1981-1983 INCOMING LETTERSOF G.H.BALAZS

Denis Mylonas 35 ch. du Banc-Bénit 1213 Petit-Lancy/GE Switzerland

> Dr. George H. Balazs Hawaii Institute of Marine Biologie P.O. Box 1346 Coconut Island Kaneohe/Hawaii 96744

October 5, 1982

Dear Dr. Balazs,

Mr. Scott of the IUC suggested that I write to you on the following matter:

I am interested in sea turtle conservation and more particularly in the topic of possible disturbances to sea turtles by tourist developments near laying beaches.

Mr. Scott indicated that you are an expert in this issue and that you could provide me with the answers to questions relating to this matter, namely:

Are there any standards regarding limitations of construction, or other developments, near laying beaches?

Is there a minimum distance to be observed between such constructions/developments and the laying point on the beach ?

Are there any standards regarding light or noise limitations in such areas or restrictions regarding boat traffic in the sea close to laying beaches ?

If such standards or restrictions or limitations exist do they relate to certain periods in time (specific months/days) and how are these established ?

Furthermore do they depend on the importance of the sea turtle population visiting the beach or on the existence of other beaches in the neighborhood which could be used by the turtles as "substitution beaches" ? I have looked into various reports but have not found any specific information regarding the above questions. Your kind attention to my request and your guidance, together with any publications relating to these issues will be highly appreciated.

With many thanks in advance and best regards.

Yours sincerely,

Denis Mylonas

STINASU STICHTING NATUURBEHOUD SURINAME FOUNDATION FOR NATURE PRESERVATION IN SURINAME P.O.B. 435 PARAMARIBO, TEL. 75845 / 71856

Paramaribo, September 13, 1982.

To:

Mr. George Balazs University of Hawaii at Manoa Hawaii Institute of Marine Biology P.O.Box 1346 Coconut Island Kaneohe Hawaii 96744 USA.

Dear George:

The publication you requested is an extremely popularized version of Joop's "Sea Turtles Nesting in Surinam", and it is meant for the general public. In addition it is written in Dutch so I believe there is no need to send you one because I assume you already have Joop's book.

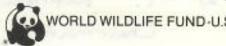
Thanks for the Philippines turtle stamp.

Best Regards,

H.A. Reichart.

RAFFICUSA

1601 Connecticut Avenue N.W. Washington, D.C. 20009 WORLD WILDLIFE FUND-U.S. Telex: 64505 Telephone: (202)797-7901



Sept. 13

Dear George,

I have been bugged down with everything under the sun and have yet to do any investigation on "tortoiseshell" coming out of the Cayman Islands. I'm enclosing some addresses of people who may actually shed some light on the topic and you may want to contact them directly.

Portfolio of Agriculture and Natural Resources Government Administration Building Grand Cayman Cayman Islands, BWI

(Management Authority in Cayman Islands and should have date on permits granted for export of CTF & other tortoiseshell).

(over)

T. Kakidachi
Chairman
Nippon Taimai Kyokai
(Tapan Hawksbill Tortoise Association)
Clo Kakidachi Kogeihin Co, Ltd.
No. 3-23, Hama-machi
Nakasaki, Japan

get any responses.

Best,

Did

THGUAS OF THE PROPERTY OF THE

PEJABAT TAMAN NEGARA BAHAGIAN PANTAI TIMUR

REGIONAL OFFICE, EAST COAST NATIONAL PARKS

BOX 768, SANDAKAN, SABAH, MALAYSIA. TEL: 42188 CABLES "NATAPARK" SANDAKAN.

Your Ref :

Our Ref : ECRIPRO/55/1/138

3rd September, 1982

Mr. Robert Scott; Executive Officer; Species Survival Commission; International Union for Conservation of Nature and Natural Resources; Avenue du Mont-Blanc; 1196 Gland; Switserland.

Dear Bob,

World National Parks Congress - Bali

Roberto P. Garcia of the Task Force Paulian in the Philippines has now contacted me regarding the Sabah/Philippine Turtle Sanctuary. A copy of his letter is enclosed for your information.

It is not known whether Garcia would be at Bali - if he is there, we could discuss this matter. At this stage, I do not wish to suggest anything as it has been noticed that Filipino enthusiasm tends to wane after a conference and a masterly silence is maintained thereafter. I have had no news from Helma do Celis for some time and wonder whether she is still attached to the Task Force.

I am sooking forward to meeting you at Bali and with your assistance attempt to get a definite commitment from the Philippines.

With all good wishes,

Yours sincerely:

G. S. de Silva

coco Professor Archie Carr

c.c. Dr. Wayne King

July 27, 1982

George S. de Silva Chief, Game Warden Forest Department Sandakan, Sabah Malaysia

Dear Mr. de Silva:

The Task Force Pawikan, the marine turtle conservation arm of the Philippines, would like to coordinate with your group regarding the conservation strategy at the Turtle Islands. In the last World Conference on Marine Turtle held in 1979, one of the proposed action projects is the establishment of an International Sanctuary in the Turtle Islands, to be sponsored jointly by Malaysia and the Philippines. This worthwhile proposal has long been shelved and for this matter, it is urgent that your group and the Task Force meet at a convenient time and place and discuss its feasibility. Likewise, other important matters such as law enforcement and management schemes in the conservation of marine turtles will be taken - up.

The Task Force can be contacted at its base in Taganak Island, Turtle Islands through the Mayor of the place or at its main office with the following address:

Task Force Pawikan Ministry of Natural Resources Visayas Avenue, Diliman, Quezon City Philippines

Very truly yours,

ROBERTO P. GARCIA Chief, Research Division Task Force Pawikan George,

Firstly an apology for the long dalay in raphying to your previous noting & have no substantive cause at which to point the finger of blame, so I must simply put it down to ordinary everyday frustrations and problems of keeping up with work and family affairs. Mind you, I make no claim to being a conscientions letter writer - for from it.

now, to turties, which I hope are busy formating and multiplying in waters around the world. Your poster sharing burtles of the model was well received and now describes observise drab walls in my work area

You asked me about any approved to the stemp Advisory Committee on burks stormps. If checked my files but, to my horror and shame, could find no record of having written to them. This I have now rectified, addressing them briefly on the subject, enquiring whether they have ever received any "nominations" for turkes in the past and suggesting they would fall logically into the regular thusbalic amounts definitive sens, three more of which are to be released on June 16. The three new stormps will factore epities (15c snake-necked townse, 40c gecko, 90c crosorbile).... but also no turke.

Actually. I would be very surprised if there had not been a previous nomination of turbles as suitable condidates for stamps. Australia is, if course, signatory to the Convention on International Trade in Endangaged Species of Wild Found and Flore. The Customs (Endangued Species) Regulations are a instrudity stopping export of turbles from Australia, with the Hawkeshill listed as being threatened with extinction and others listed as potentially endangued. So it would be forty loopeal to assume that one Stopp Advisory Committee was in time with assume that one Stopp Advisory Committee was in time with

AEROGRAMME







AUSTRALIA

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FOLD SIDE FLAPS FIRS

a real period of the same

Dr George Balazs

University of Hawaii at Mana,

Hawaii Frontite of Mane Balay,

P.O. Box 1346, Coconut Island,

Kaneone, Hawaii 96744

COUNTRY OF DESTINATION USH

SENDER'S NAME AND ADDRESS

P Davis,

8, Sprante Care

Department of Pomay Industry,

Conberra,

A. C. T. Postcode 2600

ins form must bear the approximate

Trust your turns stormy collection is expending.

Two recent auditions to my holdings are the Caymen Belands (5c,7c,12c,20c) showing green + huntherbill title, terrapin and time farm. Also Samon (245, \$1) showing turns hatchary and henolephill title and featuring turns world Wildlife fund logo.

Best wishes in your work, full marks for perseverance.

Regards

FOLD SIDE FLAPS FIRST

YNTEMA BOX 305 FREDERIKSTED, ST. CROIX U. S. VIRGIN ISLANDS 00840 CABLE ADDRESS EXPORT-IMPORT "YNTEMA-ST. CROIX" 1 Sept. 1982 G. H. Balazs P. O. Box 1346 Kaneohe, Hawaii 96744 Sir: Please send me 50 postcards (25 green turtle, 25 hawksbill), as indicated in the recent Turtle Newsletter. My check, in the amount of U.S. \$10,000 is enclosed to cover the cost of cards and air postage. Sincerely, John A. Interna encl.

30 Aug 1982 Seat George: Thanks very much for the Philippine turtle stamp, I really appreciate your remembering me. I thought your letter to Mancy Hammond was excellent-il couldn't agree more. your way of hardling the problem would avoid a lot of future hassles. I hope she takes your advice. according to Fred Berry, Peter Pritchard seconded our "nomination" as co-editors, I have tried w/no success to reach Fred. I leave Fri for 10 days in the Bahamas - will try to reach him before ther. I've enclosed a copy of a note I sent to Missorsky last week. Thought you might like to see it because you've expressed concern in the past about turning turtles + that the "powers that be" might not allow it. So I thought some one should respond to Britchard's note. about turnover - I avoid using the term because the correct use is counter-intuitive, so it is after misused. Turnover time = average tems for feed in digestive compartment. Therefore, a lower passage rate yields a higher turnover tems. But "turnover" is often misused or used loosely to mean the same as passage rate. Fenchel's paper leaves a lot to be desired. Hope all is well w/ my co-aditor. This time next week I'll be with sam & fim & my turtles happy as a clam! Best regards Laxen

REGIONAL OFFICE, EAST COAST NATIONAL PARKS
TURTLE ISLANDS NATIONAL PARK

BOX 768, SANDAKAN, SABAH, MALAYSIA. CABLES "NATAPARK", SANDAKAN, TELA2188

Your Ref:-

Our Ref: ECNPRO/52/1/138

Date 13th August, 1982

Mr. George Balazs,
University of Hawaii at Manoa,
Hawaii Institute of Marine Biology,
P. O. Box 1346,
Coconut Island,
Kaneohe,
Hawaii 96744.



Dear George,

Many thanks for both your letters and the 8 posters which you very kindly sent me. They are very useful and if it is at all possible could you please send me two more.

The delay in replying your letters was due to the fact that I was away from the State for some time and have just returned.

For the Bali conference, I was asked to present a paper entitled "Protected areas and turtle eggs in East Malaysia." As some sort of partial funding would be made available, I will be at Bali and hope to meet you there and discuss many matters pertaining to turtles etc.

Hope all is well with you, Linda and George Jr.

With all good wishes,

Yours sincerely,

G. S. de Silva





Mr. George Balazs, University of Hawaii at Manoa,

Hawaii Institute of Marine Biology,

P. O. Box 1346,

Cocomit Island, Kanoche,

Hawaii 96744

S. Second Said Same

Sender's name and address: Turtle Islands National Parks

P. O. Box No; 768, Sandakan,

Sabah, East Malaysia

denomination of boxes and the 'Tolip. Air Letter

AN AIR LETTER SHOULD NOT CONTAIN ANY ENCLOSURE: IF IT DOES IT WILL BE SURCHARGED OR SENT BY ORDINARY MAIL. To open out here

Colin J. Limpus



Home: P.O. Box 189
Aitkenvale
Townsville, 4814
Australia
Telephone 73-2674

Business:

National Parks and Wildlife Service Pallarenda Townsville, 4810 Australia Telephone 74-1411

11th August, 1982.

George Balazs, Hawaii Institute of Marine Biology, P.O. Box 1346, Coconut Island, Kanoehe, Hawaii. 96744.

Dear George,

Thanks for the letter on tags from National Band and Tag Co. As far as I am concerned their prices are unrealistic for Inconel tags. In retrospect there are many things I would change if given the chance - like turn to a better tag than the Monel many years ago. However this is now water under the bridge and for me I haven't been able to obtain Inconel 625 tags since my first attempts in 1978. As you know I gave up trying on inconel last year and am now trialing titanium. There are several hundred titanium tags now on free ranging turtles out here. I'll have my first chance to look at them again in October/November after 8-9 months. We have encountered some problems in the first attempt in producing a self-piercing tag that didn't need a prepunched hole. Our next batch will be of thicker and less flexible titanium. If you haven't checked you will find that titanium and Inconel 625 perform almost identically in the standard corrosion tests.

My local manufacturer is prepared to experiment with the titanium tags (provided I use whole sheets of metal ie. about 1200 tags per order). These tags cost me \$1 per tag. When I've finished trialing them and am satisfied that they are as good as I think they are I will let you all know. I hope this satisfies your curiosity on my titanium tag ideas.

New mentioned your concern over my results from the courtship to Nesting study. We have large courtship aggregations 20-50 miles from rookeries. In some cases that is the distance to the nearest land of any sort. Hence large movements between courtship and nesting have to occur for many of our turtles. Also when we are monitoring one of the "female refuges" in association with the courtship study at Heron, most of the females which move in to the refuge just prior to nesting are females which have not been recorded courting on Heron. However all carry extensive recent courtship damage indicating a large number of females have courted elsewhere prior to moving in onto Heron Reef in preparation for nesting. We regularly catch out of this refuge area when we want females (known to be Heron nesters for that season) at different times before oviposition. There is no evidence that this catching and other manipulation we do alterstheir choice of nesting beach or timing of nesting. I guess what I am saying is that I can see no reason to accept disturbance through catching as a primary cause for a female moving from a courtship area to nesting beach other than the most adjacent one.

When there are large numbers of turtles using large numbers of sites for each phase of their life cycle as we have over here the task of monitoring became much greater than for monitoring a single nesting beach. Bob Bustard fell into the trap of treating Heron Island as equivalent to Ascension Island or Tortuguero when in fact something like the Capricorn Bunker Group of islands and reefs is the probable equivalent. Heron Island is only equivalent to a segment of Archie's Tortuguero beach or one of the Ascension Island beaches in my interpretation of the degree of interchange between adjacent islands between and within breeding seasons. Similarly for dispersal from courtship to nesting.

I await your reply to these iseas.

C.J. LIMPUS.

