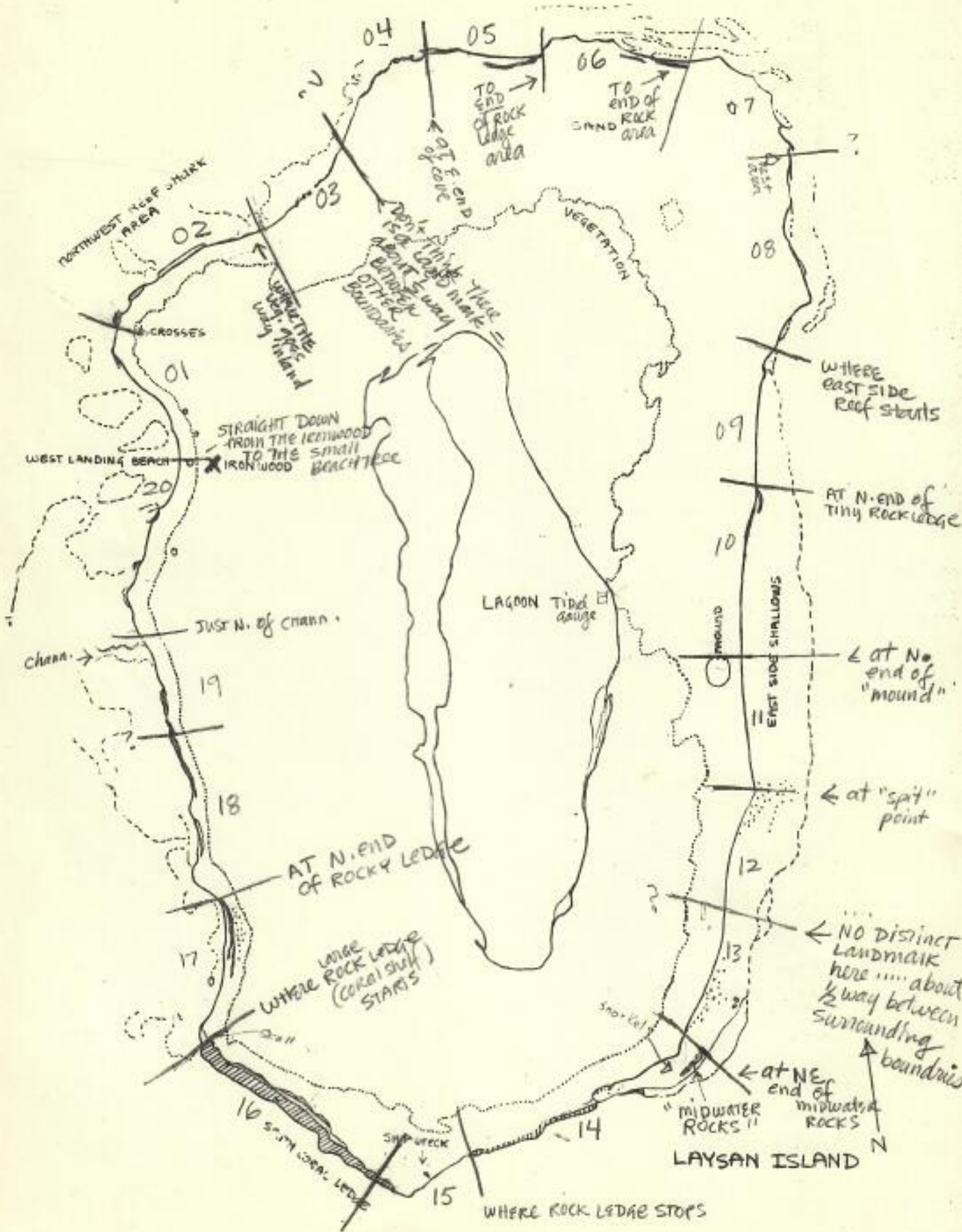


# TURTLES

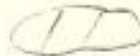


Laysan

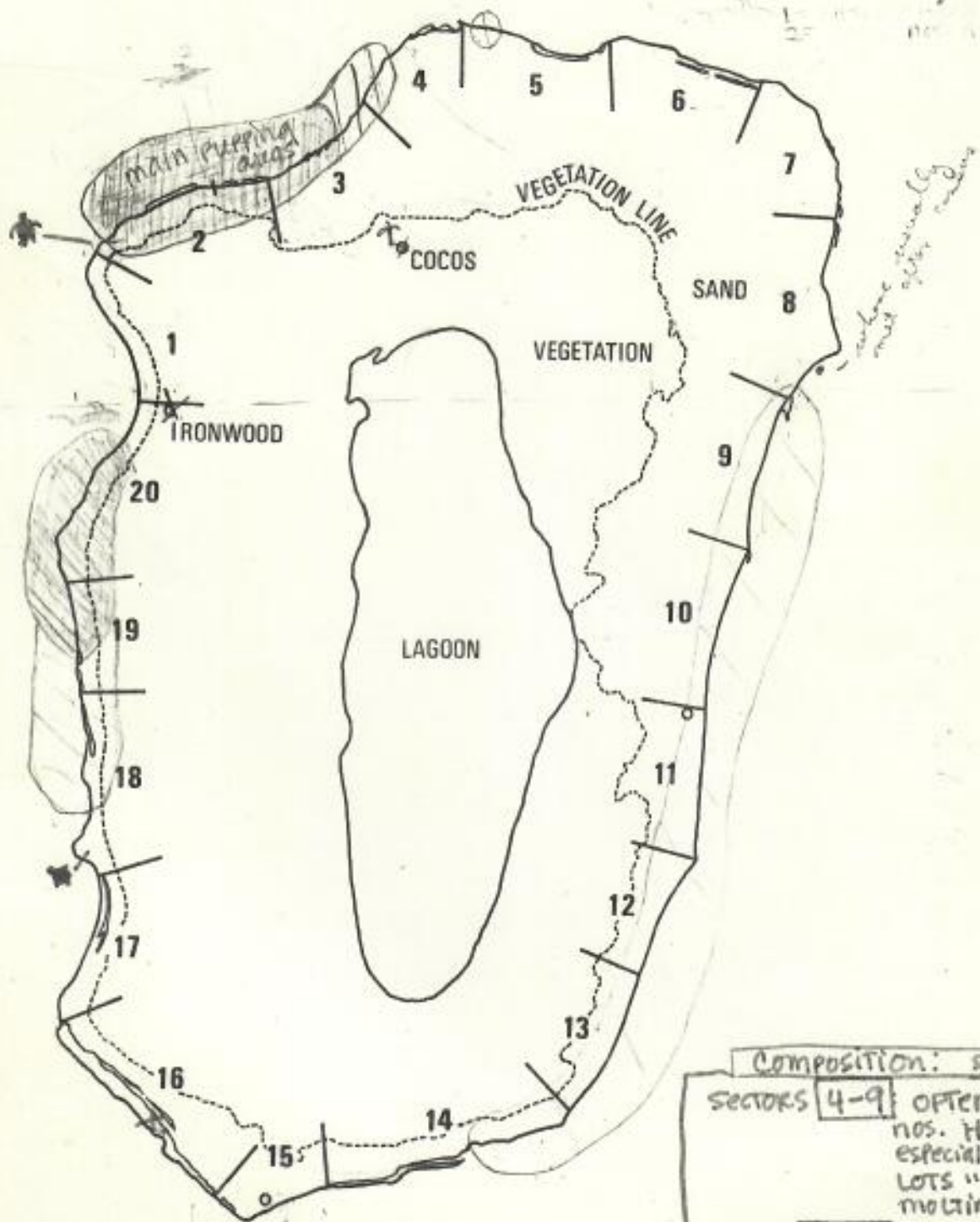
1984

LAYSAN SECTORS  
1983



# LAYSAN SECTORS - 1983

-  PUPPING AREAS
-  MAIN PUPPING AREAS
-  MAIN TURTLE HAUL-OUTS FOR BASKING



1983  
 11/10/83  
 11/11/83

**18-20, 1-4**  
 LOTS MOMS + PUPS  
 PLUS WEANERS.  
 OTHER AGES/SEXES  
 HERE TOO.

**17** ADULT MALES  
 MOST COMMON,  
 BUT CAN SEE  
 FEMALES, S+JUVS  
 BOTH SEXES HERE.

**16**: no seals (BUT  
 DID SEE A PAIR  
 HERE ONCE FOR  
 SEVERAL DAYS....  
 female was  
 injured) = X.

**COMPOSITION: SEALS**

**SECTORS 4-9**: OFTEN HIGHEST  
 NOS. HERE,  
 ESPECIALLY 5-8.  
 LOTS "PAIRS" LOTS  
 MOLTING FEMALES.

**9-14**: counts often  
 LOW. usually  
 NOT many CRUISERS  
 (southern)

**15**: male HANGOUT  
 PLUS some YOUNGER  
 SEALS BOTH SEXES.  
 ADULT FEMALES (+S)  
 INFREQUENT, BUT  
 HAVE BEEN SEEN  
 HERE.

6

CODE  
EXPLANATION

OBSERVER - THREE INITIALS

CENSUS - CHECKED WHEN CONDUCTING CENSUS

PATROL - WHEN WALKING BEACH TO BLEACH, COLLECT SCATS, ETC.

PAGE - IF CENSUS TALLY <sup>OR PATROL</sup> REQUIRES TWO PAGES THEN MARK FIRST PAGE AS "PAGE 1 OF 2" AND SECOND SHEET AS "PAGE 2 OF 2."

TIME

BY A 24 HOUR CLOCK  
eg. 1800 = 6 p.m.

