

G.H. BALAZS

14-28 JULY 1983

COSTA RICA - WATS.

EAST PACIFIC WORKSHOP,
AND IUCN TORTLE GROUP

7530-00-222-3521

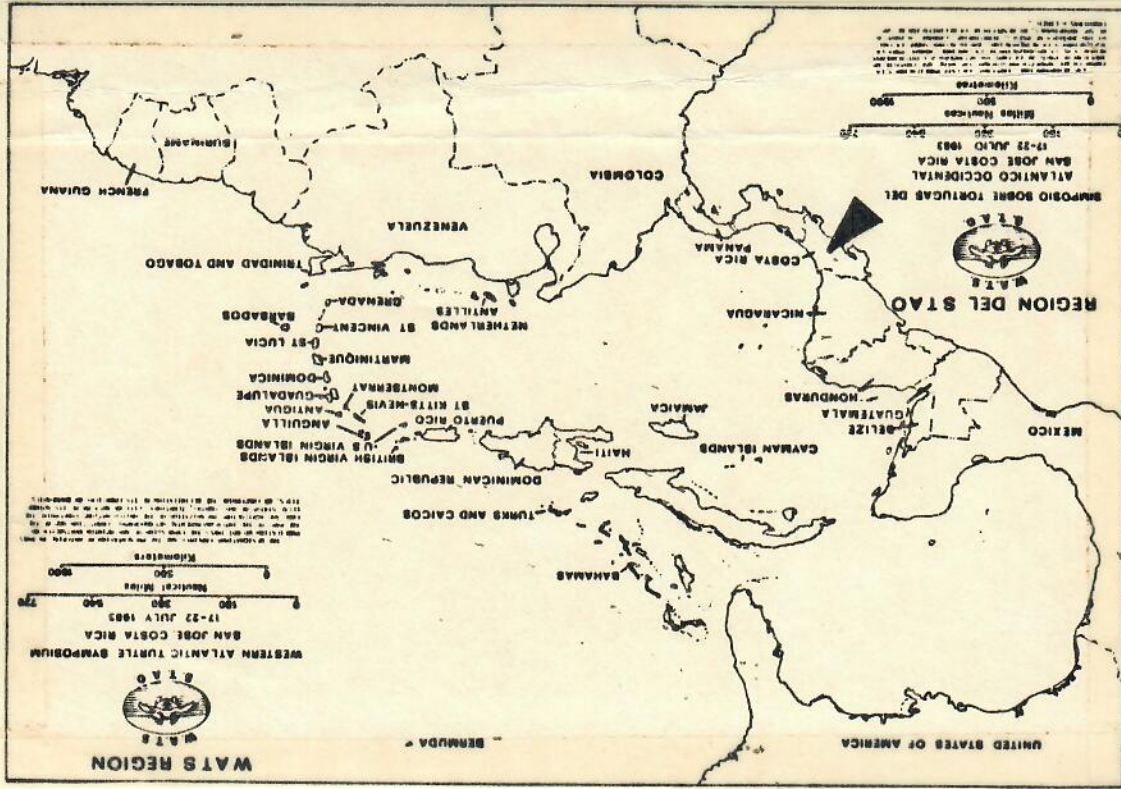
FEDERAL SUPPLY SERVICE

(GPO)

JULY 1983

G. H. BACAZS
NATIONAL MARINE
FISHERIES SERVICE
P.O. Box 3830
Honolulu, Hawaii
96812
808-946-2181

14-28 July 1983



WESTERN ATLANTIC TURTLE SYMPOSIUM

14 July 83: Left home 8:30 pm ^{missed}
Thursday Dept. VA 198

10 pm for
LA; Arrive 6:15 pm ^{FRIDAY}
Stayed at "Capri" Motel
for 24 hours - 20 taxi to -

Regular price \$34 - L \$38 - 2.

In PA terminal, saw ^{WIFE} "chipsey"
"THINK BEFORE YOU BUY"
Well conceived, laid out -
but several factual errors

present - is "Fiji large"
reporter of tortoise shell
etc. "Japan imports"
worked to Shell.

ON VA flight I saw July (10:15)
edition of "United Airlines" (10:15)
"more news" Segment included
on the Loggerhead nesting
Jelly shell - land and National
Resources - showed
plastic-tagged turtle. Hatchery -
Wardens, Georgia.

" AT COGGERS " I "check command"
STATE Biologist

15 July Flew over, Salton Sea.

FRIDAY PA flight 7:12:15 pm -
changed plane in
Houston - 75 minutes in
PA F 958 to Hialeah
(2 hr 10 min)

Stayed at the Miami
Airport Inn this
night (\$52.00) -

16 July Depart - 1 pm
SATURDAY on LACSA - CA

met by "Flair" of
West Island Hotel +
for Plaza Hotel (special rate
\$275 RT)

Bad thunder storm -
arrived San Jose - about
2 hours from Miami time.
Met supermarket owner
aboard. Please "Infercion" market
near Costa Rica Gran Hotel
Shared a cab to hotel
with Cisneros and Henry
Reichert. Checked in PLAZA - a 18 NIGHT

Sunday 17 July 83

YAOHAN
(SUPERMERCADO)
owned by
Japanese
people

San Jose -
Great with negation Sab - reported
by Guy Dilly (Guillermo S.)
Costa Ojeda - CCC rep in
for Tobacco company, with
I gave me stamps with
turtles used by C.R. govern-
ment for official documents -
not postage stamps.

