years

— Cannot make long range plans  
(that are needed) without assurance  
of SALARY FUNDING - INVESTMENT'S ALREADY MADE



5/7/78 Arrive at the Ramada INN - Slidell  
 Sunday

→ with respect to sea turtles (Management, conservation, research), where has NMFS been, where is it now, where will it go, (restraints authority from those in charge, funding, jurisdiction) - also where goes it want to go.

- HAWAIIAN ISLANDS -

→ Considering: 1) work-investment - already <sup>State</sup> <sup>Federal</sup> <sup>Private</sup> done 2) importance to nation 3) apparent restricted migration 4) accessibility 5) opportunity for learning what is presently not known for any population; it makes good sense to undertake in-depth, long-term life history study of Chelonia population in the Hawaiian Islands.

IDENTIFY AND DELINEATE

✓ \$2.00 bowl of soup at Ramada

~ 8:30 PM Joe rang me - few hours of sleep -  
 Salad (\$5.00) Dinner Discussion  
 Sea Turtle "Mess" - Ekberg and Cogen are the only ones coming - He knows of Mexico request - included to grant 10,000 import of skins - Confused w/ Richard Parsons -  
 GRANDFATHER CLAUSE A MISTAKE



Concerning TT - what's realistic, what's  
<sup>Priority</sup> <sub>aspect</sub> possible given available funding.

Up ~ 6:30 AM - Breakfast at 7:30 AM  
with Dick Roe - \$3.00  
TO NSTL



5/8/78  
MONDAY

NASA National Space Technology Laboratories Bay St-Louis  
- Frank Whittman Judge  
NOAA - Andy Kemmeyer

5/8/78

Privilege information Joe Sylvester  
- Thick Management plan exists - sent to Regan's  
- Info Memo - not copied. I now have copy  
- 1100 galveston  
- 2000 mortalities 125 now loggerheads

Track head-starters FRANK showed and drove range ~ 3 miles - tested  
Back Based - Copper Roe [Charge]

### [National Plan For Sea Turtles

- also 2 good shipping years - use boats built
- Navy consolidated at NSTL
- Transmitters observed - Frank can build hardware assistance w/FW
- SE thick plan already exists

1. Statement of Problem
2. Background
  - a) Population Status
  - b) Management Measures
3. Plan (Program)
  - a) Research
    - Geo. Regional Needs
  - b) Management
    - Regional (Geographical needs)
      - 1) Critical Habitat
      - Enforcement
      - Listing

\*



5/8/78

## 4. Resource Needs

a) Manpower

b) #

c) facilities

## 5. Schedule

## 6. Management

observed from the air by Ogden & Frank  
Dune buggies - torn up beach tent  
coastline other side Mobile, Alabama <sup>(see aerial photo)</sup> ~~at~~ <sup>at</sup> ~~meeting~~ <sup>meeting</sup>

\* → [Ranger Rick - inflammatory article] 2 months ago -  
100K up

Ridley Project in Mexico

Sidell (trawl net specialist)

McVey <sup>note</sup> (There is also a McVea)

personnel

Fy 79	#K	
0/175		- G.R.
0/205		- Res.
0/200 (?)		May G.R.

Fy 79

Base

#350 Gear Research  
#100 Research Ass



16 DAY 1

Clarify Region vs center status in NMFS

5/8/78 MONDAY Healthy chunk of money in budget for FY 1980 -   
 (not confirmed by Schuler 50% Mittag 50% CD)

U.S. Citizen has interest in Cayman facility. who? Sylvester will go there at government expense very soon.

LUNCH ~ \$3.00

2:30 meeting at St. Petersburg was held March 27 1978 strictly "in House" - sent back Regional plan - no good for National

8 months ago meeting at Galveston - Kilpatrick Carr consulted

Raising Ridley Zoo - keeper from New York

"save Dinosaurs" "nest" "Tree-huggers" - Roe

All gone, no problem" - Roe

\* Vocal sentiment against conservations

Shrimp Fisherman's Association - consultant - Frank Xerox plan

which report says Adult loggerheads not captured by trawls

Bill

- Stevenson - Regional Director

- Nakamura - Lab Director, St. Petersburg   
 (New program Manager for Turtles)

Sylvester - Director of FW Virgin Islands; came to NMFS 12 weeks used to work BCF Honolulu - Gilbert took care turtles at FFS

Etberg → Resource Assessment Jack  
Sylvester → Management (Blawie)  
Ogden → out of CENTER

NOTE - AT LUNCH MEETING IMPUGNER SAID Fisheries Director unhappy with Felger because he got grant before applying for Mexican permit will deny.

ROE INVOLVED

Felger Bitter Baked from Mexico?

5/8/78 MONDAY



5/8/78

at Oregon Univ. leave of absence (corvatis?)

Shoring gone - (problem got rid of)
MONDAY Sylvester in Regional Management Div. (at) St.
Pete Lab; Conflict with Division [Man]
over Ogren] Conflict between two divisions
that must be resolved.

NOTE - AT EVEN MEETING MURPHY, SMD
Fisheries Director unhappy with Felger because
he got grant before applying for Mexican
permit. will deny.
dealing with

- Politically sensitive: "CROCKER FLEET"
1. Ground Fish Trawling / Gill nets
 TRASH TRAWLS - out of Louisiana 20+
  2. Tuna fleet takes turtles. Isadore Barnett
  3. Lobster Fishery - Traps - Florida
 - Shot them - Trying to get bait?
 \$5,000 given for investigation of #3

Statement of Issues

Ogren - Ekberg arrived about 3PM - I was given
this dossier

ROE INVOLVED

SW will have to write EIS for monk seal
critical habitat designation. This may also
be necessary for turtle critical habitat.

Felger Black Billed
from Mexico?

"Regs just about ready" Felger
presentation to WWF
"Set up hole process back" because
of petition for new listing. open
comment period.

Silverstein - asked Roe to look the
other way on shrimp catch.

"STATUS OF STOCKS" - "Roe overstates program in SE plan"



18 Day 1

PRESENT LEVEL OF FUNDING / SE REGION

5/8 Mo NMFS

5/8 Monday

FY 75	-	0 K
FY 76	-	70 K
FY 77		380 K
FY 78		350 K

> gear development

100K in contracts

- CASH FLOW ->

~~Center~~ ~~Region~~  
Region to Center  
plus Washington money directly to Center

Mention of "Program manager" for Turtles Washington

Money to EKberg  
Contract officers - EKberg + others giving out contracts  
No one knows who controls Larry.

Stevenson responsible for Turtles

RD and CD conflicts.

Richard A. Frank  
Administrator  
NOAA

Terry ~~Walt~~ Leitzell  
NMFS

CAYMAN imports  
Miami -  
8000 lbs  
month?