CJL: DH

23 hept. 82 George -I have enclosed a copy of a letter from Ken Dodd , from Robert Gilmore regarding Johnston atoll. It is eljust learned from Ed Wall that the International Turtle & Tortoise Society has gone defunct - but it's library, at least has been taken wer by Chelonian Doctimentation center - COC3 They issue at a COC Newsletter quarterly-but I have no idea of it's format a seros of an info. page is enclosed. Mrosovole called to tell me keis going to "squeeze" my moto into the next MTN, because it is a "selecttal to the last newslitter. I don't believe of the fact that we stopped turning in 1977 has been published anywhere we did it to lighter the load or our tagging team. It became unne-load or our tagging team. It became unneso now we only tage the northern 2.5 mile turtles (+ note next location) + then measure a sample of the turned turtes in the south The caliber of village assistants is injerving maybe we will switch to all night tagging in the future - eldon't know, eldo feel that the less you disturb a study animal, the 4 don't know what we should do about the CEE. hawksbills. I'm afraid the damage is already done I don't know how the CEE comes up in its projects but frankly, I hate to see the

wasted on crap like this & the "Funts" may etc. - the U.S. public wellowly give so much for sea turtes! But I don't know what we can/ should do. any ideas? Berry has seen counsel. ing the Jamaica people, particularly latrick Fairburn, who from my brief acquaintance at the wash, conf. seemed well-meaning, but now misled by Fred now messed by tred about head-starting success is a good one in your comments on the lecovery Plan. you should circulate that now, because when the 1st tagged, headstarted turtle nests, we'll have such a Morus of "Lavior, savior!" That any comment from you then will sound like " was grapes" or whatever Dr. Carr still passit returned from alaska so I haven't asked him about maculosa & lacing ta. Do you want to ask leter or should if parsue it from here? From the text, it sound Tike we can rule of out the howkshill (caret) about the longevity record- I'm afraid elcan't help. all I can offer is that there was a pages by f Flowers many us ago that recorded many such capture records I can't now remember when or where published, all try to find out more That's interesting about the algae in the gut. elthe possible of guess that the acid "preserved" rather than digesting it. Mont found that, when the was looking at guts in Nicaragua, many turte

that had been on their backs for awhile had empty ing boluses in their esophaguses, ela the case of your turtle the spear may have damaged nerves necessary for secretifications the seagran-Juding turtles slive looked at, the blades are chopped into "mouth-width" lengths, but don't change much in appearance undil they reach the large intestine. But live never seen the gut of an algae-feeding turtle. about the editing: I very much agree that we should use the Hopkins-Pritichard letter corncerning general statements. I spoke is 1 Fred yesterday. He called to talk move I il told him we had agreed to edit, not he doesn't want to here I couldn't believe his "Alter's "comments" on the ms - "rewrite" "expais"
"add sels" etc. etc. I asked Berry for a Jist of which authors wrote what chapters told him we would return them for expan sion. I am also unhappy about Peter's lead role in they review. I hadn't noticed before that he is listed as first author, while all the rest are alphabetized. But I didn't know what I could say to Fred about that. Peter is apparently going to supply more photos for the book-when he sends them to she I think I can arrang for a free-lance illustrator here, I also told Fred of can't present the book in Miami in Jan. Lecause of

be in Hawaii' - he said "No problem." Then Larry Ogren called & asked me to send in an "edited" preliminary draft of the Manual by by 30 tept & invoice \$1100 in payment so he would use 1982 funds. So I scratched in a lot of picky initial changes & sent it off. if didn't have time to do more because il's Joing to Wash M26 Lept for 2 dous for the book seview (final!) at Smithsonian & llar rd are getting married on 3 October 82. Larry said anything would be fine, just so he could say he had a "groduct" in hand & could release the money. To I'll get \$1100 here which we can use for phone coells, typing, illustrating. They want an estimate ASAP on how much more we'll need. That is impossible to tell until we know if we've talking about 4 or 30 figures to redo etc. any thoughts? I'll deposit the check in the WATS acct here & can write checks to you for any of your expenses (phone typing, etc.). We need to get a letter out soon requesting comments by end of October - what do you think of that date? also we need to distribute manuals to people who may not have received them (Kirth Ehrenfeld, Stancyk, etc.). I got le extra copies from Larry that we can use to scratch up or distribute any thoughts on how you want this done or additional people you would like to have neview all the best to you Lindar Christian. Monthis back & doing well! Laven



UNION INTERNATIONALE POUR LA CONSERVATION DE LA NATURE ET DE SES RESSOURCES INTERNATIONAL UNION FOR CONSERVATION OF NATURE AND NATURAL RESOURCES

Avenue du Mont-Blanc 1196 Gland - Suisse/Switzerland Télex/Telex: 22618 luon ch Tél./Tel. (022) 84 71 81 Télégrammes/Telegrama: lucneture, Gland

SSC/RFS/sn

Dr. George H. Balazs Hawaii Institute of Marine Biology P.O. Box 1346 Kaneohe, Hawaii 96744 USA

23 August 1982

Dear George,

As you know, I have not been replying to each of the several things you have been thoughtful enough to send or copy to us in recent months. These range from very nice turtle postcards through project comments, to the exchanges on RDB category interpretations and the interesting copy of the Conway article. Each was very much appreciated and was both useful and timely here.

Now I want to use this letter, by copying it to several others as noted, to solicit ideas and/or contributions for what might be called a minisymposium or the like, at the Kuala Lumpur SSC meeting - to follow up in some orderly fashion all the thoughts that are emerging on RDB categories, degrees of endangerement etc. With a little effort this might also result in a modest but timely and significant SSC/IUCN publication. Both Gren Lucas and Wayne King favor the idea and have already been thinking of contributions they would like to make to such a topic. Peter van Bree has also offered to discuss the definition of "endangered", based on a paper he is preparing for the Netherlands CITES authority. Sidney Holt has been offering his own interpretations as well. You and Archie Carr have already expressed a lot of ideas in connection with the turtle issues. I'm sure the folks at the Conservation Monitoring Centre have given it a lot of thought. There no doubt are others who might want to contribute as well, including the CITES Secretariat. The general problem has already been discussed in the SSC Steering Committee.

The questions - to you and those getting copies - would seem to be:

- 1. Is such an organized discussion at Kuala Lumpur a good idea?
- 2. Should we plan it so that it could be quickly published by IUCN? Presumably this would mean that invited papers would state the various aspects of the case(s), with salient features of ensuing discussion summarized for the publication.
 - 3. With or without publication, are there traps or pitfalls to be avoided, or key questions that should be emphasized?

Dr. George H. Balazs Kaneohe, Hawaii 96744, USA

- 2 -

- 4. I suppose the classic thesis-antithesis-synthesis could give us an organizing pattern. Do you have more down to earth agenda ideas?
- 5. If we have invited papers, or scheduled speakers, who would you suggest, and on what topics?
- 6. Any other related thoughts?

Im sure the subject, however it defines itself, will end up being discussed at Kuala Lumpur regardless. Perhaps we can make it more effective.

Thanks again, George, for your communications. I'll be interested to see what responses result from this letter.

Yours sincerely,

Robert F. Scott Executive Officer

Species Survival Commission

(typed and signed in his absence)

cc: Sir Peter Scott

G. Lucas

F.W. King

S. Holt

R.S.R. Fitter

Mhd Khan

P. van Bree

N. Duplaix

R. Mittermeier

A. Carr

T. Mence

C. Huxley

E. Lapointe, CITES

H. Synge

P. Sand/L.M. Talbot

A. Schiøtz

21 Sept 82 Dear George, Enjoyed talking to you the other day, Hope my memo about upcoming meetings was O.K. I had AC, you + Wayne King telling me everything not so say? I forgot to thank you for the slide and for the nice Philippine turtle stamp. We are getting a fine collection of turtle stamps! My Lundad Naturalist article is in David Mack's hands right now. We haven't decided on what slides to use. Wayne loaned me some goodones, too. Enclosed is my letter to Orlmore, you forget to circle what paragraph I should focus on So I just did my beet, Il didn't mention The need for baseline studies because of think Karen covered that, and it would look strange for me to hit That point, too, al think, In response to your question, no -It sont know of any refs, on the effect of bright lights on sleeping or feeding areas. That's a rough one! d'in not sure what's what with the drien Jaya proposal. I found a copy of a letter from Pat. Chable reminding AC to respond, the files haifed to find the proposal itself, I really don't think it came, but

well have to pry around in AC's briefcase upon his return to be sure. The proposal sounded farrly reasonable, I thought at least the objectives. The budget is astronomical, as always. No one seems to be able to work in Indonesia without when I exhaust all possibilities to d'il write Chable that, for one reason or another, we didn't get a chance to review it. Maybe There's still time,

The Jort team is due back any day, where upon I'll send you flypes-width data. Hope they did it right Br. Carr finally recarted and said the measurewhent in adults was in fact perpend-We never saw Dereks migration

paper. That's a loss if it doesn't get

Karen reviewed the recovery plan for our office. Did she send you her comments? that I wasn't very impressed by the little of it that I read. Out-of-date, superficul—

Week with Enveronmental advisory Committee

in Panama. Found that the situation is even worse than I expected. There is notiontingency plan as yet -- and no data to put it in it anyway, on The oil companies got rooked, I think, and sunk 900,000, who a flightly-by-night eximination Panama that hasn't come The situation to the Exxon man by phone yesterday. Waiting for response to suggestion that they postpone operations until they get their act hogether. Doubt They will give it much thought. Meanwhile, we have a pretty good committee that is willing to have an input on contingency plans when they become available. Petrotesminol promised access to these documents. Well, much to do tonight. Hope This the sup some of The loose ende. Will be sending you some Bhasker (poor Bhasker) reports that he had us request from WVF/India.

Hasta la proxina,

Best regards, Hine

P. Enjoyed the article on the Graymi. I have been in touch as a Jesuit priest who was involved in that battle. He's concerned about the preline,



26 August 1982

George Balazs Hawaii Institute of Marine Biology P.O. Box 1346, Coconut Island Kaneohe, HI 96744

Dear George:

Thank you for your letter of 18 August and your compliments on our comments on the recovery plan. I am afraid that the plan has a long way to go before it will become an active plan.

I have just sent out copies of Debbie Crouse's final report. You should be receiving a copy quite soon. Also, I have found out that your request for the inexpensive STCB was confused with a similar request from Jack Woody of Fish and Wildlife, who was taking the books to the Rancho Nuevo project. I have been assured that your 40 books will be in the mail by tomorrow, which means you should receive them by the first week of September at the latest.

Although we have suffered some rather dramatic budget cuts ourselves, the patch idea is still alive. Indeed, we are contemplating a rather large scale stranding network effort for whales, seals and sea turtles, of which the patch would be part.

Finally, I understand from Ken Dodd that the idea of a Pacific recovery team is making the rounds in Interior, although Region 1 apparently recommended against it, as might have been expected. That idea is by no means dead yet either.

I hope your travel to Samoa goes well. I would be interested in learning whether or not there is much tourist trade in turtle products.

Sincerely

Michael Weber

Sea Turtle Rescue Fund Director

Dear George 1

Thanks for all the news - good and bad. I'm still waiting for Colombia to decide upon the appropriate dates for my visit. They are to provide a plane and pilat. It's been one delay after another. I'll miss the peak of the nexting for loggerheads and now must plan on another trip in June '83.

Ot last, the "manuals" have arrived in Meaning from Costa Rica. Customs hold-up over "no commercial value" declaration. They didn't believe us. Then on to Pansma City via UPS. I'll send you capies ASAP. I'm glad you decided to edit a new revised edition with Karen. I am having additional color plates printed up here in Panama City with end-of-the-year money.

Short response to your questions follows:

That's a pretty grim picture up all got of the Nicaraguan-Miskito situation. Undoubt-able some fall of it is factual, but its tone speaks hyperbole. Anti-revolutionary forces are still active along the Honduranian border and the norther most settlements of Miskitos are right in the middle of it. There is no love lost between the coastal creale-inclian population and the interior welling spaniards. It's been this way for over a Rundred years. I would not be surprised if the miskitos would resisk

any effort to move them from their ancestral homes, with some indians temporarily. joining forces with the anti- Sandmistas. Wouldn't you? also, the new revolutionary government is trying to strengthen its bolders, including the eastern shore where miles upon miles of sea bottom remain vulnerable to encroachment by other Caribbean interests. Colombia still claims much of that deep shelf property off the Mistito Cays as their own dating back before U.S. envolvement in the Panamanan affair. anyway, I don't believe the situation is quite as bad as the article would have you believe, especially if you consider the source and the paper and their mutual outi-communist beelings. Carr hasing mentioned problems with the southern settlements near Pearl Lagoon and sanctuary status for the ofthere Carp is still a goal of Nicaraguan officials. Just recently, a conservation officer with the new government has been hamed to be the National Representative to WATS. His name is Reynaldo arostegui of the Parks and Wildlife Service of IRENA. also, nicos did spend the summer at Tortuguero, learning the turtle togging trade and survey methods.

Need to Telephone 350-1111 · Tom kisting (or Nancy Thompson) are your SEFC, Meani Lab contacts for tag info. Galveston lab is temporarily in limbo. Jim McVey left NMFs for a job with AID in Indonesia for 2 years (aquaculturefish (prown). Thank Wibbels left NMFT for grad school at Texas A&M He will be studying under David Owens. Ed Klima, Galveston Lab Director, says everything is under control. Kidley dulies will be transferred to someone else. Declined my assistance (with A. Carr) to evaluate tag returns and report on findings to-date. Papers in progress by McVey - don't know when they'll get published with Jim gone. Needless to say & do not have any recent into on tag returns.

to be desired. As you observed, we do not know the sex and size class of the captured greens. Introductory

Statement mentioned some of turtles captured had eggs. I quess we can useime at least one was an adult of like you, I am very curious about their six — were they primarily subadults like the loggerhead we encountered in SE 4.5.

One more writing session to incorporate all corrections and review comments for on outside team. Therefore, you do have time to send your comments on the SE Region Recovery Plan before October 1, 1982. We meet in Charleston SC with other team members on Oct. 4. Sally Hopkins is our hosters. I'll give your comments to the group if you want to send them here. Otherwise, send them to Sally and shall make xerox copies for us.

Confirme requiring CEE statement on Jamaica stanted hawkshills. Because they sollicited me for a donation, Allrespond with a letter instead of money, explaining the ballacy in their thinking (as hest I can). They mean well, but we don't need to encourage culture—its already well

implanted in the minds of hundreds of entrepreneurs. also, it appears to be a highly visible emservation effort to many government types, who may transfer effort/funds from more ardnows protection measures for resting and foraging populations under their jurisdiction.

The more letters from "friends" the better. What do you think? I helieve anne and Karen are responding in Kind. Wouldn't be surprised if Peter took a different tack from his stand on head starting (as stated in amer. Zoologist article, 20(3): 616. Seenario 4: Head-starting). I'm sure others in NMFS (Fred, Ed Klima, etc) see nothing wrong in the CEE letter and probably will support it if asked to do so.

Re twitle meeting. Have not had opportunity to discurs this with Caver et al. Suggest we leave date open until after WATS in July 1983. Many of us have foreign travel planned for spring '83 to complete final field surveys before symposium. Also, if sponorship for WATS by TOCARIBE fails

-6-

from lack of funding atc., and WATS
needs to be re-organized into a "Caribbean
So Twille Workshop," or something, it
would seem like a good idea to bring
in the twille group at this time. We
have considered a contingency plan if
our sponorship and intergovernment National Rep
support falters. ... however, no mention
was made of the twill group at that
time. I'll run this by Carr first chance
Light.

adios, George. My Colombian trip war postponed again. Presidential election left administrators in limits for 4 weeks. No decisions could be made re countre-part collaboration!

p.S. Suclosed extra copies of Carre intermi report for you to distribute around Hawaii. Let me know if you want more. I have preprint of your leatherback stryf.