Need his address + send gift:

→

Registered for Symposium and
displayed various ~~other~~ posters
Herb Kump

17 July Sunday

NOTES:

Georgitta Ruiz - ceramic sea turtles

Need - Fretey - Green Peace postcards
leatherback ↓ address

3 RUE DE LA BUCHERIE
75005 PARIS

Suggest - C.R. stamps to Geneva write this

*

Stavoch sample from ^{Amesbury} Kambisbill for Newham

Arve - Cigarette? J.A.

send him my annotated Bibliography

Witzel Synopsis - request him a copy from

Possier of color photos of Green forest
↑ (the green plates in WATS manual)

reorganizing my albums

call color separators

color publishers for cost estimate.

18 July 83 1:30 pm
MONDAY National Reports
Session

1. Costa Rica
2. Arquilla (Turtle gut supplier)
8,000 people 65 km
Smallest English speaking island in
the Caribbean. KEEP NAME OF NATO REF
(for stamps)
3. MONROE ANNESTS
Tiger with routes

4. Barbados
Small but relatively important
traditional and commercial resource
2-3% to commercial markets
(mostly juveniles) minor nesting,
but important for foraging

5. Barbados
only Franklin's nest
May-Oct, like other Caribbean

6. Belize - Winton Miller (presented
by F. Berry)

7. Bermuda - J.B. Herbes
They bought up turtle nets from commercial fishers,
183 km total coastline
of which 7 km Beach
discovered nesting colony in 1609,
by 1700, no nesting.
TOTAL BAN in 1973
Restock effort -
Between 1966-1976
17,000 eggs transplanted
10,000 hatchlings released
Tagging wild juveniles
265 captured since 1978
92% recaptured same site (By capturing?)
89% displaced (4 km-X) but 1 in mosquito keys

8. Newhart, H. ~~SA~~
Five. BRAZIL Report

18 JULY
Monday

9. BVI - Louis Walters
40+ small IS.

10. Cayman Is.
35 wild per month caught
(greens) but little info
presented about them.

11. St. Colomba - (by Caray Green)
Nesting habitat for adults
and subadults.

12. CUBA (by Marguer) lots of
nesting (greens?)

13. Dominica (by A. Meylan)

14. Dominican Republic

15. ^{France} Jacques Freley
French Departments
French Guiana
~~Guadalupe & Martinique~~

16. Guaya - (by Gilbert Haet)
"Comrade"

17. Haiti

18. Guaya
(Commit)

19. Freley again (country - St. Martinique)
Occupational therapy in
jails working to raise self

20. Guatemala

21. Honduras -
140 shrimp boats - 1st Campbell

22. Jamaica

23. Freley & Marguerite
have jail rehabilitation
1500 ton export
import?

18 July
Monday

(24) Mexico

(25) Monserrat A. Newham
Greens up to 500 lbs
bought in nets (?)
(Redonda) but part of Antigua
nearby) * Add this info to
same list.

(26) Netherland Antilles - Landford
100 greens ready

(27) Nicaragua

(28) Nat. Rep. - DALVA AROSEMENA
Grouped diverse *Trinidadiensis*
based on interviews with fishermen

(29) Puerto Rico -
A "Neighboring IS" is Area

need - display map
of W. Atlantic &
Caribbean
of The Americas

(30) St. Kitts NW.
45,000 people

(31) St. Lucia

(32) St. Vincent & Grenadines
110,000 people
159 kilometers of coast line

(33) Suriname Army Reichart

(34) Trinidad
Scheduled for WWF project
name "Gnie Joy"
Chun Joy

(35) Turks & Caicos 21-22°N
(Prepared by John Aleteneyes)
850 greens caught annually,
8-20 lbs

(36) Ralph
05 Virgin IS. (F&W - territorial)
(Remove mangrove)

18 July Monday

U.S.A.

(37)

Dud Gordon - Talk

See Table 21

Table 6

28,509(?)
annual(?)

topperheads
on trout?

green - very limited

leatherback marginal nesting

hawk extremely rare
temp

[Impacts of offshore development
(will find substantial)]

"12,000 annual Stawling

+ Logline take"

"Public participation & Awareness"

→ a good point that has resulted
from listing under the ESA.

note

(38) Wingsh- ritchard

8-9 am

12-1:30 pm

19 JULY 1983

TUESDAY

H. Bullis 9am

"Synopsis - newly generated timber"

"700 tonnes taken
" > 100 mph down by road major
fisherys "

"Self-destruct document" - Bullis

Regarding Nat. reports summer

Corrections

28,444 - more one column to left

also probably > 100 banks -
Bananawesley

* How many do we have & where?
(How many do we ~~have~~ need?
How " " " want?)

↳ How ~~many~~ do we keep
what we want?

"Develop data base"

"We fully inadequate to do
anything"

19 JULY

TUESDAY

"Parasitarians"

"first attempt" - data base, "Discussion of "Validation"

gam

Green Turtles Symposium overview
Forep - Chapman Carry - biologist
Best studied but knowing the
weakness and knowing the
number of individuals, n.

Population estimate - WATS goals

If not involved in intestine
tagging - you can count
tracks + ground truths.

TRIT - ~ 15,000 annually (fall 22
range 4,000 to ? (miles)
(1971-1981)

Aves - a few hundred to 1000 annually

Photos of turtles - Starbuck

- 1 right
- 2 see
- 3 clean dry shell

Limpos - childrens book?

*Best copy of Logans slide
of Turtles (if mine don't come out!)

Erosion - poses a major problem

Presentation - by town -
Then "question or comments"
then "research problems"

Schultz - Turtles that returned in
Summer 28 days later are
positively felt not to have
nested in the interim.

Bermuda - 80 - reared out
James - Herkes of 2-65 tagged
BRENK

"Drift cards" - pits of plastic
(wired to get these?)

