

TURTLE

LOG

JUNE-JULY 86

FOR

MARILYN MAJOR

BAZAZS
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FEDERAL SUPPLY SERVICE

(GPO)

NMFS

Dr George:

Who once was a man named Colap
Who championed a spectacular cause.

Green sea turtles his claim
To worldwide fame

But his tickles received great applause.

From

Charlyne
Major
1986

"EVERYTHING YOU EVER
WANTED TO KNOW ABOUT
TURTLE WORK AT FRENCH
FRIGATE SHOALS, 1986"

by

G. BARRS

and

Charlyne Major

PLEASE RETURN TO ME, WITH ALL DATA
WRITTEN HEREIN. Photo copy for
you to keep can be made at NMFS LAB, IF
you wish.

Rick Vetter, FWS* Refuge
Manages at French Frigate
Shoals, is the top authority
here. See on "Special Use"
permit for further details.

OTHER PEOPLE HERE NOW

Kristen O'Brien - AN FWS VOLUNTEER
HELPING WITH SEABIRD STUDIES
ARRIVED 5/29

Nancy - SAME AS ABOVE, BUT ARRIVED 5/20

Joan - RICK VETTER'S WIFE, AND A
WILDLIFE BIOLOGIST HERSELF.

Heather Walbridge - NMFS VOLUNTEER
ARRIVED 5/15 APPROX. A SECOND OR
THIRD YEAR UNIV. STUDENT, WHO STARTED
VOLUNTEERING FOR NMFS (BILL) 4 OR 5
MONTHS AGO.

AN "EMERGENCY BUCKET"
ALSO STAYS IN THE BOAT, CLIP DOWN,
AT ALL TIMES. AMONG OTHER
IMPORTANT ITEMS, THIS BUCKET
CONTAINS FLARES.

(*) = Fish & Wildlife Service

SAFETY

FIRST AND FOREMOST, AT
ALL TIMES.

DON'T ENTER INTO ANY
SITUATION WITHOUT COMMON
SENSE, AND YOUR OWN
LIMITATIONS, TELL YOU
IS UNSAFE, ESPECIALLY
WHILE IN THE BOSTON WHALLORE.

THERE IS RELATIVE

SECURITY WHILE ON THE

ISLANDS, THERE IS ALWAYS

POTENTIAL DANGER WHEN IN THE
BOAT. CARRY EXTRA WATER

IN THE BOAT (1 OR 2 GAL JUG)

AND YOUR 2 quart blue thermos)

ALSO HANDY AT NIGHT IN THE TENT.

EMERGENCY "EPIRB" RADIO

BEACON IS UNDER THE STEERING

POUNCEL IN THE BOAT. ALSO

50' OF EXTRA ROPE. ADHERE

TO CAREFUL RADIO CHECKS

WITH WALKY-TALKY WITH

FWS TURN IS AS REQUIRED

BY THEIR SAFETY POLICY.

(MORE)

MOST BE TAKEN OUT
TO ACTIVATE

SAFETY, CONT.

RADIO-CHECK PROCEDURE WITH RICK VETTER FWS TERN IS. (MANDATORY):

BEFORE DEPARTING FROM ANY ISLAND AND IMMEDIATELY UPON ARRIVAL AT ANY ISLAND TERN MUST BE RADIOED AND NOTIFIED. RICK WILL TELL YOU IF HE FEELS THE WIND/SEA CONDITION IS UNSAFE AND YOU SHOULD NOT USE THE BOAT. IF HE DOESN'T HEAR FROM YOU WITHIN AN HOUR OF YOUR ETA HE WILL INITIATE A SEARCH.

CHECK WITH RICK ABOUT ANY MODIFICATIONS OR UPDATE PROCEDURES OF THIS POLICY.

WHILE CAMPING ON EAST IS. THE NORMAL DAILY RADIO CHECK IS AT 8AM EACH MORNING.

HINTS ON THE CONTROL OF TICKS

Periodically spray "OFF" and/or insecticide completely around outside surfaces of tent door zipper.

When leaving and entering tent, especially at night, bang and shake zipper, area to knock off "waiting" ticks. Leave and enter quickly, making sure zipper is pulled tight to close screen door securely, treat zipper gently to prevent from catching fabric or coming off the track (the ticks would love something like this to happen!).

Before entering tent at night, stomp your feet to dislodge ticks that may be clinging to your shoes. Don't linger outside the tent door for longer than needed, as ticks will get on you there.

THESE ARE "SOFT TICKS" NOT HARD ONES LIKE ON THE U.S. MAINLAND. SOFT TICKS SUCK BLOOD FOR 2-3 MINUTES, THEN DROP OFF YOU ON THEIR OWN.

FOUND
IN THE TENT AND
FIRST AID
KIT.

FOR TICK BITES, USE 1%
HYDROCORTISONE TO CONTROL
ITCHING. 0.5% DOESN'T
USUALLY HELP MUCH.
THE MORE YOU SCRATCH,
THE MORE IT WILL ITCH,
AND LIKELY BECOME INFECTED.

Some people are far more sensitive
to the bites than others.
Like me... I swell up
bad from each bite.

TICKS WILL SOMETIME CLING AROUND THE
UNDER SIDE EDGE OF THE LID TO THE WATER CONTAINER
GIVE IT A RAP BEFORE SCREWING BACK ON.

LOST NOTE: A recent problem that
has cropped up is the
presence of ticks on or around
the outdoor toilet. "Off"
should be sprayed here, too
every sq of tent. Also, it
will help to shorten your
"toilet stays" as much
as possible (I got two
bad bites on the
"ahole" this morning
6/22!)

WHEREABOUTS OF THINGS
NMFS AT TERN IS.

BATTERIES - IN THE WALKIN
FREEZER, RIGHT SIDE, TOP
SHELF, IN A CARDBOARD

AND THE SECOND SHELF ALSO
BOX SO MARKED. NMFS
FROZEN FOOD IS ON THIS
TOP SHELF TOO. ALSO A SUPPLY
IN "TURTE CAMP" TENT (IN DRUM CONTAINERS).

MISC. GEAR - EXTREME WEST
END OCEAN SIDE ROOM
OF MAIN BUILDING. ENTER
THROUGH SECOND DOOR

LEADING OFF THE "DARK
ROOM". WHITE BUCKETS ARE THERE -
FOR TRANSPORTING DRY THINGS IN THE BOAT.

REFRIG, NMFS FOOD - WALKIN

REFRIGERATOR, RIGHT SIDE,
TOP AND THIRD SHELVES
ONLY MARKED "NMFS".

SOME MISC. CANNED AND DRY GOODS,
INCLUDING CRACKERS - ROOM
LEADING IMMEDIATELY OFF
OF KITCHEN -- SHELVES
MARKED "NMFS".

MAIN CANNED GOODS SUPPLY - FORM

OUTERABOUTS (continued)

ROOM MORE TOWARD WEST END, BUT COURTYARD SIDE OF THE BUILDING, (YOU SEE THE BOXES FROM 5/29 FLIGHT ARE THERE.)

MISC. ITEMS - CUPBOARD ABOVE MICROWAVE OVER IN KITCHEN.

NMFS "OFFICE" - EXTREME WEST END OF THE NORTHERN WING OF THE DORM BUILDING.

I recommend that you take an hour to look through all NMFS food and supplies to fully acquaint yourself with what we have ~~to~~ available. You may ~~take~~ take, eat and use anything we have.

However, FW's food and supplies are not normally available to use, except by very special arrangement.

OUTBOARD MOTOR MAINTENANCE LOG BOOK, ALONG WITH MANUALS, ARE IN THE NMFS OFFICE ON THE DESK.

WATER

RECOMMEND THAT FOR DRINKING WATER, ONLY USE FILTERED FROM SLOW-RUNNING SMALL TAP IN THE KITCHEN. EAST IS. BLUE WATER JUGS FIT IN SINK FINE FOR

FILLING. AN EXTRA FULL JUG IS STORED AT THE SEAL TENT (CLEAR PLASTIC WITH MY NAME ON IT). ELECTRICAL POWER ON TERN IS.

GENERATOR ~~ARE~~ USUALLY TURNED ON BY 6:45 AM WEEKDAYS, 8:30 AM OR SO WEEKENDS. IT GOES OFF AUTOMATICALLY AT ABOUT 11:45 PM. SOMETIMES ON WEEKENDS RICK LEAVES IT ON UNTIL 1-2 AM.

FRESHWATER DOES WORK WHEN GENERATOR IS OFF. TOILETS DO, AS THEY ARE SALT WATER. KEEP A FLASHLIGHT BY YOUR BED TO FIND THE TOILET, IF YOU NEED IT AFTER THE GENERATOR IS OFF. IT CAN BE REAL DARK IN THE BUILDING AT NIGHT.

