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THE WEST COAST OIL THREAT IN PERSPECTIVE

An Assessment of the Natural Resource,
Social and Economic Impacts of Marine Oil Transport
In Southwest B.C. Coastal Waters

Volume III

Maps

prepared for

ENVIRONMENT CANADA

by

HOWARD PAISH & ASSOCIATES LTD.
Environmental and Resource Management Consultants



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April, 1972

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PREFACE

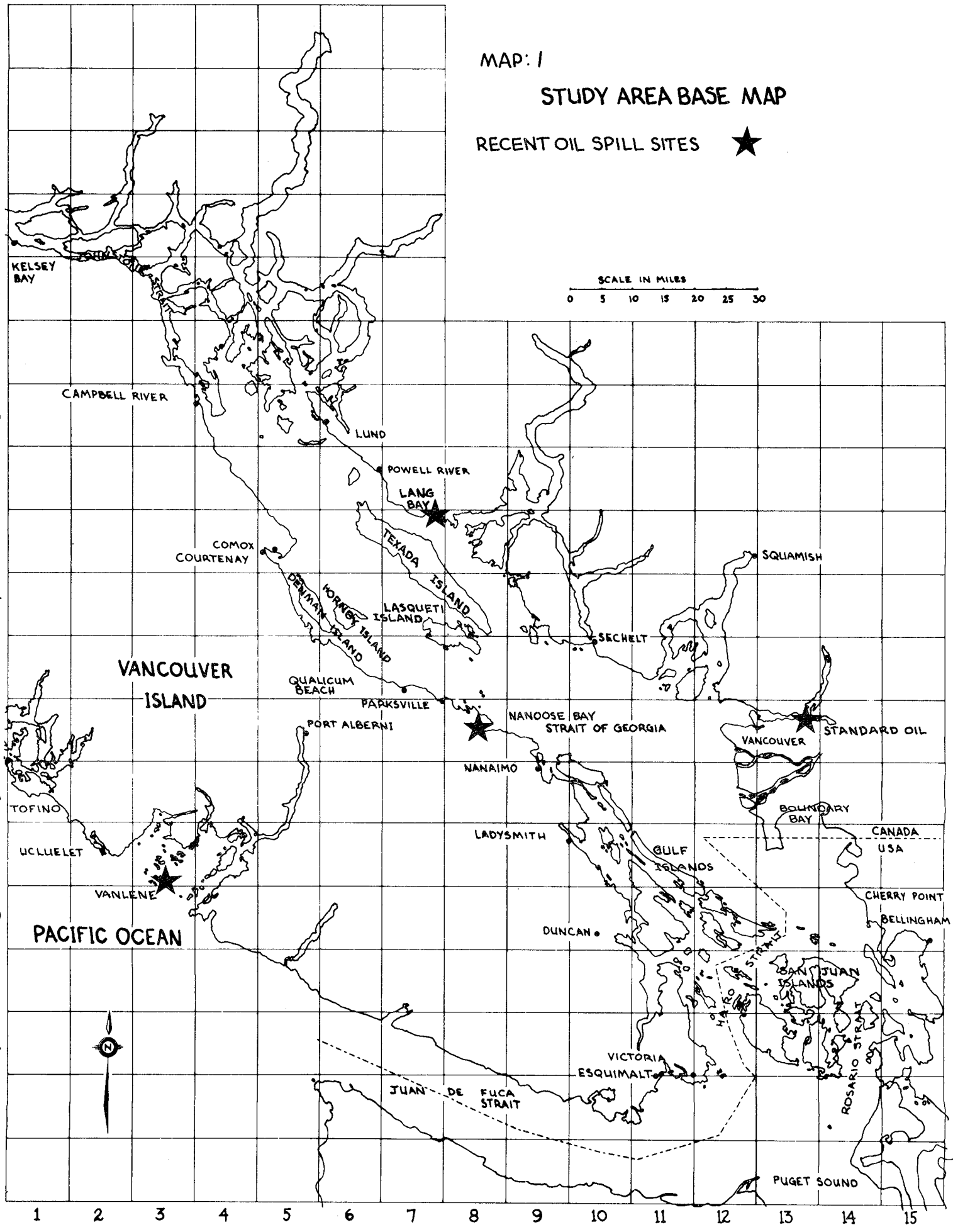
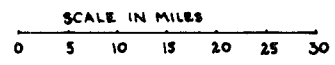
This third volume of the study report "The West Coast Oil Threat in Perspective" consists of the thirty-four maps referred to in the main report (Volume II). A title list follows this preface.

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MAP: I
STUDY AREA BASE MAP
 RECENT OIL SPILL SITES ★



MAP : 2

TIDAL CURRENTS

MAXIMUM COMMONLY OCCURRING
CURRENT SPEEDS:

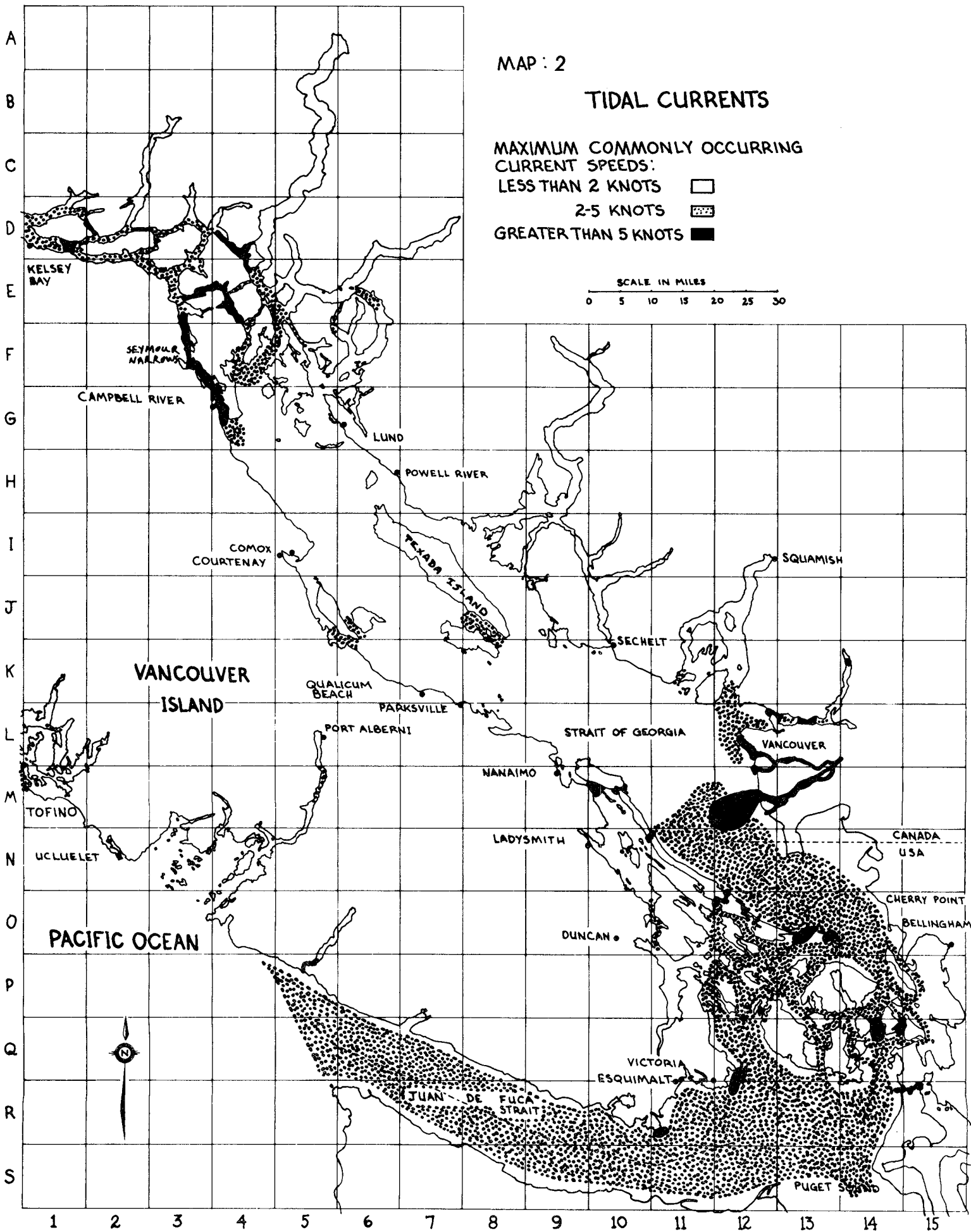
LESS THAN 2 KNOTS 

2-5 KNOTS 

GREATER THAN 5 KNOTS 



SCALE IN MILES

0 5 10 15 20 25 30

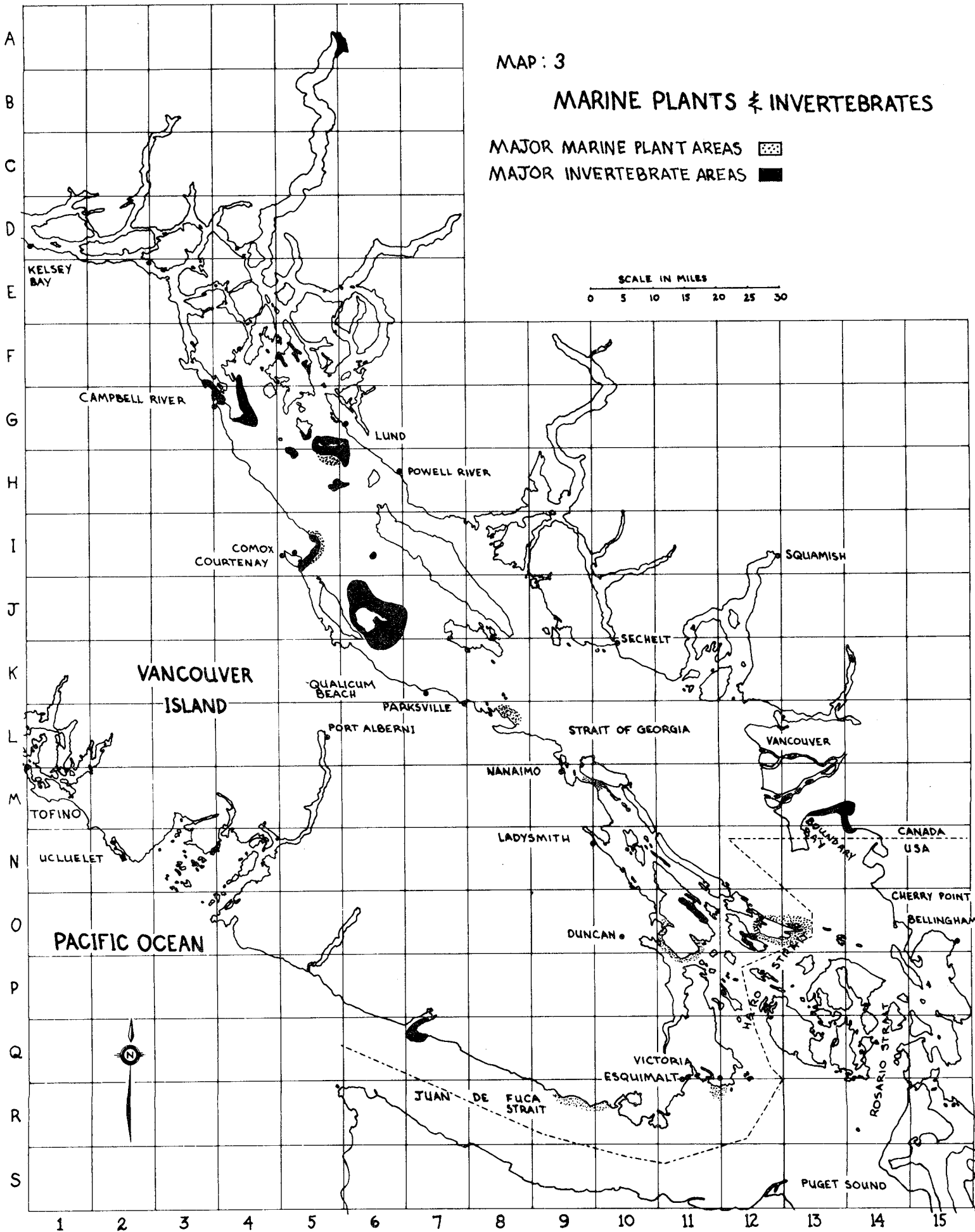


MAP: 3

MARINE PLANTS & INVERTEBRATES

MAJOR MARINE PLANT AREAS 
MAJOR INVERTEBRATE AREAS 

SCALE IN MILES
0 5 10 15 20 25 30



MAP: 4

SHRIMP, PRAWN & CRAB

SHRIMP & PRAWN AREAS

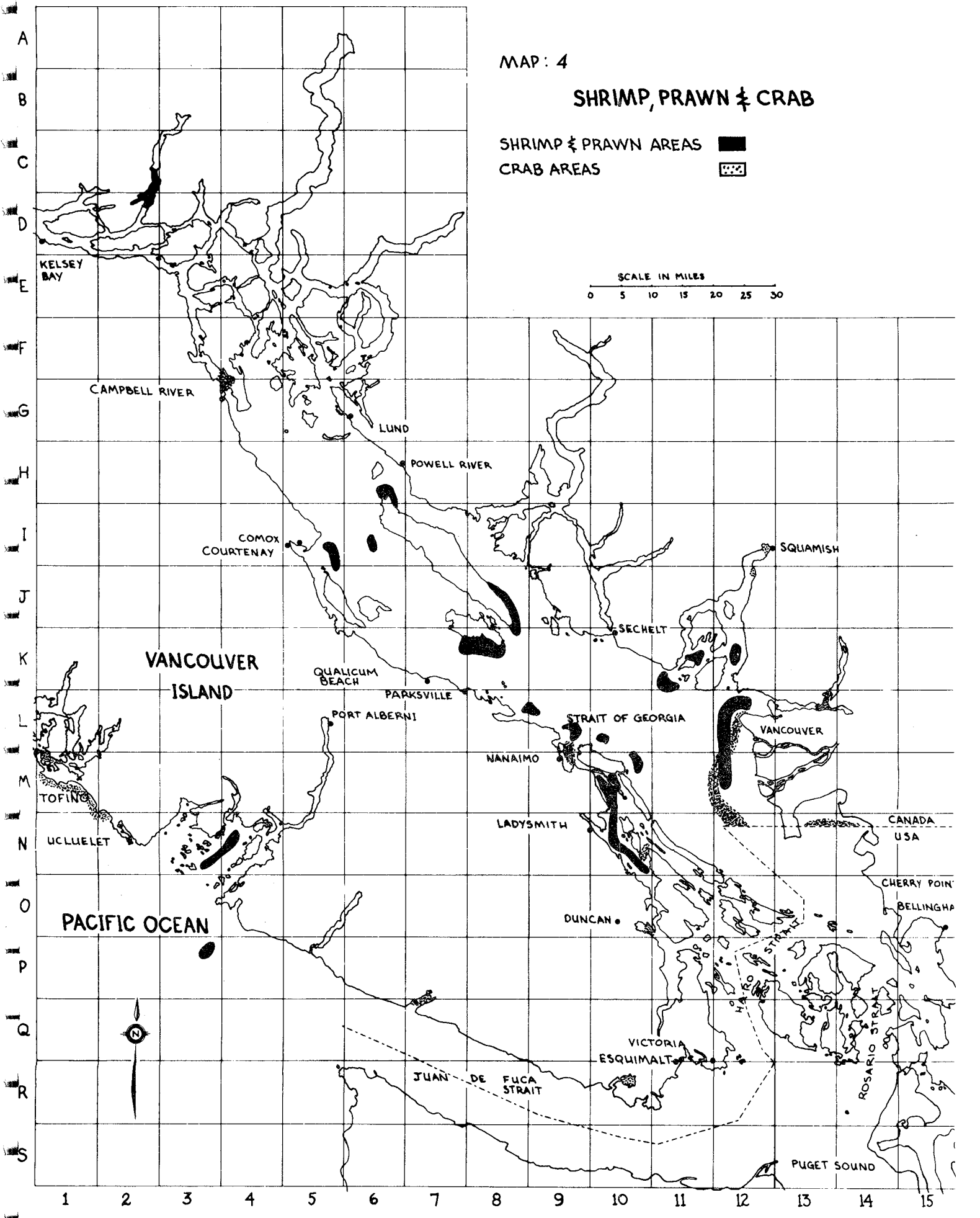


CRAB AREAS



SCALE IN MILES

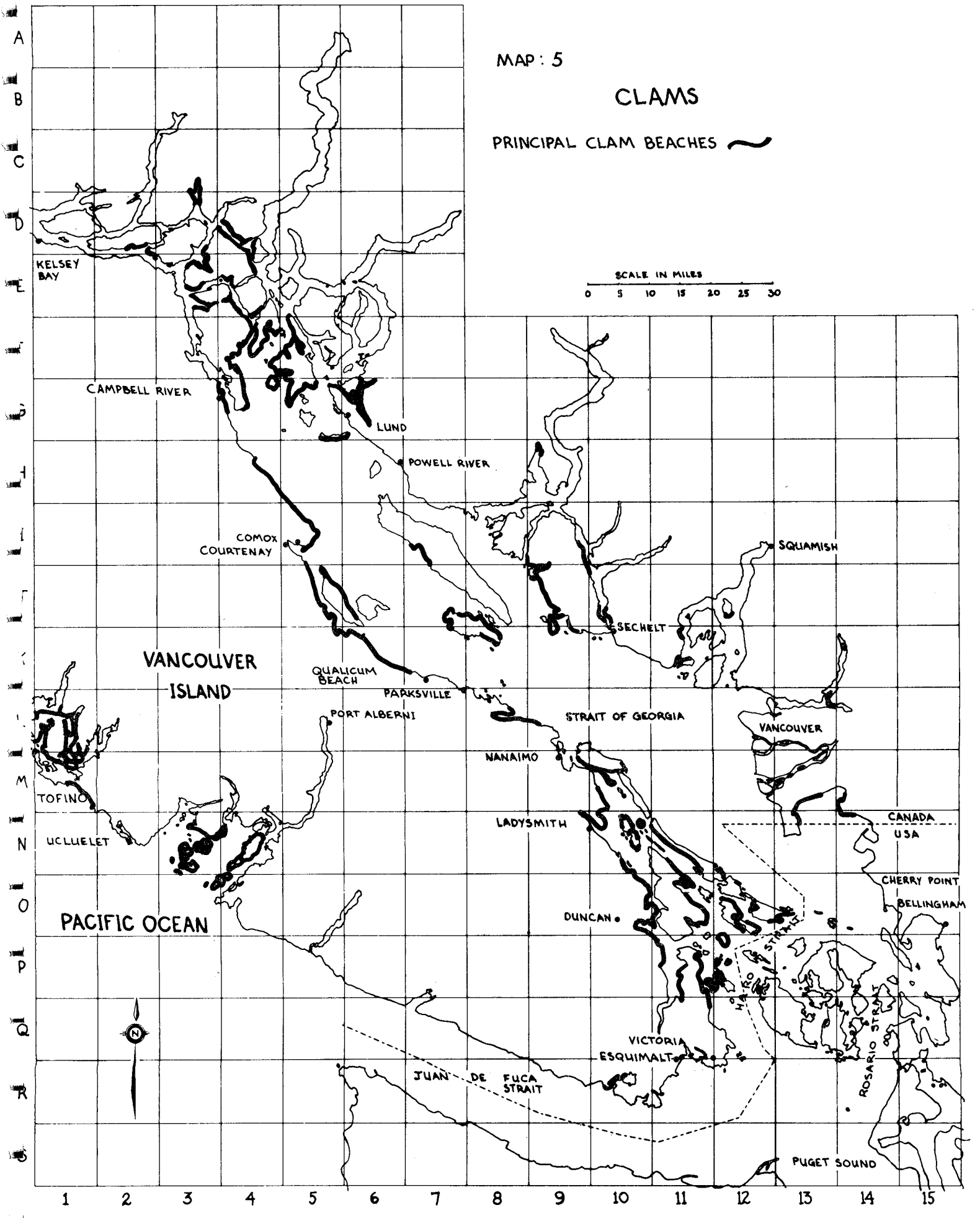
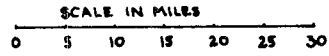
0 5 10 15 20 25 30