Constrains of Herbiery -
Ability to assimilate food,
"Conservation of programs have
to long, of programs have
Goodies

W.M. I night extrapolation - go to know
areas and calculate a conversion factor

19 JULY 83

* Photo of Loggerhead
coming down the
Beach - low

TUESDAY
Afternoon
Col Hills

Low Effortant - Biologist

COBBERTHEAD SYNOPSIS

Joe Powers - US

- ① Nesting
- ② Pelagic

" Still need to have estimates
of relative surface time "

* * Protect in US so they
can eat them in the
poorer countries GB

How much did it cost?

Solomon - magnetic tags
Gordon - look at it - doable
(remote sensing)

Make * Cost of printing Honolulu
" VIDEO tape Glossy color?
photos/Beach
Caribbean-wide tagging project
11 PARASITIC

3:30pm
Dr. CARANZA

KEMPS RIDLEY SYNOPSIS

Margery - Biology

OLIVE RIDLEY SYNOPSIS

Henry - Chair
Joop - Biology

Olive - almost Round

my comment
(Check into private publication)

Next to Kemp's -
Rarest in West Atlantic.

Feeding ecology poorly known.

pac. and
Shrimp / Crab - pelagic invertebrates - small

19 July TUESDAY

Suggest primarily benthic feeder,
caught - ^{80-110m} in Prawn Trawlers

Have NOT FOUND specimens of
JUVENILES -

Marquey - 9 years (to maturity??)

Japanese trawlers off Sumatra?

7-19-83

POSTER
SESSION

by James O'Hara
ENVR. Schem. Sci.,
Electrical & Acoustical

Barrier
Florida Power & Light

LEATHERBACKS
Greenpeace (post cards)

3 rue de la Bucherie
75005 PARIS

Discussion with Ferran & Beddington -

JOHN BEDDINGTON

1.1. E.D.,
10 Percy St.,
London W.1
UK. W.1

What is the absolute maximum
yield you could get?

What is the potential yield?

Look at take up the post
and see what has happened.
How effective?

19 July 83
Tuesday

Babington - Penan Discussion:

"LIPOFUSCIN"

lash down with metabolic
rate (kill - insects)

Ageing technique - grid up
check with entomologists.

(Total pop. - Sustainably pop.) -
= usually 50%
(ratio) of mortality
rates.

19 JULY TUESDAY

MEYER

HANKSBILLS

Food -
CLASS of sponges
"Demospongia"

Geodia - most common
found on reefs - hard bottom

* MEET WITH JAH & SCARLETT
STUDY DESIGN

19 JULY

18 March 596

7 JUNE 702 ← ^{UNKNOWN} AGE
High < 7 days

14 JULY 1

12.99

ceaterbacks - Coast Range, Nat. Res.
Fred's
Karen asked me about this -

1299 if each turtle = 1 track

But FALSE events = Rate = ?

2) Rerestings (including shifts along the beach) =
2, OR 3 ?

My Guess

~~25%~~ false = 975
2 rerestings =

~~100~~
~~490~~
FURTHER

19 JULY TUESDAY

- Jamaica -
July 5 tracks seen!

∴ 300 instead of 1400
as in data base in Nat. Rep.
that was apparently inflated by Fred in
good faith.

Dominican Republic:

420 1000
reported in data base

Virgin Is.:

10, 186 should read " > 100 "

Mexico
was report corrected

JOHN FULLER
CONSCIOUS

IN THE TOMBS, IT
WOULD NEVER BE VACATED

A NON-THING - CAN'T DO
I.T.

Techniques
for
sampling
blood
&
tissue

Robert MENZIES
NOVA UNIV.
Oceanographic Center
Panola FL
33004

Evening Slide Show:

Registry - Rigid Discipline

6pm - Cupbe - ^{Hardison} slide show

Standa - * Diving Cycles

19 JULY TUES.

CATHERBACH SYNOPSIS

Mposovsky - Chairperson

Pritchard - Biologist

13-1400 lbs

Tender skin

lives in deep water - columns
no contact (i.e. presumably not with
the bottom!)

Nesting sites selected for quick
access to deep water.

100 F. Ling and beyond.

Nest Beach Requirement -

Freedom from hard substrates

on approach to the shore.
"Mud" OK

Feeds - almost entirely
jellyfish & related

east bc. are are smaller.

Intensity of spotting changes with
age. J

"Tooth-like" projections on ridges
in East Pacific animals.

East Pac. - only 30-40 per clutch

Guyana Indians - say:

"6 sides" ?

"8 sides" ? - Thickness responsible

"Skinny" animals only show 6 sides.

Low no. of "ridges" too presumably.

Growth - Pop. Dy.

5cm of 50cm

but all others not seen.

Possible explanation: They

mature quickly.

Cartilage in limb bones
is vascular.

(i.e. capable of fast growth,
according to Pritchard)

19 JULY
*Need - Doil mure featherback bones,

Ribs - separate & free

Force in bones

Liver - 10% of body weight.

What is it in other turtles? ^{possibly}

Esophagus - ~ 2 in long (aid in stuffing guts)

Adaptation to retain heat -

in core of body.
no heat wasted in flat flippers

75-110 thousand nesting ♀s

Peak off-season from the other species.

NOV - JAN in Mexico

Flipper spread - 3 meters wide.

No ability to take a single backstroke step

Hatchlings only slightly larger ^{from}

but flippers much larger

19 JULY TUESDAY

Apprentice "yolk" turtles on their backs.

featherback

Flesh eaten in many countries.