RADIO CALLS TO

HONOLULU, AND ELSEWHERE

MESSAGES CAN BE PASSED
ANY WEEKDAY MORNING
THROUGH RICK VETTER.

WHEN HE TALKS TO THE
FWS OFFICE IN HONOLULU,

"K.M.I. MARINE OPERATOR

CAN BE OBTAINED FOR

HOOK-UP TO TELEPHONE

CALLS ANYWHERE,

CHARGES IN USA ARE

\$15.95 FOR 3-MINUTES,

\$5 MINUTE THEREAFTER.

YOU MAY CALL COLLECT, BILL

TO A THIRD PARTY, OR

USE A CHARGE CARD (I THINK)

SEE RICK FOR HELP.

SPARE POLES FOR SEAS (TURTLE CAMP) TENT

SOME SPARE POLES ARE HERE
JUST IN CASE ONE BREAKS OR
BENDS. CATER STORAGE
BRUMS INSIDE TENT AND
ALSO PACKAGE UNDER TARP
OUTSIDE (WRAPPED WITH GRAY
'PLASTIC GARBAGE BAGS & TAPE').

TURTLE-CAMP TENT AWNING (BLUE)

WHEN IT RATTLES FROM THE WIND,
IT OFTEN LIKE LIVING IN A
'PLASTIC GARBAGE BAG'. EAR PLUGS
CAN BE BORROWED FROM RICK VETTER,
IF NEEDED.

LINE ON AWNING CONSTANTLY
NEED TO BE ADJUSTED, CHANGED, ETC.
AS IT TEARS MORE.

PROP-UP AWNING FACING THE
WIND DURING THE DAYTIME TO
CREATE A SMALL WIND-SCOOP
EFFECT. YOU WILL ROAST IN THE
TENT ON HOT DAYS IF YOU DON'T!
(MORE)

WITHOUT THE PROTECTIVE BUFFING OF THE AWNING, THE TENT WON'T HOLD UP (LITERALLY WON'T STAND UP). ALSO, THE AWNING PROVIDES "RAIN PROOFING" AS WELL AS AN EXTRA LAYER OF PROTECTION FROM SOLAR RADIATION. THE FLAPPING NOISE IS UNPLEASANT, BUT WILL BE FAR MORE UNPLEASANT IF THE AWNING WAS REMOVED. USE WIDE DUCT-TAPE TO TRY TO

COT IN TURTLE TENT

WHEN I ASSEMBLED THIS COT, THE HEAD-BOARD WAS LOOSE AND KEPT FALLING OUT. TO KEEP IT IN PLACE, I GLED IT LIGHTLY WITH SILICON. WHEN IT COMES TIME TO DISASSEMBLE IT, GIVE IT A HARD PULL AND IT WILL COME UNGLUED.

WASHING CLOTTES ON TERN ISLAND

MACHINES IN WASHROOM. FWS REQUESTS FULL LOADS ONLY TO CONSERVE ON FRESHWATER. NMFS SOAP IS SO MARKED IN THE WASHROOM, ALSO A NEW BOX IS IN THE DORMITORY FOOD STORAGE ROOM.

SHEETS AND BLANKET CAN BE BROUGHT FROM TERN FOR USE ON EAST, IF YOU WISH, ALL BEDDING

ITEMS AS WELL AS A WEIGHT SCALE, AND THE "CHARGE" FOR THE HAND-HELD RADIOS, ARE IN THE DRY-ROOM WITH THE DOOR LABELED FIRST AID. THIS IS AN FWS ROOM, BUT YOU CAN PUT ANY ITEM IN HERE THAT YOU WANT TO STORE IN LOW HUMIDITY. SEE JOAN (RICK'S WIFE).

SWIMMING OR GOING IN THE WATERS AROUND EAST IS.

I DON'T RECOMMEND WADING
OVER "KNEE DEEP" FOR

ANY PURPOSE, IF YOU
SEE 6', GRAY REEF SHARKS
NEARBY, OR A 9' + TIGER
SHARK, (THEY DON'T COME ANY
SMALLER THAN 9'), THEN
DON'T GO IN EVEN TO

KNEE DEEP. STAY DRY

ON THE BEACH. USE FRESH WATER
FOR A SPONGE OR PAN BATH. THERE ARE
PLENTY OF WATER JUGS - HAVE ALL YOU NEED FOR
USE ON EAST ISLAND.

PROPANE STOVE ON EAST

STORE IT OUTSIDE THE TENT WHEN
NOT USING. IF IT LEAKED INSIDE,
WHILE YOU WERE ASLEEP.....

ALSO WITH A POT ON IT
HEATING IT'S ~~NOT~~ EASY
TO ACCIDENTALLY TIP OVER,
CAREFUL ABOUT BURNS.

I ALWAYS COOK INSIDE THE
TENT BUT AM CAREFUL ABOUT
NOT CATCHING TENT FABRIC ON
FIRE. (MORE OVER)

ANOTHER

PROPANE STOVE SAFETY TIP-

DON'T HEAT CANS DIRECTLY ON THE BURNER. IF YOU DO, THE LEAD SEAM OF THE CAN WILL PARTLY MELT AND CONTAMINATE YOUR FOOD WITH LEAD (BAD STUFF!). INSTEAD, HEAT FOOD IN CANS BY PUTTING THEM IN A PAN HALF FILLED WITH WATER, THEN BOIL. OPEN THE CAN FIRST. I FIND THIS METHOD CONVENIENT BECAUSE IT GETS AROUND HAVING TO WASH PANS.

"CALL AND ASK"

IF A DIFFICULT PROBLEM COMES UP OR THERE'S SOMETHING THAT SEEMS IMPORTANT THAT YOU'RE SIMPLY UNCERTAIN ABOUT PLEASE RADIO CALL (THROUGH RICK VETTER, FWS) BILL GILMARTIN OR ME FOR AN ANSWER.

ITEMS TO BE RETURNED TO HONOLULU

REMAINING TAGS AND PLIERS SHOULD BE BROUGHT WITH YOU BACK ON THE AIRPLANE. ALSO, ANYTHING LABELED "BALAZS" and "NMFs" (ie flashlights, propane stove parts, first aid kit, etc.) IF WEIGH ALLOWANCE ON RETURN FLIGHT WILL ALLOW YOU TO DO SO. IF NOT, STORE IN CARDBOARD BOXES AND LABEL FOR FUTURE SHIPMENT TO HONOLULU (more)

LEFT OVER SPRAY PAINT ←
AND PROPANE SHOULD NOT BE RETURNED TO HONOLULU. STORE AT TEEN IN PROPER LOCATIONS. REMAINING BATTERIES SHOULD BE PUT IN THE BOX IN THE FREEZER.

WHEN SPACE ON A FLIGHT BECOMES AVAILABLE. NOTE: DRUM CONTAINER CAN NOT BE NORMALLY SHIPPED ON THE AIRPLANE BECAUSE THE PILOT (BOB JUSTMAN) FINDS IT VERY DIFFICULT TO STRAP THEM DOWN SECURELY.

THE TURTLE CAMP TENT AND LARGE BLUE AWNING SHOULD BE PACKAGED AND STORED AT TERU ISLAND FOR USE NEXT YEAR. NOTE AND PLEASE REPORT TO ME ANY TEARS OR PROBLEMS WITH THE TENT.

ALL REMAINING ^{GOOD} STAYS STORED AT TERU IS. FOR FUTURE USE (RUST & ALL!).

THE SMALL BLUE TAPE BEING USED AS A DOOR MAT BELONGS TO ME. IF POSSIBLE, PLEASE BRING IT BACK ON THE PLANE. OR BOX FOR FUTURE SHIPMENTS. ALSO THE 3 PIECES OF SILVERWARE IN THE TURTLE TENT.

AM RADIO RECEPTION

WORKS VERY GOOD AT NIGHT ON EAST ISLAND. KAWAI "KWA" (720) COMES IN CLEAR, BUT OFF THE AIR AT MIDNIGHT. THIS STATION CAN ALSO OFTEN BE OBTAINED DURING THE DAYTIME.

NOTE - MEDIAL LIGHT CAUSES BAD RADIO INTERFERENCE. USE INCANDESCENT HEADLAMP LIGHT INSTEAD WHEN THE RADIO IS ON.

I CAN COIN YOU A SMALL RADIO IF YOU DIDN'T BRING ONE WITH YOU. EXTRA BATTERIES FOR IT (RED - 9V) ARE IN THE DRUM IN THE EAST IS. TURTLE TENT.

FLASHLIGHT BULBS

THE BLACK METAL DOUBLE-A-A FLASHLIGHT ("MAGNOLITE") HAS AN SPARE BULB IN THE CAP THAT UNSCREWS IN THE HANDLE END. ALONG WITH OTHERS, PLEASE RETURN THIS FLASHLITE TO ME WHEN ~~THE~~ FIELD WORK IS OVER.