Saw-scaled Viper - One of the Big Four dangerous Snakes of India. Dear Dr. Balazs, Since I was away on

maternity leave and Satish is away on Suheli since May 5th- an uninhabited island? in Lakshadweep your letter? was left unanswered. However, I shall give him your letter I shall give him your letter Honolulu Laboratory on his return by end september. P.O. Box 3830 Since there was no way of 5 communication-he posted a g letter in a bottle which got washed to Sri Lanka and got Copy right Madras Snake Park.

(Mrs Brenda Bhaskar)



Dr. George Balazs National Marine Fisheries Service Honolulu, Hawaii 96812

10 August 82 Dear George -Thank you once again for your correspondence. I'm afraid I'm quite behind in my replies. I got back from Aldalra at the end of July, and until recently have been quite unsettled. Partly I think I was suffering from culture shock", after 5 months on one island with 22 people and 2 months on another with 10 it was quite a charge to get back to Make. Another begger problem was that I needed to find a new place to live on Make. I was living, St. Amne Island, located 3 miles from Make, in a house with 4 Park Rangue. After the attempted cours in November they have imposed a 6:00 PM to 6:00 AM sea cenfew. Obviously this is a missance, sina it meant I with had to be home by 6:00 PM each evening or not go home at all. Even the Rangers couldn't take it any more . they all moved weigh no electricity and senset the from 6:00 PM to 6:00 AM wery Lay What a drag! But I good a new place finally on the coast of northern Make. It is a little cottage and it is beautiful by anyone's standards. (Even my parents would love it.) It wen has hot water - very sare in Soughelles So I am all settled in now. In some ways I really don't want to west the States just now, but I must on I can't go until after the hawhabill season - OCT - FEB. Thank you for the lovely sea turtle poster - "Sea Turtles of the world." Is there a chance That I could get about a half-dozen more of then! There are several people here who are very impressed by it. One of these is Mayorin, the Manager of Cosmoledo He is one of my dearest friends here in Sendelly but is also one of the very best tritle hunters in the country He thinks the foster is beautiful - he wants one for his home in

Make ad one for Cosmolodo where he does most of his turtle hunter Thanh you also for keeping up to correspondence regarding the Aseria Island sea turthe stamp issue. The By the way I got a letter from the Hosen Island Historical Society asking my permission to let them with publish a little booklet in my name based on my doctoral dissutation. They want to sell it on the island to make morey for the Historical Society I told them need, but that I would like to proof-read it first. Regarding the article you sent men to Kremin turtle farm for which you asked me to comment - - Obviously there are low of mustate regards to general biologs sea lutted. These I'm sure you can find out youself. Regardy the turtto farm specificall - a) the 2 kilos of food to produce one kelo of turtle meat may be more or less accurate. That is what he sure told me 2 kilos of dry food produce (kilo of web turtle. b) I don't thish Guy Lebru is a "Dr' now he a Marin biologic c) I would really like to get some good data on just how many hatchty on Europe do emerge in the daylind at how many of these really are later by Friends. I am a bit skeptical personally. Dut never having visited thew I don't know any more than you do. Fing data gathered by well Kopp on the malle is high suspect. Bernard Bonet is, I believe, quite a sound biologist, although primality a physiologist. What does Dervan sangabout it! I haven't me got his paper here. d) Guy Lebrum is not strong enough to hold "two adult turtto at waist level, as the caption under the photo or page 13. Auggest.

e) I got the impression that although Maurituis to interested" to having its out own turtle ranching operation it is westing to see what happers to the Reuman ranch Recently I got a letter from a friend of min in Mauritius, is which he expressed great delight over the fact that Mauritus is near to getty possession of Tronelin. Reparety the have long fell that tromalin is rightfully their Do your anythy about this? Thank you for the Aldabra brochure. Very attraction, usn't it. Thanh you also for the copy of "An early report of the flora + faura of the Aldabra Group." This has lot of information of interest to me beside just that on the tenthing. I enjoyed the article from the St. Telusburg Times on the Caymon linto form. I wish that Dr Carr's statements hadn't been used to make him sound like an ultra forest he is study then I then more emplois should have been fout on the problem of just screwing up the Species. This is a danger to the survival of the whole species of in the Caribbean if you create a new poorly adapted Species. Four article on to Squid Drifted problem is very depressing. My friend in Mainteres sent me as postcard of the green turter hatchy that you found so excitiz. I am writing to him to send me a bunch of then on Temperature Dependent Sex Determinato. Has anyone figuredon't what "NATURAL SEX RATIOS" are? This is very simportant for me out here. They have as law say that only male green turles som be killed but how many males

There are to difficult to externate.

16 August 82 Sigh! Here we are again in the midst of another though coup. You've probably heard about it by now. We are linder 24 - hour total curfew and part of the army has taken over the major parts of Mahi -- airport, radio station, resterday the first day of the take over, I was on my way to the radio station of all places. I go there about twice a year, and was on my way to get interviewed for a newspaper articles on my work. That was where they took over 200 hostages! Actually I never got that far cause I was stopped in from of my house while waiting for a bers. Testerday I was a bid worried cause these creeps were threatening to blow-up to petrol station, the powerhouse of the radio states, + kill the hostages. So, I filled up alob of containers with water (in case the Has supply was cut), and cooked up alob of food like beans + rice (in case to fower was cut), and pashed a bag in case I needed to Ascape up into the hills (I live right on the road) Kight now I can hear distant gunfire, but this part of Make is really quite quiet as it is away from to important places. The credibility of the rebels is questionable. They kept saying "if you don't give us an arower in 15 minutes we will blow up the power-station. But the they didn't. I think the Gov't is just going to wait them out. However, there is supposed to be a band of Tangania soldiers firing on them at the moment. That bodes poorly for the poor merchants in hour. Hongway -I really enjoyed your article "Radio Telemetry of Hawaiian Green Turtter -- I would love to go back to Ascense and

issed some more sophisticalid equipment and gett longer term

tracks.

George, can you supply me with information on the following topics -- 1. E. do you have yourself) or do you of other work which would answer my questions on the following (song) IF I am sounding runter ATE!

Sex ratios - I meed to get some up to date informats on the number of males we females. This would come from a comfination of data gathered front on sex nation in natural mests, and from courts made at the nesting grounds on adults, and from a comparison of tag return intervals in both males and females. Here in Sexpelelles it is illegal to kill adult female green turtled (although people do it all to ture) but dwy 7 months of the year it is open season on males. Lots are taken. There is no well defined nesty season for greens here

2. I a there new information at available on age to maturity is green tentles? As you know this is very important bit of information if one is to try to manage the population. During the complete ban on killing green turles hue is Saychelles a the 70's no increase was observed in the nests populations. Of course, there are two good reasons for this a! No attemps was made to monitor the populations b) Dury to period of the ban the people went right on killing turtles as before. However, if I had hard data that suggested that one must wait so -and - so many years before you could effect to see protected hatchton return to nest, to would make matters easier. When I tell people that secent sessarch suggest quen turtle tato so or more years to reach meteriate they are incredulous and do not want to believe it. I don't have numbers to back me up so I find myself at a bit of a loss. Do you have a manuscrips on this. I am embarassed to pag I can't

Proceeding + I don't hour a copy of your papers here with

That I will leave Septilles on the 3 of Septents

for a visit of about 1 > 11/2 months in the State. I hope
the curfew ends soon. This is a dray. I suppose this will

cut into tourism once again so I shouldn't have much trough

gettly a seat in the airplane to go home.

Sorry to hear B. Groonsbridge to being a creep.

Pers regards

P.S. Note stamp on envelope for R3.50 Let is of the Ship Cina Tural Two level on that ship for over 3 months?

C1, B9/925



UNION INTERNATIONALE POUR LA CONSERVATION DE LA NATURE ET DE SES RESSOURCES INTERNATIONAL UNION FOR CONSERVATION OF NATURE AND NATURAL RESOURCES

Avenue du Mont-Blanc 1196 Gland - Suisse/Switzerland Telex/Telex: 22618 luch ch Tel./Tel. (022) 64 71 81 Télégrammes/Telegrams: lucnature, Gland

Référence/Reference :

Sa/3/4-1 SSC/RFS/pc

Professor Archie Carr Dept of Zoology University of Florida 223 Bartram Hall Gainesville Florida 32611 USA

30 August 1982

Dear Archie,

I have a note from George Balazs referring to my 11 August letter to you about the Bali turtle meeting. This, together with further conversations about the Bali Parks Congress, leads me to offer the following clarification about attendance.

Anyone concerned with marine turtles who is able to be in Bali on his or her own arrangements at the time of the 12 October turtle meeting will be welcome to attend that and any ensuing turtle meetings. If space were to become a problem in the Congress meeting rooms, arrangements elsewhere could be made. This will probably not be necessary, however.

If anyone wishes to attend the Congress itself, an invitation and registration fee would be required, as I indicated.

Yours sincerely,

Robert F. Scott Executive Officer

Species Survival Commission

cc: distribution list encl.

"ISTRICU LON LIST:

5. Lucas

the King

. Bala

. Helionia

1. Eidsvil

B. Groombridge/SCMU

R. Salm

G.S. de Silva

K.T. Sign

M. Sumertha Nuitja

S. Akhmad

I. Suwelo

J.B. Alvarez

N. de Celis

Mohd Khan

Bogor, Indonesia

Sabah

Halaysia

Bogor

Jakarta

Philippines

Philippines

Kuala Lumpur, Malaysia

because cocci lives

Coban.

Dear George -Nope this letter is okay I sent it off the dayafter sorry I was slower to get the copy to you. I assume you've received your copy of Fred's meno by now. I'm going to wait suit have dad a chance to receive tokays from everyone. Then I'll arrange to send out a formal request comments on the Manual a definite deadline echived the manual - Ml

find and when everyone will have their copy, so we can set a reasonable deadline date. I thought we could ask them to send all comments to me; I could incorporate all I agree with - then send the sevised copy to comments il didn't includo to see if Fred wants major chapter rewrites - 1. we should consider sending the chapter back to the niginal author. I didn't volunteer to security the thing I Il possible, I would like to assign authors to each of the Magters rather than numbering 1-10 at the beginning. What Is Wavestins know to when they should write stand don't whow how the chapters were

because cocci lives

Coban.

written, though, soit may not be feasible. Clanx are going to Inaqua Lep you, Linda & best segard, Varen

60AI 5675 (10/81)

TRAFFIC (U.S.A.)

1601 Connecticut Avenue NW Washington, DC 20009

(202) 797-7901

Aug 17th

Dear George,

The been working with Mike Been and WMFs regarding CTF petition. I haven't bound anyone in the government who supports CTF products again coming into U.S.; however, as we all know, scientific recommendations can be overturned by higher-ups. Let's Keep our fingers crossed.

One problem I foresee coming up in the future is the ranching operations by Suriname and Reunion. If they are approved by the partners, does this put extra pressure on the U.S. to open the doors to CTF product?

I have enclosed our comments to the CITES aganda at the next meeting of the parties in Botswana, April 1983. As you will notice, we would like to see an aganda item added on "Implementation of the Convention with respect to sea further."

The trude figures are just incredible and it's time for the Convention to address

(over)

this issue. A letter from you and Archie Carr (just sont him a letter)
supporting a discussion of the sea turtle product trade at the next meeting would probably lend support.

I'd address a letter to the CITES
Secretariat and a ce: to Mike:
Goldsmith at the UK scientific Authority who is head of the Technical Expert Committee.

Keep in touch.

Lest,

Did

Dear Mr Goerge Balazs,

I am very glad received your report 'synopsis', letter and the map a sea Furtles of the world. Thank you very much for your kindness.

I think my research in Bali I.as temple as your research in Hawai I. Because my research is only practice for finishing touch my study at Fisheries faculty, Boger Agriculture University.

I'stry to write about my research. My research about Morphology and Anatomy of the green
turtle which eateh around "Bali" waters. I choose
this place (Bali) because in this place the green tur.
the ean be found in large number.

The material & methods, please if quire the (All turtles are weighed and measured.)

The result, I write in table. And 9 make data as:

- relationship between capace length and body weight

 relationship between carapace leght and carapace witht

 "" "" playfron length and playfron with
- - " " earapace length and playtron leggt.
 - " Carapace length and digestive tract length

corrapaer length and shell depth

So I am very happy if you give me some opinion or corretion, how to prepare data.

I am sorry if my letter not correct. I still learn to write a letter in English. My English is not better, but I try to practice. I think where there awill there's a way

But I suppose you are not doubt about your letter if you write me next. Because I understand to read English book, so I use the dictionary if I don't know the tentence (estatement)

I send to you my photograph. I hope every thing was satisfactory.

Best regards,

Sincerely, Mansine manjinsela

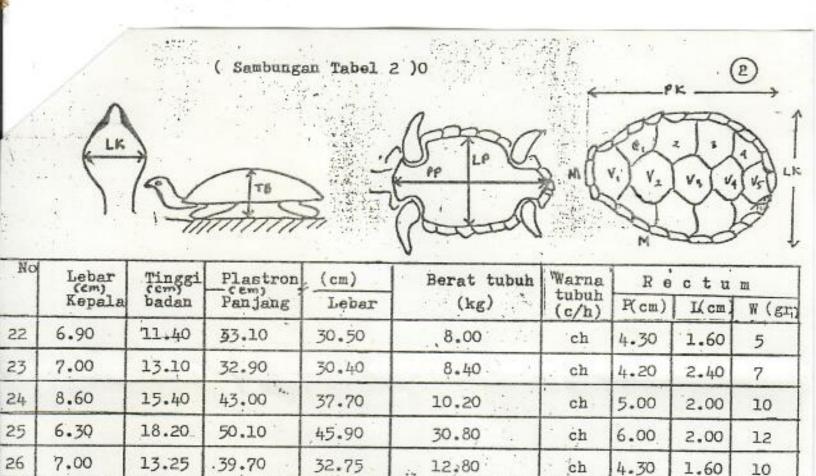
Fransine 6. Manginsela Bogor Baru B II/3-4 Bogor

Indonesia.