* Pritchard - (Need reference source)

(longline fisherman off Canada)

Bait -> "Cauldronest stick" (light-sticks)

5th floor exc. room
20 JULY 83
WEDNESDAY
CONSERVATION PANEL
(PLANNING MEETING)
TABLE #13
Chairperson = ~~JDE~~ FOX
Former SWFC Director
INCIDENTAL CATCH
Comment drift nets?

Sea Turtle Research
Sea Turtle Conservation,
education, and
information exchange

10 minute film (TED)
Definitions
Scientific techniques that can be
used
rather than strategies
(Management)

MANUAL
Need a copy (got) and quoted
Valuable - Advisable?

20 JULY 83 wednesday

Research Techniques & Planning Panel Session

FRED BERRY - Chairperson

"Statistics" are necessary

[Faint, mostly illegible handwritten notes on the bottom page of the notebook, including some numbers like '107' and '108']

wednesday 3:30 pm 20 JULY 83

HABITAT ALTERATION PANEL

Cew Chart

QUESTION:

? LIGHTS ON FORAGING PASTURES

* Larry Wittzell (can) send me
Hildebrand report.

ROSS WIP COX
Florida Power & Light

impact from constructing
wake lines for
cooling waters (construction
activity)

"exotic" vegetation

Light Screen for lights - trees

* Health Data - Requested

" Periodically finding

pneumatic ^{electrical} air guns - better than

Beaufort Lab
Wittzell & publication
on Sea Turtles
got

SSC members present

1. BALAES
2. CIMPUS
3. PRITCHARD
4. BRONDERSMA
5. ROSS
6. BJORNDAAL
7. MEYLAN
8. MOSOVSKY
9. CARR
10. EHRENFELD
11. EVADOR (Herzoso)
12. EAGEN
13. HUGHES
14. FLETCHER
15. MARQUIER
16. HUGHES

Saw - NMFS-TM

Synthesis of Biological Data
on Habitat Impacts

ON SEA TURTLES

Obtain copy - got

~~Wittzell & publication~~

Wittzell
17. Sumeatra

20 JULY 83 6 pm Wednesday

Cape Hendrickson
CIVING TAG

- "The technique is simple"
- "The Swedish rate is high"
- "The need for control is imperative"
- "Bottom of generative layer"

35-45° inclination cut

Talk & movie:

- ANCIENT TURTLE TRAPS

PAC. COAST OF C.R.

1) Natural rocky outcroppings

2) Small sand beaches

3) freshwater drain

hooked to we like Hawaiian fish traps or even beach traps
designed to trap fish with the rise and fall of the tide.

CONSERVATION
PANEL NOTES
(for my presentation)

1. MANUAL (see contents)

2. Refuge - Sanctuary NOT ENOUGH.

3. Traditional Constraints

4. Modern gear + life style

5. TOBELOU / SAMOA

6. ~~NEED~~

(NOTE Bullis earlier comment)

recommended to

bring about

Calpers

seen in photo

cut jaw to
reduce error

20 JULY Wednesday
Questions Session

RUTH - County/courts -
beneath surface -
could these be used
MIGRATION to turtles when
surface current.

21 JULY 83
THURSDAY

8:30 am
UTILIZATION FAVOR

Bernard Neichman
was now helping turtles.

"KITTE refugee A MISKITO
INDIAN

indigenous peoples - pre-European
levels high in the
Caribbean

"WATS DATA BASE -

Ehrenfeld - "Looking at light from
a shell? analogy

"Assign utilization quotes"

BUT WALTERS

Getting rid of tortoiseshell on
the high seas.

⁵⁰ the regional rep. said!

Regional Appt. Work of Sea Turtle Projects;
HATTI - Limited value in support;
generally not interested in catching

21 JULY Thursday

HATI

Shrimp, lobsters, preferred
 Turtle - mostly incidental catch.
 Green - Meat & wall decoration
 Fisherman → consumer direct.
 Fishermen take a fish and then
 cook/eat right away than
 clean the turtle & turtle eggs - so they
 don't get like turtle eggs - so they
 are left alone.

Price - not good for turtle
 2/16 - lobsters = \$5
 but compare = \$3

HATI - some factories import
 turtle shells, work it,
 then export.

ASTAMA
 San Blas - own political system -
 Bank of Korea or Japan - get checks
 for selling tortoise shells.

SUBSISTENCE TOPIC

Table 16 - Excluding Jamaica
 260 people dependent on turtles
 [400 nesters
 925 in the water]

Appears very small to B. Veitchman
 compared to what he knows
 about turtle hunters and places where
 turtles are important.

ASTAMA -
 Indians use it most.

* "Subsistence" - to many people
 means food (Kerby)

* "Subsistence" - a livelihood -
 identity, profession;

* Means by which knowledge and
 skills are transmitted.
 "Cultural attribute".

21 July Thursday

Dominica

Subsistence to him has declined because there are fewer turtles - harder to get.

Conservation Panel

Chuck Orvitz / NOAA film show.

"Development of the 'Sea Turtle Study Device'"

HIGH-TECH HUNGER

Need to obtain video-tape copy, through Herb Kunst.
I'd want relevant to WMS effort
to solve problems.
Let the public know what's happening, and how troubles are spent.

1:30 pm

CULTURE PANEL
Harold HIRTH

Best ratio for feeding:
Jim Woods - 39% - (CR)

Chenfeld - "LIGHT FROM A STAR"

Kemp - \$95 per birdling for the headstart work.

- Brood Stocking -

(my idea - "egg farm" concept)

→ Hawaiian greens probably before they get down to low numbers.