IF THE NEON BULB IN MY LARGE LIGHT BURNS OUT, REPLACE IT WITH THE BULB FROM THE SMALLER-SIZE (BODY ONLY) SEAK NEON LIGHT IN THE TENT. THEY HAVE TWO NEON LIGHTS, BUT ONLY EVER USE ONE. THE ~~ARE~~ BULBS ARE THE SAME SIZE AND INTERCHANGEABLE.

OBSTACLE - BARRIER AROUND TENT

THESE ARE TO DISCOURAGE NESTING TURTLES FROM PLOWING INTO THE TENT, DIGGING AROUND IT AND DESTROYING THE CAMPSITE. ESPECIALLY WHILE YOU ARE AWAY FROM EAST IS.

MAINTAIN THE BARRIER SYSTEM, AS NEEDED.

IN ADDITION, ITS POSSIBLE A TURTLE COULD BECOME ENTANGLED IN THE CAMPSITE LINES, ETC. IF TRAPPED THERE DURING THE DAY IN THE HEAT, THE TURTLE COULD DIE.

(DO BAD THE TURTLE CAMPSITE DOESN'T HAVE A NICE FENCE AROUND IT, LIKE THE SEAL CAMP)

ON THE NIGHT OF 6/19 A TURTLE CAME OVER THE BARRIER, BECAUSE I HAD THE ALUMINUM STRETCHER LYING FLAT INSTEAD

OF UPRIGHT (LIKE IT IS NOW). THE
TURTLE APPARENTLY CRAWL/SIDE RIGHT OVER
THE STRETCHER, I WAS DOZING IN THE
~~THE~~ TENT, BUT QUICKLY AWOKE. IT
WAS A MESS GETTING HER OUT. I
SCRAPPED UP MY FEET AND LEGS IN
THE PROCESS, SINCE BOOTS WEREN'T ON.
FORTUNATELY, I "GUIDED" HER OUT, WITH
STRAW-ARM TACTICS TO THE HEAD, BEFORE
SITE DEMOLISHED THE TENT AND AWAY GO.

NOTE: Sometimes one side of
the shell will be reasonably
dry, while the other side is wet
(resulting from light blowing rain/shower).
In such cases, just spray paint
the dry side.

USE ONLY DUPONT KUCITE.

MORE
DISHES COOKWARE,
SILVERWARE, CANNED FOOD,
ETC.

IN BUCKETS AND STORAGE
DRUMS AT SEAL CAMPSITE
ON EAST IS.
HELP YOURSELF TO EVERYTHING
AS MAY BE NEEDED.

TIPS ON USING SPRAY PAINT TO MARK TURTLE SHELLS

SHAKE CAN WELL JUST BEFORE EACH USE.
SHELL MUST BE REASONABLY DRY. IF ITS
GLISTENING WET, IT ABSOLUTELY WON'T
STICK SO THERE'S NO SENSE SPRAYING
IT. A FINE LAYER OF DIET/DUST ON THE SHELL IS OK.
AFTER EACH USE TURN CAN
UPSIDE DOWN, HOLD AWAY FROM
YOU, DOWN WIND AND PRESS
NOZZLE FOR APPROX. 5 SECONDS.
THIS WILL HELP TO CLEAR THE
SPRAY JET OF PAINT. IF YOU
DON'T DO THIS, IT WILL QUICKLY
CLOG AND BECOME (more)

PAINT, CONT.

USELESS AFTER 2 OR 3 PAINTINGS.

POT THE LID BACK ON LOOSELY WHEN CARRYING THE SPRAY CAN IN THE SHOULDER BAG. IF YOU DON'T THE CAN'S NOZZLE WILL OFTEN PRESS AGAINST THE SIDE, AND BE GOING OFF WITHOUT YOUR KNOWLEDGE UNTIL YOU SMELL PAINT AND LOOK DOWN TO SEE IT DRIPPING OUT OF THE BAG ONTO YOUR CLOTHES. (AS YOU MIGHT GUESS, I'VE LEARNED THIS FROM HARD EXPERIENCE!).

WHEN MARKING THE SHELL A FINE COAT WILL ULTIMATELY STICK BETTER THAN A SATURATED, DRIPPING COAT. THE LATTER SEEMS MORE LIKELY TO CHIP OR PEEL OFF AFTER A FEW DAYS.

PAINTED MARKS CAN STAY REPAIRABLE FOR 2 WEEKS OR LONGER, BUT THERE IS

PAINT, CONT.

CONSIDERABLE VARIATION BETWEEN INDIVIDUAL TURTLES. THE PRESENCE OF PAINT CAN USUALLY BE DETECTED UP TO A MONTH OR LONGER, THOUGH IT WILL USUALLY NOT BE READABLE.

PAINT A CODES

TERN IS. - WORK BEING DONE BY RICK VETTER & FWS VOLUNTEERS - BLUE only

NUMBER 1 ~~THROUGH~~ CONTINUING COLLECTORS

EAST ISLAND -

G. BACAZS - 5/29 - 6/18

YELLOW

NUMBERS

1 THROUGH 32 AND 34

G. BACAZS

6/19 - 6/23

GREEN

NUMBERS

33 & 35 through

M. MAJOR

6/24 - 6/

IVORY

USE ALPHABET LETTERS

A THROUGH Z; IF MORE

THAN 26 ARE NEEDED, GO AA, BB, CC, etc.

YOU HAVE 1 1/2 CANS OF
IVORY PAINT (~~BOTH~~ ^{BOTH} IN THE
TURTLE TENT). A FULL
CAN SHOULD LAST FOR
ABOUT 35 TURTLES, SO I
DON'T EXPECT YOU TO RUN OUT
OF IVORY. BUT IF YOU DO,
START USING ~~THE~~ GREEN.
(NEARLY FULL CAN ON EAST, AND
SEVERAL NEW ONES ^{ARE} IN STORAGE
ON ~~TENT~~).

YOU ARE NOT EXPECTED, NOR SHOULD
YOU, GO OUT AT NIGHT WHEN ITS RAINING.
(WAIT TILL THE RAINS HAVE COMPLETED
PASSES. IF IT RAINS HARD ON AND OFF
FREQUENTLY ALL NIGHT, ^{JUST} SKIP THAT NIGHT.
GET A GOOD NIGHT'S SLEEP INSTEAD!

THREE TIMES ←

ANIGHT WILL BE ADEQUATE
ONCE YOU BECOME EXPERIENCED.
MORE THAN FOUR TIMES A NIGHT
IS UNNECESSARY AND, IN FACT, CAN
BE COUNTERPRODUCTIVE AND EVEN
HARMFUL BY PUTTING TOO MUCH
PRESSURE/DISTURBANCE ON THE
TURTLES. MONK SEALS & SEABIRDS
TOO.

OBJECTIVES OF YOUR
TURTLE WORK AND
METHODS TO USE
I. TO DETERMINE THE NUMBER
AND IDENTITY OF FEMALES
NESTING EACH NIGHT ON
EAST ISLAND.

THE FEMALES UP TO NEST ON ANY ONE
NIGHT WILL CONSIST OF TWO COMPONENTS:

a.) TURTLES THAT I HAVE "HANDLED"
ALREADY THIS SEASON AND MARKED
WITH EITHER YELLOW OR GREEN PAINT,
AND b.) TURTLES THAT I HAVE NOT
HANDLED AND, THEREFORE, ARE BEING
SEEN FOR THE FIRST TIME NESTING
THIS SEASON.

TO ACCOMPLISH THIS OBJECTIVE,
YOU MUST ALLOW FOR NESTING
ACTIVITY (THREE OR FOUR TIMES
EACH NIGHT BY WALKING AROUND
THE ISLAND / RECORDING "THOSE
PRESENT AND "HANDLING" THOSE
THAT "FALL UNDER "B" CATEGORY
ABOVE. SUGGESTED TIMES TO GO
OUT ARE 9:30 pm, 12:30 am,
3:30 am and if needed 6 am.

EACH TRIP OUT WILL LAST 45 MIN TO
1 1/4 hours, depending how many

Turtles are present. Nesting is light this year. "O". One night I had 8. The best night I had 8. Turtles that have been previously marked with yellow or green paint need only be recorded, not handled. If ~~you~~ the number is legible, record it. If not, just write the color and perhaps your "best guess" as to what the number is. If the turtle has no

visible paint, it needs to be handled. By you, this is by far, the most important piece of your work. First, if the shell is dry enough, use your ivory paint to put an alphabet letter on each side. Next, check for the presence of a tag or tags using only the one-cell (AA) flashlight provided. This works excellent by holding it in your mouth, when needed. You only need to read one tag with certainty,

if several tags are present. However, if it's easy to do so (meaning the turtle "lets you read them"), read as many tag numbers as you can. They are rarely consecutive numbers. If you can only read one number, then note how many tags the turtle has total. We need this info to compute tag shedding rates. If you can't read any of the tag numbers because encrusting coralline algae or other foreign material on the tag, use the pocket knife provided, or other appropriate metal object, to scrape the tag and expose the number. Note - there is a lot of behavioral difference between turtles. Some will simply not let you fool around with their tags. They will respond in a wild manner. Just do the best you can without getting yourself hurt by the turtle. Watch that

THEY DON'T GRIND THEIR SHELL AND FLIPPERS AGAINST YOUR ANKLES AND FEET (NOTE BANDAGES ON MY LEGS (NOW FROM NOT HEEDING THIS WARNING!) TO HELP IN READING TAG NUMBERS ACCURATELY, I SUGGEST YOU FAMILIARIZE YOURSELF WITH (HOW EACH NUMBER IS FORM (THEIR STYLE)). STUDY NUMBERS AS THEY ARE PRINTED ON THE NEW TAGS.