MAP: 5

CLAMS

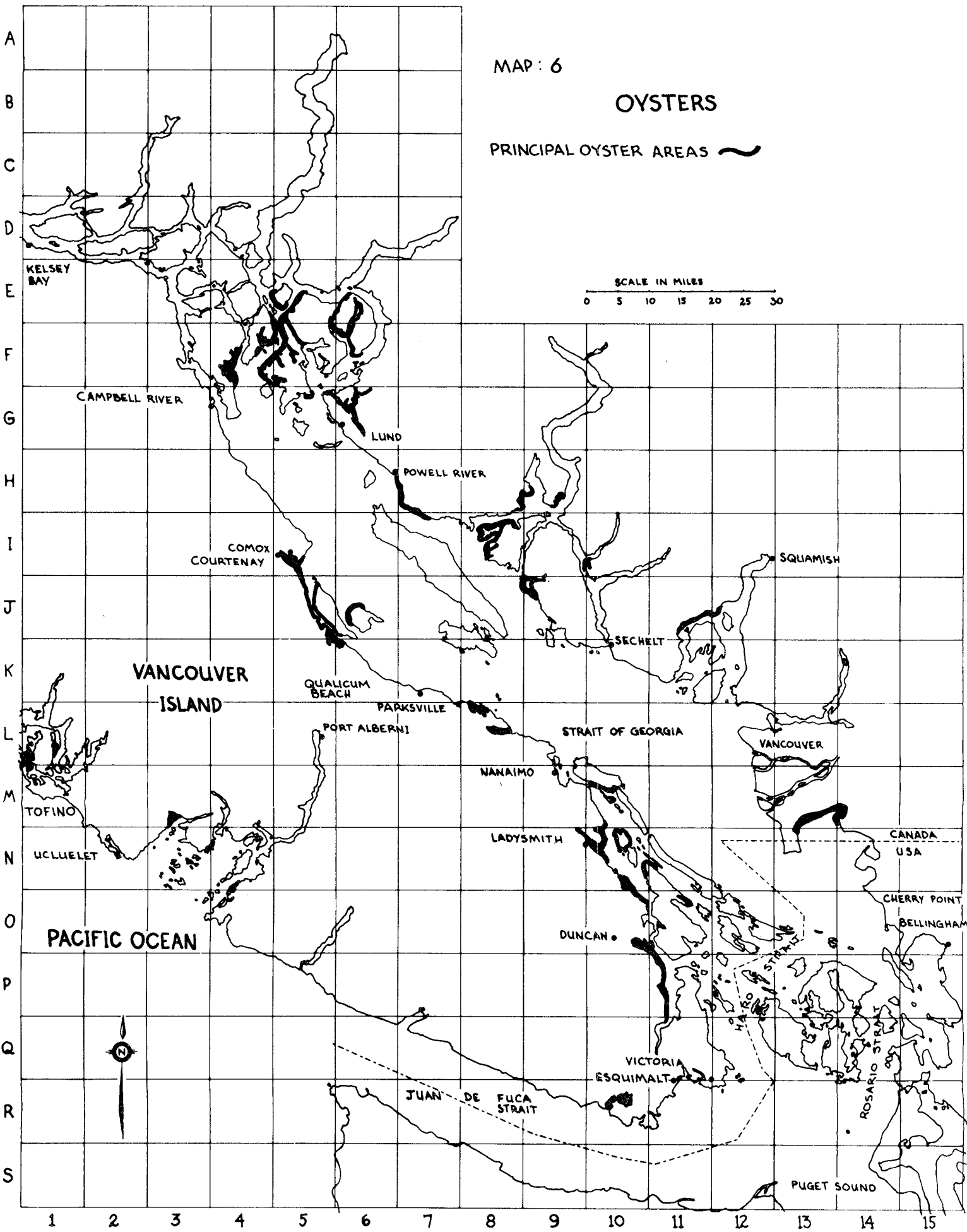
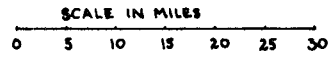
PRINCIPAL CLAM BEACHES ~



MAP: 6

OYSTERS

PRINCIPAL OYSTER AREAS ~

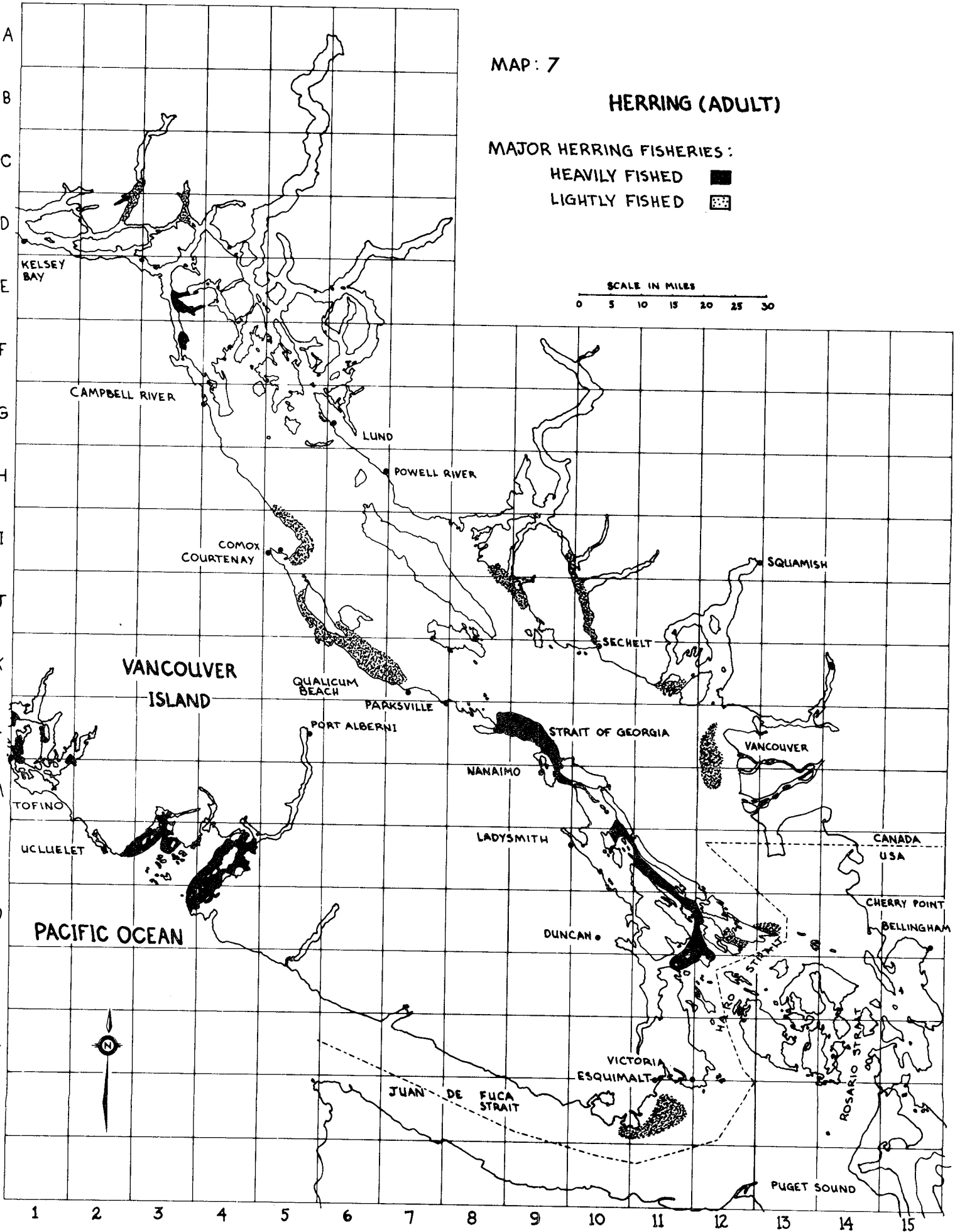
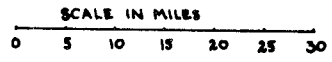


MAP: 7

HERRING (ADULT)




MAJOR HERRING FISHERIES:

- HEAVILY FISHED
- LIGHTLY FISHED

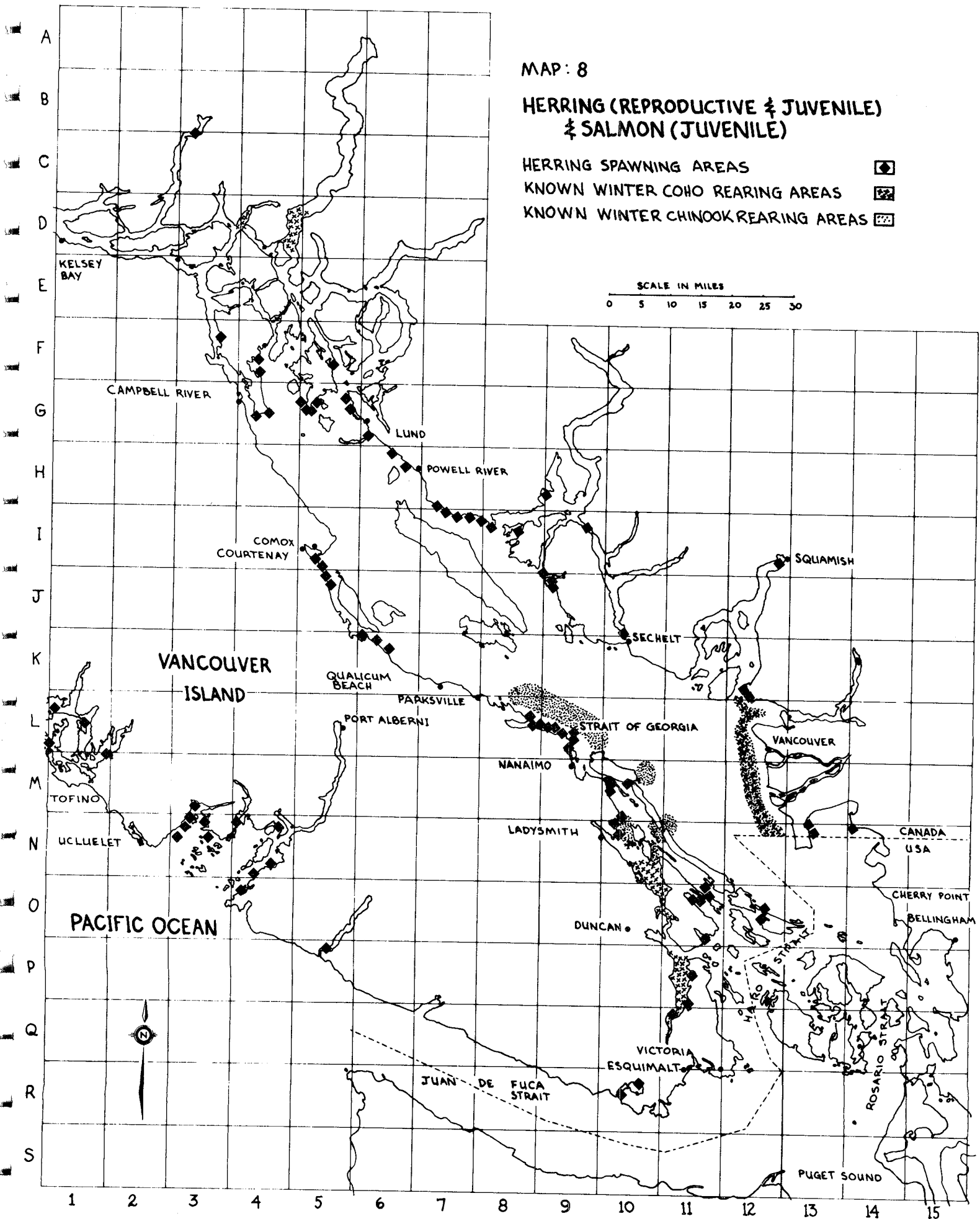


MAP : 8

HERRING (REPRODUCTIVE & JUVENILE)
& SALMON (JUVENILE)

- HERRING SPAWNING AREAS 
- KNOWN WINTER COHO REARING AREAS 
- KNOWN WINTER CHINOOK REARING AREAS 

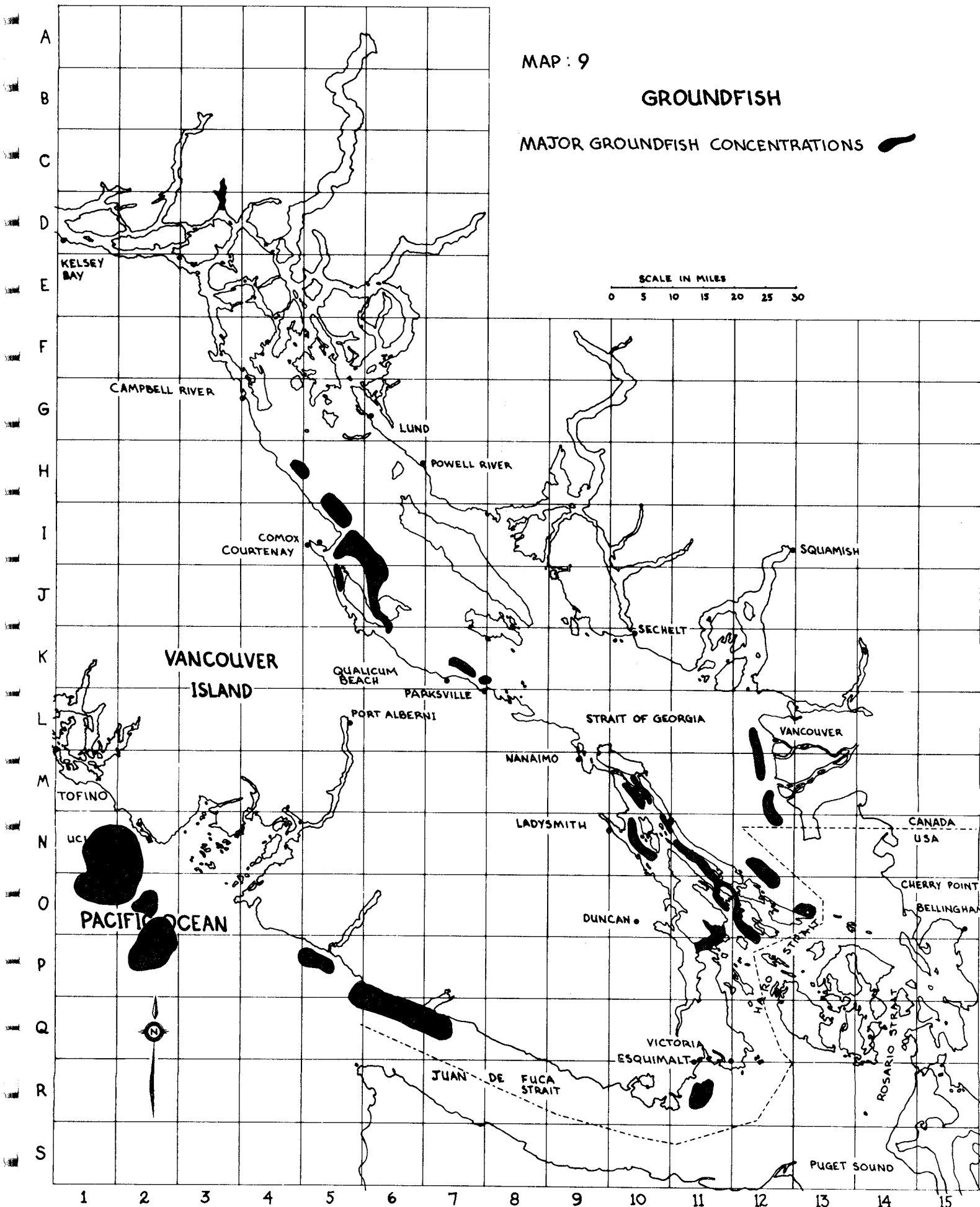
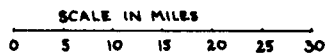
SCALE IN MILES
0 5 10 15 20 25 30



MAP : 9

GROUND FISH


MAJOR GROUND FISH CONCENTRATIONS



MAP: 10

SALMON (ADULT)