TEMPERATURE - IN DEGREES CELSIUS

WIND

0 - NO WIND, CALM  
1 - LIGHT BREEZE  
2 - STRONG WIND

EG: 2 NE

= LIGHT BREEZE FROM NE  
STRONG WIND

NW - DIRECTION

N -

NE

E

SE

S

SW

W

CLOUD COVER -  
EG. { 0 - NO CLOUDS  
1-9 - 10% TO 90% COVER  
10 - 100% COVER

PRECIPITATION -

0 - NO PRECIPITATION  
1 - MIST / DRIZZLE } more or less all day  
2 - RAIN  
3 -

WEATHER INFORMATION SHOULD BE RECORDED AS A SUMMARY OF ENTIRE DAY, NOT MERELY INSTANTANEOUS OBSERVATION.

SECTOR - LOCATION ON ISLAND BY REGION (eg ON LISIANSKI ISL. 1-49)

AGE CODE -

P	PUP NURSING/SUCKLING, PRIOR TO WEANING
W	PUP WEANED
J1	JUVENILE I
J2	" II
S3	SUBADULT III
S4	" IV
A	ADULT
T1	TURTLE - JUVENILE
T2	" SUBADULT
T3	" ADULT

I = Immature

# CODE

## SEX

- F - FEMALE
- M - MALE
- U - UNKNOWN

## ID#

OF SEAL IF KNOWN

- COLUMN MARKED/CHECKED IF ID# IS QUESTIONABLE

## BLEACH #

- MAY BE SAME AS ID# ON SOME ISLANDS

- COLUMN CHECKED IF BLEACH # IS QUESTIONABLE

## TAG #

FOUR DIGIT NUMBER PLUS TAG COLOR: G = GREEN <sup>plastic</sup>  
 K = KURE GRAY <sup>plastic</sup>  
 M = METAL

- COLUMN CHECKED IF TAG # IS QUESTIONABLE

## BEACH POSITION

- LOCATION OF SEAL: 0 - IN WATER (WHICH MEANS IT WILL NOT BE INCLUDED IN CENSUS TALLY BUT USED FOR BEHAVIOR INFO)  
 1 - ALONG WATERLINE  
 2 - MID BEACH  
 3 - IN VEGETATION ZONE OR HIGH BEACH

## MOLT STATUS

IN PERCENT - 0 NO MOLTING EVIDENT  
 1-99 MOLTING TO - %  
 100 COMPLETELY/FRESHLY MOLTED

- CHECKED IF MOLT STATUS QUESTIONABLE

EG. 

	?
50	✓

 = SEAL BELIEVED 50% MOLTED BUT PRONE POSITION MAKES ESTIMATE QUESTIONABLE

## DISTURBANCE LEVEL

- THE DEGREE THAT SEAL MAY HAVE BEEN DISTURBED BY PRESENCE OF OBSERVER

1 vocalizing <sup>2/POP</sup>

- SPACE LEFT BLANK SIGNIFIES NO DISTURBANCE
- 2 - SEAL ALERTS TO OBSERVER AND MOVES AWAY TWO OR MORE BODY LENGTHS
- 3 - SEAL ALERTS TO OBSERVER AND FLEES INTO WATER

## TIME

- INCLUDED AT OBSERVERS OPTION, EG TO NOTE TIME OF A BEHAVIOR, ETC. RECORDED AS A 24 HOUR CLOCK. eg. 1800 = 6 p.m.

Association Data (A, B, and C): There's room to describe 3 different associations (A, B, + C). These directions will be for A, but B + C follow the same sequence.

1) line #: identity of other party

a) entangleable object

- NR - net and/or rope
- FL - flotsam

b) individual seal (turtle): put its line <sup>entry #</sup> here

2) closest distance

- 0 - body contact
- 1 - < 2 m
- 2 - 2 - 5 m
- 3 - > 5 m

3) behavior

a) entangleable object (< 2 m away)

- E - subject is entangled
- L - association by location on beach only

b) individual seal (turtle): ACTIONS - direct

L - association by location on beach only ( $\leq 5$  m apart except for mother-pup pairs)

S - sniff/nudge

T - threat-directed behavior at other indiv., if it's a mutual behavior, then defined as threat at  $\geq 2$  m

J - joust/spar/fight - mutual threat at < 2 m distance

B - bite

D - displace

C - chase

F - flee

P - play

N - mother-pup pair

M - mount/attempted mount

## Associations Recorded

### I. Active associations:

- A. must take place w/in 100 m of observer
- B. subjects may be any distance apart

### II. Passive associations.

- A. noted as observer comes abreast of the subject
- B. entangle-able object: distance  $\leq$  2 m away
- C. individual seal (turtle)
  - 1) mother-pup pair: any distance
  - 2) all others: distance  $\leq$  5 m away
    - a) adult ♂ seals: only put an "L" in the behavior category
    - b) all others: record 2 nearest neigh in a straight line of sight