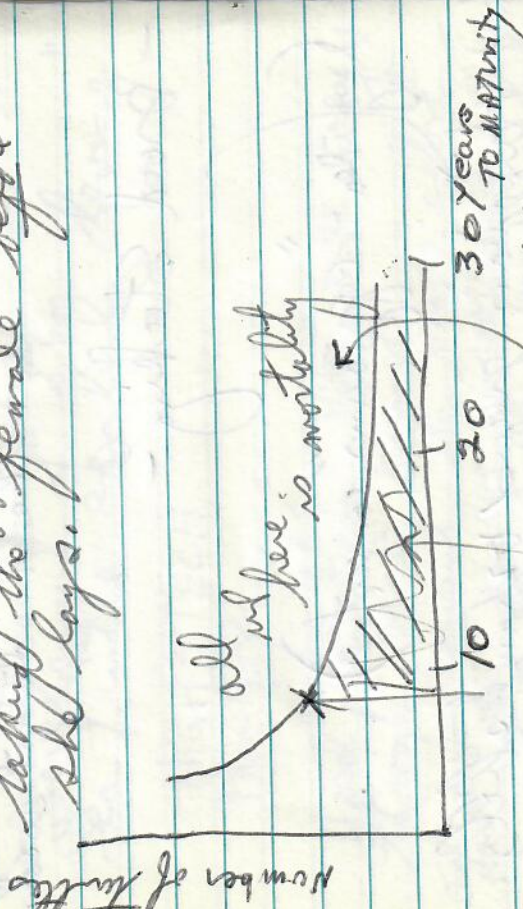
Karen: Growth at
Ikiaga - ~ 1 ppm year
feeding themselves.

21 July Thursday
 Have they taken every female?
 female?

Discussions with
 REDFINGTON = trial model he
 calculated at Carr's request to see if 1800
 quota was reasonable. SAID IT WAS?
 LOTS OF IMMATURE QS -

more with longer TIME
 TO MATURITY
 - RECRUITMENT

- EGGS important -
 Taking eggs is like
 taking the female before
 she lays.



NOT even counting mortality
 ones.

Table in the post -
 MISSING - AGE CLASSES
 RECRUIT Y EARS

$14 \times 55 = 770. + 275 = 1045.$

HOTEL - sat. 9 NIGHTS $\times 20$

MIAMI LACSA AIRFARE - \$180
 \$275 change

TORT. TOTAL - \$6150

350.
 360
 710
 730
 45
 775.
 615.
 \$160. surplus

Given Carr's recruitment rates

Portality of adults
 greater than hatchlings??
 or immatures?
 1.6 million immature PS
 at Tortuguero, if 30 years to maturity
 not counting mortality

22 July 83

FRIDAY

STATUS OF SPECIES SESSION

① Status & Trends

① Stable

② Somewhat depleted

③ Threatened

④ Endangered

⑤ Rare naturally

⑥ Extinct/absent

increasing fast

increasing

stable

decreasing

decreasing fast

vulnerable

STATUS SPECIES

22 JULY 1983

FRIDAY

Larry - Green Turtle

nesting population:

Cayman / Cuba / Bermuda
still?

Portuguese, Suriname, Arca

Portuguese P

X = 15,000

5,000 - 20,000

Total 23,000

Suriname

1,500 annually

4,500 total

* Need Section from Nancy Bray Thompson's THESIS. Requested.

Beddington comments

Comparison with Whales

slow growth

is the population that

What portion is being lost?

What is the proportion of extra-mortality?

* Mortality of re-adult → critical need

Eggs of Turtles?

No one answer - species dependent
great difference between species

[Rate of egg loss must be less than rate of recruitment. Much less. For Whales - 5%

STATUS OF SPECIES

22 July Friday

important

Again - look at history to see what level it was taken to cause it go extinct.

He knows of no prairie in animal mentioned in Pritchard A certain form

JOHN Beddington -

Questions?

long time to maturity then breed there?? inconsistent?

NO, because if you don't know if population is stable

Do you need more - if you nesting sites - if done properly? (REST TREATED AS "BLACK-BOX"?)

need - SAMPLE DESIGN? for immatures

NOTE: U.B. Beddington

CONGLOMERATED SPECIES -

* DIFFERENT SECTORS OF POP. CAN SHOW DIFFERENT TRENDS

JB SMALL POPULATION *

* IF WRONG ~~ESAS~~ CONSEQUENCES CAN COME VERY FAST.

LAGGE - CONGER TIME TO CONSEQUENCES.

JB (1) LEVEL OF RECRUITMENT (2) SIZE OF POPULATION

JB Can give a seminar?

22 JULY 83

FRIDAY

JORJE ERICE (?)

~~THOMAS~~ ESSARE

PAO - 1/2 Hungarian

MANAGEMENT PANEL

Sharing of information.

- Attempt to determine level of take at various stages

- What are stages that could be best exploited?

- Need INTERNATIONAL MANAGEMENT BECAUSE OF MIGRATION (But you won't get it)

PLASTIC BAGS 316 problem?

Dethnerfeld -

Other organisms?

Thermostat that determines sex? Puddle dove?

GUATEMALA - NO TRADITION OF EATING TURTLES

except

A.F.R.O. - CARIBBEANS IN ONE SMALL TOWN

→ But "INDIANS"?

BARBADOS - WAY HUNTE

"Phase of rehabilitation"

A FEW INTERE TAG LOSS - FAMILY LONG TERM TAKING OF NESTING FEMALES HAS BEEN CONDUCTED.