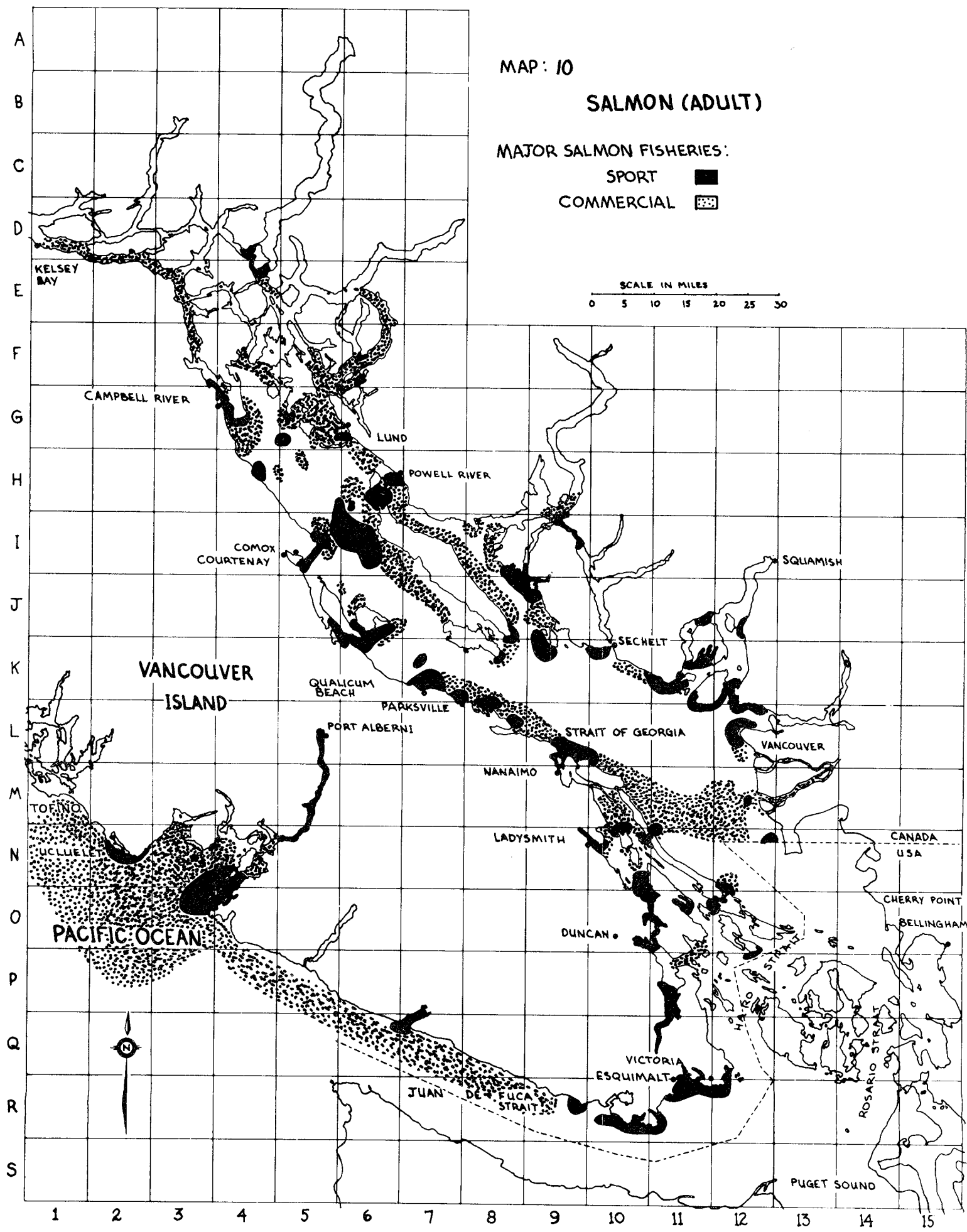
MAJOR SALMON FISHERIES:

SPORT 

COMMERCIAL 

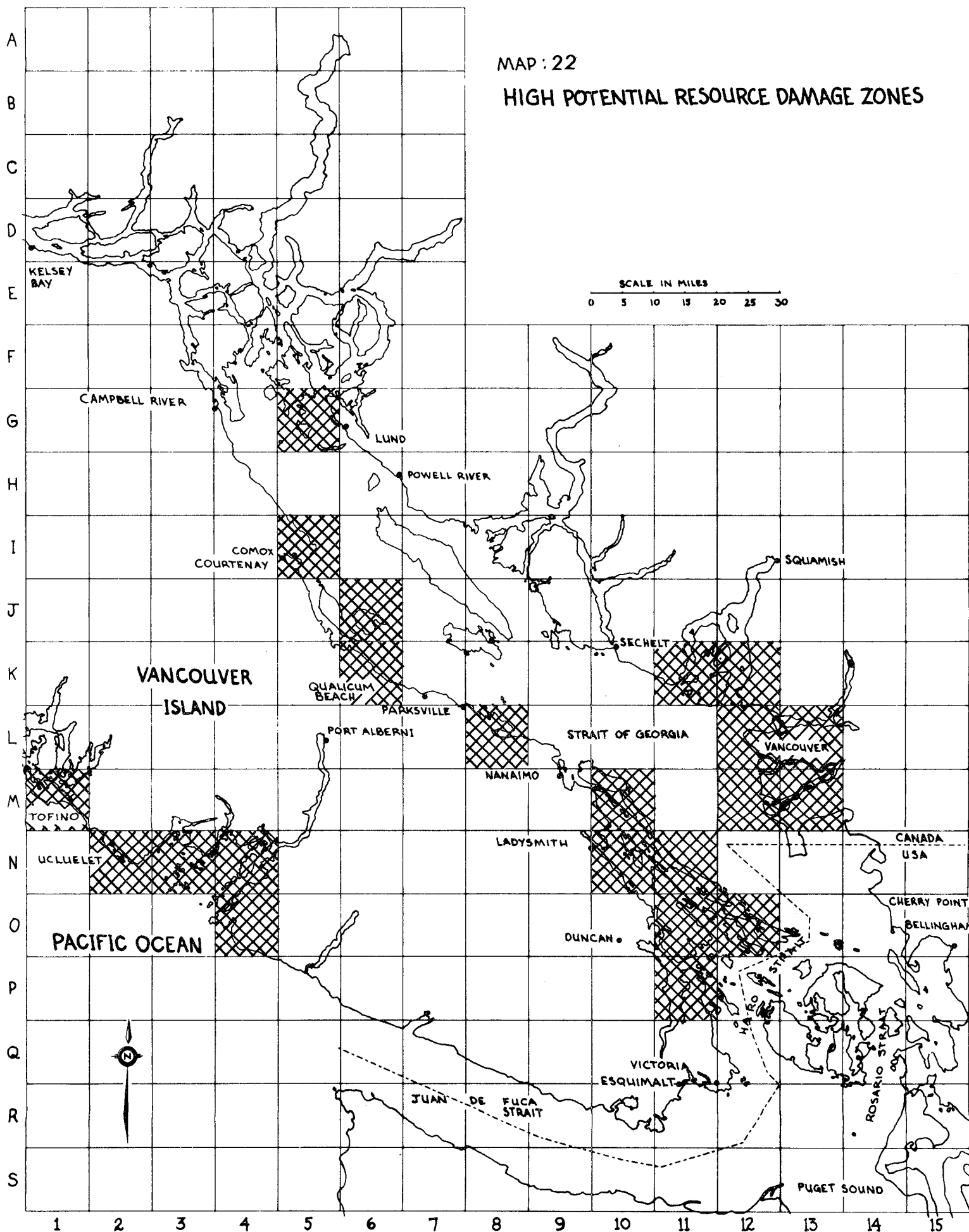
SCALE IN MILES

0 5 10 15 20 25 30





MAP: 22

HIGH POTENTIAL RESOURCE DAMAGE ZONES

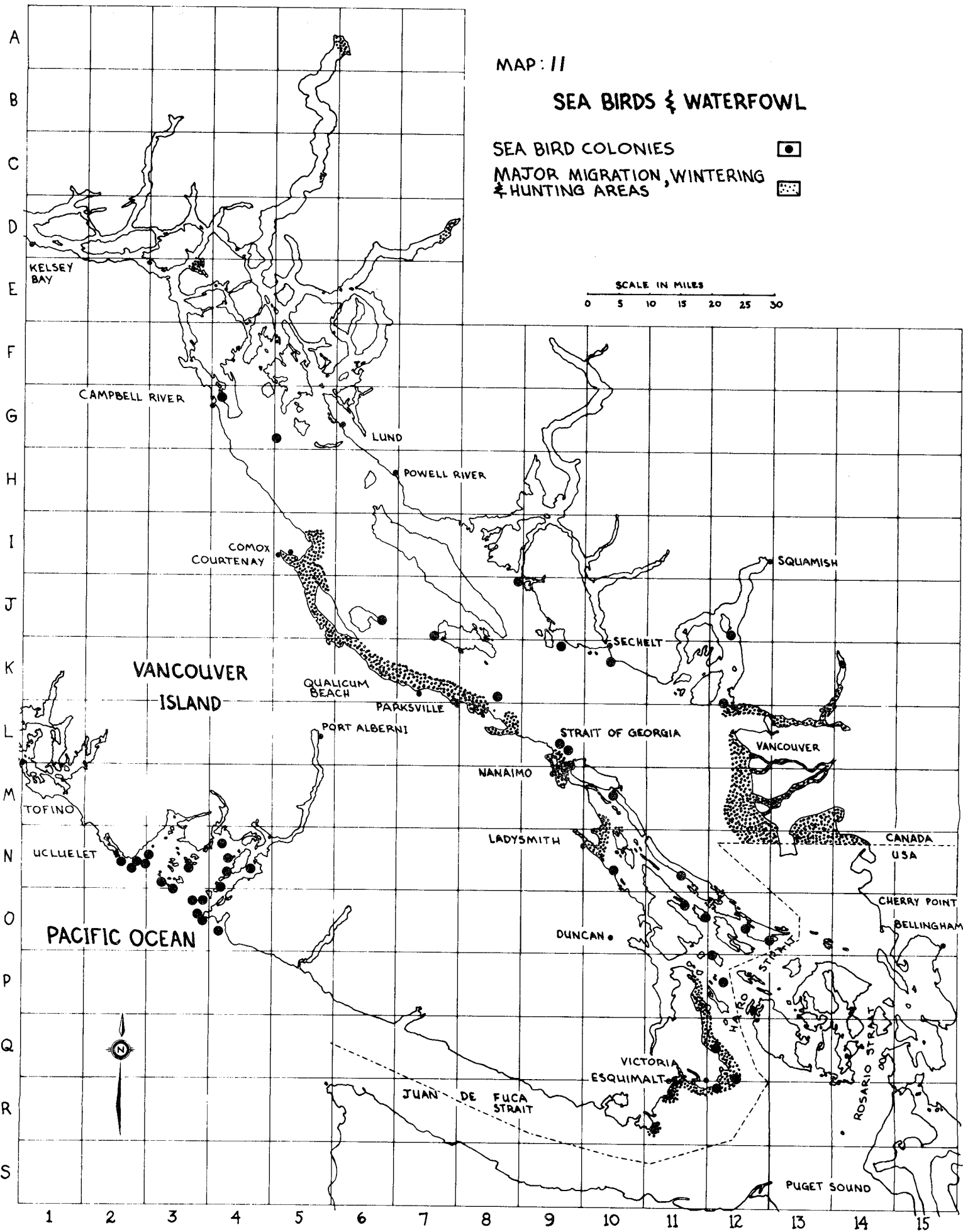


MAP: II

SEA BIRDS & WATERFOWL

SEA BIRD COLONIES 
MAJOR MIGRATION, WINTERING & HUNTING AREAS 

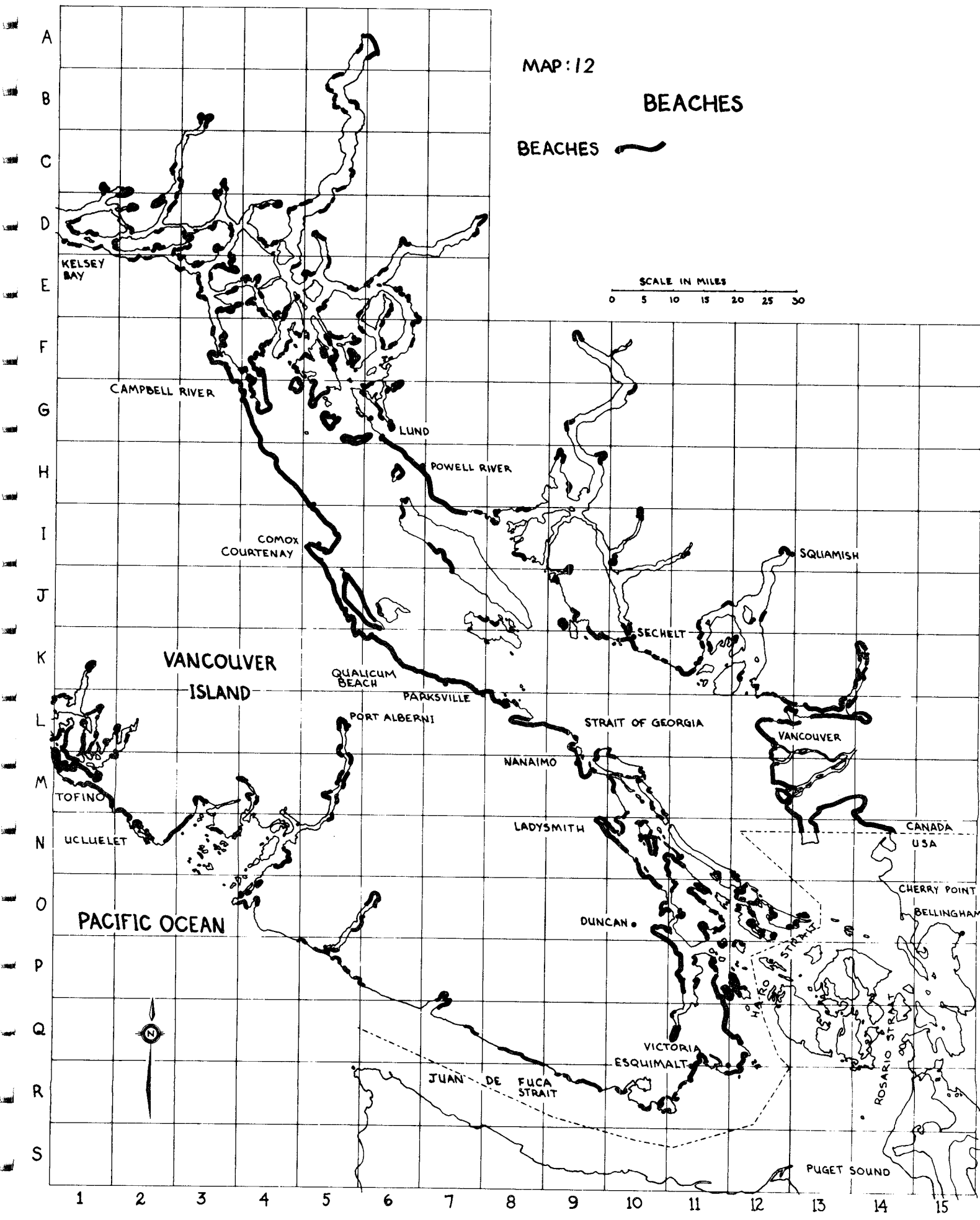
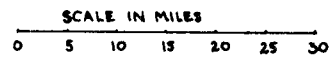
SCALE IN MILES
0 5 10 15 20 25 30



MAP:12

BEACHES

BEACHES 



A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P
Q
R
S

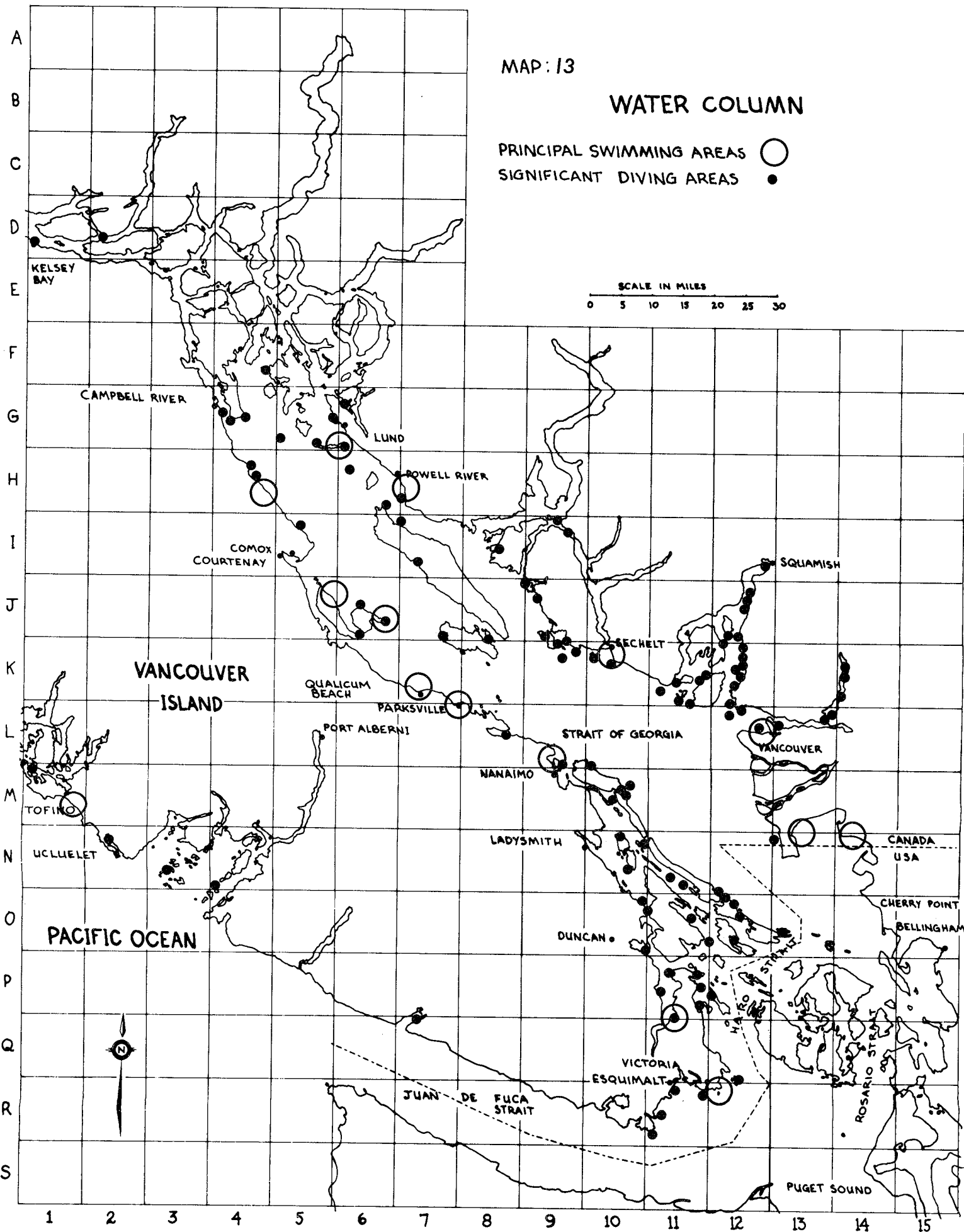
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