IF NO TAGS ARE PRESENT ON THE TURTLE, THEN AT LEAST ONE, AND IDEALLY TWO, NEED TO BE APPLIED. IT TAKES PRACTICE TO DO THIS CORRECTLY, QUICKLY AND SAFELY. DEMONSTRATION AND INSTRUCTION WILL BE GIVEN 6/23-6/24 ON EAST. AGAIN, THE EASE OF TAGGING DEPENDS HEAVILY ON THE BEHAVIORAL DISPOSITION OF THE TURTLE. THE KEY THOUGHT IS ALWAYS SAFETY TO YOURSELF. THEY ARE STRONG, POWERFUL ANIMALS THAT ARE CAPABLE OF DOING

DAMAGE WITH THEIR FLIPPERS AND BODY. ALSO, FLIPPER CAN AND DO THROW SAND WITH INCREDIBLE STINGING FORCE. A "BLAST" IN THE FACE AND EYES IS AN UNPLEASANT EXPERIENCE (I KNOW!).

IF YOU SIMPLY CAN'T GET A TAG ON AN ANIMAL, DON'T BE OVERLY CONCERNED. THE PAINTED NUMBER FOR OUR NIGHTLY CENSUS WORK IS ALMOST AS IMPORTANT AS TAGGING. AND I AM SURE YOU WILL ALWAYS BE ABLE TO APPLY THE PAINT WITH NO PROBLEMS.

IF ANY TAGS TEAR OUT ON YOU OR FOR SOME OTHER REASON ARE RUINED, PLEASE DON'T THROW THEM AWAY. RECORD THE NUMBERS IN THIS BOOK AND RETURN THEM TO ME.

THE STAGE OF NESTING THAT THE TURTLE IS INVOLVED IN WILL ALSO, TO A LARGE EXTENT, DETERMINE HOW EASY IT MAY BE TO TAG. THE "BEST" TIME TO AT IS WITHIN 5-15 MINUTES AFTER THE EGGS HAVE BEEN

DEPOSITED AND THE KIND
IF FLIPPERS ALONE ARE PULLING
SAND OVER THEM. SAFE
IS THE LEAST IMMUNE
TO DISTURBANCE AT THIS
TIME. I NEVER APPLY THE
TAGS WHILE EGGS ARE BEING
DROPPED. THIS COULD CAUSE
HER TO "SHUT-DOWN" AND
CEASE. HOWEVER, IT IS AN
EXCELLENT TIME TO APPLY
AS PAINT WHILE EGG LAYING IS
HAPPENING. ALSO, TO INSPECT
HER OVER/CARE FULLY WITH
THE SINGLE-CELL LIGHT
ESPECIALLY FORE;

1. Tumors on the eyes,
neck to front flippers
close to the body, chin
or anywhere else, visible.
2. Any signs of fresh
amputations or mutilations
(usually from shark attack).
3. Any signs of old
and completely healed
amputations.
4. Any thing else that
seems not worthy to
document.

NOTE - THE SINGLE-CELL FLASHLIGHT
BATTERY MUST BE CHANGED FAIRLY
REGULARLY (APPROX. EVERY 3RD NIGHT) AS
IT DRAINS FAST, MAKING IT TOO
DIFFICULT TO SEE THINGS YOU NEED
IT FOR (I.E. TAG NUMBERS).

WHILE THE TURTLE IS LAYING
EGGS (ACTUALLY DEPOSITING THEM), IT IS
ALSO AN EXCELLENT TIME TO
MEASURE THE CURVED CARAPACE
LENGTH WITH THE TAPE PROVIDED.
SINCE YOU MAY NOT
ENCOUNTER TURTLES THAT ARE
OFTEN ~~BEFORE~~ THAT ARE
RIGHT IN THE PROCESS OF LAYING
EGGS, I DON'T EXPECT MANY
TO MEASURE VERY MANY
TURTLES. IT IS VERY HARD
TO MEASURE A TURTLE WHEN IT IS
OUTMOVING AROUND.

MONITORING A FULL NIGHT'S NESTING
IS A PRIME OBJECTIVE. TO
GO OUT JUST ONCE OR
TWICE TO CHECK ON TURTLES
UP NESTING CAN PROVIDE GOOD
INFORMATION, BUT THIS IS NOT

NEAR AS VACUABLE AS
"COMPLETE COVERAGE" (3 or 4 TIMES
OUT, SPACED PROPERLY) OF A NIGHT'S
NESTING. ALSO, CONSECUTIVE
NIGHTS OF COMPLETE COVERAGE
MONITORING ARE OF GREATER
VALUE, FOR EXAMPLE, YOUR
SCHEDULE COULD BE 4 OR
5 CONSECUTIVE NIGHTS ON EAST
IS. DOING COMPLETE COVERAGE
AND THEN 2 OR 3 NIGHT BACK
AT TERN IS. RESTING UP, GETTING
A SHOWER, AND EATING SLIGHTLY
BETTER FOOD. YOU DEVISE THE
SCHEDULE THAT SEEMS BEST FOR
YOUR WORKING ABILITIES. ALTHOUGH
THE USE OF THE BOAT IS
PRIMARILY FOR ACCOMPLISHING
THE REQUIREMENTS OF THE
MONK SEAL RESEARCH HOWEVER
THERE SHOULD BE SOME
ACCOMMODATION OF YOUR NEEDS
AND WISHES.

IF YOU WANT, YOU CAN STAY ON
EAST IS. ALONE, WHEN THE
OTHER TWO GO BACK TO TERN
IS. FOR OVERNIGHT STAYS.
HOWEVER, TO DO THIS YOU

MUST PLAN AHEAD AND BRING
AN EXTRA HAND-HELD RADIO SO
YOU CAN MAKE 8 AM RADIO CHECKS
WITH TERN IS, WHILE ALONE. SEE
RICK. MAKE SURE THE RADIO IS
FULLY CHARGED (IE. RADIO ON THE
CHARGER FOR SEVERAL HOURS - AND
PREFERABLY FOR OVERNIGHT. NOTE THE
RED AND GREEN INDICATOR LIGHTS
ON THE CHARGER DON'T WORK. A RED
LIGHT MAY BE ON, ~~THE~~ BUT THE RADIO
WILL NEVERTHELESS BE FULLY CHARGED
IF IT HAS BEEN ON LONG ENOUGH,
(SEE RICK).

CONCERNING OCCASIONAL TRIPS
THE SEAL PEOPLE WILL BE MAKING
TO DISTANT ISLANDS (SHARK, DISAPPEARING
AND GINS) TO COUNT SEALS:
I WOULD PERSONALLY RECOMMEND
AGAINST YOUR GOING. IN MY
VIEW, THERE ARE SAFETY CONSIDERATIONS
IN FAVOR OF NOT GOING, UNLESS
YOU FEEL YOU ARE VERY, ~~VERY~~ WELL
SKILLED IN SMALL BOAT HANDLING
AND RELATED MARINE ~~AND~~ TALENTS.
FOR ONE THING, THREE PEOPLE
IN THE BOAT, VERSUS TWO,

DISAPPEARING IS 16 MILES SOUTH TERN, AT THE VERY SOUTHERN LIMIT OF THE ATOLL.

TAKE MORE GASOLINE. AND GASOLINE IS NOT IN ABUNDANT SUPPLY HERE. ANOTHER FACTOR IS THAT IF A BIG PROBLEM OCCURS (I.E. MOTORS WON'T WORK, BOAT DRIFTS OUT TO SEA) TWO PEOPLE ADRIFT WITH LIMITED FRESH WATER IS A BETTER SITUATION THAN THREE PEOPLE ADRIFT. USE YOUR OWN JUDGEMENT IN THIS MATTER BUT THAT'S MY ADVICE TO YOU.

(ALL OF THE ECOLOGICAL DIVERSITY FOUND AT FRENCH FRIGATE SHOALS IS REPRESENTED ON TERN, WHALE-SKATE AND EAST ISLAND.