Data Primer

Tabel 2. Ukuran-ukuran panjang dan berat individu dan alat pencernaan pe nyu daging (Chelonia mydas L)

	Tanggal	Jam	Tempat	Talend		La		1	-	66	
No.	(Pengamatan)		Lokasi Penangkpn.	Lamanya diplhr.	karapas panjang lebar		ΣN	Σм	Σc	Su	
22	21-3-82	20.04	Br.Pgok	Selat Bali	l hari	41.20	.33.70	3	111	1	-
23				dan S.Indo.		39.10	33.55	3	11	4	1
24	20-3-82	19.15			40	48.90	44.60	3	11	4	5
25	21-3-82	20.04		+,11		59.70	53.30	3	11	4	5
26						45.70	39.60	3	<u>(12</u>	4	5
27		-	1	, +		47.60	39.60	3	11	4	5
28					1,1	48.80	41.10	3	11	4	5
29				3.4		45.40	40.10	3	11		6
30						67.15	56.10	3	11	4	5
31						40.90	34.40	3	11	4	
-											Ó
-											-



16.00

16.35

13.80

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8.30

ch

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ch

ch

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4.90

3.80

5.50

5.50

2.20

1.60

1.00

2.20

1.00

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7

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20

6

8.10

7.80

7.60

10.90

6.20

27

28

29

30

31

15.70

15.40

15.20

22.30

12.50

40.80

42.10

39.50

57.20

32.10

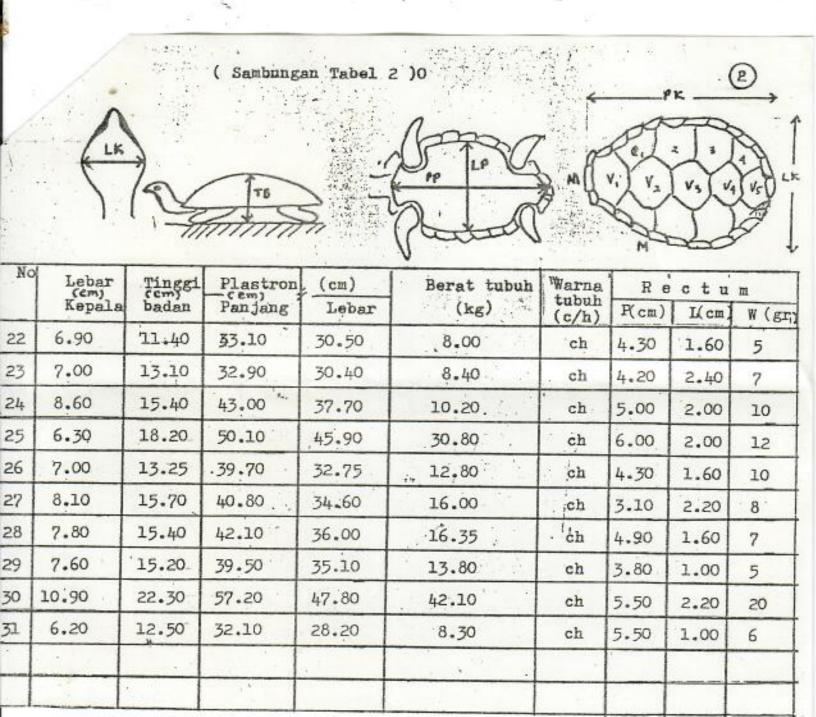
34.60

36.00

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47.80

28.20



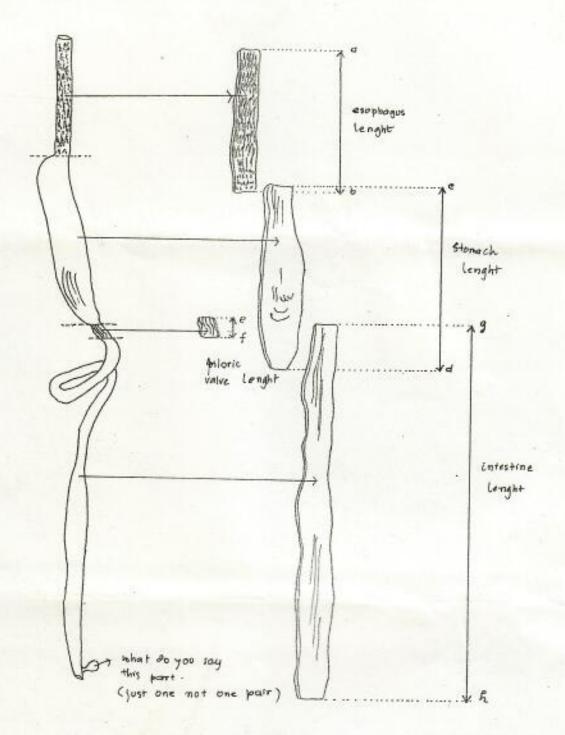
(Sambungan tabel 2:)

UKURAN-UKURAN ALAT PENCERNAAN I

W= Weight ==Berat P= panjang; L= Lebar;

E=esophagusb S=stmach P=piloric canal I=Intestine R=Rectum

No	esophagus			stomach .			piloric canal			intestine			
	P	1 L	胃	P :	L	W -	P	L	W.	P	L	I W	
2	18.95	5.10	95 4	21.00	4.40	70	2:00	2:40	-2	464.80	1.60	355	
3	20.90	6.60	95	25.50	3.00	85	3.00	3.50	4	419.90		345	
24	28,00	6.00	180	33.20	4.60	190	3.50	5.00	10	722.50		1000	
25	39.80	8.90	320	40.50	4:20.	240	4,10	2.90	10	957.80		1685	
26	25.00	5.95	135	32.50	3.40	140.	4.20	3.90	13	555.20	1		
27	26.30	7.10	165	36.50	4.40	190	4:70	3.40	12	694.00			
28	24.10	6.80	145	35.60	4.50	190	3.20	3.20	7	690.30	3.00		
29	26.70	6.90	150	36.20	4.40	145	3.10	3.10	.5	721.30	3.20		
30	35.10	9.10	295	47.90	5.10	345	6.00	4.00	20-	1092.90	4.90		
51	22.10	8.20	85	22.70	4.20	70	2.80	2:70	-3	464.80	-		
	- 10	At a							-		2.40	227	
			are -				2 ,						



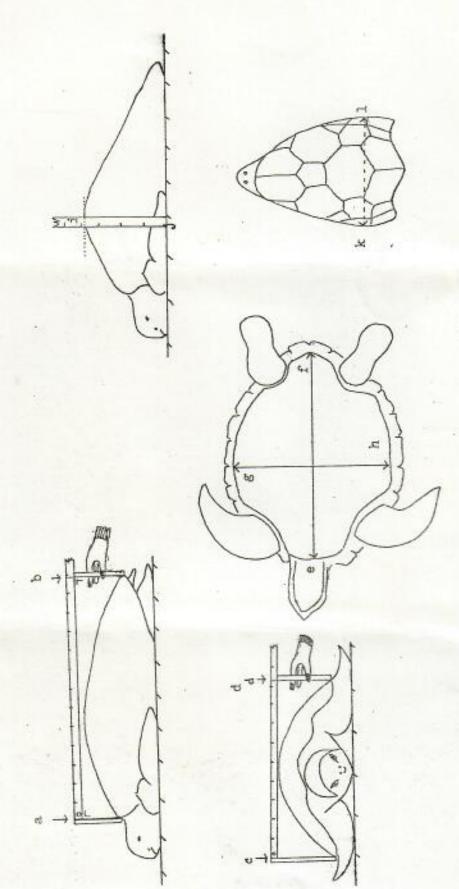
Gambar 3.2. Cara mengukur saluran pencernaan menurut bagian-bagiannya.

a-b = panjang kerongkongan

c-d = panjang lambung

e-f = panjang saluran pilorus

g-h = panjang usus

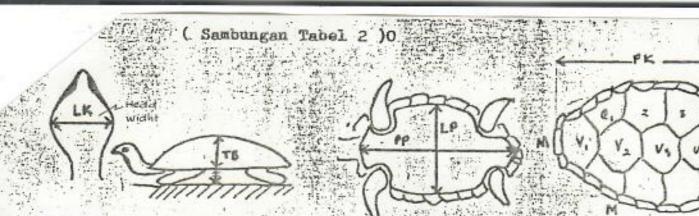


Gambar 3.1. Cara pengukuran panjang dan lebar di lapangan a-b = panjang karapas g-h = lebar plastron c-d:= lebar karapas 1-j = tinggi badan e-f = panjang plastron k-l = lebar kepala

Data Primer

Tabel 2. Ukuran-ukuran panjang dan berat individu dan alat pencernaan pengeng dan daging (Chelonia mydas L)

	Date	Time	location.			Cara	00/4	1			
ю.	Tanggal DATE (Pen	Jam gamata	Tempat	Penangkpn.	Lamanya diplhr.	Kar.	apas	E N.	Morrginal ∑M 11	Connect C	Vorteli EM S
1	13-3-82	19.30	Br.P'gol	Kep.Sunda	1-30 har	Control of the Control	,46.95	3	11	2 4	5
2	*2	-11-		Kecil	#_n	42.05	35.10	3	11	L,	5
3						41.65	36.15	3	11	4	5
4	+				1. 162	38.40*	35.35	3	11	4	5
5			B			43.20	35.85	3	11	4	5
6		-				55.10	46.80	3	11	4	5
7						52.90	45.00	3	11	4	5
8						58.20	47,10	3	11	4	5
9				. T. S		56.90	48.20	3	11	4	5
10						54.40	43.80	-3	11	4	5
11	-				14	41.90	37.60	3	11	4	5
12						59.40	45.55	3	11	4	5
13	n '	-11-	£11_	¥11_	_11_	93.95	72.80	3	11	4	5
14	20-3-82	19.15	66n=	Selat Bali	l hari	49.35	38.10	3	11	4	5
15		,		dan S. Indo (Grajakan)	tangkap:12 Tamp:20/x	54.50	45.70	3	11	4	5
16						58.50	52.70	3	11	4	5
17						47.20	40.90	3	11	4	5
18						45.00	39.90	. 3	11	4	5
19						41.80	35.20.	3	11	14	5
20				10		42.70	36.70	3	11	4	5
21				1		52.80	45.70	3	11	4	5



No	Lebar	Tinggi	Plastron	(cm)	Berat tubuh	Warna	R	e c t n	m × 3
	LK Kepala	re badan	Panjang	Le Lebar	boby (kg)		P(cm)		-
1	9.90	19.40	48.80	40.90	25.75	ch	342	10.20	
2	7.10	14.00	34.50	28.95	8.40	ch	4.00	2,00	5
3	6.50	13.30	35.15	29.05	8.35	#ch	5.00	2.80	8_
4	6.95	11.90	33.80	29.80	8.60	ch	5.25	3,00	15
5	7.60	12.60	35.60	30.05	9:95	ch	3.60	1.00	10
5	7.60	14.50	47.05	40.55	22.50	ch.	5.80	3.00	10
	8.00	11.90	43,50	37.00	13.10	ch	7.00	3,40	15
3	9.10	15.20	48.20	42.50	22.45	ch	10.00	3.80	15
1	8.40	15.50	48.55	41.10	24.45	ch	6.10	2.00	9
d	8.90	13.10-	45.30	37.50	17.45	ch	5.00	2,00	10
1	7.30	12.70	34.00	31.15	7.40	ch	3.95	2.00	10
1	9.60	19.20	59.40	45.55	23.90	ch	6.60	3.00-	20
1	13.20	23.20	. 74.95	67.85	102.05	ch	750	3.00	50
1	6.90	13.55	41.05	33.25	13.40	ch	5.50	1.00	5
1	7.90	17.95	447.90	41.20	22.55	ch	5.60	2.00	10
-	9.50	18.80	51.40	46.20	31.80	ch	5.00	2.00	15
1	8:20	15.30	41.20	35-30	15.80	ch	4.50	1.80	10
L	7.90 .	13.90	39.20	33.10	14.70	ch	3.70	1.80	10
-	7.60	11.90	36.60	31:30	10.00	ch	4,50	1.30	5_
	7.00	11.10	3536.00	31.80	19.20	ch	4,00	1.00	5
	9.00	15.10	44.00	39.10	20.00	, ch	4450		8

Chelonia mydas iakonica

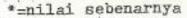
what do you say this part?

(just one mot

one pair).

P= panjang;

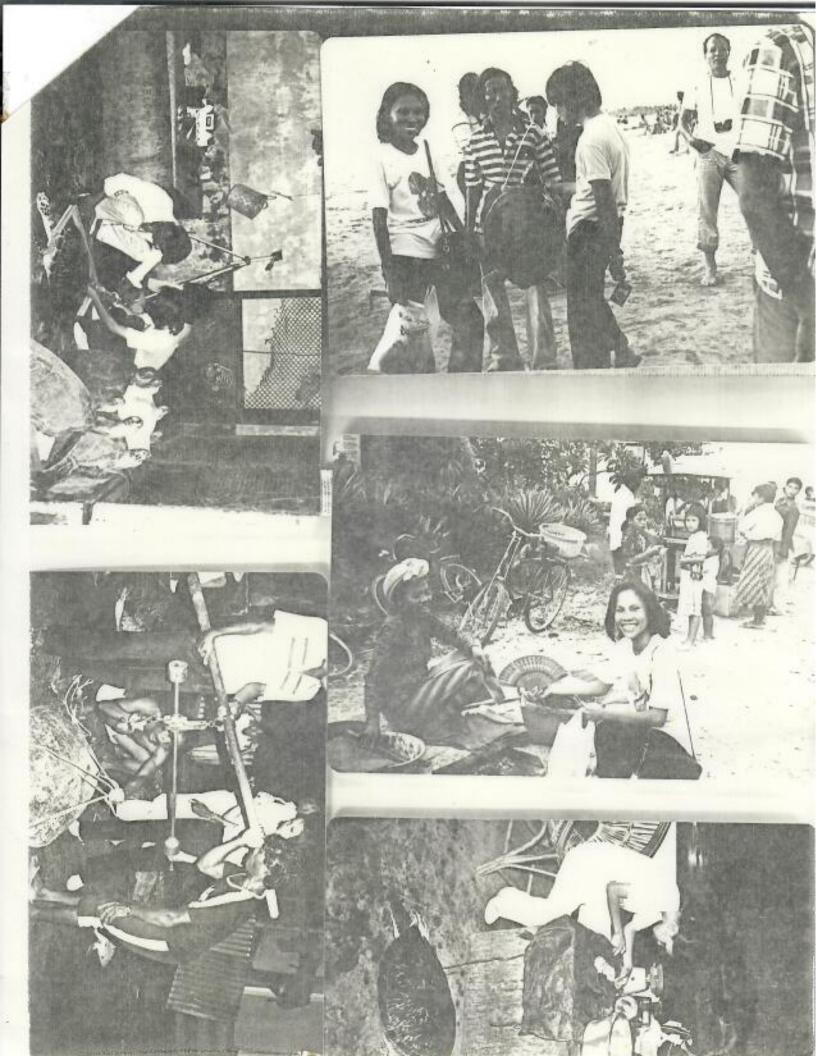
renght



UKURAN-UKURAN ALAT PENCERNAAN I

E=esophagues
S=stmach
P=piloric canal
I=Intestine
R=Rectum

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UNITED STATES DEPARTMENT OF THE INTERIOR FISH AND WILDLIFE SERVICE

POST OFFICE BOX 1305
ALBUQUERQUE, NEW MEXICO 87103

1 9 AUG 1982

Prof. Felix A. Garcia Jeffe de Tortuga Marina Direccion Nacional de Recursos Naturales Renovables Apdo. 5390 - Panama 5, Paraiso Republica de Panama

Estimado Prof. Garcia:

Your letter of May 25 to Mr. Curt Freese of our Washington Office of International Affairs has been referred to me for reply. Please accept our apologies for the delay in responding to you; I assure you it will not happen again.