Britchard - \$5,000 for first study of incidental catch - then looking at FAO records - cross check MARICULTURE imports  
\$20,000 enforcement at St. Croix (leatherys) Puerto Rico  
MONA (hawks)



5/8 Monday DAY 1

19

NMFS National Plan for Sea Turtles

1. Statement of Problem
  - 1a. Issues
2. Background
  - a) Population status (by species)
  - b) Management measures
  - c)
3. Plan (Program)
  - a) Research
    1. Geographical
  - b) Management
    1. Geographical
    2. Critical Habitat
    - ENforcement
    - Listing
  3. P.R. Campaigns
  4. International
4. Resource Needs
  - a) Manpower
  - b) \$
  - c) facilities
5. Schedule
6. Program Management  
National Management

b  
to



20 DAY 1

5/8  
Monday

Sally Hopkins - SC Department  
of Natural Resources  
- Loggerhead nesting study  
opposite results as Stanzek -  
Sea Grant funded  
Dick Roe reviewed proposal.

center - Region Region - Center?  
Jenny Howard - ~~Isadore~~ Barrett

Meeting end of June - all participants  
SE Regions  
all

a few days ago -

call from  
Carol Justice - 200 ♀ <sup>nest</sup> 15 toy recoveries  
45 nests  
3 - eggs  
42 2 legged

Hatchlings from 2000 eggs in  
Pade Island sand, moved after  
30 days,

- Mexican government -

[ 2000 start, 150 left  
Patterned after Pacific effort  
- Commercial -

DAY

5/8  
Monday



5/8  
Monday "International Cooperation" project -

"Keep the heat off"

"Take the action that will do the least amount of damage to the shrimp fishermen"

Shoring wished that Marine Mammals and Endangered Species would go away"

NOAA - <sup>Mr.</sup> Frank

1. Shut down
  2. Honesty of shrimp fishers - restrict to 1 1/2 hour
  3. Use gear that is developed
- shrimpers  
1 just recently admitted to catching turtles.

State called in Ross

Senator by Whittam about loggerheads to Texas -

shrimpers

1. Don't want to admit to catching turtles - cut up and put in box, eat on board.

28' boat - recreational shrimp trawl close to shore



22

To facility ~ 8:30  
lunch ~ 1 1/2 hr  
Motel ~ 5:30  
5/8/78  
Monday

DAY 1

lunch - \$3.00

St. Croix - Navy <sup>V.I.</sup> has submarines  
equipment - generators on shore  
Plan to list 1/2 mile offshore, V.I.

Reorganizing NMFS - Office <sup>MM</sup> <sup>ES</sup> new head

Against industry - haven't been given - need fences -  
NMFS - conflict of interest due to  
management orientation

REG 15 "Do you want to shut down largest  
fishery in U.S." <sup>5/8/78</sup>

1000 hatchling - only 150 left

Mexican rubble project  
2000 hatchling - only 150 left

5:30 PM Depart for motel -

Concerning proposed regs - decision may  
take ~~that~~ a long time

~ 7 PM Drinks at Tom's House -  
Larry told me "tapper proof" size 49  
tops - now alot different than  
Archie's first ones 1955. thicker, and  
stronger bridge - cup not pinched  
together. NOT self-piercing

DAY  
5/8/78  
MONDAY  
w/  
WIF  
SAND  
DRINKS  
HIS HOW  
DAUGHT  
CINDY



5/8/78  
MONDAY

Told of "mudded in" turtles off Cape Caravel-  
ship channel - subs coming in very  
turbid - turtles seen further offshore -  
wound - believed the result of trawls  
pulling them up - disturbance. Proposing  
this site and 1/2 mile offshore at St. Croix as C.H.

w/ Tom Vanselow and

wife  
SANDY

DRINKS AT  
HIS HOUSE -  
DAUGHTER  
CINDY

Dinner - stuffed Flounder \$8.00  
Roe suggested listing as all Threatened,  
but exclude Mariculture. Green  
said if you do that, green should be  
endangered.  
Thrust is that Threatened will still  
allow incidental take.

During discussions about Mexican Rillies Roe  
asked Green at what point you just forget it and  
let it become extinct - how can you effectively  
patrol 14 miles to stop poaching. Apparently <sup>that</sup> one  
month is important - MAY.

Issue of Critical habitat (Marine) is continually  
avoided. Sylvester wanted to know how  
you go about defining it - suggested every place  
is critical.

Turtles are located at sites where shrimp  
are.

Frank <sup>Whittman</sup> previously mentioned that shrimp  
fishermen had not seen Cannons/Fishing  
Institute circular.  
General attitude is that many Bureaucrats are less <sup>writes</sup>



MANAGEMENT AND RESEARCH  
PLAN FOR U.S. AREAS  
IN THE PACIFIC  
SW NMFS REGION  
NEEDS - PRIORITIES - PROBLEMS

1. NORTHWESTERN H.I.

- INTEREST IN FISHERIES DEV.
- NEED → COMPATIBLE PROGRAM
- NEED TO KNOW IT NEEDS

- WHERE LOCATED

- HOW MANY (by SIZES)

- FOOD REQUIREMENTS

- RESTING REQUIREMENTS  
BASKING and UN

- BREEDING REQUIREMENT

- PREDATION

2. MAJOR H. I.

3. ROSE



HABITAT DISTURBANCE - OTHER  
 POSSIBLE NESTING / FEEDING SITES  
 HUMAN INTRUSION  
 (ESTABLISH TURTLE SANCTUARIES)

PROBLEMS - ISSUES - MAGNITUDE

- TRAWL IN NHI?
- FEW EXISTING TRAWLS HI (PAUL)
- TRAPS (lobster - fish)
- GILL NETS
- LEGAL TAKE
- ILLEGAL TAKE
- EXISTING MARKETING - IMPORTATION  
 AND SALE OF PRODUCTS

INTERNATIONAL - INTERFACE W/PACIFIC

- PRELIMINARY SURVEYS TO  
 OTHER AREAS

IDENTIFY  
 LOCATION<sup>A</sup> SITES OF SIGNIFICANT  
 BREEDING AND FEEDING

LIFE HISTORY STUDY

1. IDEAL SITE
2. INITIAL INVESTMENT

PERFECT TO ANSWER QUESTIONS  
 THAT ARE PRESENTLY UNANSWERED!

TRACKING!



26 DAY 2

Breakfast at Kanada \$3.50

I should send

5/9 Tuesday - presentation given - on world in Hawaii. Ehrenfeld article to Green/Roe <sup>Booklet TO ROE? Sylvester</sup>

Misquito Lagoon

K. Truhant - meeting and tagging primarily young loggerhead in small lagoon enclosure - very narrow entrance / exit. Recover - what do ← Strategy

- I. Problem / Issues
- II. Background
- III. Strategy
- IV. Schedule
- V. Resources
- IV. Program Management

— STABILIZATION —

1. Goal of Turtle Program
  - Recovery of stocks to a steady state
2. Immediate and long range objectives
  - a) Assessment of Critical Habitat
    - Nesting
    - Foraging
  - b) Handle on populations - size range dynamics life history -
    - 1.) Short range - nesting
    - 2.) Long range - Total pop.

DAY 2  
5/9/78  
Tuesday



Lunch \$3.00 at Center Cafeteria

5/9/78 Presentation of slides during morning -  
 Tuesday FWS personnel attended. O  
 favourable response. Lunch at NTSL.  
 Later we discussed contracts granted -  
 overrun and extension for Capri - \$39<sup>K</sup> total.  
 aerial surveys of nesting beaches in  
 Virgin Islands didn't work very well, due  
 to wind/rain conditions (apparently obliterating  
 tracks).

according to Ekberg/Jørgen - The National Plan

→ Destructive input from SW region to  
 SE plan - (a few months)

→ No input from Washington

∴ these boss Stevenson said forget it all, leave  
 as is.