DISAPPEARING, SHAETON AND GUNS VIRTUALLY BARE SAND BARS.

YOU SHOULD AND WILL BE VISITING WHALE-SKATE. IT IS USUALLY STOPPED AT FOR SEAL WORK WHEN TRAVELING EITHER TO OR FROM EAST IS. WHALE-SKATE IS AN ATTRACTIVE, INTERESTING ISLAND WHICH YOU WILL ENJOY SEEING.

WHEN THE SEAL PEOPLE GO TO THE DISTANT ISLANDS, PLEASE ASK THEM TO TELL YOU THE NUMBER OF TURTLES SEEN BASKING ASHORE AND ALSO IF PAINT IS PRESENT ON ANY OF THEM. RECORD THE INFORMATION IN THIS BOOK.

OBJECTIVE
2. TO COUNT AND RECORD THE IDENTITIES OF TURTLES BASKING ALONG THE SHORELINE OF EAST ISLAND (WHALE-SKATE TOO, WHEN YOU VISIT THAT ISLAND).

The best time to do this count is between 3 pm and 6 pm, but other times as schedule permits will be O.K. Most turtles on East bask at the Southeast end of the island. An occasional one will haul out elsewhere. Take 45 minutes to walk around the island to do this census. RECORD IN THIS BOOK THE DATE, TIME AND NUMBER SEEN. ALSO ENTER THE PAINTED NUMBERS SEEN, OR THE PRESENCE OF PAINT AND COLOR.

MALES, AS YOU KNOW, HAVE A VERY LONG, LARGE, TAIL. IF YOU ARE ABLE TO DISTINGUISH THEM RECORD AS SUCH. NORMALLY THIS IS NOT POSSIBLE WITHOUT GETTING VERY CLOSE AND BEHIND THEM. YOU SHOULDN'T DO THIS. WHEN WALKING AROUND THE ISLAND YOU SHOULDN'T GET SO CLOSE TO BASKING TURTLES AS TO DISTURB THEM, CAUSE THEM TO MOVE DUE TO YOUR PRESENCE AND RETURN TO THE SEA. AT TIMES THERE EYESIGHT SEEMS VERY GOOD 'OUT OF WATER'. MUCH BETTER THAN WHAT IT'S REPORTED TO ^{SUPPOSE} BE IN THE SCIENTIFIC LITERATURE. ONE COUNT OF BASKING TURTLES PER DAY WILL BE FINE WELL YOU ARE ONE EAST ISLAND. IF YOU WANT TO DO TWO PER DAY THAT WILL BE FINE TOO.

YOU SHOULD NOT ATTEMPT

TO TAG OR RETAG TAGS ON BASKING TURTLES.

ALSO NOTE THAT IT IS NOT UNCOMMON FOR A TURTLE OR TWO TO "BASK" ALONG THE SHORE AT NIGHT. DO NOT CONFUSE SUCH ANIMALS WITH THOSE OUT TO NEST. BASKING TURTLES NEVER GO MUCH ABOVE THE HIGH TIDE MARK. BASKING TURTLES STAY IN ONE PLACE MOTIONLESS FOR LONG PERIODS. TURTLES HAULING OUT TO NEST ARE ~~ALSO~~ ALMOST CONSTANTLY IN-MOTION OR ON THE MOVE.

Decorations

6-23-6-24 East
7-6-24 6-25 Jern
7-6-25 6-26 Jern
7-6-26 6-27 Jern
7-6-27 6-28 Jern

boat
engine
trouble

Sat 6-28 - 6-29
Sun 6-29

Mon 6/30

Tu 7/1 To East Island finally!

Wed 7/2 East Island

Thurs 7/3 East

Fri 7/4 East

Sat 7/5 East, to Whale Kate 3⁰⁰ Jern

7/5 2 AM - patrol missed due
to rain.

Sun 7/6 Jern

Mon 7/7 Returned to East @ 12 N.

Tues 7/8 East = rain

lots of lightning toward Jern
at 2 AM

Wed 7/9 East. Clear but very

windy night = rough seas

Thurs 7-10 East raining in AM

winds continue to blow hard

with rough seas. Cool temp.

Fri 7/11 Sunny but wind

continues to blow

Sat 7-12 Sea

Sun 7-13 Cool found

egg shell = yolk on shell

7-23 Jern; Jern; Whale Kate; Boat; J

OLD TAGS YOU MAY
ENCOUNTER

an old nest but next to
nest gear 39 dug last night.
due to the yolk on the shell
I suspect it was dropped
when nest was covered &
eaten by a ghost crab
rather than a hatched egg.
I have started a AM trap
around the island looking
for hatching tracks. Nothing

yet

Sat 7/12 Sunny, seas calmer, gentle

breeze

Sun 7/13 Returned to Jern @ 9:30 AM.

No sign of hatching yet.

Mon 7/14 Jern

Tues 7/15 Jern

Wed 7/16 Jern - beautiful nest

20 ft from runway Shell Beach

Thurs 7-17 Jern; Whale Skate

at East - quite windy

Fri 7-18

Sat 7-19 Weather John return to Jern

Sun 7-20 East - the sole human

Mon 7-21 East 7-22 return to Jern

Banding Jumbles

Date June
 Nesting
 4:30 pm East side
 4:30 nest to above
 white ? yellow

4:40 SE end #14 yellow
 #11 yellow
 large no #
 smaller no #
 39 green
 16 yellow
 12 yellow
 12 blue * 3268
 21 yellow
 unmarked male

4:28 sprayed on Jerry #

7-1 10:15 pm 25' from pole Ivory A

7-2 2:50 am SE beach unmarked

7-2 4:45 P' by pole 14 yellow

4:45 abandoned equip. 11 yellow

" 25 or 55?

4:45 End SE beach 17 yellow

31 green

10 yellow
yellow 1

Remarks
East IS

returned to H2O + came back to lead
 sprayed #12 blue on Jerry 6/28 AM

Still there at 5:30 Am.

Close to two female seals - pupa ^{East Is}

East Is.

East Is

Backyard Twitter

Date

Time

Location

Remarks

445 SE beach

" " 33 green

" " male unmarked

" " "

" " "

3 PM SE beach unmarked female east

noon SE beach I was up East Is

" " 70 yell. over East Is

" " ? unmarked possible queen Is

5 PM SE sand unmarked male East Is

" " yellow w 10 ↓

" " yellow w 11

" " yellow w 11

" " unmarked East Island

10 PM SE sand apt

6 PM SE sand apt

" " yellow ? East Is.

3:40 PM S of jetty unmarked male " "

" " yellow 10 fimb. adult pup

" " yellow 12 or 17 male East Is

" " unmarked male ↓

" " yellow ? ↓

4:00 PM SE sand apt

Backed turtles

Date	Time	Location	#	Color	Island	Remarks
7-5-86	10 ³⁰ AM	Sector 6	1	unmarked female	Whole Plate	
			2	unmarked close together	" "	
			1	unmarked backer	" "	
			1	" "	" "	close to female ad + pup
			1	unmarked backer	" "	
			3	turtles in very shallow H ₂ O	" "	
7-5-86	11 ⁰⁰ AM	Sector 5	3	backer 10 unmarked		
			1	male backer unmarked	" "	whole seen nearby state on East
				Swampy H ₂ O swimming in shallow H ₂ O		Jalana 15 AM 113 @ 6 AM Wow!
7-5-86	140 PM	Sector 6	1	unmarked backer	Whole State	probably the same turtles as earlier 9 will not count these sightings in totals
7-7-86	3 PM	Sector 6 (SE end of East)	6 or 8	1 yellow? worry green yellow unmarked male blue	East	from Java see above
			39			
			16			
			unmarked male			
			12			

Banding Justles

Male Time Location ID

7-7 cont 3 Pm. 6 27 or 17 yellow
6 50 yellow
6 unmarked
6 99 green
6 11 yellow

4:20 Pm. 5 unmarked

7-8 4:30 Pm. 5 14 yellow
5 small unmarked ♀
6 6 yellow
10 yellow
1 Ivory
39 green
11 yellow
16 yellow
2 unmarked
7 ♀ unmarked
7 ♂ unmarked
6 unmarked

10 Pm. 6 unmarked
7-9. 5 Pm. 7 unmarked
6 6 yellow
unmarked
N. ivory
11 yellow
2 yellow
2 yellow

Island East
East

East

East

♀

♀

Remarks
Probably 17

Banding Swallows
 Date June
 1-9 cont.