MAP: 13

WATER COLUMN

PRINCIPAL SWIMMING AREAS ○
SIGNIFICANT DIVING AREAS ●

SCALE IN MILES
0 5 10 15 20 25 30

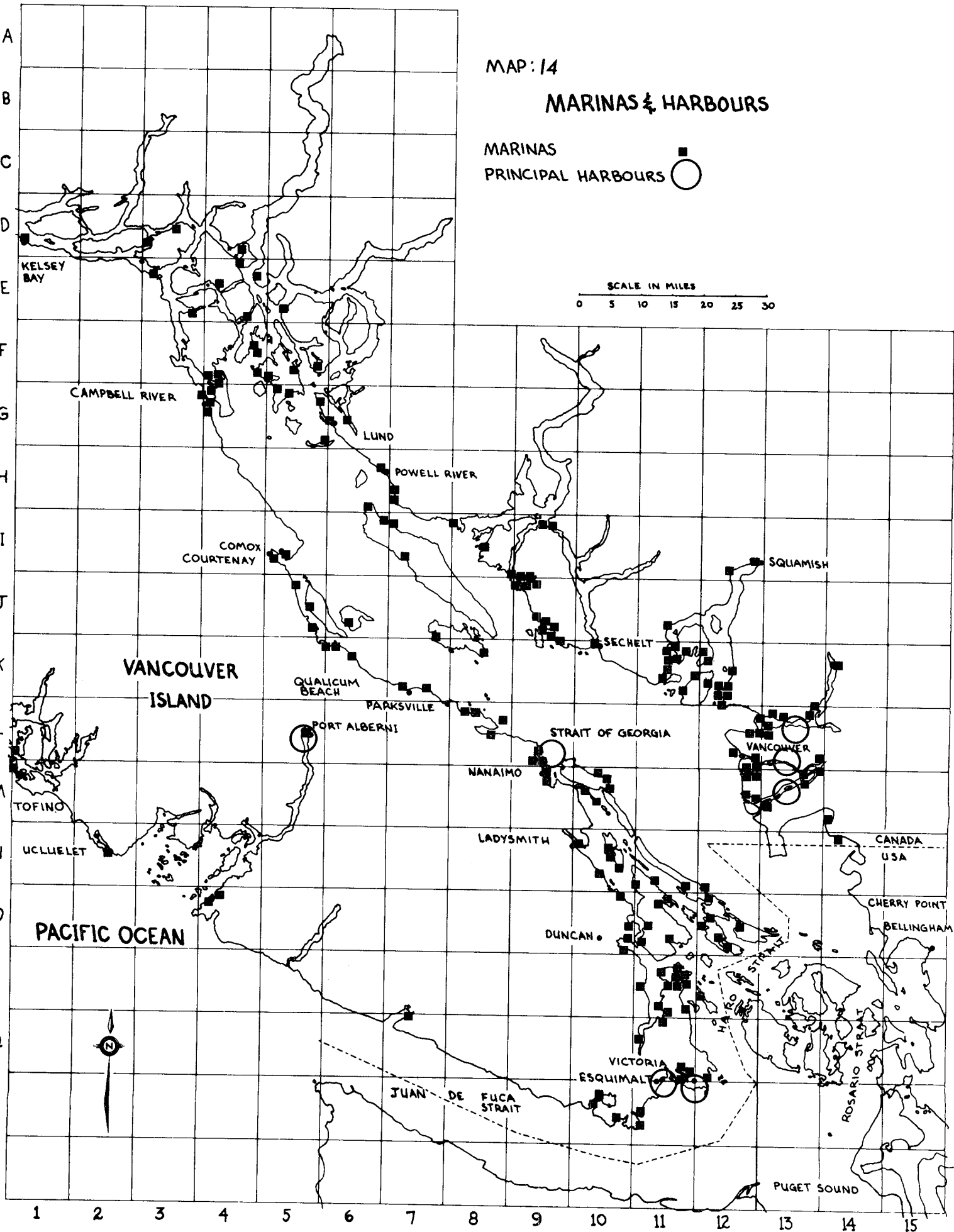


MAP: 14

MARINAS & HARBOURS

MARINAS 
PRINCIPAL HARBOURS 

SCALE IN MILES
0 5 10 15 20 25 30

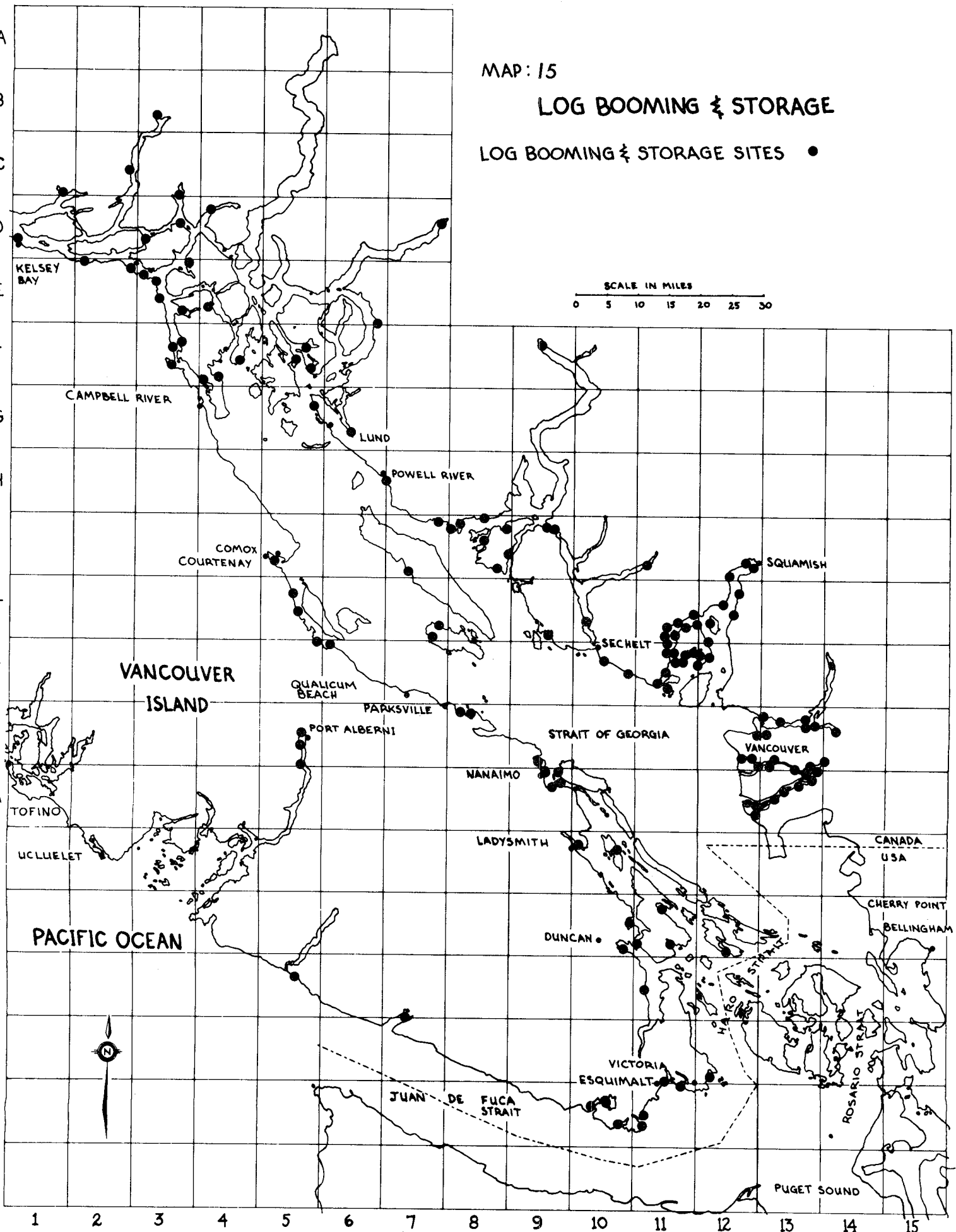


MAP: 15

LOG BOOMING & STORAGE

LOG BOOMING & STORAGE SITES •

SCALE IN MILES
0 5 10 15 20 25 30

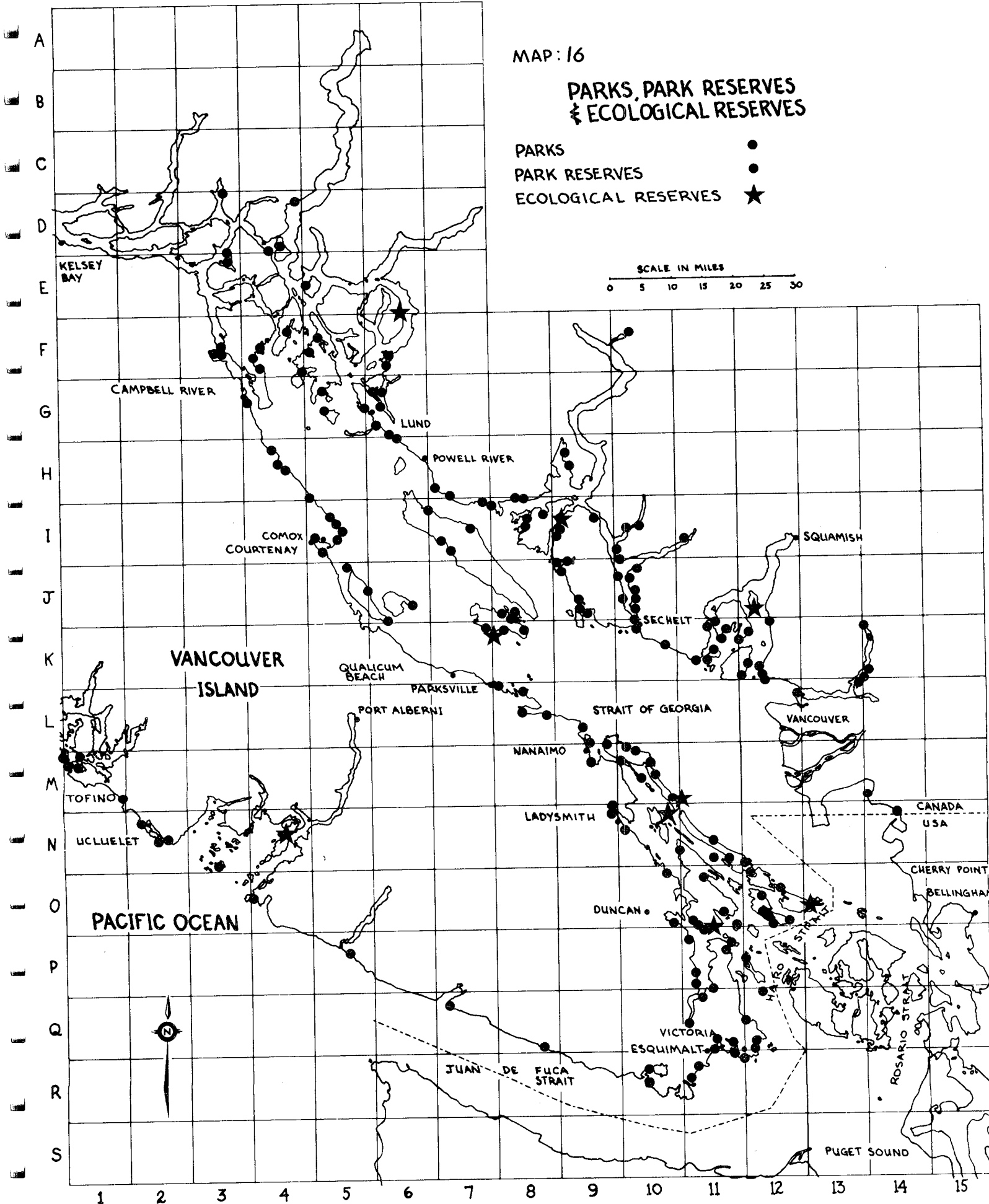


MAP: 16

PARKS, PARK RESERVES & ECOLOGICAL RESERVES

- PARKS ●
- PARK RESERVES ●
- ECOLOGICAL RESERVES ★

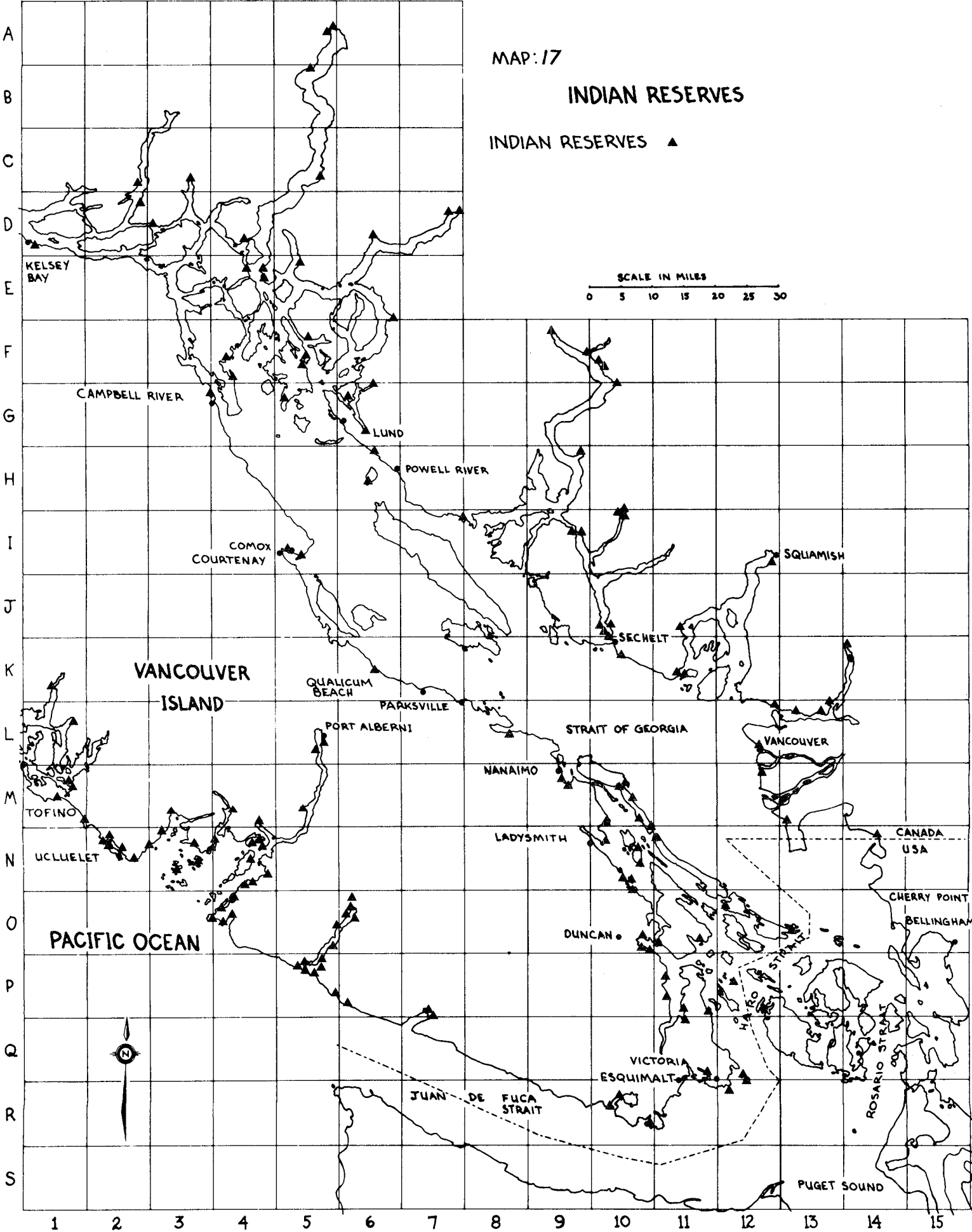
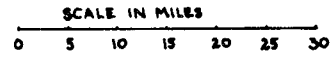
SCALE IN MILES
0 5 10 15 20 25 30