(Roe departed ~ 2 PM)

Ceilings 0 → no NMFS

"Ceiling" - hire a new NMFS person.

— Slonimza memo + never seen

— A Plan for ... Nov 1977 never seen  
 should have been sent.

done

Returned to Motel at ~ 5:30

IN PROCESS OF  
 READING NOV 1977  
 PLAN



28 DAY 2

5/9/78  
Tuesday

one hour sleep - dinner w/ Ogren, Joe Ekberg  
at PATI BURGER(?) \$3.50  
~ 1 hour drive around Slidell: computer center

5/9/78  
TUESDAY

→ Ogren mentioned that about the time that Britchard was trying to get TT support, Hirth almost got NMFS contract to survey turtles of TT. Suggested I should recommend Hirth for contract when money becomes available.

Ogren mentioned that Mariculture has some hybrid green/hawks from ~~Togers~~; Carr has a stuffed one in his office.

Reasons why this has been a difficult assignment thus far:

1. <sup>Lain</sup> Not a NMFS employee (off record; can only provide technical input, not management)
2. Ogren/Ekberg have been through this plan, revisiting several times - tired of it - feel they have the plan <sup>now</sup> let SW write it's own; got destructive comments from SW
3. I did not have a copy of NOV/1977 draft plan to study beforehand

called Mother's, Father and Jim

Stayed up until 1:15 AM working on needs.



NOTE: NMFS - FWS competition/jealousy <sup>29</sup>  
Possibly at all levels  
+ INTRA-AGENCY NMFS  
BICKERING

5/9/78 DAY 2  
TUESDAY

4. Shomura sent memo w/ project outline and budget; plus older copies - memos, that I did not have benefit of seeing before arrival
5. Joe Sylvester will be taking over from Manager Dan Ekberg, on July 1, - only here for two weeks before attending meeting -

Joe Sylvester  
National Marine Fisheries Service  
9450 Koger Blvd.  
St. Petersburg, Florida 33702  
(813) 893-3721  
893-3191

KV4HP  
portable 7

6. Should have been accompanied by someone from the SW center - a manager.
7. R. Roe - organizer - left on DAY 2 at 2 PM.

Called Mother & Father  
and Jim

Stayed up until 1:15 AM  
working on needs.



30 DAY 3

5/10/78  
Wednesday

Breakfast at Ramada \$3.00

Reassigned personnel in addition to \$350K FY 1978 - only 1/3 of request -

8. If turtles are so important to USW, why not send someone from the Center (in addition to me).

9. Sick  
Worked at center (in small office) going over my penciled in comments - Everyone except Tom sick - Ekberg pressured me on requirements, personnel, types of management-oriented things that "managers" would know. Developed project needs and budget - I have copies - Left all of the comments with Tom who will consolidate and write.

Lunch at Cafeteria - \$2.25.

In afternoon, Tom took me down to EROS - DOI - checked on photos of NHI - (over)



5/10/78  
WEDNESDAY

tour by -

→ Frank Beatty  
Remote Sensing Training Officer,  
DOI - NSTL - card →

Many satellites have taken photos -  
LANDSAT C now up there -  
can be turned on to take photos -  
I mentioned HIRAN - seemed to  
get response.

→ Contact Stanley Freedman  
Goddard Space Fth. Center  
Greenbelt, Md 20771  
rel. (301) 982-5406  
sent 5/25/78 ~~rewards~~

→ Ed Arthur of NORDA (Navy)  
have photos of NHI - - Sept 1977 taken  
(down the hall).

Backnotes -

- Mittag would have nothing to do with Taylor
- Richardson and also, what present papers this week at meeting in Florida
- Bjorn Dahl gave presentation on feeding, bacteria, etc. at Gainesville
- Angus Myerland (?) collected stomach samples at Nicaragua slaughter plant.



32 DAY 3

5/10/18 Drinks at Ramada - Dinner at  
WEDNESDAY VERAS seafood - soft shelled  
crab -  
Mention of Corn Mock raceways used  
to grow Ologgerheads.  
~\$9.00 (we all paid for tons).  
call mother/father

DAY 4

5/11/78 Breakfast at Ramada #2.25 -  
Thursday checked out ~\$63. Master charge  
TO NSTL w/JOE, DON  
visited EROS -

No coverage of NHIT  
I should check with  
U.S. Geological Survey  
saw B.E. Arthur - NOAA  
Code 330 -

James Hammack wrote article  
about islands in wrong place -  
Photo Engineers Journal  
"Landsat Goes to Sea".  
Defense Mapping Agency  
Hydrographic Center  
Washington 20390



DAY 4

5/11/78  
Thursday  
Saw many about seagrasses -  
north of Tarpon Springs  
"holes in seagrass" photos

- Sign in New Orleans terminal, DOC DOI  
Bragging of sperm whale and loggerhead  
turtle notifying overseas travelers about  
Marine Mammal Protection Act of 1972 and  
Endangered Species Act of 1973.

Received internal report covering porpoise  
tagging from Dave \_\_\_\_\_ - works  
for Dr. Kemmerer.

~ 11:15 AM Departed NSTL for New Orleans in Joe's  
rented car.  
Joe will go to Cayman for weekend look  
as soon as possible; also thereafter  
to Washington to visit Dick Roe.

3:10 PM DEPART Delta #10 for Atlanta - L-1011  
ate lunch in terminal \$3.00



5/11/78  
Thursday

paid \$8.00 extra to have stop off in Detroit.

Bx notes Ekberg recommend study proposal to Shomura as soon as possible.

(Sylvester's Western Store by  
New Orleans Airport  
Kenner, LA - 70026

Survey of foreign countries in Caribbean is being conducted now - before any Pacific SW work (contracts)

NMFS Terrible Bureaucracy -  
but compromise - provides job security.

"personnel reprogrammed"

NMFS only responds to problems -  
"no problems in SW"

Depart Atlanta ~ 6:25<sup>PM</sup> local -  
(one hour ahead of New Orleans)  
- Delta -

Arrive Detroit about 8PM  
picked up and checked into  
Lincoln Inn.

Called Joyce - Marine



Presentation for IUCN - - Conservation -

1. Hawkbill translation  
Read - list high lites - suggest  
action? Recommendations followed?

2. Overview of Hawaiian conservation  
and research situation.

5/12/78 Saw Jack  
Friday talk show mention Pacific ridley  
turtles - should have seen 100,000's  
only saw ~ 1000's -  
Dave narrator - "Good Morning  
America" - lots of film footage of  
ridleys underwater; hatchlings in tanks.

Breakfast with Maxine and Carl;  
short visit to June - Doug;  
Birthday dinner with Joyce, Joe  
and Grandma Claston;  
Evening at Maxine's - Milo and Jay;  
Jackie and Bob; Betty Jane.