HOW MUCH CAN JB TELL US FROM CASUAL ANALYSIS WITH POP MOD? SAFE

22 July 83 Friday

NOT A LONG ENOUGH STUDY -

* DON'T KNOW THE SIZE OF STOCK FROM WHICH RECRITS ARE NOW BEING DERIVED
However - Portuguese has gone on for 28 years
NEED =

VALID MORTALITY NUMBERS

* DEVISE STUDY PLAN

GENERAL INFORMATION FOR HITS FOR 11 APR 11

3 clarification - years " cost - short time
A Portuguese

B 2 TYPES OF RECRUITMENT
- Nesting beach
- FORAGING PASTURE

B. Gordon

One of More Successful Management Regimen
"Fire Seals"

C Panama Rep
- 3 Nations - (only)
- 3000 birds agreement (but 1000 needed)
- Nat. Rep. go home for legislation

MAY NOT BE TOTAL PROTECTIVE -
But a step in the right direction

BANQUET DINNER
THIS PM

SPEAKER - JAY (SARAGO)
(SOMEWHAT "LOAST" OF AMERICANS)

23 JULY 83 SATURDAY
Ad hoc EAST Pacific workshop

MENTIONED -

* Limpus - hatching coloration (referred to TM Report) / Circle & send various pages.

D. Robinson

Arribada - lots of ~~lots~~ of protles in a small ~~area~~ space.

[Ostional = 880 m ^{long} / Playa A]
[Nancite = 1075 m (utilized)]

Nancite - Avans hybrid plays between 2 rocky headlands.

"Solitary" nesters - they use other parts of the beach.

↓
Stupole in all the time ("Background noise")

Solitary nesters much more productive.

23 July 83

SATURDAY

Georgita Ruiz
Apartado Postal 20-768
Deleg. Huasco Obregon
MEXICO, D.F. C.P. 01000

Steve Cornelius
tagged

2 years - 220 nests

8% destroyed when they occur
total 29 days late
15%
109,090 chicks

11% predation by mammals

3% Erosion
(Swamp opening up)

63,000

80% of these - no embryos dev.
or steps early.
10% late developed

5000 chicks with some predators
106 eggs per nest

Incubation = 55 days

0.57 length (all year round, to same extent)
~ 29 days apart - for arribadas
both strings &
Nancite.

Cornicle with waning &
waning (C) D
ribby turtles

Kim - in the leather of they
found 2 different colors.

20,000 turtles spread over
8 days

HEAD SECTIONED
Hatchlings pick
up water samples



are close to shore for
further out.

Each swamp has distinct odor.

23 July 83 SATURDAY

Costa Rica - Cornelius
70% of toys sold by volunteers

Mexicans previously had
a kiosk at White out
festival for one year -
1969
but next year they didn't get a
permit.

's (from photo)

Carolina Pizarro Hernandez
Escuela de Arquitectura C.R.
(Universidad de Costa Rica)

Ana Victoria Vazquez (Picture)
Apartado 476, San Jose
Costa Rica.

Argelis Ruiz
S.T.R.I.
P.O. Box 2072
Balboa, PANAMA

Panama Nat. Rep. -
DALVA AROSEMENA

COUCH AT PIZZA RESTAURANT

~~Guatemala~~ - near
Salvador border

16 km beach near (in
Guatemala)

3 years - then change spot
all eggs shells stay
Woman with speaks freely/did work
with 100 money.

(my note -
Bidge of Guatemala - Honduras
seems like "Bird's Bidge" -
Hispanola = Ascension)

Olive ridley

leatherbacks
More people than turtles
- on the beach, fierce
competition.

NO Arribadas - even though
they were reported in the past.

July 1981 they caught all
"transients" I muffled little

Black-green = ~~transients~~
present on Transiently
Beach turtle found dead ashore - never seen before
Beach side of beach bordered by a canal

23 JULY 83

EAST AFRIC
WORKSHOP

Found small turtles being
found in this canal.
of one 39 cm ♀ - hawksbill

10 years or more ago people
say hawks came to nest.

Aug-Sept = peak nesting periods.

2500 May ~~June~~ - Nov
all the same (Bosley)

Estimate 20,000 females nest
a year - nest on entire coast

23 Leatherbacks = 1981

Many more = 1982 = 71
appear in Aug.

Local people say - "good year for olive,
bad for Leatherbacks and
wasol versa"

75¢ dozen for eggs
last year = \$1.75

\$2.50 for 2 eggs in a restaurant
\$5.00 in super market.

CYMON SAEM -
wise EGG

NOTE
Small top stay in
- JACK FRAZER
(write to note - include
photo)

Pain: Leatherbacks -

Peru *
WSTC Hayes - what they eat
MIMO Reports - listed?

Chili

* Easter IS - see

Frigeris report

Chelonia & L.O. at
Easter? but no

info, report meeting but
species unknown

Chili Fishermen Pull

turtles into boats, clean the shell
and release. Try, so fed away for them.

23 July 83 SATURDAY

STEVE CORNEZIUS
COSTA RICA

Lots of fauna from
Ecuador & Mexico

+ 2 by Purse Seiners Report WWT
del Capetun
del Portuense

+ popular books
on survival
at sea

NOTE
GUA/81/004
de campo I 1983

DARY, R., No. 1973. Informe

de un viaje de estudio a la
estación de cría de Chebonia
mydas, de Hawaii, de la

División de Fauna de

DIRENAREP

Escuela de Biología USAC: 14pp.