The reason I am responding to your letter is that I am rather closely involved in the administration of a number of sea turtle projects in the United States, Mexico, and Costa Rica. These projects involve management, research, and providing direct and indirect assistance to both Costa Rica and Mexico in their efforts to manage their sea turtle resources on both the east and west coasts of the respective countries.

To begin with, I was both surprised and pleased to learn of your efforts with Lepidochelys olivacea, the same species we are presently cooperatively conducting research with at two sites on Costa Rica's west coast. This is a joint effort supported by the Costa Rican Government (National Parks), the University of Costa Rica, the World Wildlife Fund-U.S., and my office of the U.S. Fish and Wildlife Service. None of us have enough resources to do the work alone, so we have managed to jointly pool our resources to reach the needed level of support to get the job done. This combined approach is what you seem to require, also. Whether this is possible in the case of Panama, I can't say, but it is certainly worth pursuing further, and we will try to assist you.

Obviously, if support is to come from outside of Panama, then the appropriate Panamanian Government agency will have to give their endorsement for such an effort before a foreign organization or an agency such as mine could seriously entertain a cooperative international assistance project. Without support and approval of the host government, it cannot be considered.

Before going further in relation to the possibilities of actual assistance to your programs, I'd like to comment on your suggestion of "headstarting" hatchlings by holding and monitoring them in captivity for at least 2 years. In all honesty, I would not recommend that you institute such a measure, for to do it correctly

and maintain significant numbers of turtles in a healthy condition with high survival, is difficult and very expensive. The benefits of such a costly effort have never been proven. It is being attempted in some countries, including one of our U.S. projects, but ours is strictly experimental and utilizes less than 1,800 hatchlings for approximately 1 year. Our captive survival is excellent—over 90 percent—but the cost is prohibitively high for so few turtles. The species involved is L. kempi, a highly endangered species, and our efforts are purely experimental to try and determine if we can establish a second nesting colony and reduce early hatchling mortality.

I've enclosed some short articles from the "Marine Sea Turtle Newsletter," which talks to this question and may be of some help to you. Headstarting does not have general support from most of the professional turtle biologists due to the many unanswered questions as to how it may alter normal behavior, as well as the often high mortality, and, believe me, there often can be very high losses. To raise a few turtles is one thing, but to try it with thousands, I could not encourage such an effort until we learn much more and prove or disprove the value of such efforts and until costs can be made more reasonable.

Since I know so little about your program, I am most hesitant to say anything other than to suggest we jointly explore opportunities which could help in your program efforts. When you get right down to addressing the basic biological and management questions regarding L. olivacea on the Pacific coast, it becomes obvious that probably the most basic need is for the countries of Central America and Mexico to pool their resources and expertise, try to ignore political boundaries, and work together to maintain and manage this important renewable resource which is shared by all but which could be overexploited by one. The Costa Rica project has tagged thousands of ridleys during the past 2 years and this current season, also, in an effort to determine the movements, seasonal and annual, of this large population which nests to the north of Panama. I am enclosing copies of these project reports for the past 2 years; they may be of help to you in formulating future plans. You may wish to make contact with either Dr. Robinson at the University of Costa Rica, or Steve Cornelius. Dr. Robinson and Cornelius are working together, one at Playa Ostional and one at Playa Nancite, and they would be very interested in what you are doing and what you know of sea turtles in Panama. Without a doubt, the population in Costa Rica and Panama must intermingle, for we have received tag returns from Ecuador and Panama.

Are you or have you tagged any of your nesting females? If so, when and how many? If you are so inclined, I could offer to assist you in obtaining tags and tagging pliers. The tags would be incribed with both a number and a Panamanian return address. A tagging project, along with your current efforts, would greatly increase the opportunity for the countries of Central America and Mexico to gain a better understanding of the movements and interactions of the various ridley populations along the Pacific coast. We know that Ecuador has carried on some relatively heavy commercial harvests of ridleys in past years, although there is no nesting population in that country. Where

do these turtles come from? Are they part of the population you are trying to protect or the same population Mexico is harvesting in Oaxaca, or a mix of all these and other ridleys that spend part of the year in Ecuadorian waters? Are there significant interchanges between nesting playas in Costa Rica and Panama by the turtles, or just an incidental occurance of little biological and management importance?

There are many questions that need to be answered about the Pacific ridley, and it appears that no one country alone can manage the species without affecting other countries. The sea turtle resources of the Pacific coast are much like a migratory bird resource that spends the year in a number of countries and must be managed accordingly to assure a continuing supply for everyone.

At any rate, we are most interested in the sea turtle efforts of Panama and will try and assist you as we can. Please let me know if you would be interested in starting a tagging effort and we will try and help you with obtaining the equipment needed. Please don't hesitate to contact Dr. Robinson or Steve Cornelius in Costa Rica if you believe they may be able to assist or provide you information.

Project funding sources may be available from private organizations, but it will require that you provide a project proposal of what it is you wish to do and how it will benefit the resource through your management or scientific studies.

I look forward to your reply.

Jack B. Woody Acting Assistant Regional Director Federal Assistance & Fisheries

Enclosures

(w/o enclosures) Steve Cornelius/Doug Robinson Georgita Ruiz Nancy Hammond George Balazs Curt Freese Archie Carr

J. Hendrickson

SE (RO)



mailety 18 + Balans

GOVERNMENT OF THE VIRGIN ISLANDS OF THE UNITED STATES

Department of Conservation and Cultural Affairs
Division of Fish and Wildlife

BOX 1878, FREDERIKSTED ST. CROIX, U.S. VIRGIN ISLANDS 00840 6 august

Dear Sir,

I would appreciate a copy of the October 80

NOAA/NMFS Technical Memorandum: SYNOPSIS OF BIOLOGICAC

DATA ON THE GREEN TURTLE IN THE HAWAHAN ISLANDS by george

H. Balazs. (NOAA -TM -NMFS-SWFC-7). Thank you. I am

Sincerely, Karen Eckert

AUG | I | U 27 AM TR7 HONOLLU LABOTITORY

University of Toronto

DEPARTMENT OF ZOOLOGY

RAMSAY WRIGHT ZOOLOGICAL LABORATORIES 25 HARBORD ST. TORONTO 5, ONTARIO, CANADA

August 11, 1982

Mr. G.H. Balazs
Hawaii Institute of Marine Biology
P.O. Box 1346
Kaneohe, Hawaii 96794
U.S.A.

Dear George,

I have thought further about your proposal for a list of turtle stamps, and have consulted one or two people also, but am still not prepared to take the list. There are various reasons. Our funds are not limitless, and at 3½ pages I do not think it justified. We do sometimes print reports on new issues of stamps, but that takes only a little space. Also I want to keep the MTN with more emphasis on biology and direct conservation actions, and as topical as I can. We could have articles on a lot of past things related to turtles. Why not one on Bernini's turtle fountain? or turtles in art? I am faced with making decisions about what to include and I hope that at least you will be grateful for the immediate replies given to you and Gomez on this matter.

I'm sure you could find somewhere else for your list, maybe something like the Tortgua gazette. Of course I would reconsider it when I saw the list, and try to be open-minded, but I do not want to encourage you at all. I would be happy to list it in the recent papers section, and interested people can follow up. That is one of the functions of the MTN, to tell people what is going on, who to contact, what literature is available. We cannot publish full accounts of everything.

With best wishes,

Yours sincerely,

Nicholas Mrosovsky

NM/jr



INTERNATIONAL TURTLE & TORTOISE FOUNDATION Publishers of Chelonologica

I.T.T.F. P.O. Box 125 8700 AC Bolsward The Nederlands

reference:

date:

Phone: 05157-2795

Dear Member:

In the first issue of the REVIEW (1981) we have asked for financial support and we announced that we would contact local and international institutions in order to get the so badly needed financial back-up.

Since that time all our efforts to get this support were unsuccessful what means that it is impossible to continue any longer publishing periodicals and other publications.

Not only the finances as mentioned did us decide to stopp all activities, but, also the number of members, right this moment 125, made this decision necessary. Furthermore, ITTF got very little support from other societies and institutions.

Nearly 500 of them we have written to of which only 5% responded. The same counts for the more then 150 authors we have written to. Besides these arguments also the number of manuscripts which were received by us for publication was very limited and not even enough to produce two or three issues of CHELONOLOGICA. Therefore, ITTF has stopped all activities and will produce no longer any publications.

Because there is no money left for refunding to you, we have decided that those who have paid 1981 dues and who do not have back-issues of CHELONOLOGICA to send them the available four issues. Those who do already have all issues of CHELONOLOGICA we have to disappoint.

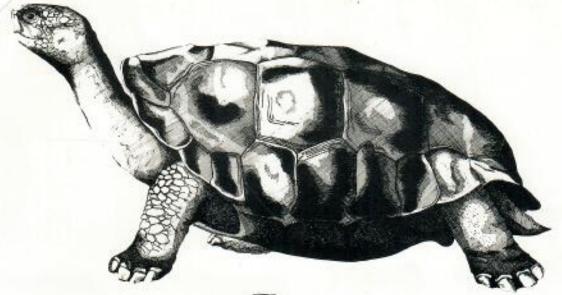
We regret that this is the only way to give some compensation for the inconvenience you have had. Back-issues and other publications will be available as long as stock lasts.

Finally we would like to thank you for having joined ITTF and all ITTF Staff-members for the work they have done.

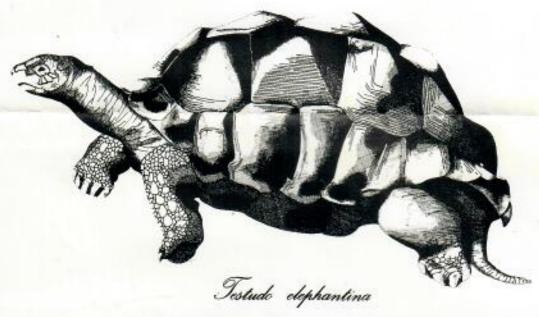
The ITTF Board of Directors.

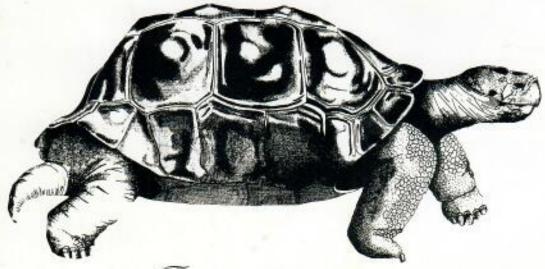
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Testudo daudinii

bc - Dr. G.H. Balaze

Mrs Aban Marker Kabraji
Principal Investigator
Marine Turtle Conservation
Project
Sind Wildlife Management Board
PO Box No. 3722
Karachi
PAKISTAM

Gland, 13 August 1982

Re: Project 1451 - Pakistan, Sind Wildlife Turtle Conservation Programme

Dear Mrs. Kabraji,

We have received a number of very constructive comments on the technical questions raised in annual reports for 1981. As the news of the IUCN reviewers should be kept confidential will quote relevant sections from correspondence without mentioning the source;

- (1) "The extended incubation times mentioned on page 3 of the report are certainly abnormal. Incubation time in sea turtle eggs is directly related to incubation temperature. A lot of work has been done on this subject lately in relation to adverse impacts of sex determination unknowingly resulting from "conservation" hatchery projects. The enclosed article that recently appeared in Science will bring you up to date on this subject."
- "The repeated use of a beach area for hatchery work should not cause contamination (from "rotting" eggs) under normal circumstances. Of course, the site selected should be nearly identical to the natural beach and have good drainage (percolation) of rain water down through the sand. This will serve to continually cleanse the substrate. Also, the unhatched remains of nests should be taken out and discarded elsewhere on a regular basis. The flooding problem mentioned in the report makes we wonder if the site selected is indeed adequate."
- (3) The hatching (survival?) rate of 31% (56,726 hatchlings from 183,250 eggs) is exceedingly low. I am unable to understand the "seasonal variation" explanation given for this. Does this pattern follow the natural, undisturbed nests?

- (4) "A delay of up to 12 hours between egg laying and reburying is probably excessive. If at all possible, the transfer should be accomplished within a few hours. Care should be taken to not excessively rotate the eggs."
- (5) "The reason stated for moving the eggs in the first place is to circumvent natural predation. How extensive is this natural predation? Approximately what per cent of the eggs and hatchlings would be preyed upon under natural conditions? Possibly it would be better to leave the nests where they are laid. As stressed in the enclosed <u>Science</u> article, we shouldn't be moving eggs around if there is not a very clear and proven need to do so."

Furthermore it has been suggested that we should urge the Governmor of Sind to shift the planned housing colony away from the nesting beaches. Do you feel that WWF/IUCN should help by writing a letter of intervention?

We have not been able to find a suitable scale to weigh the turtles (re Sue Howlett's letter of 3 August to Miss Firdous). The weighing of adult nesting turtles is, apparently, stressful and potentially harmful and I wonder if we could drop this item of equipment.

Could we perhaps receive your financial agport as requested in my letter of 8 June 1982? (Please note that the period of the report should be 1981 tod not 1982).

Last year (at your suggestion) we asked the editor of the SSC Turtle Wewsletter to publish an invitation for sea turtle experts to visit your project to exchange information. Did you receive any such visits?

We look forward to receiving your reply.

Kind regards,

Yours sincerely,

Anton K.C. Fernhout WWF/IUCN Project Manager ASIA, PACIFIC and OCEANIA

request - JoHnston Atoll 25 guly 82 George -Thanks for sending a separint of your FFS tracking paper. I enjoyed reading it & look forward to the next paper detailing behavior. The male sitefighty is an interesting point. Between youx Limpus we should soon have a pretty good understanding of movements off nesting beaches, I have enclosed a copy of my comments on the secovery plan, not much to say really, I think by the time they had all argued the point back & forth, nothing very controversias could emerge. seems to me to be pretly straightforward. They didn't give us much time. In the cover letter dated 7 July that came w/ the book they said they needed comments hack by 26 July. as you've noticed, I'm sure we just don't work on that kind of schedule here! in printing. Larry Egren spoke w/ Costa Keia (when they're being printed on Friday 23 July, & they had just received the first one from the printer. Not bound yet. They should now be out soon your cover picture on Pacific "is great, George. Will you be switching from NMFS to file - lance photography alan is going to give a paper on his pesticede grant to the national apiculture meetings, I will send you our itenerary, a ask for hotel suggestions, when it's formalist so early the other monning Now are you so lucky to avoid Dayleght Lavings? Best regarded



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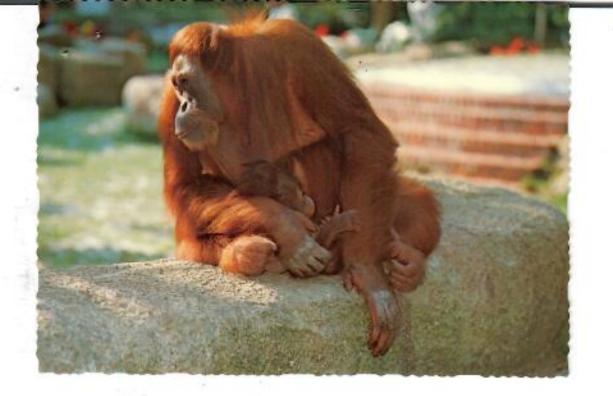
KOALA.