5/13/78  
SATURDAY Breakfast at McGraw's \$3.00; Picked  
up by Betty, visited Liberty Street,  
Walked down Liberty St.; visited  
Kosch's Deli; Sam's Barber Shop; Dinner  
at Maxine and Carl's - Richie - Jean - <sup>Betty -</sup> JUNE - Doug



5/14/78  
SUNDAY

## GIFT FOR TRACY

Breakfast at McBraws \$2.00  
~~Betty~~ Betty picked me up; to  
 Downtown Detroit, photos of Renaissance  
 center, by Grandpa's old house - photos.  
 to Jackie's for ~~breakfast~~ breakfast, Maryjane  
 picked me up for dinner with \$12.00  
 Scooby at "Hungarian Kitchen." to  
 Maryjane's house - Argie,  
 Bill at Lincoln Inn ~ \$72  
 MASTERCARD

5/15/78  
MONDAY

Depart Northern Central Airlines  
 9:45 AM for Toronto - arrive ~ 11 AM  
 Bus to town - NICE RIDE

\$4.00 Breakfast - Detroit airport  
 \$3.50 Bus to Toronto  
 \$2.50 cab to Park Plaza

office 978-8506 - Mrosovsky

\$2.60 lunch Park Plaza

Met Jimus at hotel lunch -

BIOLOGY OF SEA SNAKES  
 by HEATWOLE

To be sent  
 by Jimus  
 (HAI!)



6 PM - 10:30

5/15/78  
Monday

Dinner at Mlesovsky's House



(What are the JAPANESE THEMSELVES SAYING?)  
 — SCARCITY OF INFORMATION —

Addresses the topic of Japanese Trade in  
 hawkbill primarily through information  
 provided in a privately published report  
 by the J.T.S.A. TITLE

I. BROUGHT TO MY ATTENTION BY ITARU UCHIDA

A. DATES March 76 - NOV 1976; TRANS-  
 lation Completed March 78

See Preface

II. Some Statistics in JAN 77

III. <sup>NEWSLETTER NO. 2</sup> <sup>25-DAY TRIP COMMITTEE</sup> Insight on how specialists  
 in Japan view the situation

HIGHLIGHTS OF INFORMATION CONTAINED

1. Between JTSA and Japanese tourists  
 Japan consumes approx. 90% of hawks  
 taken for commercial trade
2. INDONESIA AND PHILIPPINES - shell  
 60,000 greens Most of others - re-exports
3. " SE Asia - 35,000 Adults - 30,000 stuffed
3. Taking small turtles in the  
 major problem
4. Raising hawks for shell not feasible <sup>5-10</sup>
5. Substitutes - green plastron
  - A. 60,000 annual
  - B. Greens have recovered
6. Recommendation -
  - A. Ban or curtail stuffed
  - B. Reduce SE Asia imports to  
 pre-1971 levels < 15,000.

JAPANESE HAWKBILL SITUATION



As of 1976 (my latest up-to-date figures) -

SE Asia about 20,000 lbs -

total to Japan 32.7 thousand kg  
or 72,000 lbs

including lambear (P.R. - 194kg)  
eg. Cuba - ~ 7000 kg

Questions:

1. Where are the feeding grounds?
2. Where are the breeding grounds?
3. Where are the major areas of exploitation?
4. Where are the areas of disturbance - harassment - incidental catch.



40

MULTIFACETED RESEARCH AND CONSERVATION PROGRAM

OVERVIEW OF HAWAIIAN ISLANDS AND SOME AREAS IN THE PACIFIC

MAJOR + Chain of islets ~ 1100 miles

Research and Conservation program under way since June 1973, First involving tagging, census and productivity studies at Breeding site - FFS. During last 1/2 - 2, expanded to Full time effort involving <sup>immature turtles</sup> in feeding pasture -

EMPHASIS

POP. SIZE -

List -

EXISTING LAWS -

MANAGEMENT → protection

→ young growth - move - tag  
shark stomachs

Nesting - less exciting

- shark - large fish project

- MALES -

AGING →

→ OVERVIEW ←

+ Tag Development (Inconel)  
Education programs i.e. booklet

my interest in several Pacific areas  
% SPC - FIJI - Cooks - W. Samoa  
COOPERATE - WORK THROUGH



2. Enderwetak - TT 150 tapes
3. Phoenix Group
4. Isolated islands - Johnston, Wake,  
MARCUS
5. PEACESAT
6. VISITORS - Solomons

### PROBLEMS

Threats and potentials

- (New Fisheries -)
1. Development of Commercial Fisheries in N.H.I
  2. Poaching - Enforcement (INCIDENTAL CATCH)
  3. Increased recreational/commercial fishing and pleasure activities in feeding postures around major H.I. Gill nets - length (1000')
  - 4.
  5. FUNDS (?) cooperation w/SPC - Advisory -



5/16/78 Breakfast at Park Plaza - \$1.50  
 TO Room 67 - Meeting started  
 at - 9:20 AM  
ACTION PLAN

TUESDAY

- ① EASY TO DEAL WITH
- ② HIGHLY STRUCTURED

Elephant plan - raised \$60,000 already

Bassinger came through last week on the way to Japan to discuss CITES.

9:45 AM Carr - Mexican Ridley  
 History

Ogren - Shrimp Trawls

Ross witham program

Brown shrimp - mud  
 Pink - sand/shell

5/16

TUESDAY

11:25

1:25



5/16/78 "lots of trawl data will be available at end of summer"

TUESDAY

Go to something that is to their advantage -  
decreases sorting

11:25 AM Marquez - Mexico

10,000 leathery's - Pacific Coast -  
paper will appear in BIO. CONS. →  
BACK NOTE: Check HERPETOLOGICA recent issues.

Publicity useful

Politicians may not agree with foreign pressures.

LUNCH - \$3.00 UNIV. TORONTO Cafeteria

1:25 PM SCHVITZ - SURINAM - Low Hatch of leathery's in bratwurst

1000 head start - \$12 each

Not take longer than

1-2 years for young to reach feeding pastures  
30 cm

"Does headstarting work"

"are they -  
functional member of population"

Need - "SIZE DISTRIBUTION FROM  
COMMERCIAL CATCH" "Schvitz paper"



44

~ 1:45 PM

5/16/78

TUESDAY

CARR-

Best Possible Count for all areas of the  
~~the~~ American's

"Cribb from other info"  
LIFE TABLE - INsofar as done  
without life table.

5/16/78

TUESDAY

2:15 PM

SIOW

Leathery beach - 12 miles

50 TONS

Calcium carbide - 1976 T. renjani

- pollution -  
Exploration of oil - pollution

→ + 50,000 tons diesel

50,000 visitors to see turtles -  
"Turtle watching"

Hotels specialize

River turtles - go outside river mouth to  
breed → Callogus borneensis

Leathery hatchery - start 1961  
1978 → 52% hatch

Leathery  
BONES from -



5/16/78  
TUESDAY

lathery size <sup>150</sup> 130 - 180 cm

now 400,000 laid per year -  
25% replanted - released

Eggs selling \$0.50 = US\$1.00 each

hens egg \$0.5

- Start tagging in 1967
- 80% coming ashore with no tags

\$10,000 made from WWF per year  
to increase egg collections.