MAP: 17

INDIAN RESERVES

INDIAN RESERVES ▲



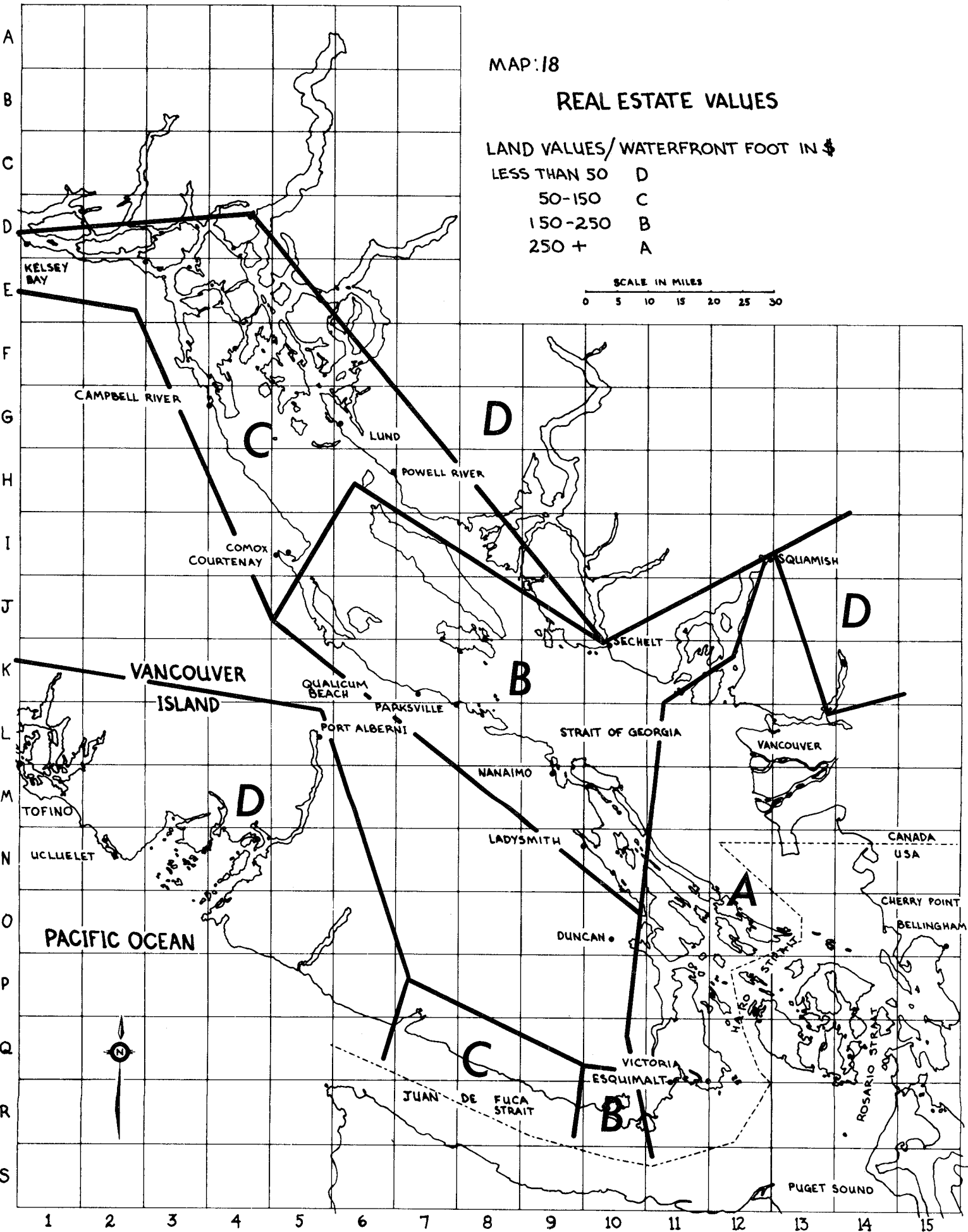
MAP:18

REAL ESTATE VALUES

LAND VALUES/WATERFRONT FOOT IN \$

- LESS THAN 50 D
- 50-150 C
- 150-250 B
- 250 + A

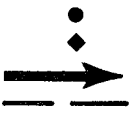
SCALE IN MILES



MAP:19

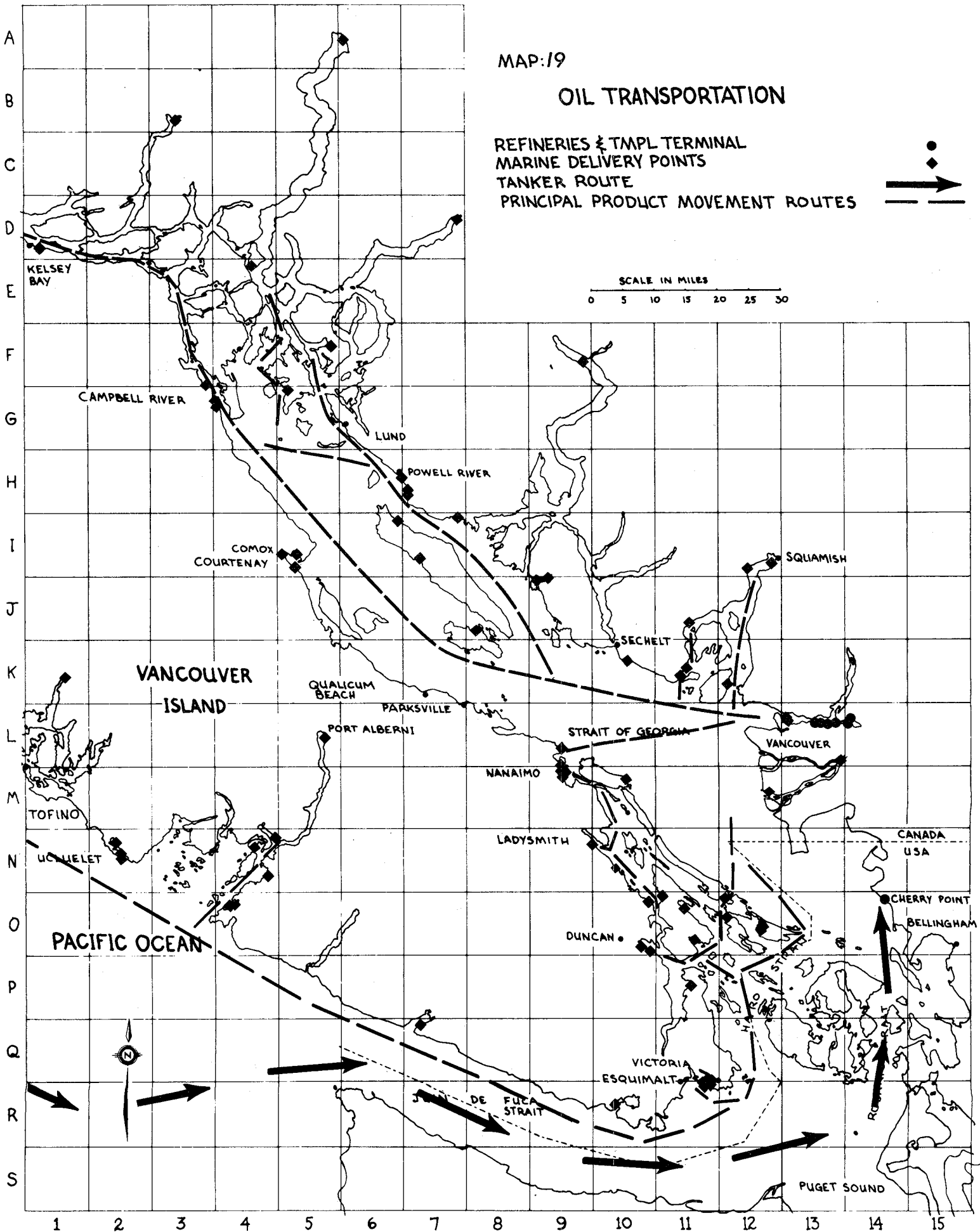
OIL TRANSPORTATION

REFINERIES & TMPL TERMINAL
MARINE DELIVERY POINTS
TANKER ROUTE
PRINCIPAL PRODUCT MOVEMENT ROUTES



SCALE IN MILES

0 5 10 15 20 25 30



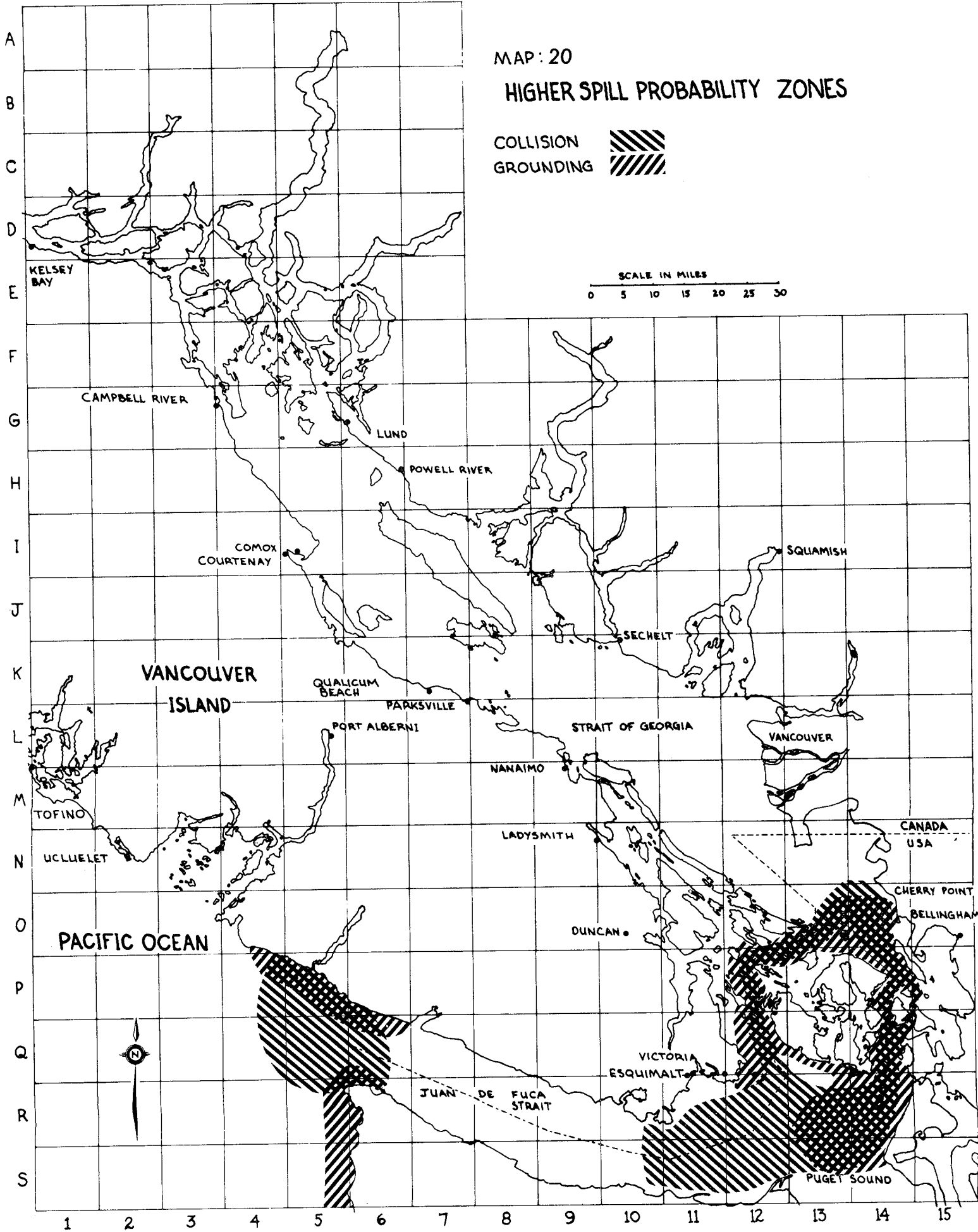
MAP: 20

HIGHER SPILL PROBABILITY ZONES

COLLISION
GROUNDING



SCALE IN MILES
0 5 10 15 20 25 30



MAP: 21

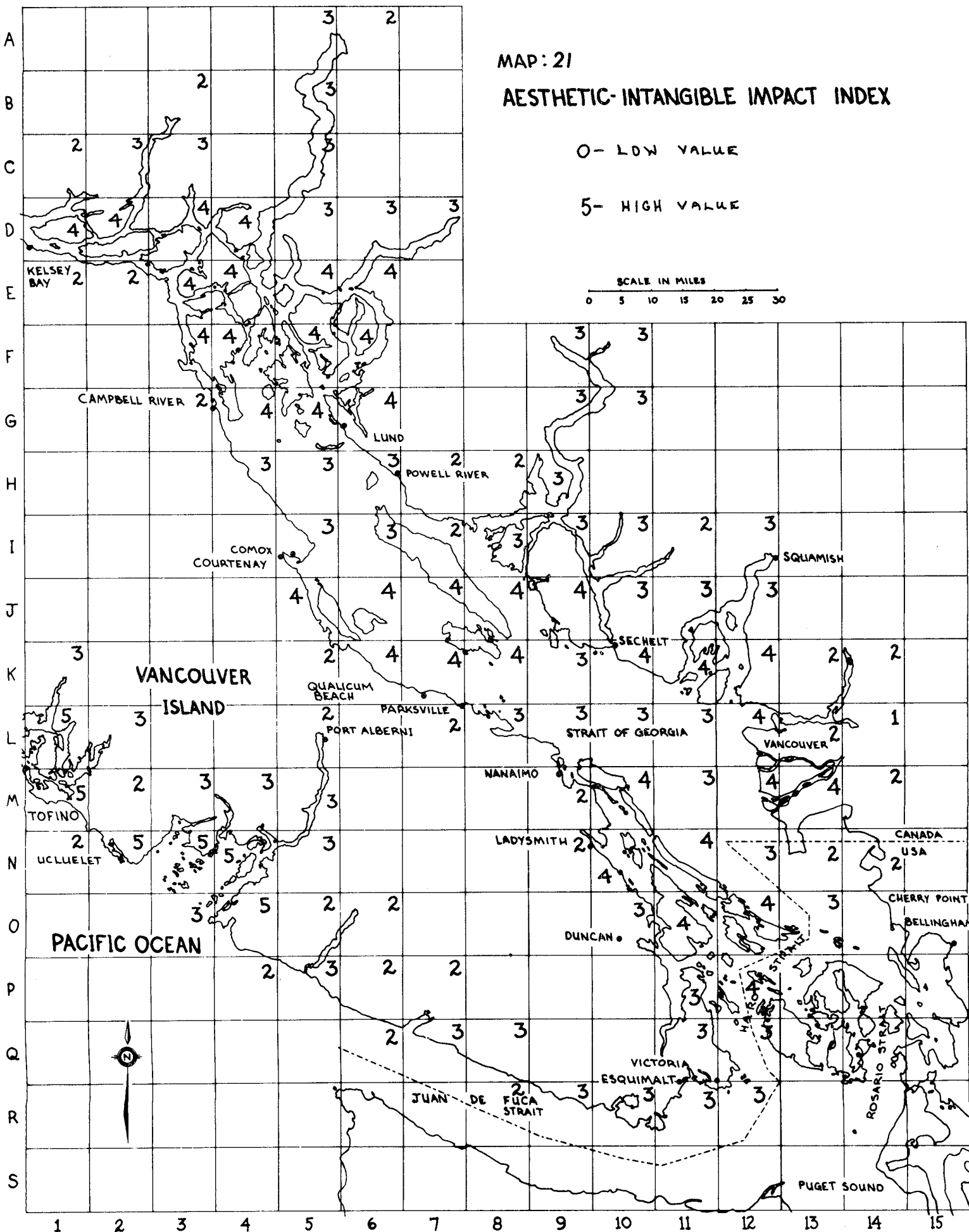