Australian Native Bear.

Australian Native Bear.

The koals is one of the best loved of all Australian animals, but although it is often referred to as a bear it is, in fact, distantly related to the Possum family. The name koals is an abongmal word which means no drink', and it was given to this animal because it very soldom drinks water, but gets moisture from the daw and sap in its eucalyptus last det. It eats a great deal and spends practically all its time in the treetops. The newly-born beby koals measures less than 25 millimetres in langth and remains in the mother's pouch for six months before amerging to ride on her back for a further eight wooks. Found only in the eucalyptus forests of eastern Australia, the koals is carefully protected and preserved.

W591



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"Meng Meng" the female orang utan with baby born during captivity at the Singapore Zoological Gardens. The orang utan is a fast disappearing species in South East Asia.

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31st May, 1982.

George H. Balazs, DBA Hawaiian Wildlife Photography, 992-A Awaawaanoa Place, HONOLULU. HAWAII 96825.

Dear Sir.

Thank you for your aerogramme dated 20th May regarding souvenir postcards.

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However, as your enquiry would involve an export market, there would be a fairly substantial discount on these prices, probably in the order of 20% - 25%.

by up to 10% more or less than that ordered.

To produce postcards we work from 120mm transparencies using ektachrome film. This is mostly taken through a pink filter to sharpen up the image. Would you please advise if you can supply this type of transparency or if you can get a professional photographer to supply this type of photography, or would your quantities warrant one of our photographers coming to your area to take the necessary photographs.

We enclose some samples of our cards for you to judge the quality.

Yours faithfully, MURRAY VIEWS PTY. LTD.

P.J. Fair, SALES MANAGER.

PFJ:LJ

Enc.

1 aug 1982 Sear George -Fred Berry just called me & asked whether I would be interested in editing the Conservation Manual for a 2nd edition-to be much improved. a few months ago Fred Lang Ogsen, archie, anniex el had a meeting at which we all agreed you should be asked to perform this task. Fred tells me that at that time you weren't sure. I started to tell him that I didn't feel I had the time to do a good job, but then he said that his 2 alternatives after you & me are Mrosersky + Peter Bacon! The latter has unfortunately, been restationed in the Careb-Dean- Jamaica this time. I really felt that we should avoid this fate. Therefore, I quickly back peddled a said that the 2 of us could probably handle it. He want the sevised addition by med-fan for approval after the pina Committee approval at a thering Committee meeting. I have do you think It Carris new secretary is very good of can use the defartment's word processor for any + all revisions & fevising is always easier than assembling the whole thing

from scratch. Fred hopes there will be \$2-3000 from FAO to cover costs. If not we can invoice WATS from here for secretarie perox, etc. Il know we both have better ways to spend our time. Copies are in the mail to us now. I told Fred I'd take a look at it & contact you & get back with him. What do you think? If you feel you would like to handle it yourself, please, by all means, he my quest. I talked Fred out of approaching Nicholas until after he hears a "no" from us. I did it nicely, of course, If we do it, I want us to be free of leter Bacon so we should let Ived know before he settless w/ leter. I'll be in Canada from 8-11 August. If you agree to you doing it alone or w/ me, let Fred know & let me know. Lorry fox abrupt letter but I'm off to two more Biomas Meetings - pity my fate! We could divide the work any way you see fit & perhaps farm out specified sections - Best ways for aerial surveys for example. The Recovery Plan may have some info for us along these lines best regards

August 6, 1982 Dear George thanks for the impetus on the Humane Hints for turtles. with one, but not along the lines you've thinking. We will now do it! Hawaiian Humane Society Hawaiian Hunane Society 2700 Waialas Avenue 1 Honolulu, Hawaii 96826



Mr. George Balays NMFS P.O.Box 3830 Honotulie, He: 96812



1601 CONNECTICUT AVENUE, N.W. WASHINGTON, D.C. 20009 CABLE: PANDAFUND TELEX: 64505 TELEPHONE: (202) 387-0800

July 30, 1982

Dr. George Balazs Hawaii Institute of Marine Sciences Kaneohe, Hawaii 96744

Dear George:

I have just received the enclosed letter from Steve Cornelius which I hope will be of interest to you.

At the bottom of page 2, Steve asks for an opinion on the proposed controlled harvest of sea turtle eggs at Ostional. Before replying to Steve on this point, I would like to have your guidance. While I am willing to be persuaded otherwise, my immediate reaction is that WWF probably should not promote harvest of sea turtle eggs in Costa Rica. Even if a controlled harvest were biologically defensible, it seems from Steve's letter that such a position would put us at odds with conservationists in Costa Rica and perhaps set a precedent we don't want to set.

I would appreciate having your thoughts on this.

Sincerely,

Nancy E. Hammond Project Administrator

cc: Letter

NEH/fkr

«ERSIDAD DE COSTA RICA adad Universitaria Rodrigo Facio Costa Rica, América Central

19 July 1982

Ms. Nancy Hammond
Project Administrator
World Wildlife Fund-U.S.
1601 Connecticut Ave., N.W.
Washington, D.C. 20009
E.E.U.U.

Dear Nancy:

I felt it worthwhile to take a little time and let you know that I arrived in Costa Rica as planned on the 6th and most remarkably all my baggage was on the same plane! This is the first time I haven't had to wait a week or more for my gear to catch up with me. Dr. Robinson had a university vehicle waiting for me which was to prove the first of several indications that the university administration is realizing the stability and importance of the project. Other signs include the sea turtle biology and conservation course approved for this semester which has at present 18 students enrolled, an offer from the computation center to install a remote terminal for our use, and full professorship status for Dr. Robinson in part granted for his turtle activities.

During the hast 6 months the new computer at the university has come on line and in May was opened for faculty use. This already has made a very real difference in our ability to enter, manipulate and retrieve data. DCR has hired an office assistent who very competently attends to such matters as reward payments, archiving distant return information, and preparing field data for input. His salary is paid for by the project through the university account we established last year. We have a new field assistent at Ostional who is a recent graduate of UCR in wildlife (B.S.). I've met him and am quite suresef his interest and capacity to perform the work and survive the rigors of living at that beach. In fact, all the students (2) and assistents (2) involved in the project at present are top notch.

Last week I made a short preliminary trip to Nancite to catch a small arribada (2-4 thousand). Arribadas occurred in December, February, March April, and May during my absence. All were relatively small but nothing to worried about since they occurred during the dry season. The park guards again made a reasonable effort over the past 7 months to record track counts, and arribada and hatchling emergences. The Nancite field station, funded by a grant by the Caribbean Conservation Corporation, has finally been started. Building materials were landed by boat several months ago but actual construction has been slowed by rains. I have no idea of when it might be completed and frankly expect to live out of my tent most of the season.

Also last week I had an opportunity to visit Ostional, the first time since 1971. I came away with a greater appreciation for the difficulties in working at that study site, especially the problem of access. Although we (DCR and 3 students) were able to drive directly to the beach because of a 2 week dry spell, a ½ day rain would easily make the last 10 km cart trail impassible by vehicle. The UCR truck which brought us in had to leave the same day so when we departed 2 days later and by a different route, it required walking

7 km on a mud path across 3 rivers (low water atthis time of the year but often raging torrents in the height of the rainy season) to the small town of Nosara. To reach the bus from there to Nicoya in time meant leaving Ostional at 3:30 in the morning. By the time we had bounced along in an ancient school bus to Nicoya, waited 6 hours for the last bus to San Jose which arrived in the capitol at 10:30 p.m. 19 hours had elapsed since we left the beach. Although Nancite is also very isolated, it can normally be reached in 7-8 hours from San Jose with cooperation of the park for use of horses. It seems astonding to me that DCR has been as successful as he has in getting students into stional on short notice of arribadas. Even more amazing is that the same ones often agree to go back again! The problem of access would be alleviated considerably if a small airstrip near the town were cleared and repaired.

While in Ostional we had a formal meeting with the community (a proximately 50 residents attended) and discussed a variety of topics including the reasons for the university presence at the beach and the research effort, status of the turtle population and the community's most recent attempt to organize a cooperative to permit a legal controlled harvest of turtle eggs-This is nothing new as the idea has been around for over a decade. The main hurdle for them remains the simple fact that at least 3 existing laws would have to be amended to exempt Ostional from the prohibition on turtle egg collection. This continues to be very unlikely for political measons. We are somewhat caught in the middle of the controversy because of our suspicion that the justification for permitting the harvest may be biologically sound. Production at Nancite, a totally protected beach, is very low with an estimated hatch rate of 5% maximum (last year I estimated it at less that 1%). This is due to a combination of factors, all of which were outlined in our last report, but which principally involves nest destruction by the turtles themselves, disruption of incubation by fungus and bacteria, and to some degree predation by large animals. We strongly suspect that the same situation is occurring at Ostional. Unfortunately, because of long-standing hostility and misconceptions on the part of the community toward the university workers, we have never been able to gather the data necessary to determine whether this is so or not. The most positive result of our meeting with the community was that the tension and distrust which last year culminated in an attack upon our field assistent has been lessened considerably. For the first time it appears possible that we may be able to start gathering some data similar to that taken routinely at Nancite (such as systematic quadrat counts of nesting turtles and capture of hatchlings for production estimation purposes) without interference from the egg collectors. It remains to be seen how outsiders who converge on the beach during arribadas will affect this attempt. I should add that even if production data show that hatching success is equally low as that at hancite and that the egg collecting is having little adverse impact, acceptance of the cooperative idea would not necessarily be forthcoming. Costa Rican conservationists would have a difficult time accepting it as I suspect would those from the international community. The history of "stional has repeatedly shown that the placement of large numbers of armed guards at the beach has only temporatily halted the gathering of eggs while causing deep resentment and ill-will in the community and in one unfortunate case, even loss of life. I have overly simplified this complex situation but hope I have brought into focus some of the difficulties we face. Any comment from you on the above would be very welcome, i.e. how wwf night Diew a program of

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We learned of one other problem in Ustional which might be turned to our advantage. The project has been renting a house in the community for 3 years for use by the assistent permenently stationed there and visiting students. At present it sleeps 8, has a spacious kitchen and running water. Shower, latrine and clothes washing facilities are apart from the house. It sits on a large lot near the nesting beach (although well outside the 200 m limetprohibiting private wwnership of land). The owner has indicated that she wishes to sell the property, which if purchased by someone who either wished to live in it themself or who did not care to continue renting it to the university, would leave us without a shelter. There do not appear to be any other available dwellings for rent in the community. The present asking price is apparently \$50,000 or about \$800 at the current exchange rate. What we propose is to reallocate funds from our operating budget to purchase the house and lot through the university. The legal owner would be the University of Costa Rica which would have several advantages such as use of carpinters for improvements and maintenence. Such an a rangement would also permit us to leave equipment at the house for brief periods unattended. We have not contacted university officials on this matter pending a) a firm asking price from the owner and b) approval from you and WWF on such a reallocation of the funds. I should add that we feel that we can do this without too seriously affecting our ability to ment operating costs because of the chaotic exchange rate. One year ago the & bought 24 colones. At present it buys \$63. In other works our dollars are being stretched 3X as fare A quick answer on this request will be appreciated.

As I mentioned in my last letter to you before leaving Missouri, we would like to submit a proposal to WWF to cover the equipment costs for our two graduate students' field work. This would begin early next year. Could you send Dr. Robinson the proposal forms at the following address: Dr. D.C. Robinson Escuela de Biologia Universidad de Costa Rica Ciudad Universitaria, Costa Rica

You will be kept informed of events here periodically over the next 5 months. I neglected to note the due date on the progress report but believe I recall it being in mid-September. If this is incorrect, please advise. Also will the review board be meeting at thesame times this year as last to consider grant proposals?

With best regards,

Steve

Steve Cornelius Parque National Santa Rosa Apartado 169 Liberia, Ste.

I've endowed some information for your files including a preliminary listing it chronological events at ostronal a want to during the post 12 gears plus a series newspaper orticles which have appeared over the post of months concerning too this in C.R., Perhaps Cirt Freeze could printly translate then for you.

CHRONOLOGY OF IMPORTANT EVENTS AT PLAYAS OSTIONAL AND NANCITE

Fall .	1969	D.C. Robinson is notified of clive ridley arribadas at Playa Ostional by Peace Corps Volunteer (PCV) J. Hyslop.
Fall	1970	J.D. Richard and D.A. Hughes locate large fleets of turtles congregateed off Ostional and Nancite during a survey of Pacific coast.
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Fall	1971	D.A. Hughes initiates tagging study at Nancite with funding from National Geographic Society.
Fall	1971	Robinson initiates tagging study at Ostional under auspices of University of Costa Rica (UCR) with funding and personel support from Peace Corps.
November	1971	Robinson begins effort to obtain land for field station at Ostional.
April	1972	Rights to small parcel of land obtained by Robinson from resident of Ostional.
August	1972	S.E. Cornelius constructs small field station at Nancite with personal funds and continues tagging study.
August	1972	Robinson continues study at Ostional with UCR and PCV.
September	1972	Hyslop publishes "Muchas Tortugas", International Wildlife.
November	1972	Robinson constructs field station at Ostional with funds from UCR.
	1972	Richard and Hughes publish "Some observations of sea turtle nesting activity in Costa Rica", Marine Biology 16:297-309.
July	1973	Robinson, McDuffie, Cornelius present. "Reproductive activity of the Pacific Ridley sea turtle", 53rd meeting of Am. oc. Icht. and Herp. in San Jose.
September	1973	Hughes publishes "Arribada", Audubon 75.
Aug-Nov.	1973	Hughes and Cornelius continue study at Mancite.
October	1973	P. Zahl publishes "One strange night on a turtle beach", <u>National Geographic</u> 147.
1973	-197.4	Robinson with help from PCV, UCR students and students from the Associated Colleges of the Midwest program continues studies at Ostional

	1974	Hughes and Richard publish "The nesting of the Pacific Ridley sea turtle at Playa Nancite", Marine Biology 24:97-107.
1974	-1976	Reduced UCR presence at Ostional.
1974	-1979	No scientific presence at Nancite.
September	1976	Hughes publishes "Ridley arribada", Sea Frontiers 22:2.
1977	-1978	Robinson reinitiates tagging program at Ostional with funds from UCR.
March	1977	Coastal Zone Law (4558) changed placing responsibility for shoreline protection in the hands of C.R. Tourist Institute.
June	1978	Obligatory Community Work (TCU) program for UCR students expanded to include several projects in Ostional to offer the residents an alternative cash crop to the turtle egg commerce.
Spring	1979	Talks begun between UCR and Ministry of Agricultura (MAG) concerning construction, operation and maintenence of a new field station at Ostional.
November	1979	Caribbean Conservation Corporation offers to fund construction of a new field station at Nancite.
Мау	1980	Formal contract drawn up between UCR and General Direction of Fisheries and Wildlife of MAG to develop a program of sea turtle investigation at Ostional.
Fall	1980	C.R. National Parks Foundation receives donation of \$300,000 for construction of new field station at Nancite.
July	1980	Cornelius and Robinson begin present studies at Ostional and Nancite on ridley abundance, distrubution and movements under contract granted by U.S. Fish and Wildlife Service.
Fall	1980	Old field station abandoned and house rented in Ostional for field personel.
November	1980	UCR refuses to sign contract with MAG for Ostional field station until legal ownership of property is clarified. Eventually determined that property lies within 200 m of shore eliminating possibility of university ownership.
November	1980	R. Acuña completes thesis on reproductive aspects of olive ridleys at Ostional.
Spring	1981	Fisheries and Wildlife are reorganized into separate departments within MAG which confuses issue as to which is responsible for sea turtles.
July	1981	Colegio de Biologos (an organization of professional biologists) receives a donation of \$3600 from Animal Protection Institute for sea turtle protection in C.R.