1/2 mile "delicence" of beach where  
tourist go.

Maturity age 5 years (?) clipping.

maximum

Joy 9X

80

80

6X average

8kg



5/16/78  
TUESDAY

LIMPUS - 10,000 adult ♀ taken  
Jones Strait

Heron IS.  
1974/75 - 1100  
75/76 - ~20  
76/77 - ~350  
77/78 - ~47

hardouts - postcard

Dinner at L'Europe Restaurant -  
Croatian - Hungarian food  
\$9.00

Walked down Jones Street with Siow  
\$3.00

5/17/78

WEDNESDAY Breakfast at hotel - \$3.00

Limpus mentioned visiting  
Naval Lab in San Diego - ~1976  
friend George PICKWELL  
"Reptiles of Pacific Coast America"  
Flanagan head of chemoreception project  
on turtles -  
Limpus observed probes in heads

NO idea where  
They were positioned  
NO X-RAYS



5/7/78

WEDNESDAY

Siow - suggest hawkbill hatchery for Zombonga.  
 no knowledge by group of what projects  
 funded during past 5 years, except Leatherly  
 hatchery in Malaysia - increase

Basic Research  
 Applied Research

Archie has experienced IVEN turned off on:  
 Basic research —  
 surveys —  
 sanctuaries —

Lunch — show slides —  
 — Siow film  
 — kimpus  
 — Ogren  
 — Marguez

Dinner at L'Europe

8:30 PM Reception at Mrosovsky's House



5/17/78

~~WEDNESDAY~~  
~~NEEDS~~

SURVEY

ASIA

#3 S. China Sea  
Pastures (GB)  
Vietnam, Cambodia  
6KS. AMERICA  
#1. Brazil Coast 5K  
#2. Mex-ECUADOR 4K

AUSTRALIA

#5  
W. Australia C.L  
#7KHABITAT  
PROTECTION

MANAGEMENT

Applied  
RESEARCH

LEGISLATION

Conservation  
AWARENESS  
PUBLICITY#9 Protection for  
Black-  
MICHOCAN and #4  
TIERRA COLORADA  
Roopines MEX. RM  
(Luth)



## INDIAN OCEAN

7. West Indies  
Pakistan (IUCN)

## CARIBBEAN

#4 W. INDIES  
Ac #3

## PACIFIC

#6 Papua N.G.  
#9 Kerdamae  
(GB) #3K

## AFRICA

#8 Mauritania  
W. Sahara  
#5K

#11 West Indies  
SAND  
TILES & MINING LO  
? + legislation #3  
#13 AVES IS. SANC.  
#0

#12 SANCTI. IS. G. I. B.



EUROPE

ANY AREA

Survey

Habitat

Manage

Applied  
Research

Leg:

Cons:  
pub:

#19 Growth rates/  
Maturity/AGE  
Determination

#18 Head-starting pest  
(+ Constants) Evaluation  
extensive



Mortality —  
 Life Tables — etc.

Polun Report — got  
 Carr Cabba report — got  
 \* — Bragerma

5/18/78  
 Thursday

Everything dissolved at IUCN conference —

Defenders of Wildlife

— General life cycle and population status —  
 new understanding of life cycle of sea turtle



5/18/78

Thursday

Send Hawksbill translation to  
 ① Ogren, ② Slow, ③ Schultz

- ① WWF-funded leahy >  
 ② ~~Develop~~ LDC countries

Malaysia - General meeting

Translation to Peter Scott  
 W. King will take his place

Morphologically  
 ecologically  
 behaviorally  
 Geographically

Classification  
 Designation

- ✓ feeding ecology
- ✓ lack of effective protection



5/18/78  
Thursday  
12-1 PM

Priority decision making

Lunch at cafeteria  
(small pocket dictionary)

[addresses] - sent  
of DOC - NMFS - NOAA officials (Trawl nets)

HATETERIES - emphasis

ZOOLOGICAL EXPLORATION -

- AID -

feedback on newsletter - uphill battle -

\* → on-going research - Growth summary  
for newsletter



S. Queensland

5/18/78  
Thursday

Shark netting programs - East Coast of  
Australia - catch ~ 25 leatherbacks  
2 year period ~~for~~ by one - several doing it -

5/18/78  
Thursday  
Group

Monograph Leatherback - MROSovsky

got info

Jim Van Sant - write - need address

1:30 - 4 PM + no Mr. Siow

→ to squerell lab

4PM

Memo circulating in IVCN  
wants to get out of business of  
endorsing [farm stock] MROSovsky  
read it.

about to  
miss "

Coral Reef Symposium"

SCHULTZ - raised at Suriname  
1000 at 7 month sold to Cayman  
↓  
15-20cm



1000 will be released in June on beach  
 then 500 one year old released on beach

5/18/78 Group ①  
 Thursday luxury pellets

Group ② 25% of pellets + insects + legumes (leaves) +  
 creep vine (KAZOO)

facilities → floating

also bought 20,000 eggs (doomed)  
Cayman Farm

one year

100 adult turtles bought from Mexico

+ 70  
 next year

Information sent to IVCN on  
 hatching recently by Cayman

doomed by Schultz



SW AIR → Palm Springs  
3 PM

5/18/78

Thursday Dinner at a French restaurant  
w/ Carr, Marguez, Mrosovsky,  
Schulz.

Walked to Kensington Street  
with Mrosovsky. Discussions

5/19

Friday → Drive to Ontario countryside  
with Mrosovsky, Limpus, Schulz.  
Lunch by Beaver Dam.

(Dinner at "Old Fisherman's Market"  
with Marguez, Schulz, Limpus —  
— \$15.00



5/19/78

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FRIDAY

HAWAIIAN

GREEN TURTLE CONSERVATION AND MANAGEMENT STUDY  
ACTION PLAN FOR 20 MAY - 20 JUNE 1978

- 1. <sup>23 MAY 1978</sup> Tuesday noon →
- 2. Siow → 26 May Friday
- 3. MEETING w/ SHOMURA - SPC meeting plans  
- purse seines
- 4. NAVY CONTACT - KAHOLAWE AERIAL
- \* 5. TELEPHONE W. KING - NMF delay  
- IUCN inaction (mpas)
- 6. Green telephye - <sup>HAVE?</sup> report on Springs (lobsters) - June meeting
- 7. <sup>new</sup> Send Roe Booklet [Sylvester Kay's Turtles]
- 8. USCG Flights - Whittow
- 9. More copies of Jap. Hawk. to Siow, Peter Scott,  
Ogren, Schulz
- 10. <sup>new</sup> Whiday letter - DeSilva letter
- 11. Sarawak Data
- 12. Hawk report to Folgerin?
- 13. <sup>new</sup> Terrestrial Critical Habitat or Carr

5/20/78 Depart Park Plaza at ~ 6:10 PM -  
5 FT Friday cab #200

#3.50 coach fare

8:45 Depart Toronto for Chicago #3.00 Breakfast

~10:45 Depart Chicago UA flight 103

Resolution to use time left to  
advance <sup>influence</sup> positions to highest possible  
level at earliest possible date.