~~"HAWAII" is the name of a beach in
Guatemala. It is wrong - it was Looe.~~

Guatemala reports

GUA/81/004 #8
Documento de Campo (and
Campes 3) (and Campes 7)

"Resultados de Protección
de las tortugas marinas
en la costa sur-oriental
del Pacífico" por

F. Rosales Loessener
A.C. Rambour

* FAO - see Peter Bacon

* ~~Monthly Report~~
SWFC

* ~~PIP Report~~
~~recomm. 20/1/83~~

* ~~Not to Limpus - valid published
reference - referred~~

ADVISOR

- 1) Guillermo Canessa - C.R.
- 2) Mario Hurtado - Ecuador
- 3) Ricardo Mies - Mex
- 4) Rene Marquez - Mex
- 1) Museo Nat. C.R.
A.P. 103 Playa Viquez
San Jose, C.R.
- 2) Casalla 5918
Guayaquil - Ecuador
- 3) Berlin 16A
Col. Juarez Mexico
06600 DF
Mexico

Need Resolution

Letter of endorsement
from Marine Turtle Group

[PILOT - NORMAN BROWN

Also photos with Limpas
of anest dog out by
dogs.

24 July Sunday

(With Chick Carr and
others) examined a demyranid
turtle held in its bag in
front of Turtle Camp. Photos -

(21360 RFL - orig tagged - 22 July 1980,
tag not locked, plus bent from bitten.
Chick said bent from slipping flipper
only - 1/4 onto flipper. Some lock corrosion.

(Flew to TORTUGERO

(Only Sunday AM -
RAIN/storms - others were delayed a
few hours.

2:50 PM

MONDAY

25 JULY 83

17

12

13

present

(+ Sylvia)

29

30

Members

TOTAL

~ 9 PM MORNING SESSION

Mexican Sanctuaries

love - same situation - outside help needed

Philippines - Sabah Sanctuary - suggested Dr. Parr call Dr. Gordon and ask for advice

Australian Greens - (potential for existing problems)

PNG - Strong village government - Tradition with sea turtles

Aust. protects for PNG

Daru - modern - but great of living - turtle

Cook Culture - Aborigine (Dress Strait)

SUNDAY

24 JULY 1983

2:50 PM

IVCA

Tortugero

AGENDA given by Cofer

1 Mexican Sanctuaries

2 East Pacific Meeting (letter of endorsement)

3 Sabah Sanctuary

4 Costa Rica - Nicaragua - Panama

5 Sarawak decline

6 Hawksbill trade (especially Panama)

7 TED transfer

8 BOTSWANA - CITES

9 EMERITUS STATUS

10 RED DATA BOOK - "GLOOMBERG"

11 MTL NEWLETTER - Nicholas

"Bedington" never included on list.

Not stated - but previously asked for

Agenda - 1) Optional Management

2) Bedington - POPULATION MODELS FOR TURTLES

Crabbebook - no evidence of decline

"The only real function of this ground, as I see it, is to go to meetings"

8:25 pm "Newletter" see page following

Another session held after dinner, but heavy rain. DIDN'T GO TO BEACH.

25 July 83
Monday
Queensland zones St.
4000 greens per year
large P's (1 per person)
50% are PNG people
coming down.
Nijid
Genevra
13, 779 islands - Ind. Arch.
and you can find
nesting

1/4 of greens from GREET
and ~~are~~ recovered in N. Caledonia
PLATBACH - CHANGED BY SPOONBURY -
removed from RBR - but ~~because~~ ~~because~~ ~~because~~
it should be "vulnerable" because a
slight change in
FADDA - (write a letter) ~~trawling~~ could
trawling hurt jito
(trawling was banned in Indonesia ~~the~~
because Japanese were believed depleting
fish stocks through bycatch)
TED Technology transfer
"SPREAD THE TED"
but TED could solve this
problem.
"By-Catch" is valued
in ~~trawling~~ ~~in~~
many foreign countries. Turtles too.

25 JULY
MORNING
SESSION
Moore House - Historic
quote first
Squid Gill nets + Conchies
Willy Warner -
"Distant water" GGB
estimates?
etc.
Relagic - unfrom cath
in an unfrom area.
Freyer - requested that a
letter be sent endorsing
"Scientific Committee" at Canberra
to evaluate payching at Canberra.
Peli Amendment - Hambabil trade
forum - Arene will find out more.
write to
deSilva Lucas Chin
to find out ideas on
having "outside expert".

to 180
Apparently Carr mentioned having others compose
some of these "Action" letters.

What status would you assign to the leatherback?

- 1) Hirth - E.S. (Concerning article) absence of info on biology
- 2) Larry - same
- 3) Masrio - uncertain - difficult
- 4) Nicholas - not endangered
- 5) Pritchard - inappropriate system need number system
- 6) Craggs - UNCONSERVED
- 7) CEO - ACCEPTED, what is published and not agreed to idea of Endangered Species
- 8) Perran - for future
- 9) Niija - since 1978 - ~~no comment~~ - that protected
- 10) George - Hirth's not endangered - needs weekly system with your system
- 11) Jacques - Endangered
- 12) Don't get from who
- 13) epistates all endangered
- 14) How many needed for viability

25 July Monday Morning Session

- 12) Anne - (?)
 - 13) George - Endangered
 - 14) David E. Plastic bags - ENDANGERMENT
 - 15) KAREN B. Signs mistake to ~~throw~~ throw into the system
 - 16) Rene - Agree with everyone. Modify system for next block
 - 17) Carr - ENDANGERMENT but Peter's system later
- Many advocates for destruction of sea turtles - ENKORFELD -
- AIDVOCATE - for sea turtles
- Prove that it isn't not a turtle.