Location	Color
6	16 yellow
	39 green
	yellow ♂
	yellow ♂
	L. Ivory
6	2 y.i.D
7	unmarked ♂
6	11 yellow
	R Ivory
	L Ivory
	19 yellow
	16 yellow
	39 green
	? yellow ♂
	unmarked
	? yellow ♀
	17 yellow
	unmarked
	unmarked
	11 R
	14 O
	17 G
	4 16
	12 W
	4 10
	4

7-10 6 AM

4:30 PM

10:30 PM
 4:45 PM

7-11

Island East

East East

male marker East
 female

Remarks

#10000

697

Banking Jubilee

Date	Time	Location	Sex	Color	Remarks	
7-11	cont	6		11 yellow		
		6		N Ivory		
		Shallow 420				
		5		14 yellow		
7-11	10pm	5		1 banker		
	↓	4		unmarked		
7-12	330pm	N 6		0 Ivory		
		↓		unmarked male		
		5 6		L Ivory		
		↓		queen ? ♂		
				yellow ♂		
				16 yellow		
				17 yellow		
				unmarked male		
				40 green		
				R Ivory		
				17 yellow		
				BB Ivory		
				R Ivory		
7-11	9:45pm	5			East	
					Jug + whale skate	
7-11	AM				Jug	
7-17	1030				beach	
	↓				Jug	
					Whale Skate } Center of	
					Whale Skate } island	
					↓ W end island	
					↓ Center of island	
					↓ middle in riot	
					rent - Unable to	
					tag due to absence of	
					tags; Encouraged to tag	

41

Backyard Turthes

Date Time Location

7-17 5 PM Sector 6



7-17

9:30 PM

Sector 5

Sector 6

Sector 5



7-18

4:5 PM

Sector 4

Sector 5

Sector 6

10 PM

Sector 6

7-19

3:30

Sector 1

Sector 6

#	Color	Island East	Remarks
N	Ivory		
O	Ivory		
R	Ivory		
4	10		
4	11		
4	16		
4	?		
	unmarked ♀		
O	Ivory		
	unmarked		
	unmarked		
?	yellow		
O	unmarked		
R	Ivory		
	unmarked ♂		
	unmarked ♀		
16	yellow		
O	Ivory		
Z	Ivory		
	yellow 12		
O	Ivory		
Z	Ivory		
12	yellow		
♀	unmarked		
16	yellow		

same confuser -
 above as at
 4 PM
 now flesh R
 front blue flipper
 head 3' x 1"

Backlog Juntles

Date	Time	Location	# Color	Island	Remarks
7-19	cont.	Sector 6	11 yellow unmarked female unmarked female O Ivory N Ivory E yellow Z green unmarked whale 2 bookers	East	
7-19	9:30pm	Sector 5 Sector 4 Sector 6	16 yellow unmarked unmarked H Ivory unmarked	East	♂ ♀ ♀ ♀
7-20	4:15	Sector 6	unmarked	East	
7-21	1:00	Sector 3 Sector 5	unmarked unmarked	Mar East	
7-21	4:00	Sector 6	O Ivory M Ivory 16 yellow unmarked unmarked 2 yellow 2 yellow J Ivory K Ivory M Ivory	East	
7-22		Sector 4	unmarked 5 unmarked	East	whale skat 2 part East 3 unmarked

CL 87 cm.

Report of Blue 7 971671 (L) flippers
Observation 7-17-86

7-16 Found on Whale Skate by
Rick Vetter, Dick Bass, Q. & FWS

Hum ? Low Engrainment
Head and badly decomposed
Placodon intact

Both front flippers located.
(R) separated from body. (L) still
attached. One rear flipper
located.

(L) front flipper still retained
by. I removed it and will
return it to you.

Carapace - Cracking but only
from sun? No sign of shark
bite on existing remanding.

Head still attached. Jaw mandibles
rather odourless but not
unbearable. Left to decompose. I

separated but present.
by John Henderson

Tent -

Small three corner bear near
floor on left hand side.

Consider using stronger poles
next year. Wind bowed several
poles. Consider using foam
padding on pressure points
between tent and tarp.

Attach them with velcro
fasteners somehow or develop
a frame to support the tarp
above the tent. I also wonder if
it would be better to position
the tent so that a side rather
than a corner was facing
the prevailing easterly winds.

Paint -

Yellow paint seems to remain visible longer than green or blue. In any case very visible in the water. Did you consider red or orange?

Shovel - long handled the shovel broke during my efforts to dig up some of the tent stakes

Hatchlings

7-21 9 AM discovered several

dead hatchlings across island from seal vent

7-21 9 PM 100 (approximate) hatchlings emerged from vent

7-23 2 PM nest dug due to

lost time on East

1 live turtle but deformed

1 dead turtle

28 unhatched eggs

100 hatched egg shells

nest condition 18" deep sand and few small twigs few small coral snails easy digging when sheets followed.

Up the hatchlings were entering the water, a monk seal appeared very interested in the small turtles, moving quickly to look at the turtles in the immediate environment. Seal swam away as the turtles departed.

Volunteer program

During the next year, NMFS should consider formal mechanism for accepting volunteers to work in the NW Hawaiian Islands similar to NFWS's program. There are several Florida Turtle people who might be interested in volunteering for a month if such a program was available. It would be great to have a person on East, whale skate & Laysan all monitoring the turtle activity; tagging & spraying ID markers on turtles

Other thoughts!

When you resurvey the turtles in the Laysan, please call me so I can come & assist.
9487121
7350586

Next year?

If it can be arranged, I would like to go back to FFS for part or all of the summer. If Laysan closes, I realize there will be radical changes in the situation and field work; but that doesn't deter my interest. We will see what next summer brings as 1986-87 progresses.
m.

I cannot totally express my thanks for the opportunity to go to FFS and interact with the creatures and beauty. It is a unique experience which I will treasure always.
m.

PAINT LETTER

JAG NO.

TAG NO.

ENT # 470

9787 L

ENTD DEC 2 1999

Curved length =

EAST ISLAND

DATE/TIME AM

ACTIVITY

REMARKS

6/23 PM/86

N

N

10:15 PM. B N/S

25' from pole

*6/23 PM/86

N

N

"B"

= 19 yellow

CL =

DATE/TIME AM

ACTIVITY

REMARKS

*6/23 PM/86

N

N

C [ENTD DEC 2 1993]

TAG NO.
9788L
9789R

CL =
DATE ^{PM}
AM

ACTIVITY
N

Remarks

X 6/23 PM

D

[ENTD DEC 2 1993]
7765

Date
X 6/24 AM

Activity
N

Remarks

Irony E tag 9668 (L) 7-1-11 am

Yellow 4 9669 (L) 6/2/86

TC 4 9668 9669 6/2/86 643

Irony F date 1/30 7/11



first applied
NESTING
BR 5T
6/2/86

new Tagging tagged (L) 9790

Irony F date 1/30 7/11

Remarks (not tag)

already tagged 9716 *2
9717

Inventory G
3AM

Inventory H tag 9713 D
June 10 50 PM N

Remarks
Still digging @ 7:15 AM.

X 7/2 3AM N

Remarks
Nestling in front of tent

X 7/2 10:55 PM N

Remarks
S. side of island
departing at 2:30 after digging three holes

X 7/3 6AM N

Remarks
Slightly S of tent across island

X 7/3 10PM N

Remarks
S. side of island

X 7/5 11:05 AM N/S

Remarks
Seen in shallow H₂O

X 7/8 5:50 AM N

Remarks
Whale Skate SE end of dept; near pole; still in area at 8 AM

X 7-11 10 AM N

Remarks
sector 1

X 7-17 9:30 PM N

Remarks
sector 2

X 7-18 10 PM N

Remarks
sector 1

X 7-19 9:30 AM N

Remarks
sector 1

X 7-20 4 PM N/S B

Remarks
sector 5

A 7/9 5:45 AM N

Remarks
sector 5

X 7-10 2:40 AM N

Remarks
sector 5

X 7-11 5:30 AM N

Remarks
sector 1

X 7-11 10 PM N

Remarks
sector 5

Inventory G
4-25-84

LENO DEC 3 1993

George I = green 49 tag 6073

X 7-3 6 AM N

100ft S of pool

X 7-3 near basket

N/S

sector 6

George J

LENO DEC 3 1993

new rec. not seen by me tag 3788

X 7/3 6 AM N

Humor of back of upper close to skull smaller than a tennis ball humor protrude

X 7/4 6²⁰ AM N

X 7/5 5⁴⁵ AM N?

under back temp. of turtle left

X 7/9 10²⁵ PM N

sector 4

X 7/20 10 AM N?

crawling down center of island sector 5-4.