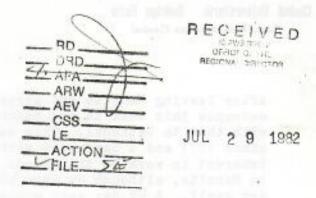
July	1981	Cornelius and Robinson receive a second grant to continue studies at Ostional and Nancite.
Fall	1981	MAG postpones involvement in cooperative program with UCR because of confusion over jurisdiction within the Ministry over whether Fisheries or Wildlife is the responsible
		agency.
November	1981	F. $Crast_{\rm Z}$ completes thesis on embryonic development of olive ridleys at Ostional and Nancite.
November	1981	Town of Ostional proposes a project to permit formation of a cooperative to exploit turtle eggs at Ostional. Colegio de Biologos, C.R. Association for the Conservation of Nature (ASCONA) and MAG oppose project because it would violate existing laws.
Fall	1981	Anonomous article in Mainstream, "A test of survival for the Pacific Ridley" dealing with Ostional.
January	1982	Presidential decree 13200-A signed declaring Ostional a "protected area" with the Department of Fisheries as the responsible agency.
February	1982	Construction begins on new Nancite field station.
Spring	1982	Proposed change in wildlife law would place responsibility for all refuges in the hands of the Wildlife Department.
June	1982	New decree proposed that would change definition of Ostional from "protected area" to "refuge". Responsible agency not specified.
July	1982	Cornelius and Robinson begin third year of study with extension of funding from USFWS and new grant from World Wildlife Fund.
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19 July 1982

Mr. Jack Woody Endangered Species Office U.S. Fish and Wildlife Service P.O. Box 1306 Albuquerque, NM 87103

Dear Jack,



Arrived with all my gear on the 6th. Doug had a University vehicle waiting which was the first of several positive signs I was to see over the next couple days that the university administration was realizing the stability and importance of the project. Others included the sea turtle biology and conservation course approved for this semester with 18 students signed up; an offer from the computation center of a remote terminal for the project; and full professorship for DCR in part granted for his turtle activities.

During the last 6 months the new computer has come on line and in May was opened for faculty use. This has already made a very real difference in our spility to retrieve and enter data. BCN has hired an office assistent who very competently attends to such matters as reward payments, archiving distance return information, and preparing field data for input to the computer. His salary is paid for by the project through the university account we established last year. We have a new person at Ostional who is a graduate of UCR in wildlife (B.S.). Ive met him and am quite sure of his interest and capacity to perform the work and survive the rigors of living at that beach. In fact, all the students (2) and assistents (2) Doug has gathered together since the first of the year are top notch.

Last week I made a short trip to Nancite by land to catch a small arribada (2-4 thousand). The guards again made a reasonable effort over the past 7 months to record track counts, arribada dates and hatchling emergences. They also did some tagging of leatherbacks at Naranjo. Arribadas occurred in December, February, March-April, and May. All waxs weere relatively small but nothing to be worried about.

Materials for the field station at Mancite where brought in by boat over a 3 month period beginning in February. There were a couple mishaps. The last boat capsized in the breakers and all contents lost. Parks hasapparently willing to pick up the replacement costs (\$20,000). They have already spent about \$450,000. The grant, because it was given to them by CCC in colones at a time when the exchange rate was 15 to 1, amounted to only \$300,000. Possibly of greater concern as far as missing materials are the 6 concrete columns that were buried in the beach by high winds and a 10 day storm in mid-May. The guards have probed and dug for them, thus far unsuccessfully. I am satisfied with the site itself, which is approximately 250 m from the center of the beach. Nevertheless, a board wakk of some sort will eventually be necessary to aid in reaching the beach, since about 150 m of the trail will be covered by the estuary by mid September. The structure will be prefab concrete with much screening and aspestes roofing. It is much larger than I anticipated being in the form of a "T" with 20'X 20' stem connecting to a 60'X18' top. Because the rain will undoubledly slow work, I have no idea when it will be finished. I famnkly expect to spend most of the season in my tent.

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> After leaving Nancite and arranging for a boat and operator for my entrance this week to the beach, I met Doug and 3 students and traveled with them to Ostional. This was the first time back to Ostional for me since 1971 and I came away with a greater appreciation for the difficulties inherent in working this study area. Access is often more difficult than to Nancite, although we were able to drive to the beach because of a 2 week dry spell. A 1/2 day rain would make the last 10 km unpassable in a vehicle. The UCR truck which brought us in left the same day so when we departed 2 days later and by a different route, it required walking 7 km on a mud path across 3 rivers (low water at this time of the year but maging torrents later on in the height of the wet season) starting at 3:30 in the morning in order to catch the bus at Nosara. The 4 hour roller-coaster ride to Nicoya on an ancient school bus with no suspension, a dead battery, and leaky radiator was undoubtedly the most uncomfortable I've ever taken in C.R. We had to wait 6 hours in Nicoya for the next bus with space to get back to San Jose. We reached S.J. at 10:15 pm, 19 hours after leaving Ostional. In comparison, with proper advance warning to the park in Santa Rosa for a ride in from the highway and horses ready, it is possible to reach Nancite in 7-8 hours from San Jose. It seems astonding to me that Doug has been as successful as he has in getting students into Ostional on short notice of arribadas. Even more amazing is that the same ones would agree to go back a second time!

While in Ostional we had a meeting with the community concerning turtles, the universities activities and their most recent attempt to organize a cooperative to permit a legal controlled harvest of turtle eggs. The main hurdle for them remains the simple fact that at least 3 laws would have to be amended to exempt Ostional from the prohibition on turtle egg collection. This seems very unlikely at the moment. The most positive result of the meeting was an indication of: a gradual acceptance that the tagging project is not in fact harming the turtles, that university presence at the beach will be continuing and that the hostility shown in the past was counterproductive to their efforts at forming a cooperative. What this appears to suggest is that for the first time we may be able to start gathering some data similar to that taken routinely at Nancite (such as systematic quadrat sounts of turtles on the beach and capture of hatchlings for production estimation purposes) without interference from the local community. It remain to be seen how outsiders who converge on the beach during arribadas will affect this attempt.

Returns of tags from other locales continues with 85 presently registered, of which 36 have come from outside Costa Rican waters. Turtles continue to be harvested in Ecuador, in spite of the ban, but are off-loaded in Colombia for storage and/shipment to Japan and Italy. This information in considerable detail was offered by an Ecuadorean fisherman who returned a tag. Another interesting recovery occurred at Escobilla. The first time for this.

The currency situation is as chotic as last year, actually more so. The dollar now buys \$60-65, compared to 24 at this time a year ago. Prices are quickly adjusting however and thus partially discounting the increased value of the \$. A good example was the cost of my room at Playas del Coco last week. Last year it was \$50, approximately \$2 at that time. This year the same exact room took me for \$375 or \$6.25 at the current exchange rate! I frankly don't see how those living strictly on colones are making it.

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> I leave next Thursday (22 July) in a Park Service truck to Phayas del Coco and the following day on boat to Nancite. The day I go in is always the most critical of the season so hope for calm waters and a boatman who can count to seven.

Hope things have turned around for the better at Rancho Nuevo.

Best regards,

Also included is a preliminary listing of events as they have occurred at ostimal + Namenta during the past 12 years, also a series of newspaper articles from the list 10 months.

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studies at Ostional

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January	1982	Presidential decree 15200-A signed declaring Ostional a "protected area" with the Department of Fisheries as the responsible agency.
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July	1982	Cornelius and Robinson begin third year of study with extension of funding from USFWS and new grant from World Wildlife Fund.

11 3

Dear George,

Sorry not to have replied to your letter of June 30. The problem of the 'numerous but endangered' species is to be discussed at the next SSC meeting - Kuala Lumpur October 4. Are you going to be there?

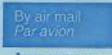
Later: I have just looked at the latest list of participants and see you are not there, which is sad. Who will speak for marine turtles? Gren Lucas has been told your and Archie's views about down-grading turtles and promises 'to put it right'.

Yours

Maisin

PS Many thanks for the latest material you sent - I am very glad to have it.

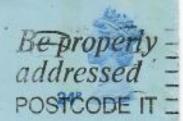
PPS i am not sure how for you have
Taken your protests on twetter, but i
think it might be a good thing for you
thehie too - to write direct to
Gren Lucas - The Herbarnin, Rayal
Botanie Gardens, Kow, Richmand, Gurrey
Twg 3 AB.



Aerogramme

Royal Mail





Dr Seorge H Balags Hawaii Institute 1 Javin Biology PO Box 1346 Kaneohe. Hawaii 96744 USA

Sender's name and addre	355
Postcode	

An aerogramme should not contain any enclosure

To open sit here

To open slit here



August 9, 1982

George Balazs
Hawaii Institute of Marine Biology
P.O. Box 1346
Kaneohe, HI 96744

Dear George:

Thanks for your letter of July 28. I have enclosed a copy of comments I submitted to the SE Recovery Team regarding their technical draft. As you can see, I have formally suggested that they call for the establishment of a team for the East Pacific. I have also stressed this in conversations with a number of the team members.

We continue to pursue the idea of a patch. Actually, we have expanded the idea to include posters and brochures. I don't know whether we shall be able to fund all of it this year, but at least we can get a start.

Keep in touch!

1 who

Sea Turtle Rescue Fund Director

Talked with Fack Woody regarding income! tags and possible joint sponorship (funding) of the first production batch. He is willing to kick it some bucks and will see what other agencies (institutions can contribute. We are willing (SEFC) to participate of course, having suggested to do so in the past, and having suggested to do so in the past, and having blessing of program mays. Will send you any unfo as this develops over the coming year.

Please show John Burchard problem with trawlers in arabian watere. Confidentiality is too strong a word to use regarding this information. Courtery to authors if they decided

to re-write is mainly what I had in mind (and roff- the record clearance from them). But of just talked with John Watson today and he said the rewrote it as suggestions dictaled for Biol Conserv and the editor responded that he recewed Ms. So it should come out fairly soon. We are swamping that formal! With sea turlles! Karen B. and anne Meylan had two loggerhead papers approved for publication by Duffy this past week.

I was just over at gainesville but working or WATS. We did mention the meeting proposed for the SSC group and problems with travel funds. Never heard anything form on where or when (Carr and associates are very sury as usual what with contracts conservation and college = CCC). 20 you personally

Fred Kerry & I discussed editorial needs Goily manual on conservation: " I recommended that the? you or and karen be asked to take on this task if you could or would. Hope you say yes. I will send you a few copies -

copy of to

Bob bankford in San Jole said he put 600 on a plane today and I should get them next week.

Sally Hopkins agreed to another session in September ca. 20th Send yours comments if you want to me and Sally. I will see that they are put in. We really tore into the draft last week you won't recognize it. Karen supplied you won't recognize it. Karen supplied some too. Sometimes there is not enough time to review stuff - we enough time to review stuff - we understand if you don't have time. It your won't it your went to hear about it, your wiput is always good to some about it, your wiput is always good to some short it, your wiput is always good to some short it, your wiput is always good to some short it, your wiput is always good to some short it, your wiput is always good to some

got to go now. Looks like I'll be working in Colombia net week. They (INDERENA, grot. Fish-wedlife tolks) will provide me with a pilot and plane and INVEMAR Kaufmon's old institution in Santa Marta will provide a counterpart biologist. At last, grassroots taking hold! Keepin touch Googe Best ever Jarry

8/9/82 Panama City Florida Group -I degested all the very interesting correspondence re status review for the green. You do good work -No question about it. Don't get exasperated over your bellow civil servants. They don't always have the luxury of having one-track-minds like you and me. They do need your thorough up-dates from time to time, and should appreciate your efforts to be timely etc. However, they might not have the exposure we had to good solid conservationists like A. Carry and certainly have other species to consider besides turller, including fishermen. your arguments are solid, however, and Clyde Tones response should put the question of status review for greens at rest for another year. your responses to these

these questions will be held in suparate file for my reading only. Thank you. Latest on TED (now called Traveling Effeciency Device) most testing in maitin hydrodymanics of met rather rough -Acaled-down tests, scheduled for flume studies in England, Data will point out better spread at reduced versel speed (rpms), (2) molded plastic model with fiberglass rods. being designed by Plastics firm is east that specialyes in fishing equipment (baskets, troup, traps, etc.) Should be much lighter and tougher, too. I always thought the steel frame was to heavy and cumbersome. Hope cost of plastic model not too ligh. Prototypes (4 models) will be tested at sea, here in Panama Cely, in October 82. Will send gon pictures. (over)

Just heard from Clune Neylow that it is a big year at Tortuguero - a converguer of several remigration interval groups apparently as was predicted. Carr is at Tortuguero until Med-august ca 13th also, anne was invited by oil consortium in Panama (Solio, arco and Exon) to meet with them, September re mitigating measures to be taken in Laguna, de Chirigini, site of their och pipeline terminal. This was a direct result of her one-lady campaign last month. The should be congratuality for her Finally, Jack Woody Fred Berry and Larry Ogiern are in agreement that the ted (and other interested agencies/institutions) should fund the incomel-625 tag production for the first "printing" Tust how successful we will be in putting together the \$50 Kt package during the \$3 depression remains to be determined! Best wer

QLIB DFILE

RECEIVED

AUG 5 1982

BUTHOMAL MANINE PRINSMES PLEVIOR Daneres Ster faberstett Panama City, Florida

INTRODUCTION

The chartered vessel, Jeanie completed cruise JE-04-82(1) on April 14, 1982 in Ft. Myers, Florida. The objectives of the cruise were to:

- 1. Evaluate the top opening TED on pink shrimp grounds off the west coast of Florida.
 - Evaluate a commercially produced TED.
- 3. Test the effectiveness of the top opening TED design for reducing loggerhead sponge bycatch.