AESTHETIC-INTANGIBLE IMPACT INDEX

0 - LOW VALUE

5 - HIGH VALUE

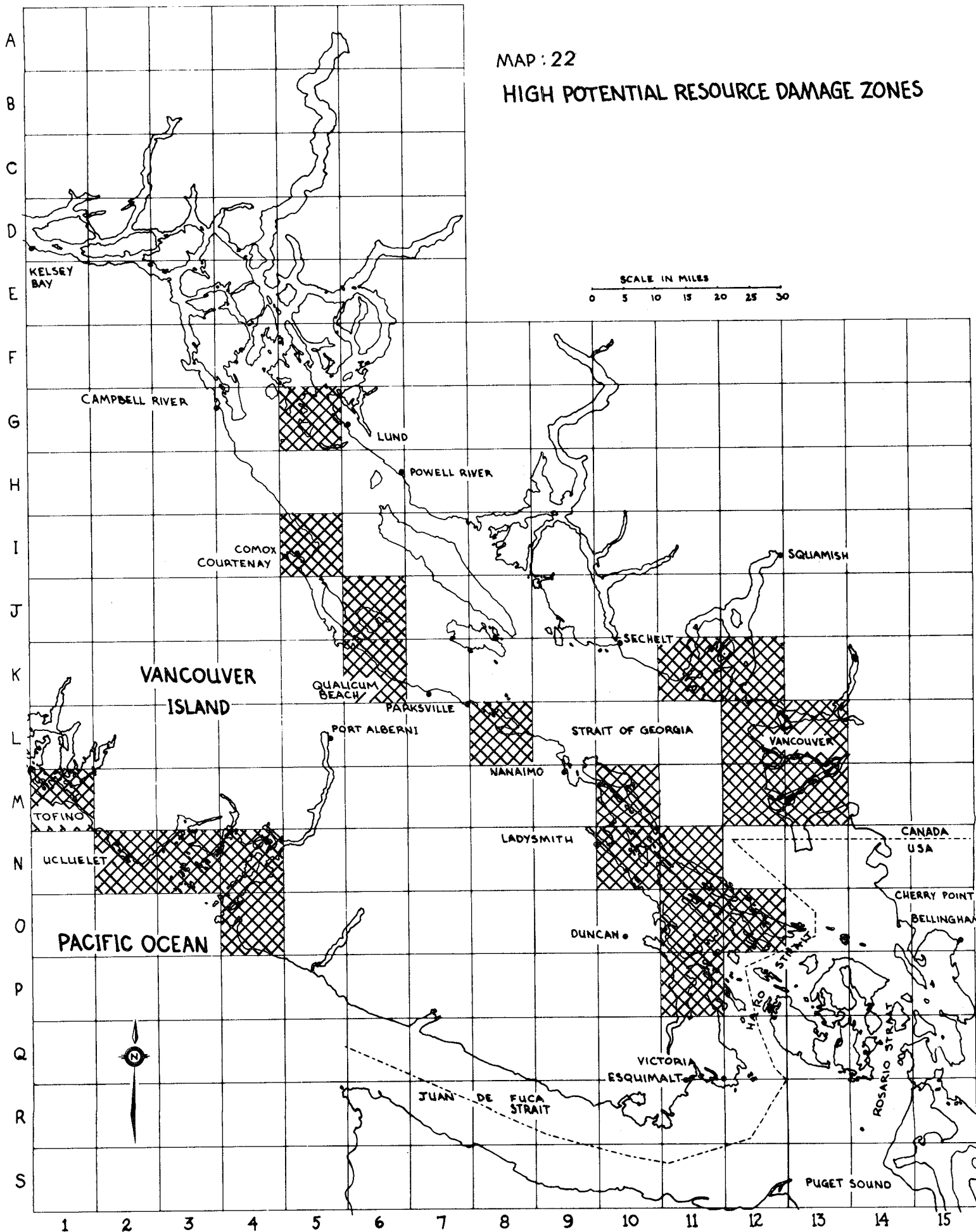
SCALE IN MILES

0 5 10 15 20 25 30

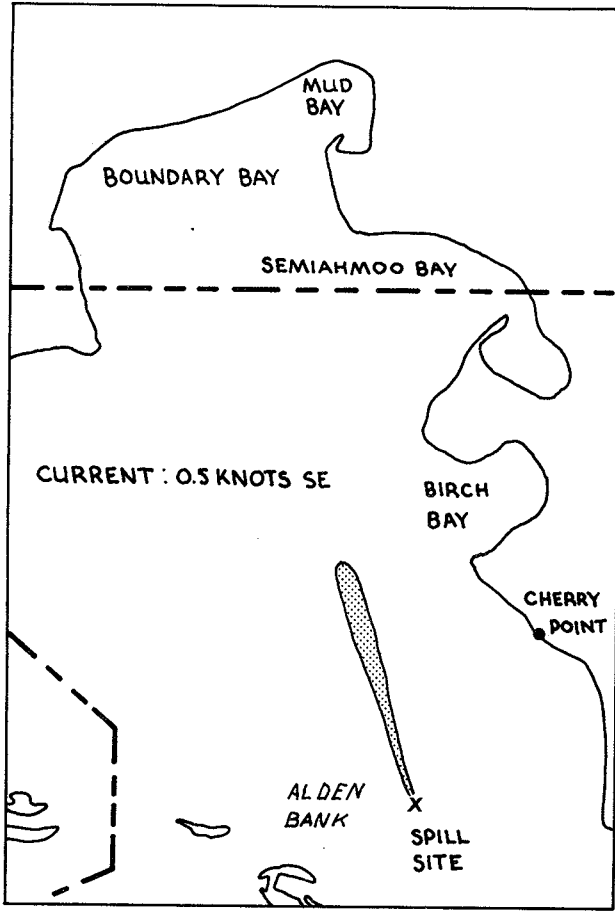


MAP: 22

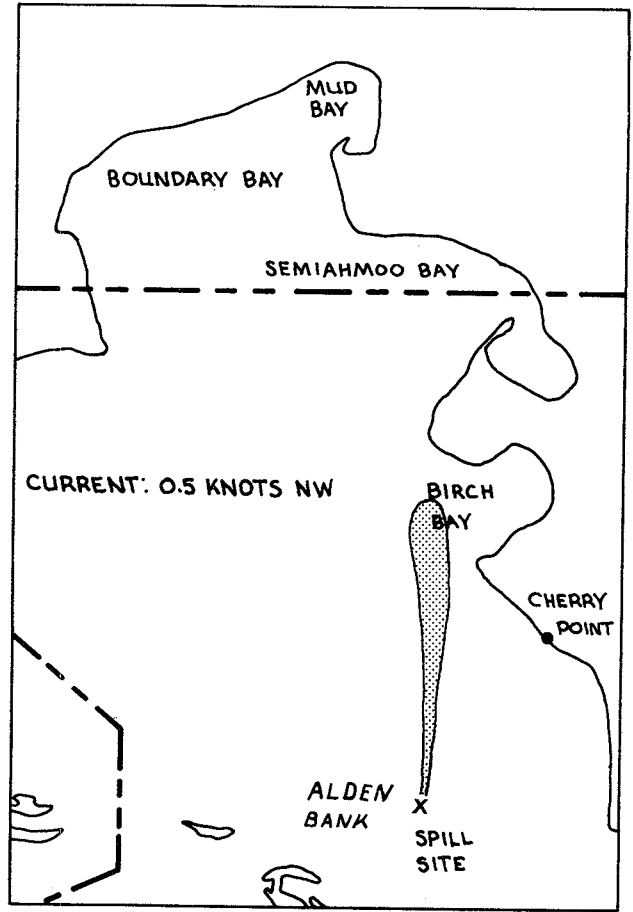
HIGH POTENTIAL RESOURCE DAMAGE ZONES



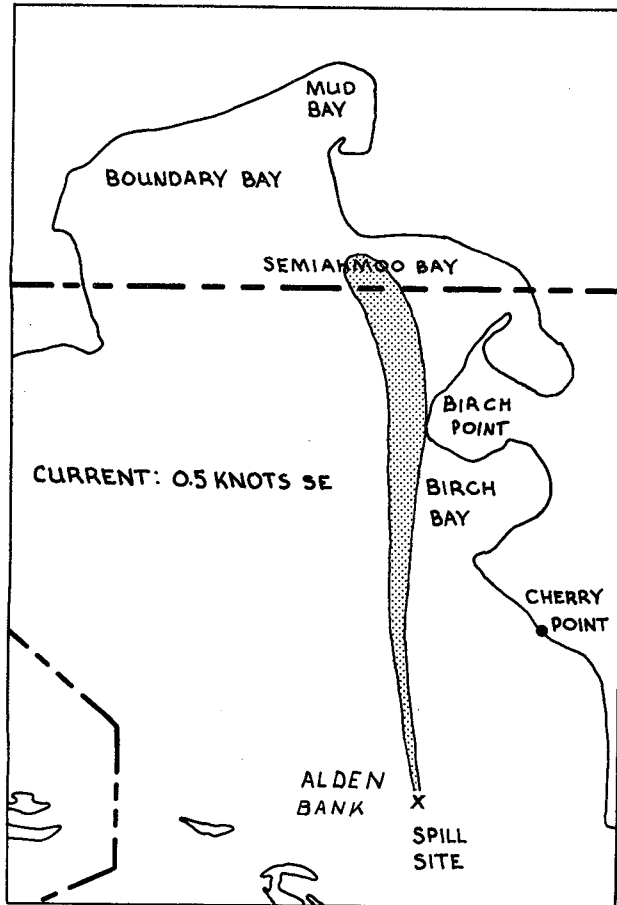
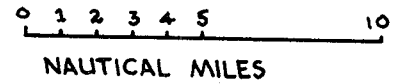
SCENARIO NO.1



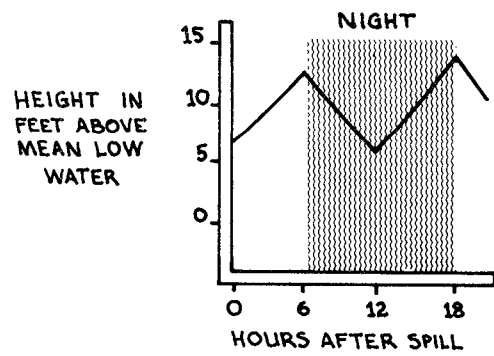
HOUR 6



HOUR 12

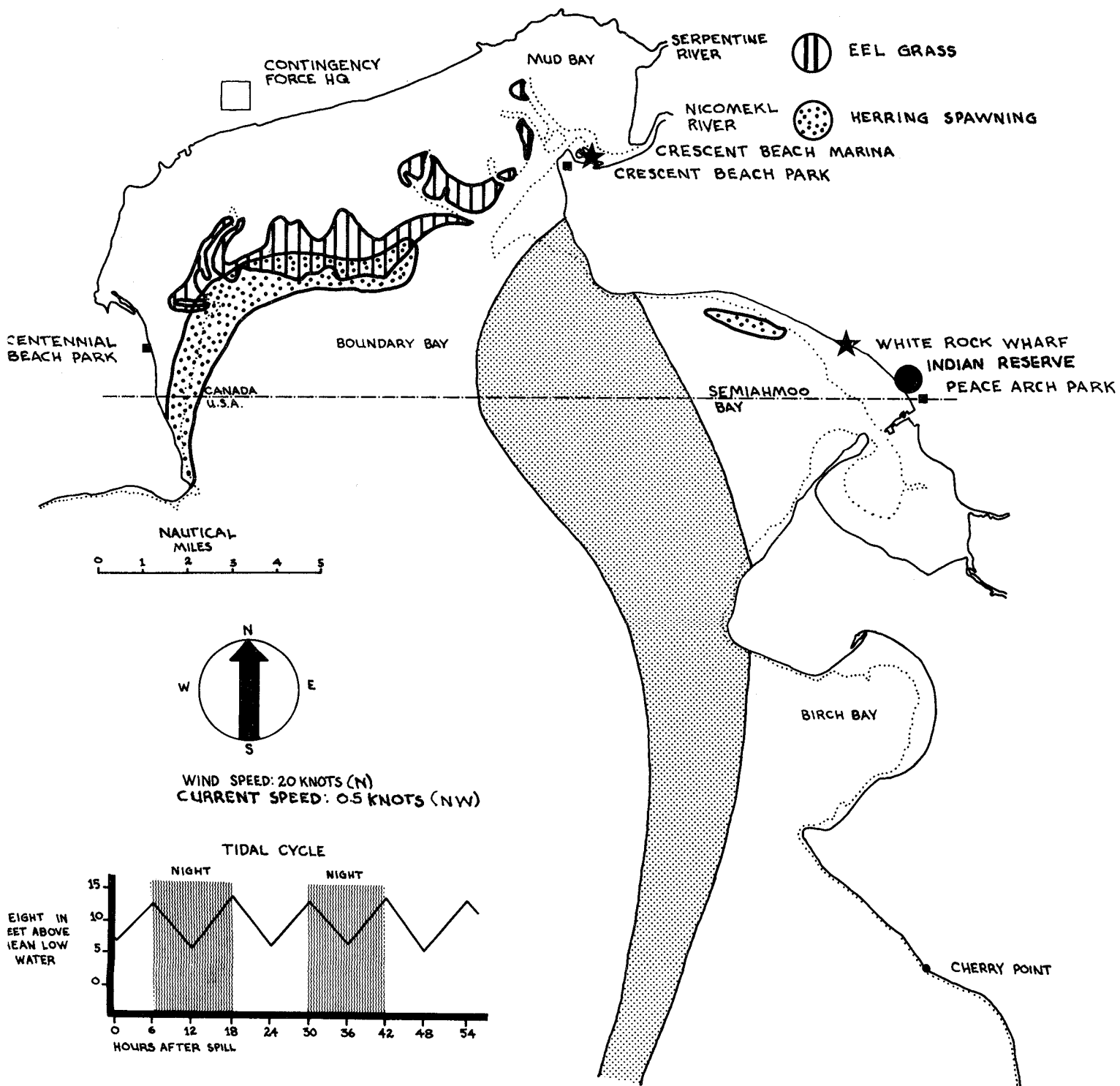


HOUR 18

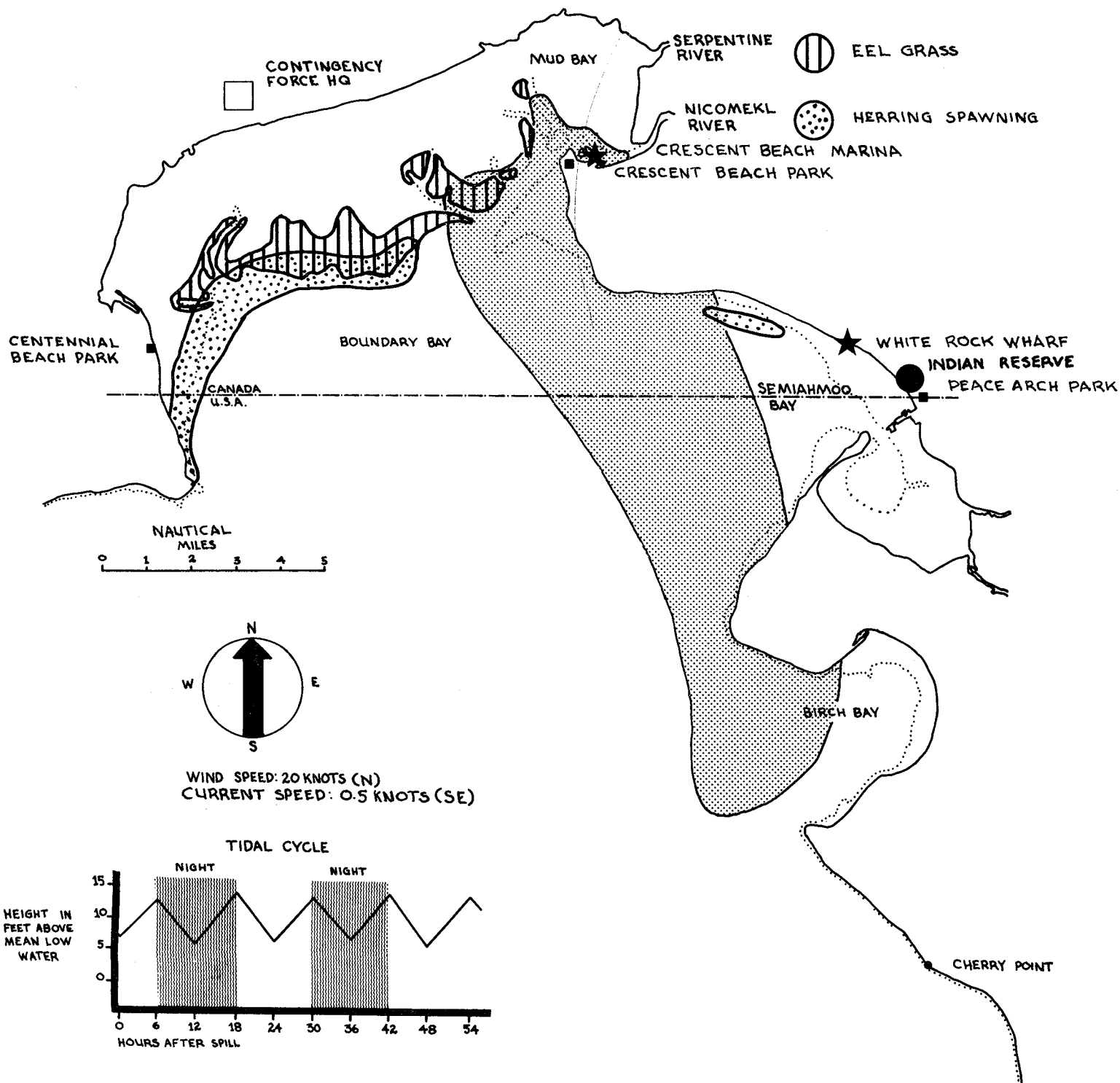


WIND SPEED: 20 KNOTS (N)

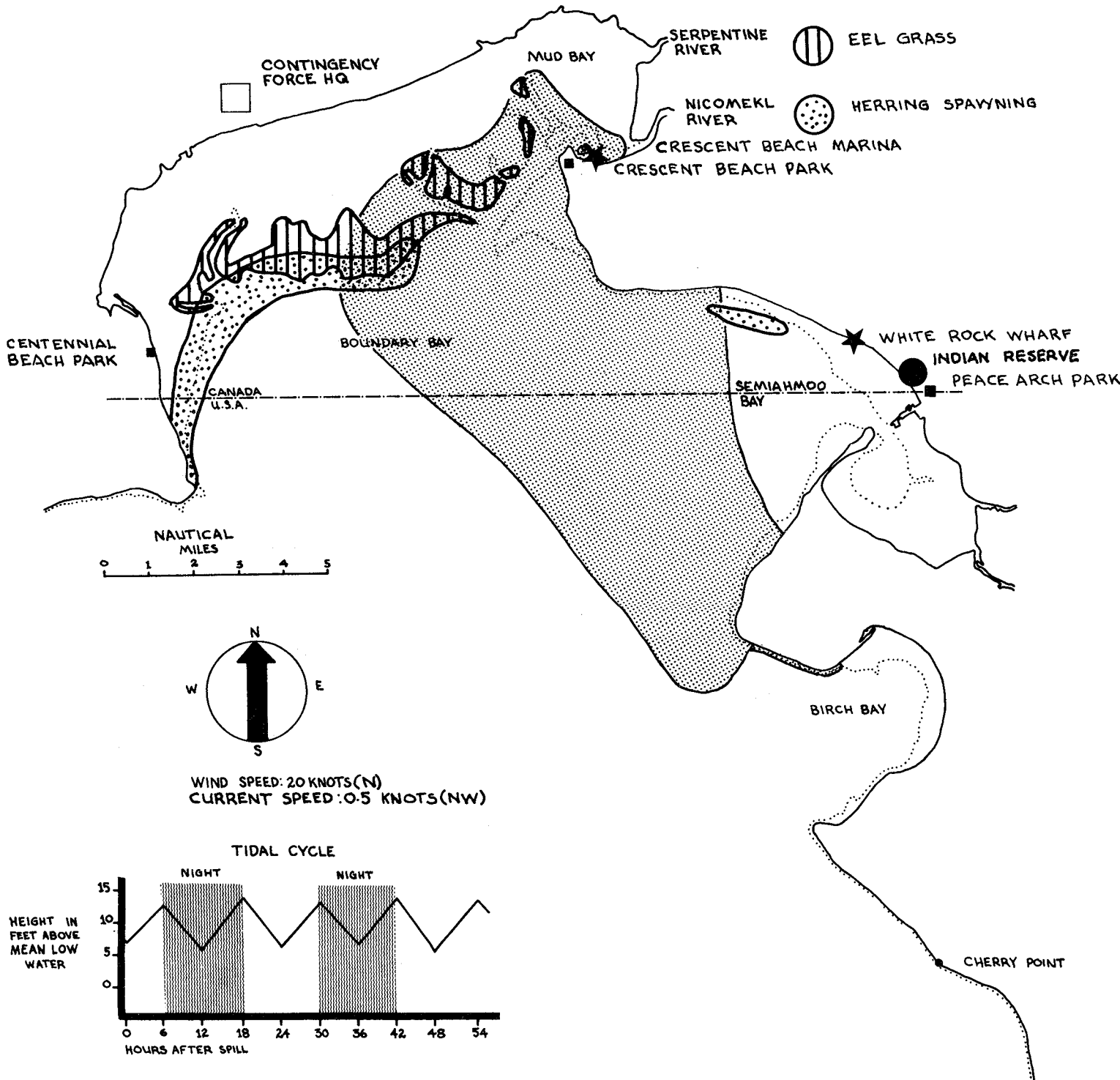
MAP 24 : SCENARIO NO. 1 (HOUR 24)