5/20/78  
SATURDAY

Report ON A MEETING TO  
PREPARE AN ACTION MANAGE  
PLAN FOR ~~THE~~ ~~NATIONAL~~  
SEA TURTLES UNDER  
U.S. JURISDICTION

Revision of SE plan -  
incorporate Pacific component

Arrive LAX ~ 12:45 PM local time

Backnote -

1. Adults/juveniles <sup>in some case</sup> use same feeding pastures in Hawaii and other areas <sup>can implied not in Caribbean</sup>
2. Method of extrapolating egg counts - didn't get out there to dig up in some cases, for some time. Limens cross checked by counting shells of known.

Depart 3 PM local Sun Air turboprop  
#2500 for Palm Springs.  
Arrive 3:45 AM



Depart

5/22/78  
MONDAY

American Airlines #168 at 7:40 AM  
for Los Angeles. (no additional fare)  
Baggage check to Honolulu on #1567 Western A.

Notes - Polunin report -

~~sent~~ ~~received~~ Grandperin - copy of  
~~received~~ "Islands for Science"

Post Card printed on my own?  
Possibilities -

1. Turtle/seal basking
- 2. (excepter has color separation) Turtle/seal at Necker
- 3.

Hi'o for 45 minutes -  
Arrive Honolulu ~ 1:15 PM  
local time.

---



See p 26; 28-30

- Plan for SE already exists - (should have been sent)  
(not accepted by Washington)

FY 1976 - \$70,000

1977 -  $280,000 + 100,000 = 380.$

1978 -  $250 + 100,000 = 350.$

1979  $350 + 100,000 = 450.$

+ (?) one year special emphasis budget

- Reprogrammed personnel

- NMFS only responds to problems  
Problem were only apparent in SE region.  
Not aware of problems in SW

These are - ① Trawls (primarily shrimp commercial and private)

② Lobster Traps (loggerheads)

③ Predation - eggs (Raccoons, people)

④ Beach usage - people, development,

(ie. Dune buggies)

"Termed politically sensitive"

⑤ Ground fish Trawls

⑥ Gill Nets

→ KEMP'S RIDLEY, LOGGERHEADS, LEATHERBACKS

- Roe departed 2 PM 5/9/78 DAY 2

- Contract almost went to Hirth for TT 1976



Pacific Needs - PROJECTS  
(as I specified)

Aided by Ekberg in determining # values

— Terrestrial Critical Habitat Paper as guidance document

1. Population Survey and Assessment -  
Hawaiian Islands, Johnson,  
Wake

5 yrs?

In-depth determination of all nesting and foraging sea turtles and their habitat requirements; detailed life history study; evaluate the effects of direct and indirect fisheries.

1) NMFS FTP Hawaii

2) ZFT support ~ 20k/year; Travel 10k/year/all three

2. Foreign Assistance -

5 yrs

Provide assistance to Pacific Island countries in the development of survey, assessment and management programs for sea turtles; develop cooperative programs with the South Pacific Commission

1/4 professional

1/4 time support 8k Travel

3. Population Survey of Rose Atoll -  
Conduct a survey to estimate the number of nesting and foraging.

2 yrs



sea turtles; determine the magnitude of poaching by foreign fishing vessels; determine predator-prey relationships  
 1/2 Time professional; 1/2 time support 4K travel

4. Population Survey - American Samoa (including Swain's Is.)

1 1/2 yr

conduct a survey to estimate the numbers of nesting and foraging sea turtles; determine the socio-economic importance and use of sea turtles. 1 full time professional  
 1 support 5K

5. Population Survey - Trust Territory, Commonwealth of the Northern Marianas; Guam -

5 yr

Conduct surveys to estimate the numbers of nesting turtles; determine social and economic importance; determine the magnitude of poaching by foreign fishing vessels; determine the effects of direct and indirect fisheries  
 1 full time professional  
 1 support

7. Population Survey - Howland, Baker, Jarvis, Palmyra and Kingman Reef -

3 yr

conduct surveys to estimate the numbers of nesting and foraging sea turtles.  
 1/2 professional  
 1/2 support 3K travel

ext's  
 pote



6. Population Survey and Assessments - Canton and Enderbury Islands - conduct survey and assessments to determine the numbers and migrations of nesting sea turtles.  
 1/4 professional; 1/4 support - 1/2 travel

Tag - Solved (refer to IUCN)

SW Problems and Potential Problems

existing and Potential

1. Tuna-Turtle problem  
(alive ridley?)
2. Foreign fishing boat poaching
3. Beach-marine habitat usage
4. Direct-Indirect take
  - a) legal
  - b) illegal
  - c) gill nets / ground Trawl
  - d) hook-line
5. Enforcement
  - a) domestic
  - b) international-interstate commerce

Compatibility of Commercial/recre. fisheries



Budget

1) NMFS	FTP	1	30
			<del>2</del>
support		2	40

2) Professional		3.5	80
Support		3.5	50
Travel			41

241 K



68

Project  
#9

① Cost - \$3.00

# Survey of Sea Turtle Feeding Pastures in the Kermadec Islands

#3

30°S, 178°30'W

Need Kermadec Islands of N.Z.  
New Zealand's (see Micronesica article)  
Raoul - 29°15'S conservation content  
177°52'W

Lat. - Long. ?

Names of each island

Weather Station

Comment

The Kermadecs of New Zealand consist of 12 subtropical oceanic islands situated between 5° S and 30° S W. The only human habitation is the staff of a small meteorological station. Four of the islands have been designated by New Zealand as "Reserves for the Preservation of Fauna and Flora", however only limited information is available on the natural history of the island group, particularly with respect to the marine environment. This is particularly true.

Although nesting is not known to take place, there are reports of aggregations of green turtles feeding in the nearshore waters. The origin of these turtles, and the extent to which the area serves as a development and resident feeding pasture is totally unknown. A need exists to conduct a baseline survey of the area in order to determine relationships and dependencies which exist with other turtle aggregation in the Pacific.



#30

~~Leaflet~~ Pamphlet Promoting Public Awareness  
of the Conservation Status of Sea  
Turtles (consumed nations?)

translation; Produce large numbers -  
Need conservation content

inexpensive - plainly written  
in <sup>diverse</sup> public awareness <sup>by the</sup> international conservation  
problems of sea turtles <sup>can aid</sup> <sup>considerable</sup>  
potential for (integrating) stabilizing  
and hopefully improve the deteriorating situation.

The public needs to be informed in a concise  
short and plainly written fashion what the  
problem exists and what actions can  
be taken to slow the decline and  
however lead to recovery. The even  
Principal of Recommendation can be used  
as a basis for such a pamphlet.

A short, concise and plain written  
pamphlet need to be produced for  
widespread distribution.

French

Spanish

German

The text (should) needs  
to be translated and  
pamphlets prepared in,



COST - dependent on exact details and area of work.