Perran & Leo were
suppose to leave this morning, but
plane never arrived, but
Religious Holidays
EVENING SESSION

25 JULY 83 Monday
8:20 pm meeting

Subcommittee -
Pritchard
HUGHES
LIMPUS
TARSEN

TO ESTABLISH STATUS CRITERIA

EMERITUS discussion introduced
by Brangerma
CAN AND RESULTANT
CHAOS!
NO OFFICE!
MANDATORY AT 65-70 years!

Brief talk about Mental
Exercise management plan
for Ostrich. Dr. ~~Four~~ outside.
Father he came back in and
to achieve Haven's time.
Crossed over to beach and
walked north with Jaquie,
Sumertha, Mary and ~~Jaquie~~
Daide. Nearly full moon.

Been at Postgres for 25 JULY 83
2 (or 3) years now. Others left.
MS STUDENTS

MERY CANHI
437 WHEELER PL.
SOMERSET, N.J. - 08873


7:25 pm - 7:26 am
TAG recovery 22593 RFL
of tag) 1/2 pm flap length

of further head under
low vegetation - only
Proteger's airspace gap
high flippers skidding
well. Photo taken -
Jaquie also. "Rubber band" action
in digging egg chamber.

Second turtle seen - covering
eggs - in an open area.

25797 RFL - Many photos.
Count only 5 (instead of 6) large
scales on trailing of front flipper -
close-up to head

5/28 - 5/26
Mon. Tues.

Also - first marginal
segment to be very wide;
and last (5%)
Central scute was
shaped  ← seems long
here.

Need to compare with other
photos of Hawaiian and other
Chelonia.

Also recovered 21720 at
Marker "6/8".

First 5 miles are
the study area.
Total beach goes to 23
miles. Most concentrated
nesting is at miles 9-11.

24 July 83

SUNDAY NIGHT SESSION
8:25 pm

Topic = Newsletter
N.M. Costs about \$5,000 year,
"4 issues."
Lots of telephone calls received -
750-800 people -
Most/ Many to USA and Canada.
There are funds from the Mitigo
to last for about one year yet.

Sunday late afternoon pub
motored to river mouth. People in
boats fishing there. Chuck Carr,
commented that they are trespassing
on "private property" (owned or
leased by CCG). Informed
that beach had accreted up to
1/2 mile in the direction of the
river mouth. Designated
"1/8" for beach park.

My
Opinions of
TAGGING - TAG TEAM:

NEEDS

- URASITAMA - THE BOOKS -
- Turtle - Shorts
- @MBLINS (IRELAND)

Campus - ~~2000~~ P.E.P. Book

② Call Galveston -
message for campus
to call me if coming
through Honolulu

Mrososky - call him,

Still do editorial?

Comment proto on meeting?

TRY Tape Recorder for writing papers.

"SALI THE GREAT BARRIER
REEF TURTLE"

by LESLIE REES
1945

NOTE TO make - ^{said} SCHULTZ - more photos need?

Marquet & Penelope, 1976.

Oliver Synopses on

Oliver Ridley.
(Check for information
on diving depth)

25 JULY Monday (2nd morning there)
(morning before session)
walked with Hitched,
Cimpo, Veley to

village - saw 3 turtle
turtles waiting for taggers.
Someone in the village
is said to turn them,
one obviously hadn't

laid eggs. This person
lives 2-3 miles 3-5
apparently. Hawkbill
nest in the beach
bed in front of turtle camp -
Anne prelegated it before
we arrived. Reported to have
something like a tag scars.

One turtle obviously to me
had not laid - only dry a
body pit - no obvious "sewing"

1st turtle photoed of above 2059
on track - tag looks OK

2nd turtle photographed 25752
Healed back.

NM thought black sand was pigment.
Tag close to edge - scars at pierce side.

26 JULY 83

TUESDAY

IN TO COBBE ~ 2am.
UP ~ 5:30 am and
motored over to the beach.

Motored with 2 or tagging
team members to the
village. One turtle
found turned mess village -
9 others reported to all
be turned past the
village.

Turtle trap untrapped.
Watched it together. About
"1/2" on. Tag not checked
in any way to see
if it was locked

Properly taken after she
was turned upright and
scrawled (after scan) back
to the slater.

Rented an aluminum
outboard and driver

20000 colones to
take me Gairy and
Harold back to Turtle
camp. Rained on us.

(CONTINUED 2 PAGES HEUCE)

ALSO NOT CHECKED FOR
TAG SCARS

NAME PROBABLY FROM CIMPO
ROLL 3

Norman Brown
V E A S A

VIAJES ESPECIALES AEREOS S. A.

TAXI AEREO



Vuelos Ejecutivos - Locales Internacionales

Servicio Ambulancia

Aeropuerto Tobias Bolaños - Pavas - Hangar N° 5

Tels. Of.: 32-10-10

32-80-43

Apdo. 400 - 1200

PAVAS, C. R.



SAN JOSE, COSTA RICA

17 - 23 Julio 1983

GEORGE BALAZS

HAWAII USA

IIED

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26 July 83 TUES.

Flew out with Norman
Pritchard, took several photos
for me of the coastline.

Returned to Playa Hotel ~ 10 am.
Departed for Miami 7 am 27 JULY;
on to Houston & C.A., C.A.
28 JULY 2 pm UA C.A.
to Honolulu.

25 July - MONDAY

PHOTOS
In boat rides through
jungle. Only N.M. and myself
photographed. Squelch
obtained. Motored to

village where we "saw"
interpretive display under
construction. (What significance
does this have to villagers?).

Saw mass claimed to be
118 years old. CCC contributed to village?

Motored up several
rivers for 2-3 hours.
Saw herons, mandeggs, basking turtles.

LIBRARY OF
GEORGE H. BALAZS