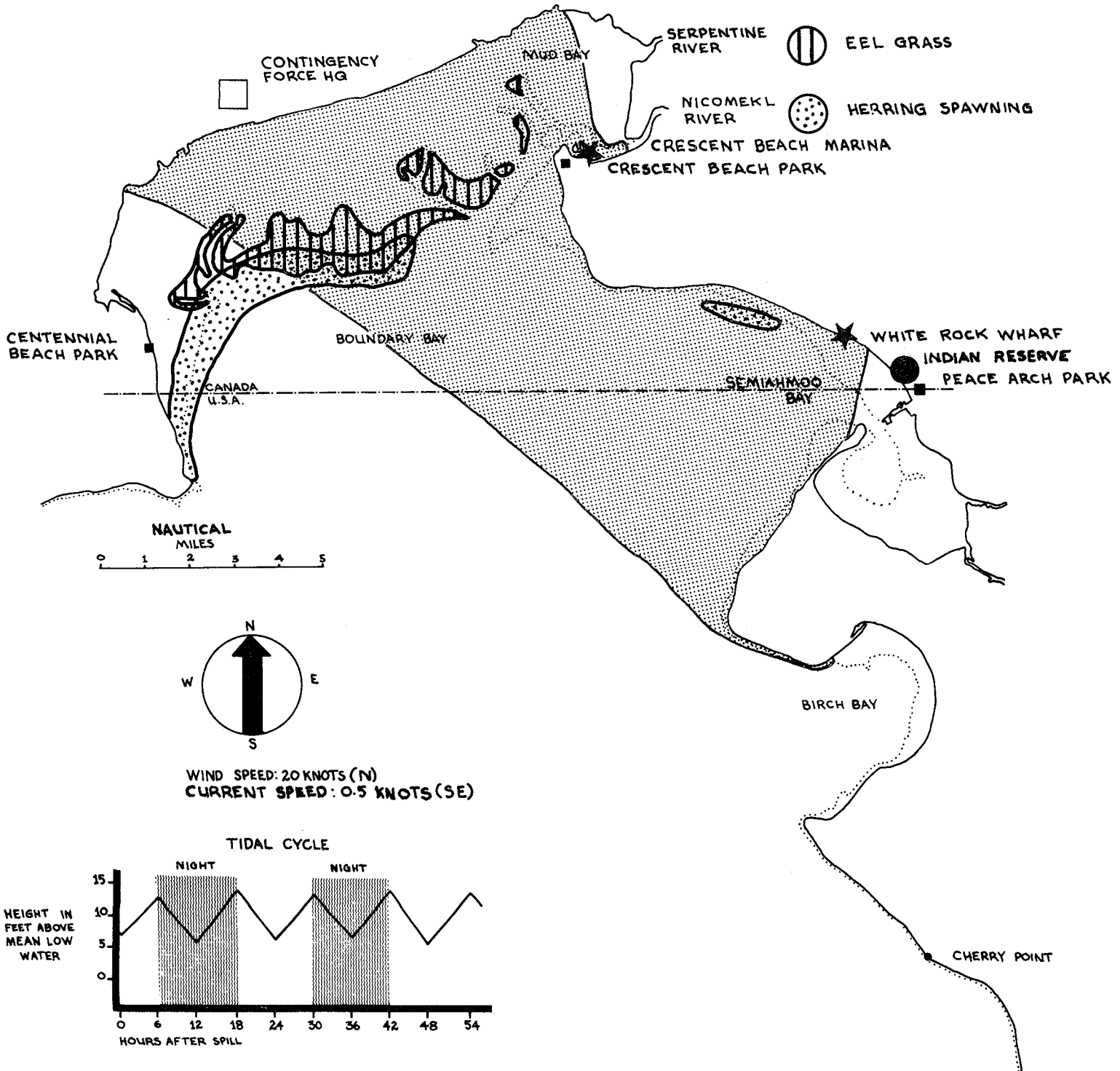
MAP 25 : SCENARIO NO. 1 (HOUR 30)



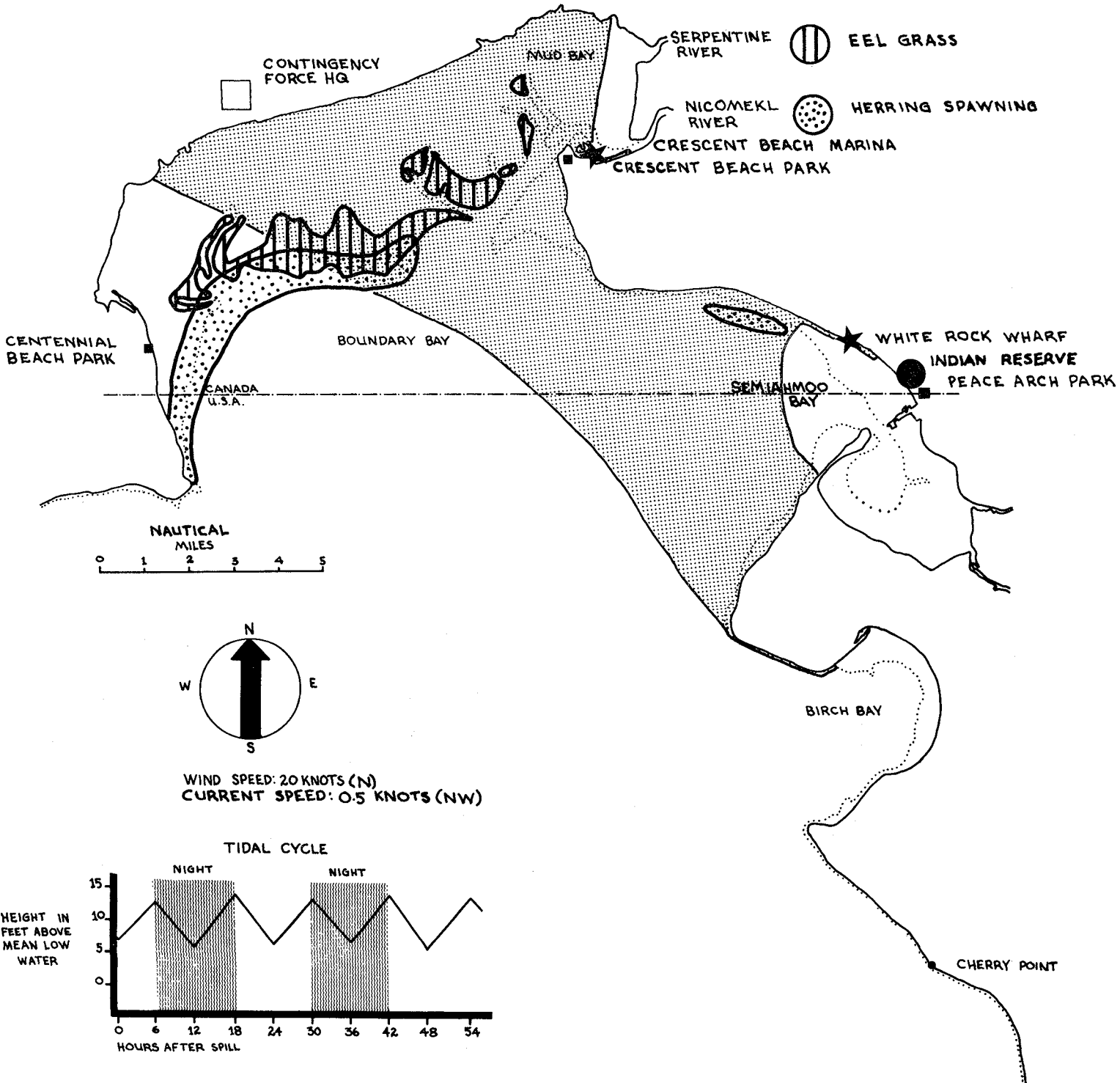
MAP 26 : SCENARIO NO.1 (HOUR 36)



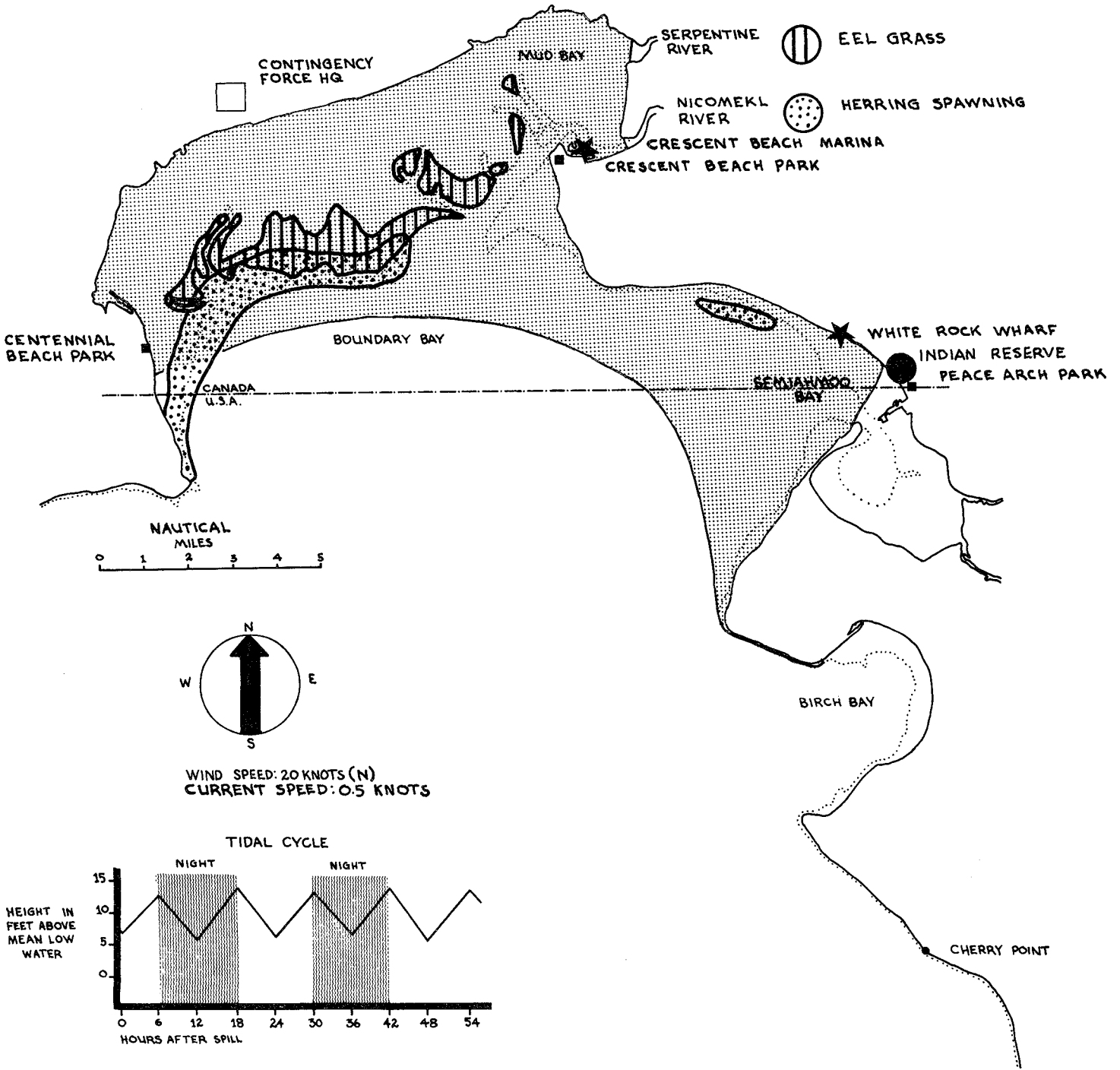
MAP 27 : SCENARIO NO. 1 (HOUR 42)



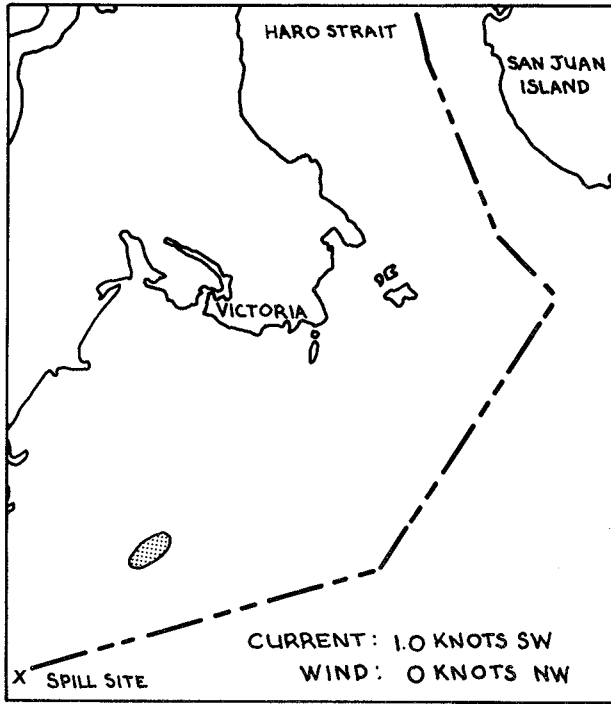
MAP 28 : SCENARIO NO. 1 (HOUR 48)



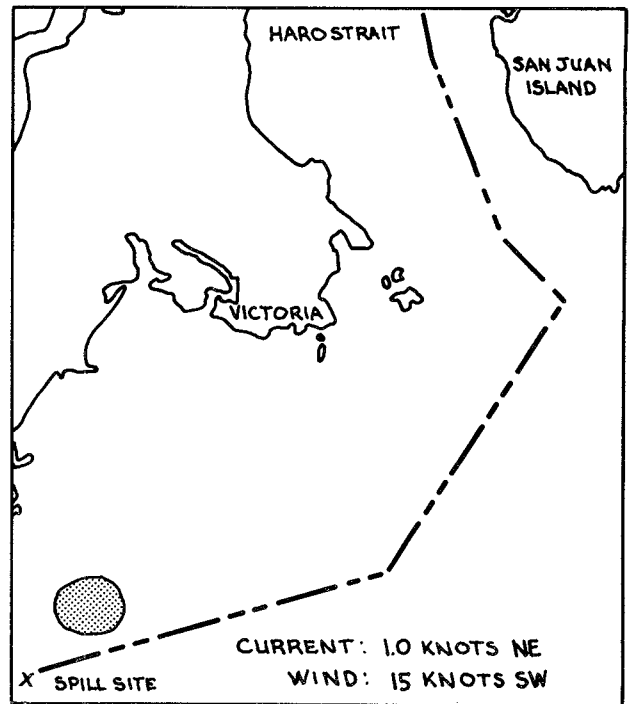
MAP 29 : SCENARIO NO. 1 (HOUR 54)



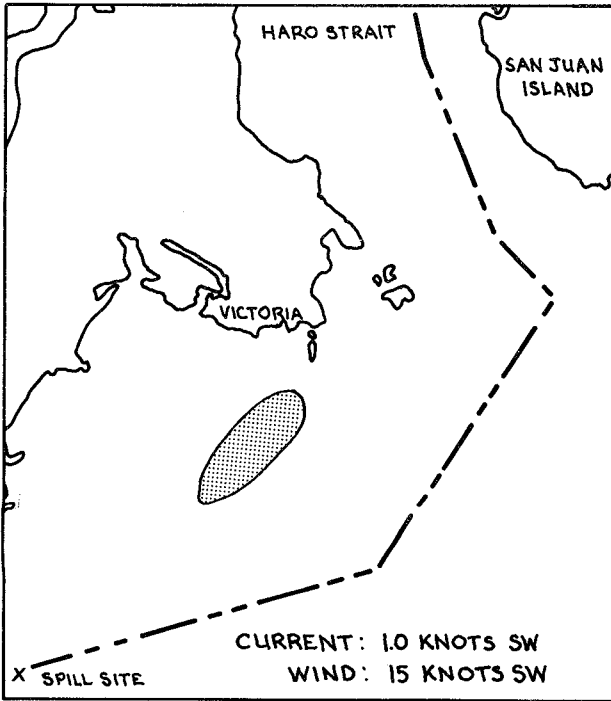
MAP 30 : SCENARIO NO. 2



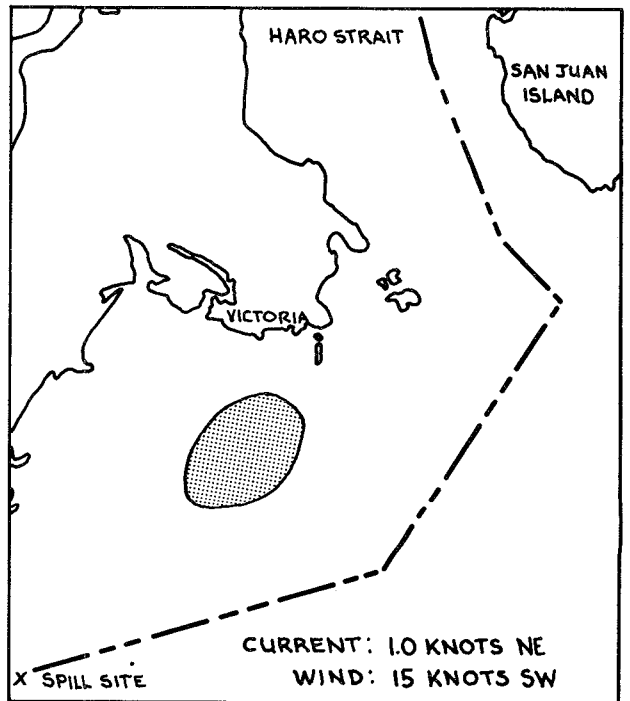
6 HOURS



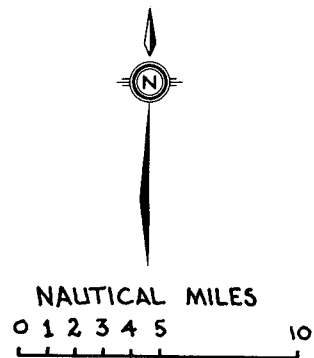
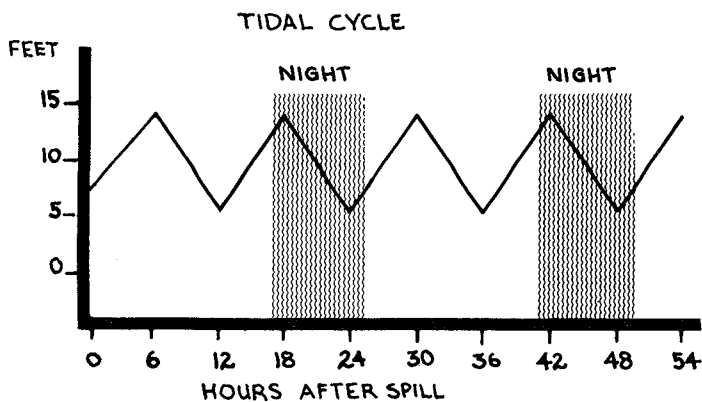
12 HOURS