#19

# Determination of the Natural Growth Rates of Immature Sea Turtles

need - Importance of breeding colony  
 Life Tables(?) - ease of working at such a site  
 see Cagle - my proposal in comparison to work with immature turtles which rarely leave the water.  
 Age at Maturity (long-term)

Knowledge of an animal's growth rate and age at sexual maturity is basic to understanding the dynamics of a population and developing sound management plans. With respect to sea turtles, there is a dearth

Almost nothing is known about rate of growth, age at maturity, of sea turtles. This is due to the fact that they are already sexually mature when they are already sexually mature. Most work has been with adults at nesting beaches (this is important)

[Also include aging?] attributed

TO the extent possible, such work will have to encompass the different species of sea as well as their geographical and generally separated populations

(preliminary work started in Hawaii and Australia)



#17

# Pacific Islands Conference on the Management and Research of Sea Turtles

used by local people

conservation

SPC involvement - culturally and nutritionally important -  
Need

international cooperation

Pacific Island <sup>area's</sup> nations which comprise <sup>ing</sup> Polynesia, Melanesia and Micronesia <sup>still</sup> possess large numbers of sea turtles that are culturally and nutritionally important to native people.

Inadequate knowledge - inadequate cooperation in developing management plans. A need exists to convene a conference -

through SPC -

W. Samoa - hawksbill hatchery -

ensure future persistence

benefit significantly



⑤

COST - \$3,000

#12

Designation of <sup>certain</sup> Pacific Oceanic Islands as Sanctuaries for Sea Turtles

Need  
Presently unused  
International Biological Program? year →  conservation content

enhance conservation  
public attention/awareness

• breed and feed

Expanding human populations and improved means of transportation are presenting greater threats to remote <sup>and presently uninhabited</sup> oceanic islands in the Pacific that are used by sea turtles as breeding sites

Such critical habitat locations need to be identified and evaluated for <sup>official</sup> designation by the parent nation as a sanctuary for sea turtles. This action could serve to enhance the <sup>conservation</sup> status of <sup>the same</sup> the populations, as well as <sup>the</sup> <sup>public</sup> <sup>awareness</sup> of the problems confronting sea turtles.

#

165-1976

32,688PK



#3 (formerly S. China Sea pastures, Vietnam and Cambodia)

# Survey of the Japanese Hawksbill Industry

72,000 need

165-1976 Stuffed - whole  
Jewelry - plates

conservation recommendations content

32,688kg

Sources of supply

Sociological

Japanese tourists in Asia purchase significant nos recognized as

Centered in Nagasaki

Japan is (known to be) the world's largest consumer nation of hawksbill turtles, with massive quantities of tortoise-shell being imported annually from numerous less developed countries. The Japanese hawksbill industry

of whole stuffed cars and massive quantities of tortoise shell are imported annually into Japan for handicraft industry centered in Nagasaki.

The desirability of stuffed curios and articles fashioned from hawksbill scutes appears to be deeply ingrained into the Japanese culture, however, very little understanding of this industry outside of Japan and the mechanics of this industry exist. In order to gain information for the purpose of designing appropriate conservation measures, a survey needs to be conducted.



Lany - Taking Incorel orders.

TOUR OF REARING - TED WILLIAMS

- 1.) Switch to Hawksbills too. Get from Ross Witham.
- 2.) Constructing another building.
- 3.) Applying coded wire in places.
- 4.) Use anesthetic at Rancho Nuevo when applying tag.

Need - Cayman article.



KEMP'S RIDLEY SYMPOSIUM  
GALVESTON, TEXAS

77

9-30-85

Monday

Depart ~ 6:15 pm American Airlines  
direct flight to Dallas-Ft. Worth,  
Charged planes in Dallas-Ft. Worth. Arrive  
Hobby Houston Airport - Rented a Hertz #35 drove to  
Galveston - checked in at Gaidos Motor Inn. Met Larry

10-1  
TUESDAY

Agreed Terry Henwood. (5 hours ahead). Registered at  
Texas A&M Conference site (Pelican IS). Toured Galveston  
rearing w/Henwood.

10-2-85

Wednesday

Political awareness Ed Klina  
(press coverage) 1) cables from 2 Congressmen  
Carol Allen [HEART ORGANIZATION] 2) Major of Galveston spoke  
"Turtle week"  
40-45 people in attendance. +  
letters to legislators (Heart)

JACK WOODY

Loggerhead, Green, Kemps in Texas -  
but only incidental nesting ever  
reported - S. Texas, Padre Is.

20-30 clutches eggs removed annually.  
order of priority

- 1) Protect Rancho Nueva
- 2) 20-30 imprint & hatch
- 3) Headstart
- 4) Research etc.

GOAL -  
RECOVER SPECIES  
& CREATE A SECOND  
NESTING COLONY

No Real indication of any gains.



78

10-2  
Wed.

Existing limiting factor = Shrimp Trawling Industry.

FWS is a clearing house for Mexico  
650,000 eggs protected (past 8 years?)  
350,000 hatchlings released there.  
9200 headstarted released

34-1979 1980 year class AT  
Cayman Turtle Farm.

RENE MARQUEZ

60km of sand beach --  
Rancho Nuevo.  
\* - Invited children to release hatchlings on the beach.

Commercial harvesting stopped since 1966.

1966-1977 many eggs taken by poachers -  
horse across the marsh

1978 on - cooperative program - 410% taken  
estimate.

Klima "We know they are going to do (come up  
on Padre beach), it's just a matter of time"



Nat. Park Service -

Padre IS. Nat. Sea Shore

10,500 imprinted thus far on Padre Sand

~ 70% males due to Styrofoam incubation;  
Now will change it to be in favor of female  
to balance out overall to 50-50.

- Birchfield - Rancho Nuevo - compact the sand  
in the past due to great numbers, the thermodynamics  
of nest ~~cells~~ incubation must have been  
much different.

ASK/SEND CYNTHIA  
FOR POWERITE  
BROCHURE

ORAVETZ

① Information & Education -  
"Shotgun" - appraise & evaluate effect

② Technology Transfer - TED

③ Acquisition of incidental catch

④ Recovery Plan

sect. 7  $\begin{cases} \text{Formal} \\ \text{Informal} \end{cases}$

ILA -

Hawkbill show



80

10-2-85

wednesday

MARQUEZ

23°10'N 97°50'W · Rancho Nuevo

Ralph Rayburn <sup>TEXAS</sup> - Shrimp Association

500,000,000 lbs

#1 Billion a year

1979 - Main item of attraction  
Enormous no. strandings along  
South Padre Is.

Jack Brauner - Reg. Director -  
"problem could shut industry down"

Lobby to keep headstart going.

"Highly emotional problem"

"TED Committee"

Education not regulation



10-2-85  
WEDNESDAY

81

ORAVETZ

How many TEDs in use -

How many the government has placed -  
196 + 12 + 45 + (50 now being distributed) =

Ted-like devices -

Foreign successes - Indonesia to cut down  
on by-catch of finfish, ~1000 of them.  
2 Dredges in Mexico - 1 Gulf; 1 Pacific  
trawlers.

Ted 1; Ted 2  
Collapsible TEDs - new  
Iron - Fiberglass

Sea Grant

20,000-25,000 com. fish license.  
Louisiana is leading Gulf coast shrimp  
producer (catcher).  
jelly-balls; cannonball shutes.  
Fishermen previously developed shute  
for by-catch.