X 7-20 9⁰⁰ PM N

sector 2

X 7-21 1⁰⁰ AM N

sector 10

X 7-21 4 PM N/S B

sector 6

7/3 pm - 7/4 AM

9

from on 4-25-89

TC 34 1986 by me
tag # 7180 (R)

434
[ENTD DEC 8 1993]

Free on 4-25-87

CL 90
 X 7/4 10:50 pm N Between jetty & tents but across island
 X 7-17 9:30 pm N Sector 2
 X 7-18 1:30 pm N Sector 1
 X 7-19 5 am N Sector 2
 X 7-21 4 pm N/S Sector 1
 X 7-22 4 am N Sector 5

TC 166 by me
tag # 9163 (L)
 [ENTD DEC 8 1993] 91682 (R)
 reversed

N/L
 X 7/4 10 pm N SE end of East
 X 7/6 3 pm N/S banking Sector 6
 X 7-9 5 pm N/S banking Sector 6
 X 7-8 4:30 pm N/S banking Sector 6
 X 7-7 3 pm N/S banking Sector 6
 X 7/10 4:30 N/S banking Sector 6

[ENTD DEC 8 1993]

(R) 15019
(L) 9763

M = ? yellow
CL 104

X 7/5 6:00 AM N

next ↓ of pole
on beach

never deposited
eggs. Left
at 7:30 AM.

X 7-20 9:00 AM N
X 7-21 4:00 PM N/S B
X 7-22 1:24 AM N
 4:00 AM N

sector 1
sector 4
sector 2
sector 2

new
newly 7165 (R)
not see
by me 7190 (L)

[ENTD DEC 8 1993]

X 7/8 2:45 AM N

SE of pole

~~7-8 4 PM~~ ~~beaching~~ ~~sector~~ ~~to~~ ~~island~~

X 7-9 5 PM N/S beaching sector 6
X 7-11 4:45 N/S In shallow H2O sector 6-5
X 7-18 5 AM N/S B
X 7-19 3:30 PM N/S B

from on
4-25-89

ENTD DEC 8 1993

TC 20 1976

O = 4
RW 3597
L 3587

Date	Time	Opportunity	Remarks
X 7-18	5:45 Am	N	Very disoriented by small light Everytime I tried to read tags she would lunge off in other direction

X 7-11	4:20 pm	N/S B	sector b
X 7-12	3:30	N/S B	sector b
X 7-17	9:30 pm	N/S B	sector b
X 7-18	4 pm	N/S B	sector b
	1:10 pm		↓
X 7-19	3 pm	N/S B	sector b
X 7-19	10:45	N	sector 5
X 7-20	2 am	N	sector 5
X 7-21	4 pm	N/S B	sector b

ENTD DEC 8 1993

TC 28 1986

In P
X 10:30 pm 7:18 US backing on beam
X 1:30 pm N/S sprayed

X 7-9 10:30 pm N Sector 3
X 7-10 3:30 pm deposing eggs " "

7-25-82

Q omitted due to possible confusion with O

LV B
 X 7-10 2:45 AM Yellow 6
 X 7-9 5 PM N/S banking
 X 7/10 4:30 N/S banking
 X 7/11 4:45 N/S banking
 X 7-16 5 PM N/S B
 X 7-18 4 N/S B
 X 7-22 12:45 AM N

LINTO DEC should be entered the way
 5756
 sector 4-5
 sector 6
 sector 6
 sector 6
 ↓
 sector 4
 sector 5

7200 on
 4-26-89

DEC 8 1993

DEC 8 1993

(L) 7177

(R) 3653

upside down embedded in skin

X 7-10 6 AM

X 7-11 4:50 PM

N

N/G B

sector 1

sector 6

T = yellow 7

X 7-10 6 AM

X 7-11 9:40 PM

X " 11:30 PM

N

N

sector 1

sector 1

coming ashore sector 4

X 7-12 3:45 AM

X 7-18 10 PM

N

N

sector 1

sector 5

4-25-84

[ENTU DEC 8 1993]

Joe U

X 7-10 6 AM

N

sector 1

9791 (R)

newly applied

[ENTU DEC 8 1993]

Joe V = 24

X 7-10

6 AM

learning after digging sectors

4-25-89

DEC 8 1993

For W
9666 10°
9682

(R)
(L)

X 7-10 1030 PM N Sector 8
X 7-11 445 N/O B sector 6
X 7-11 1130 N south of coal trail
learning at 345 AM
X 7-18 1 AM N sector 5

Counts New
As New
Envt. 142
For X Record Foray 1/4/86
3254
3255

(L)
(R)

X 7-11 530 AM N R-flipper
deemed accurate
when I learned too
over. No apparent
injury.

4-25-84

[ENT'D DEC 8 1993]

new

by 9192 (R) applied
 X 7-11 10 PM N
 X 7-13 1140 N
 7-18 4 PM B
 7-18 4 PM B

new 9193 (R) applied
 [ENT'D DEC 8 1993]

Z CL 101 mm
 X 7-11 1140 PM N
 X 7-13 1230 AM N
 X 7-18 4 PM N/B B
 X 7-18 10 PM N/B B

sectors 5
 sectors 5
 continuing
 at 3:45

sector 1
 sector 4
 sector 6
 ↓

4-25-84

[LIND DEC 8 1993]

new

9794 (R) applied

AA

98

X 7-11

1:50

N

sector 5

X 7-18

10 PM

N

sector 5

X 7-18

5 AM

N

sector 2

over 8 AM

N

sector 2

never deposited eggs.

BB

7-12

midnight

? basking on
"nealing below"
high tide mark
had large hole
dug. sector 4
couldn't see top
as it left.

small tumor on
front; close to
shell between head
and flapper.

7-12

3:45 B

Basking sector 5

to a male wong

7-13

12:45 AM

N

Hyperactive when
approached
sector 4

[LNTD DEC 8 1993]

7173
TC 24

(R)
(L)

can't be read, no time to scrape
Sector 10

CL 92
7-12 940am N

~~CL~~ (intense marking, close together)
CL 92 my error in measuring these letters) full slender if embedded in skin
9681 (9680)
7-19 2:10am N Sector 2

DD
CL 100mm
7-12 10pm N Sector 4
7-20 830 N Sector 1

new tagged 9795R
Small tumor underneath
flapper

12/28/93 note
Delete

This turtle should not have been tagged with 9795, as this number was returned to me unused in July 86.

ENTD DEC 8 1992 7:30

5394 (L)
5322 (R)

CL 100 mm

7-13 12:10 N

Sector 2
almost crudd.
RTT bund.
Sector 2

340
[almost crudd.]

COULDN'T
GET TOGETHER

1986 (3427) (L) → 7523
by me (9771) (R) → 9770, 9771
Factorial 4
Factorial 5

FF 96.5 mm

7-13 12:45 N
4 AM N

Factorial 4
Factorial 5

ENTD
DEC 8 1992

[ENTR DEC 8 1993]

GG

CL 9D

X1-19 v2 AM N

X2-20 ~~v2~~ AM N

Sector 1
headed for 400
after spray
Sector 1

new tag 5146 (R)

Not seen previously (L)

[ENTR DEC 8 1993]

5:00 AM N Sector 10

9:30 PM N "

4:00 AM N Sector 10

H 14

X1-19

X1-19

X1-21

notes

IT [DEC 8 1993]

CL 20 9:30 m N

Section 9

tried to apply
9796 but

it got bent

so she moved

away to 42's edge

try again tomorrow
night

9766 (L)

9764 (L)

[ENT'D
DEC 8 1993]

JJ 94.5

X1-19 10:20 pm

X1-20 9:20 pm

N

N

Section 5

Section 1

[ENTO DEC 9 1993]

KK

X7-19 1PM

N

sector 7

X7-20 5AM

N

sector 5

15020 (R)

9781 (L)

LL

X7-20 2am

N

sector 7

small tumor close to (R) to g

9718 (R)

9719 (L)

[ENTO DEC 9 1993]

[UNITO DEC 93] (L)

2207 + 2

2 stage upoude-doul

MM = 11 yellow

CL 97

likely 2209

N

Section 6

100km

4pm

N/S B

X

Swamp

[UNITO DEC 93] (L)

6208

6207

N

Section 8

100km

4pm

N

X

7-21

Swamp

[ENTD DEC 9 1993]

00

CL 93.5 cm.