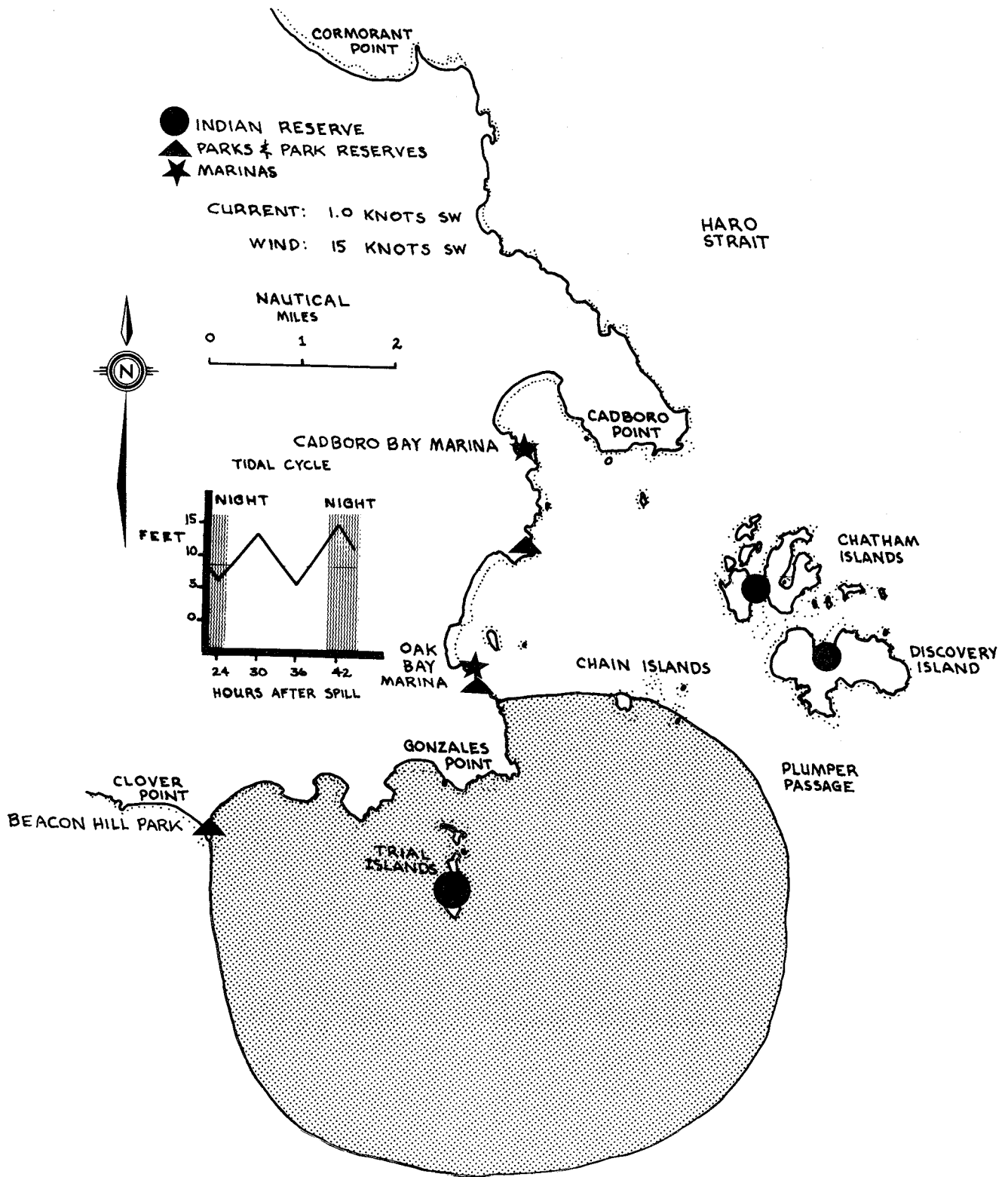
18 HOURS



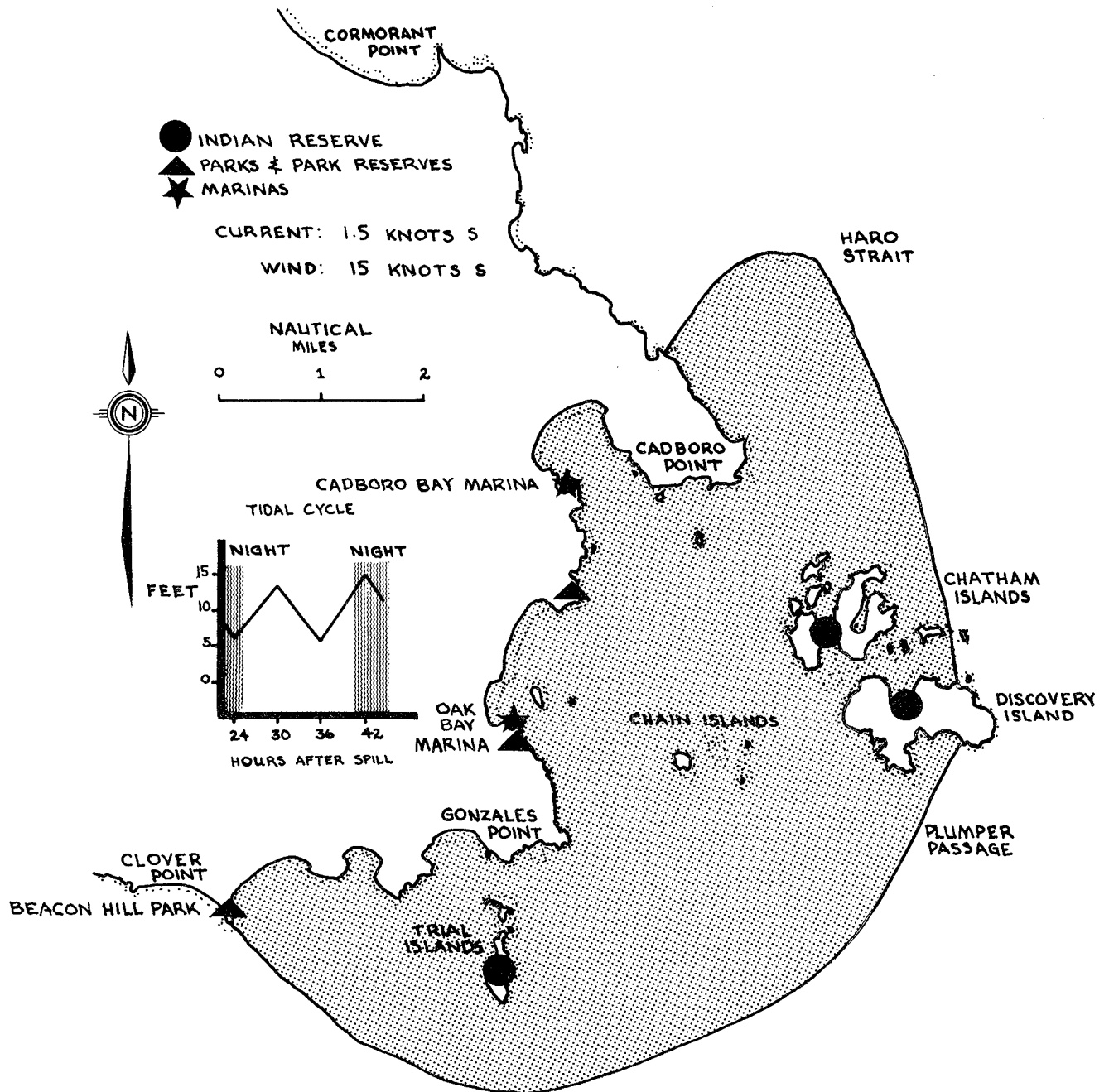
24 HOURS



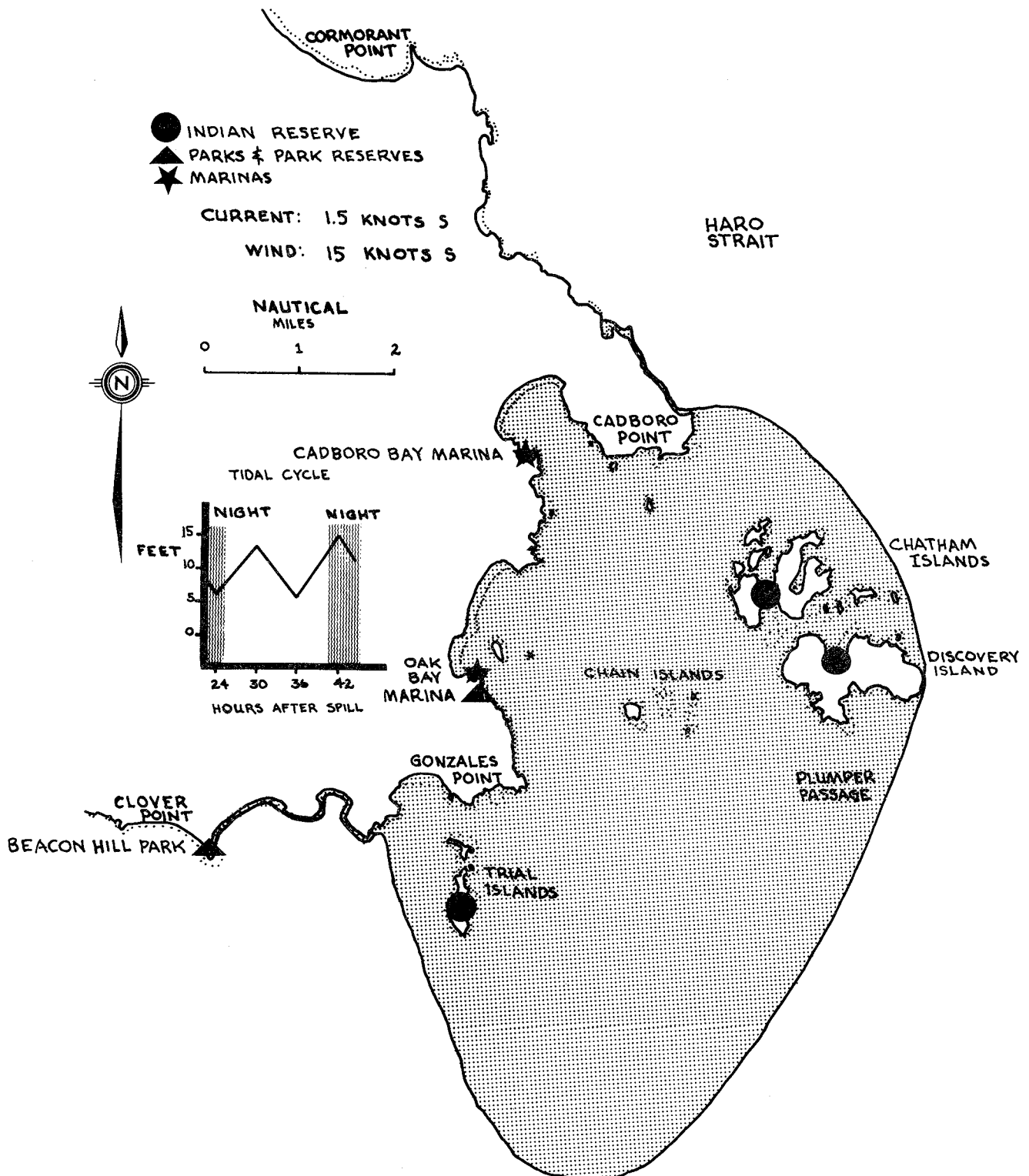
MAP 31 : SCENARIO NO.2 (HOUR 28)



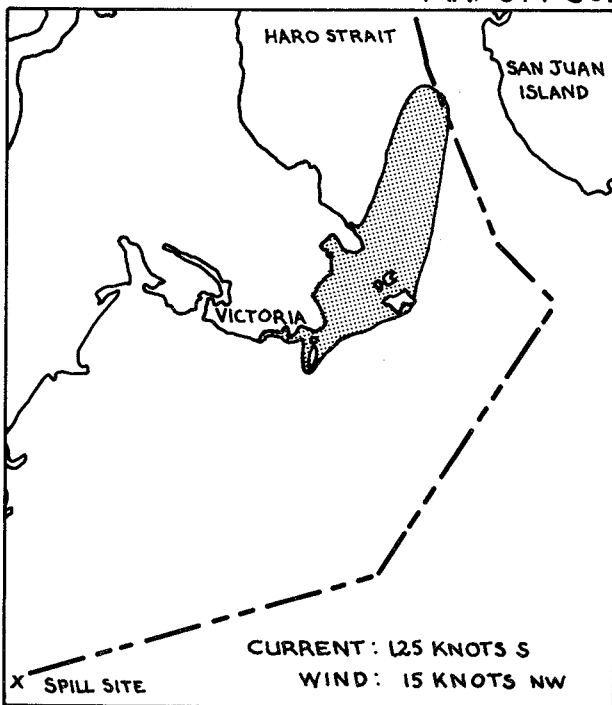
MAP 32 : SCENARIO NO.2 (HOUR 30)



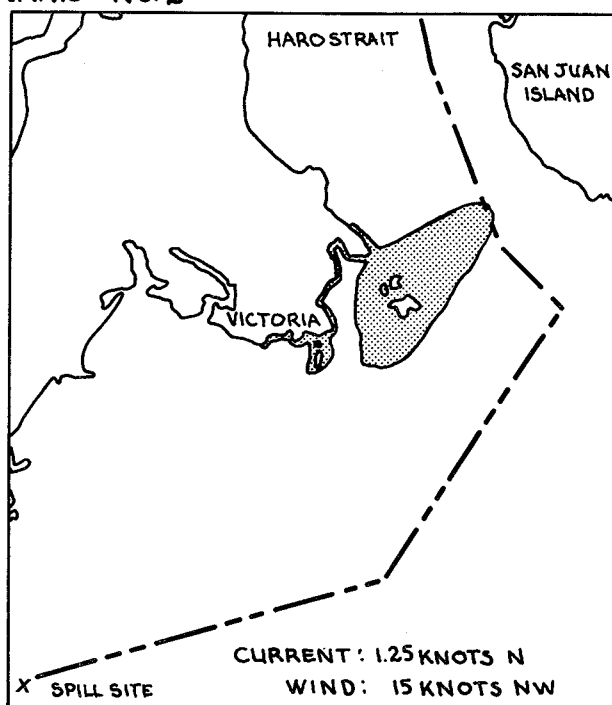
MAP 33 : SCENARIO NO.2 (HOUR 36)



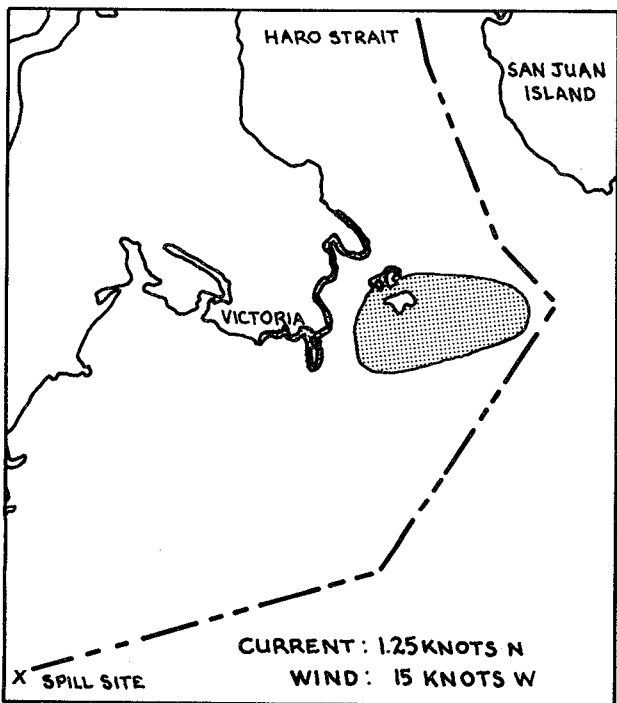
MAP 34: SCENARIO NO.2



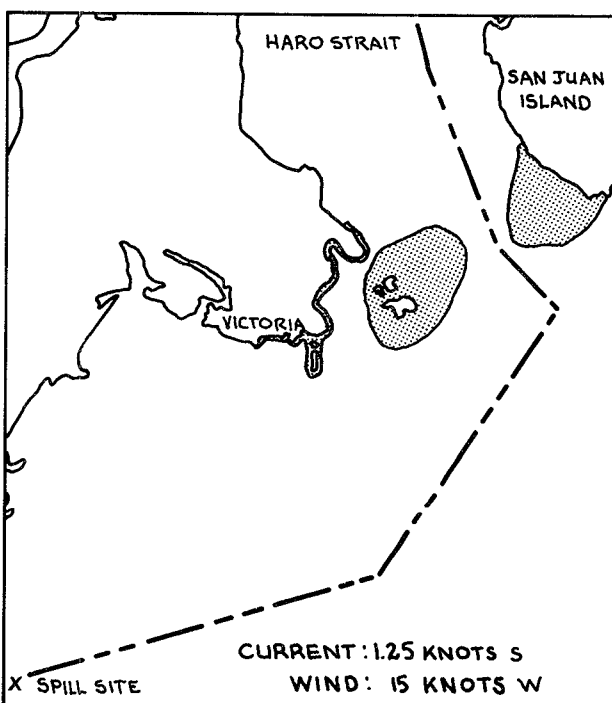
42 HOURS



45 HOURS



48 HOURS



51 HOURS