82

10-2-85

WEDNESDAY

John Kerwin - SEA ARAMA

24 turtles in collection

Soon to get 4 more from Calif.

Searama Sea Turtle Research Inst.

Dinner at Searama -

Saw Porpoise show, shark show,  
and 5 - 1978 Kemp's, 1 amputated  
hawsbill, and 2 greens.

Noted "bumps" on the heads of 2-3 Kemp's.

Kliva - "Super Head-starting."

Send Electro  
Literature to Peter Lutz.



10-3-85

83

THURSDAY 8:30am

Pat Burchfield - Problems of  
transporting eggs out of Mexico

KING - Incubation temperatures -  
artificial and natural at Rancho Nuevo

YUKI Morris for Thane et al.

~~TESTES~~

GONADES a pink - Smooth. - ♂

~~TESTES~~ OVARIES

Yellow & granular - ♀

Laparoscope & sectioning of <sup>Gonades</sup> ~~testes~~ in

Didn't use for comparison any of  
the sex-ratio work from Harvill.

Recommend increasing for ♀ bias.

Calbourn - Genotype?  
Effects of sex reversal -  
♀ less able to survive.



10-3

TAG-  
8662 given to  
OgdenAddress low hatch (~12%) of  
1983.

Look at unhatched eggs.

MARK GRASSMAN -

Most parsimonious explanation  
of these orientation responses  
appears to be " " Padre IS,  
imprinted.

- LADY- Headstarting

Hatchling

14-15g → 500-700g



Tom Annette  
 ↓  
 JOHN MYSING - (send my reprint)

- Satellite tracking  
 Ranchy Naval  
 - frustratingly brief -  
 2 sst. attached, 2 returned by fisherman.  
 Fishman intervention.

ARGOS

420 seconds - They would like to have this long for a fix.  
 ~300 seconds best for kemp's this summer.

Expect 5 messages a day. 21 happened, so he knew it was on the beach.

CAREY OGBEN

- photo of someone taking a picture of a turtle
- Have someone hold dorsal & ventral.

"Widely distributed"

29°N - 20° isotherm - hibernating lvs

above - 10°C coastal areas

Baja too.



10-3-85 Thursday

Ted Williams

1978-1983  
as of Feb. 85

8,241

378.

4.6%

Spanish Salsch - don't  
 abandon search. Based on 1 recovery.  
 Main<sup>ly</sup> return - from Ship trawls.

shallowes  
 deepes  
 Byles - Tracking  
 Kemp Ridleys - blue crabs  
 Loggerheads - Horseshoe crabs  
 Chesapeake Bay

Habits & Habitats

[Use different habitats]

Traps keep getting torn up by turtles.  
 Crabbers shoot them with D's.



Ridley's concentrated in declined <sup>sea</sup> grass beds.

Fish traps - traps fish  
"Pound nets" (looks like Eds)

10% of all live and dead they see are kemp.

est. 200-300 (hundreds) <sup>kemps.</sup> kemping Lower Bay each summer

Kemp Seed "Turtleprint" by H. Fortner

Dickie Rivera ← TO her

"Dermatoglyphics"

"Patch-Cakes" Company - Cobrado  
Mrs. Hunter - Houston Tex.

Allometric or Isometric  
def. parts grow at a different rate  
"same rate"



88

10-3-85  
Thursday

Data Management

"geometric mean"

need copy of FIMB  
papers to  
AdMES

10-7-85 B. Schoeder

TAG NOS.  
used in W Atlantic  
+ Gulf

Barbara Schoeder

Data files for kempes at Miami lab.

"Stranding and salvage network"



amnt  
Request Cayman info

Fall 1987  
WATS II

89

## PRITCHARD

"neural tubercles" - poss. role  
in stabilization of skull (strength)  
in juveniles.

Frozen at  
Aquarium

Juvenile olivacea remain almost  
"unavailable" -  
"a major mystery of sea turtle biology"  
in his opinion.

Hatchling indistinguishable <sup>temp</sup> olivacea

Adult Kemp's very wide (widest known sea turtle  
Kemp's more massive shell & shell - as  
much flatter.

light grayish green.  
Round short-shelled form; highly ossified  
very primitive - most obvious

Olivacea - widely different feeding  
habitat. Opportunistic

"  
"ECOLOGICAL NEED"  
according to present ecology,



10-3  
 Thurs. Kemp's - feed on harder things than olivacea.

Rath's glands - leptocephalus -  
 4 inframaxillary -  
 each lower jaw gland.  
 "eyes of meteorology"

Ridley are mainland instead of island species.

Olive - Atlantic, Pacific & Indian oceans -  
 "not separable"

Ridley - nearly absent in the Caribbean.

## Callouet

Early years - Husbandry -  
 not research  
 First year of growth is  
 still in "exponential phase"

Hatchlings feed at the surface  
 3% to 1.5% of body weight  
 feeding rate.  
 Fed 2x day.



Deborah y. turtle  
photo

Conference beach - bases  
to Head Start 91

what if predation - natural mortality  
is not <sup>positively</sup> directly correlated on  
size, but rather low mortality  
at hatchlings - post hatchlings (juveniles), and  
highest <sup>on</sup> on platter size juveniles (final  
head start size) when they go to  
coastal habitat from pelagic?

What constitutes head start success?  
How do you know when it  
successful. How will you know?

~~W~~

---

Sea anemone  
33.44 kg infinite weight theoretical  
→ less than seen at Rancho Nuevo  
= 39 kg there



10-3-85

Thursday

Disease [G. Leong]

Captive breeding efforts

Video -  
Miami SeaquariumCenter for Sea Turtle Excellence  
Bronze metal

More stranding network there.



Requested copy of my FIMD  
 "RSP" by Jerry Egreas for more  
 debris study.

Raymond SIS  
 Veterinary Anatomy  
 Texas A&M UNIV.  
 College Station, TX 77843

John M. KERIVAN  
 CURATOR  
 SEA-ARAMA MARINERWORLD  
 P.O. Box 3068  
 GALVESTON, TX 77552

Note - no blocks at Symposium!

4 October 85 Drove back to Hobby  
 airport - Depart FL 395 AA  
 for Dallas. 1 1/2 hour lay over -  
 Then FL 7 AA direct to  
 Honolulu, arrive ~2:15 pm



10/7/85 = "orchestrated by Ed Klima"  
"NO BOMB SHELLS"

Call <sup>5<sup>PM</sup></sup> Woody / 01 Dave Bowman

"Larry Ogren = 10-7-85 (Center reorganize for Turtle Program)

"Harold Hirth STATEMENTED being CIRCULATED

note to F. Bezy -  
E. Klima -



10/1	Dallas	#3	snack
"	Gulbester	5	<del>snack</del> breakfast
"	"	7	lunch
"	"	10	Dinner
10/2	Galv.	#4	Break.
"	"	8	Lunch
"	"		Free Dinner Sea-ARANTA
10/3	"	5	Breakfast
"	"	6	Lunch
"	"	9	Dinner
10-4	Belv.	5	Breakfast
10/4	Dallas	4	snack
		<hr/>	#66

-12 miles POV Home -



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