X 40 1-21 N

X 22 4pm N

Section 4

Section 1

R 9175

00

RP

CL 96.5

X 17-21 9pm

N

Section 3

tagged 9198

[ENTD DEC 9 1993]

Count

9797

tagged

ENT # 468

P.R

CL 89

X	7-21/86	pm	N	section
X	1-22	12 ⁴⁵ pm	N	section-3
X	.	400	N	section



Nesting Turtles P. 3

June

1961
11/10/61
11/11/61
11/12/61
11/13/61
11/14/61
11/15/61
11/16/61
11/17/61
11/18/61
11/19/61
11/20/61
11/21/61
11/22/61
11/23/61
11/24/61
11/25/61
11/26/61
11/27/61
11/28/61
11/29/61
11/30/61

Nesting Turtles
Date No. with paint

7-11 7-12 ✓ 6
 7-12 7-13 ✓ 2
 7-17 7-18 ✓ 3
 7-18 - 7-19 ✓ 3
 7-19 7-20 ✓ 5
 7-20 - 7-21 ✓ 7
 7-21 - 7-22 ✓ 5

No. newly seen (Painted)

0.2
 4
 3
 0
 3
 4
 2
 3

No. with old tags

2
 1
 2
 0
 3
 3
 2

No. with new tags

3
 1
 0
 0
 1
 0
 2

Total added to nest

10
 5
 3
 0
 4
 0
 2

5146

[INTO DEC 9 1993]

green 71

7-20

2am

5am

one
entry

N

sector 6

deposited eggs

" "

" "

~~9701~~

9701
16020

green 40

7/11 11:40 pm

N

comung
shore sectors
sectors

7/12 3:30 N16 B

not
entry

[INTO DEC 9 1993]

ENTFO
DEC 9 1993
Yellow 19
7/10 4:30 PM N/S BASKING

sector 6

yellow 17
7/10 4:30 PM. BASKING

7/10
7/10

green 99

7/7 3 PM

backing

pecker

4 50

7/7 3 PM

backing

pecker

not entered
100

100

ENTD DEC 9 1999

2009

ENTD DEC 9 1999

4-16-07
 4/7 3 PM N/S banking Sector 6
 4/10 4:30 PM N/S banking Sector 6
 X 7/11 4:30 N/S B Sector 6
 X 7/12 3:30 N/S B Sector 6
 X 7/17 5 PM N/S B
 X 7/19 3 PM N/S B Sector 6
 X 7/20 4 PM N/S B Sector 6
 X 7/21 4 PM N/S B Sector 6

Yellow 12
 X 7/4 4 PM N/S banking Sector 6
 X 7-9 10:30 moving inland Sector 3
 to treat
 X 7-10 6:15 N Sector 3
 X 7-18 4 PM N/S B Sector 6
 7-18 10 PM B

not entered

not entered 100 bush

not entered 100 bush

[ENTD DEC 9 1993]

green 17

X 1-7 10²⁰ am N

reached vicinity to light 2

buckling motion

SE end of island

⊙ by head as facing west

X 1/8 2:30 am N

3:10 am N

1 ft in front of turtle tent door

5:30 N

S of turtle tent

not entered

[ENTD DEC 9 1993]

91000
91001

yellow 14

X 6 am 7/14 N

north west tip of east

X 7-11 4:45 pm N/6 B sect 5. sand apt just above

X 7-12 3:30 N/5 B sector 5

not entered

not entered 110 tent

not entered 110 tent

COUNTS OF BASKING TURTLES

DATE/TIME	ISLAND	NO. WITH PAINT	NO. WITH NO PAINT	TOTAL SEEN
7-1	East	10	3	13
7-2	East afternoon	8	2	10
7-3	East	6	3	9
7-4	4:00pm East	4	2	6
7-5	1:00pm Whale Skate	1	13	14
7-7	3pm East	9	3	12
7-8	East	7	6	13
7-9	East	10	2	12
7-10	1:00pm East	1	0	1
7-10	4:30pm ↓	9	2	11
7-10	10pm ↓	0	1	1
7-11	4:45 ↓	9	1	10
7-11	10pm ↓	0	2	2
7-12	3:30	10	2	12
7-12-7-13	PM-AM	1	0	1
7-16	Jug + Whale Skate	0	8	8
7-17	Whale Skate	0	3	3
7-18	4:17pm East	5	3	8
↓	10:00 ↓	3	0	3
7-19	3pm ↓	6	4	10
7-19	9:30pm ↓	2	2	4
7-20	4:30 pm. East	2	4	6
7-21	9:00, 11pm ↓	0	2	2
7-21	1:30	0	1	1

Date	Island	No with paint	No without paint	Total
7-21	4pm East	9	3	12
7-21	9:30am East	?	?	?
7-	↓	?	?	?
7-22	12:45pm East	?	?	?
7-23	Whale Skate	5	0	5
	Jug East	0	3	3

not entered

not entered no total

9/14
9/15

[ENTD DEC 9 1993]

yellow 10

1/3 5 PM N bookery

SE sand spit East

yellow 1 on 4

1/3 5 PM bookery

SE Sand spit East

not entered
110 tubes

green

[ENTD DEC 9 1993] 91074
yellow 10

5pm
from us and study

- x 7/3 backing SF and opt sector 6
- x 7/4 3:40 NIS backing N&L sector 6
- x 7/8 10:15 NIS sectors B
- x 7/11 4:45 pm NIS B
- x 7-17 5 pm NIS B

resprayed I 7/3
tag 6073 (P)²

green 49

x 7/3 5:50 AM

N

100 ft S

W. of pole

not entered
100 ft S

[ENTD DEC 9 1993] 15019
9-763
Yellow 3 2 K5006

7-3 530 AM N

Below hutch-
under fence.
SR left when
approached

91071
91072

5 yellow

Date: 7/2 55 AM
Activity: N

Remarks
Full digging
@ 700:2
whether needed

[ENTD DEC 9 1993]

[ENTO DEC 9 1993]

9446

yellow 8

Date

7/2 3:30 am

Activity

N

Remarks

6079
6074 [ENTO DEC 9 1993]

green 35

Date

4-7-1 1:35 pm

Activity

N

Remarks

not
entirely
100%

not
entirely
100%

NUMBER OF TURTLES NESTING EACH NIGHT ON EAST IS.

DATE (PM TO AM)	NO. WITH PREVIOUS PAINT	NO. NEWLY SEEN - FIRST TIME PAINTED	
6/23-6/24	5	PH 2AM	
6/24-6/25	On Isen		
6-25 - 6/26	On Isen	in Rick's	
6-26 - 6-27	On Isen	went to Shore	
6-27 - 6-28	On Isen	engine trouble	
6-28 - 6-30	" "	" "	
7-1 - 7-2	6	2	
7-2 - 7-3	4	2	
7-3 - 7-4	4	1	
7-4 - 7-5	2	1	
7-7 - 7-8	3	1	
7-9 - 7-10	2	0	
7-10 - 7-11	3	2	

OF THOSE, NO.
WITH OLD
TAGS

2

NO. THAT
NEW TAGS
WERE APPLIED

2

(Column 1+2)

TOTAL
NO. ASHORE
TO NEST

8

records engine trouble

Island no backing turtles engine trouble

1

1

8

2

0

6

1

0

5

1

0

3

1

0

4

0

0

2

1

0

10

2

0

5

not entered
no tag

[ENTD DEC 9 1993]

Yellow 29
7/1 10:30 PM N

5471 [ENTD DEC 9 1993]
5475

Yellow 11
7/1 10 PM N

X 7/2 4:45 PM N/S backing near abandoned pup

X 7/2 10:55 PM N across island from tent. All there at 2:30 AM & 6:10 AM. Hung three holes

X 7/3 5 PM N/S Backing SE sand apt

X 7/3 10:10 PM IV

Just above high-tide line N of pole

X 7/4 2:40 AM N

Across island from seal tent

X 7-7 3 PM N/S backing sector 6
X 7-8 5 PM N/S backing sector 4
X 7-10 4 AM

X 7-10 4 PM N/S backing sector 6

X 7-11 4:45 PM N/S backing sector 6

X 7-12 3:30 PM N/S backing "

X 7-17 5 PM N/S "

X 7-19 3 PM N/S B

not entered into book

[ENTO DEC 9 1993]

7 Ivory (L)

Queen (R)

9673

X-11- 2:45 AM

N

Section 6

[ad DEC 9 1993]

20 yellow ?

4/24 2AM

nesting

LINTO DEC 9 1993

3963

greens
6-24 AM meeting
resprayed left

X 7/4 4:45 am backing end of island

- X 7/7 3pm N/S backing sector 6
- X 7/9 5pm N/S backing sector 6
- X 7/10 4:30pm N/S backing sector 6
- X 7/10 10:30pm N sector 1
- X 7/11 6:00am N left when approach sector 1

[LINTO DEC 9 1993]

37 yellow
6 12:4 meeting at Parryway

1. sector
2. sector
3. sector
4. sector
5. sector

not entered
1:00 PM

LENTO DEC 9 1992

FC 41 Dunes

10/23 PM 3129
6207 X 2

X	X 7-21	2 AM	N	Sector 10
X	X 7-21	6 AM	N	Sector 10
X	X 9	Br	N →	note to
X	X 7-22	1245 AM	N	sector 2
X				

not entered
100 tabs

TAGS APPLIED FFS

9668
 9669
 9682
 9663
 9666
~~966~~
15019
15020
9680
 9681
 9674, 9675
 9671, 9672
 9673

copy sent to [unclear]

not entered into tag

with

9767, 9763

9787, 9788, 9789, 9790

9712

9713, 9714, 9716, 9717, 9718, 9719,

9790, 9791, 9792, 9793,

9794, 9795, 9797, 9798,

9766, 9764, 9781

9775, 9798, 9797,

9674, 9675

9671, 9672

9673

not
entire
no tab