METHODS

Comparative tows were made between a standard rigged 65' Mongoose trawl on one side of the vessel and a 65' Mongoose with a top opening TED installed on the opposite side. Comparative tows were also made between a 65' Mongoose rigged with a commercial model TED with 3" bar spacing and a 65' Mongoose rigged with the NMFS design TED with a 6" bar spacing. The trawls were spread with 9' x 40" otter doors employing 50 fathom bridles and were rigged with standard loop chain and 1/4" tickler chains set 36" shorter than the footrope. Testing was conducted on pink shrimp grounds in 5-10 fathoms of water off Ft. Myers, Florida. The catches from each net were weighed and bycatch samples taken. Data were collected on shrimp catch rates, finfish catch rates, and catch rates for loggerhead sponge.

RESULTS

1. Comparative results between NMFS TED with 6" bar spacing and standard rigged trawl.

Shrimp Catch Rates (N=12)

Standard TED 246 lbs. 223 1bs. Total Catch 6.8 1bs/hr. 6.1 1bs/hr. Mean Catch

Finfish Catch Rates (N=12)

Standard TED 2.018 lbs. Total Catch 1,547 lbs. 56 1bs/hr. 43 1bs/hr. Mean Catch

Loggerhead Sponge Catch Rates (N=12)

TED Standard

Total Catch 50 lbs. 1862 lbs. Mean Catch 5 lbs/tow 186 lbs/tow

Comparative results between NMFS TED with 6" bar spacing and commercial model TED with 3" bar spacing.

Shrimp Catch Rates (N=18)

 NMFS TED
 Comm. TED

 Total Catch
 190 lbs.
 132 lbs.

 Mean Catch
 5.25 lbs/hr
 3.60 lbs/hr.

Bycatch Rates

The commercial model TED with 3" bar spacing became clogged with sponge on 13 of the 18 tows making valid comparisons of the bycatch rates impossible. The 3" spacing cannot be effectively employed on these shrimp grounds due to clogging of the device by sponge.

GENERAL COMMENTS

The top opening TED with 6" bars was effectively employed on the pink shrimp grounds off of Ft. Myers, Florida. The major bycatch species on these grounds is the loggerhead sponge which was effectively eliminated by the TED. Shrimp catch rates were comparable for the sample size taken. The commercial model TED with 3" bar spacing was not effective due to clogging of the device. Another problem encountered with the commercial TED was increased bottom trash catch due to the heavier weight of the commercial TED. As a result of this testing the commercial manufacturer of the TED has modified the design to allow flexibility in the bar spacing and a decrease in the weight of the device. These modifications should allow optimum performance of the commercial TED for the different fishing conditions encountered on the southeastern U.S. shrimp grounds.

Cruise Participants

N. Serra, FMES, Pascagoula, MS

J. Mitchell, Fishery Observer, Pascagoula, MS

Submitted by:

John W. Watson, Jr.

Harvesting Systems Branch Chief

Approved by:

William W. Fox, Jr.

Director, SEFC

A JA Keombrer

Director, Mississippi Labs

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Référence/Reference : Sa/3/1C

12 August 1982

Dear

As you may know, all of IUCN's Commissions and Specialist Groups are automatically dissolved after each IUCN General Assembly, thus providing a periodic opportunity for reorganizing as circumstances may dictate.

Since the 15th Session of the IUCN General Assembly at Christchurch, New Zealand, in October 1981, the SSC Steering Committee and I have been deciding on new patterns for reconstitution of the SSC network.

Over a period of time we have gradually established separate Specialist Groups for the principal taxa of reptiles and amphibians as follows:

Tortoise Group Freshwater Chelonian Group Marine Turtle Group

Crocodile Group Snake Group Lizard Group Dr. Ian R. Swingland
Dr. Edward O. Moll
Prof. Archie Carr
Dr. George H. Balazs, Deputy Chairman
Dr. F. Wayne King
Dr. Romulus Whitaker
pending

With this coverage in separate groups, we have therefore decided not to reconstitute the Reptile & Amphibian Group again.

However, to provide an integrating and coordinating overview of reptile and amphibian activities, Mr. René Honegger has agreed to serve as Commission Vice Chairman for Reptile and Amphibian Matters.

I very much hope that each of the members of the former Reptile & Amphibian Group will remain interested and active in SSC affairs, and I extend my warm appreciation for your services in the past.

Yours sincerely,

Gren Lucas Chairman Species Survival Commission

SSC REPTILE & AMPHIBIAN, ORGANIZATION

Tortoise Group

Chairman:

Dr. Ian R. Swingland

School of Continuing Education

and Biological Laboratory

Rutherford College University of Kent Canterbury, Kent

UK

Freshwater Chelonian Group

Chairman:

Dr. Edward O. Moll Department of Zoology

Eastern Illinois University Charleston, Illinois 61920

USA

Marine Turtle Group

Chairman:

Prof. Archie Carr

Graduate Research Professor

Dept of Zoology

University of Florida

Gainesville, Florida 32601

USA

Deputy Chairman:

Dr. George H. Balazs

Hawaii Institute of Marine Biology

P.O. Box 1346

Kaneohe, Hawaii 96744

USA

Crocodile Group

Chairman:

Dr. F. Wayne King

Director

Florida State Museum University of Florida

Gainesville, Florida 32611

USA

Snake Group

Chairman:

Dr. Romulus Whitaker

c/o Madras Snake Park Trust

Guindy Deer Park

Madras-22

India

Lizard Group

pending

SSC Vice Chairman for Reptile and Amphibian Matters Mr. René E. Honegger Curator of Herpetology

Zoo Zurich

Zurichbergstrasse 221

8044 Zurich Switzerland Sent to:

Mr. Arden H. Brame, Pasadena, California, USA

Dr. Donald G. Broadley, Umtali, Rhodesia, Zimbabwe

Dr. S. Bruno, Pescasseroli, Aquila, Italy

Dr. Bruce Bury, Fort Collins, CO, USA

Dr. Harold Cogger, Australia

Mr. J.C. Daniel, Bombay, India

Dr. Federico Medam, Colombia

Dr. Marco Freiberg, Argentina

Dr. F. Wayne King, Florida, USA

Mr. J. McNeely, Gland, Switzerland

Prof. Dr. A. Bannikov, Moscow, USSR

Prof. Ch. Blanc, Montpellier, France

Mr. John Burton, ffPS, London

Dr. Stephen Busak

Dr. Gordon Gregg, Sydney, Australia

Dr. Russ. Mittermeier, NY

For information to:

Mr. René E. Honegger

Mr. Gren Lucas

Dr. B. Groombridge, SCMU, Cambridge

Dr. I. R. Swingland

Dr. Edward O. Moll

Prof. A. Carr

Dr. G. Balazs

Dr. R. Whitaker

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Sa/3/4-1 SSC/RFS/pc

Professor Archie Carr Bept of Zoology University of Florida 223 Bartram Hall Gainesville Florida 32611 USA

11 August 1982

Dear Archie.

The rather piecemeal correspondence about an October Marine Turtle meeting and discussions here with Jeff McNeely of CNPPA about the Bali meeting, prompt me to produce the following review of events and some straw-man ideas.

The original suggestion was that turtle workers should take advantage of their attendance at the Bali World Parks Congress in October to get together and compare notes - especially with respect to the mutual interests of those working in Indonesia, Malaysia and the Philippines, and with the added benefits of contributions by whatever international experts were also present. (Not everyone is aware that official attendance at the conference is by invitation only and involves payment of a registration fee).

At our request, Jeff agreed to set aside and announce the evening of Tuesday 12 October for an ad hoc marine turtle meeting in conjunction with the Bali Conference. He also expressed the hope that the meeting would contribute something useful to the conference as well as to turtle people. (The date is not absolutely firm and could of course be the victim of minor last minute schedule changes but this seems unlikely).

A very tentative agenda might identify gaps and help focus on a possible orientation, as well as be useful in preparation for the meeting. Therefore I suggest the following topics for discussion:

- 1. Report from the SSC Marine Turtle Specialist Group
- Reports of work in progress in the region:
 Indonesia / Malaysia / Philippines / Elsewhere
- Opportunities for regional coordination
 Significant new developments in research and management world-wide

- Material on turtle management in protected areas to be included in conference publication on Management of Marine and Coastal Protected Areas. (Possible assignment of a working group to review material and meet again later in the Conference)
- Preparation of a conference resolution, if appropriate, on the role of protected areas in marine turtle conservation
- 7. Other Matters
- Schedule of any additional working group assignments or further meetings
- 9. Adjourn

Naturally, the group that meets will arrange their agenda as they see fit, but the above may help focus thinking.

The distribution list attached to this letter reflects my impression of those who are likely to be present or otherwise especially interested in the turtle meeting.

I hope to see you there.

Yours sincerely,

Robert F. Scott Executive Officer

Species Survival Commission

Encl.

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FROM: Chandra Sexhan Kan Gahisignatha Marione Turtle Research and Conservation Contre Post: Salabhaya - 754225 Via: Rayonagan, Dist: Cuttaox Orcissa INDIA Dated 21st July 1982 DR. G.H. Balazs Hawaii Institute of Marine Biology P.O. Box. 1346, Kaneohe, Hawaii, 96744 Dear Do. Balezs of 23rd April, 1982 along with Some of your much Valuable publications. I also thank you for including army oname in your peromanent anational list for all your future publications I don't have the access to Br. Bustands reprior t lebrary as the same was at his residence at U.K. and omenewed Dr. Bustand is one larger on India. Kingly posside one two of your secent publications viz; (1) Balazs, G.H. (1980) - A sieview of basic biological date on the green tenthe on the North Western Hawaiian Islands M : 42-54. In Proce. Symposium on Status of Resource imvestigations on the Northwestern Hawaiian Islands (2) De Turtes and their traditional assage in Tokelan. Report for WWF (USA) & office of Tokely Affairs. Pp: 1-54. + relemetry Thaming you for your favour. With Best regards . Yours faithfully Chandre Senhar Ker

हवाई पत्र Aerogramme







DR G.H. BALAZS Hawaii Institute of Marine Biology P.O. Box. 1346

Kancohe, Hawaii, 96744

U.S.A.

THIS WAS SECOND FOLD

Andrewatha Marine Truthe Research & Conservation Control
Via: Rajonagan

Dist: Cuttaer (Osussa)

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Aug 82

George Balazs, Hawaii Institute of Marine Biology, P.O. Box 1346, Coconut Island, Kanoehe, Hawaii. 96744.

Dear George,

Thanks for all your many notes and reprints. Thanks too for spending some time with Nev McLachlan and his wife. I trust too that your own work goes well and that your family is OK.

You mentioned a possible Costa Rica venue for the Turtle Group meeting. I'll believe it when I see it. I'm surprised someone hasn't notified me that there is no intention to persue an Australian venue.

I've sent to you some copies of papers I have in press. I hope they are of use to you. When you read them you will see that apart from establishing data bases on Queensland turtle populations they are attempting to correct some of the misconceptions created by H.R.B. Speaking of H.R.B., I don't have a copy of Bustard 1981 which you asked for sorry. He doesn't send me reprints as a matter of course.

Re lights and turtle feeding grounds. I've seen no indication of a local effect of lights and general nocturnal tourist activity on the underwater behaviour of the greens and loggerheads of my study area near Heron. The turtles can be seen foraging at night in areas where tourist activity in the water and on the adjacent is fairly common by day. One of our regular catch sites is about 400 m offshore from the most illuminated area of Heron Island. It is rich in 40-70 cm CCL C. mydas. I'm more concerned with the effect of people on the basking in these areas. Prior to settlement mass basking was apparently a common event at Heron. Today even isolated "basking" is rare and then only at night. Pleasure divers regularly catching the turtles to ride them underwater doesn't appear to drive them away. It just seems to educate the turtles to avoid divers at close quarters. High density outboard motors will have an associated higher incidence of propellor strikes. I hope these rushed thoughts are of use to you.

Re John Burchard: I'll be at my Crocodile field work until 4th September. If he visits Townsville before then suggest that he contacts Gall and she can organise for him to meet my assistants and together they can help him if he has problems he wants to discuss.

Re R.D.B. (Groombridge): I sent a hurried note in response to Archies letter. I was not happy with a lot of what was in the C. mydas and Caretta drafts. However most of my concern was really with the implied ideas rather than the explicity stated ones e.g. I feel it gives the impression that green turtles were so abundant and widely dispersed that although some areas had reduced populations the conservation lobby may be "crying wolf". Have I misread the drafts.

On a matter arising from the above drafts and other papers: I'm amazed that so many people have access to the proceeding of the Washington Conference while so many of us don't have. The information is so out of date now that I wonder if it will be worth using when it is published. With the new rookeries and so on that we have found in the last two seasons I know I'd like to rewrite my contribution. (Gee, I must sound like a bitchy criter at times).

I've just been notified of acceptance for another 1 year grant to monitor the Raine Island rookery again in 1982-1983. I'll be able to employ an assistant to spend several weeks in the area. That plus tags are my main costs for the project. The funds will come from the Raine Island Corporation and they will also fund another small project to examine the distribution of sea turtle harvests in Torres Strait a major feeding ground for Raine Island greens. Helene Marsh of James Cook University has been given that grant.

At present I've got my fingers crossed for a grant to run what I hope will be the last of my intensive work at Heron Island. I'll know in September how I've gone with that one. It looks promising. This grant has also been the grant supporting my sex determination studies in the last year. I need the funds to complete the work started. I can't remember what I've told you to date on this - we ran pivotal temperature studies on 4 species this year Caretta, C. mydas, C. depressa and Dermochelys. Caretta was run for eggs from two rookeries with very different sand temperature regemes. For the first 3 species we also tested for critical stage for sex determination. That was all lab work. At Mon Repos and Heron Island we have also measured at weekly intervals the sex ratio of Caretta and C. mydas through the season. This is our 3rd season of doing this in conjunction with extensive beach sand temperature recording. There are some really dramatic differences coming out of this between species, between rookeries and between years. I hope we are submitting our first substantial papers on this work early next year.

If you come over my way in October I'll take you to Heron Island for one of my turtle Rodeos. It must be about time for us to sit down for another turtle chat. How about It?

Well I must close. Please keep me informed about the proposed turtle meeting as Archie hasn't replied to any of my letters from earlier this year.

Regards,

CJL: DH

Giorge.
Re your letter from Sommes:It is probably a fair assessment of the setantion.

bol 4Ay 82