Map 6. Cloud amount

BLACK LINE – Percent frequency of total cloud amount ≦2/8.

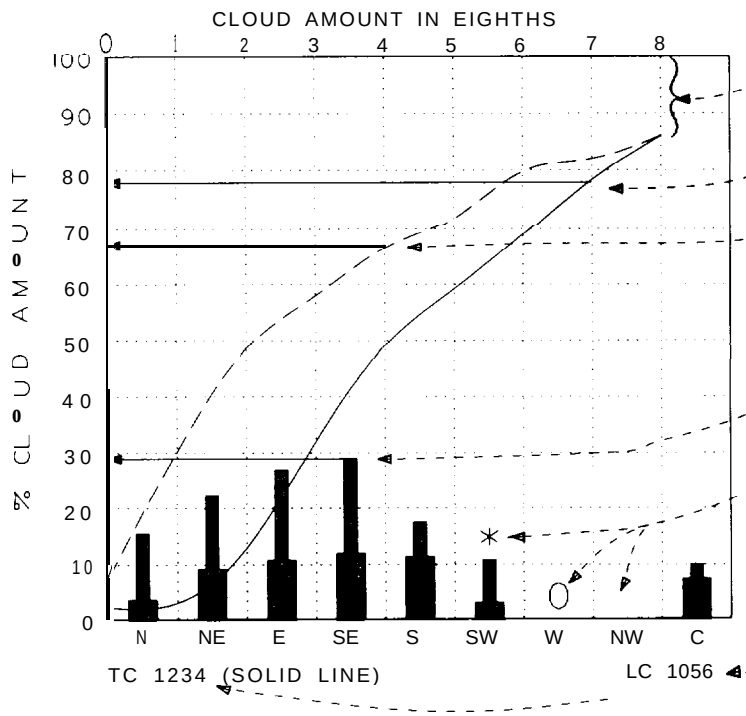
BLUE LINE – Percent frequency of low cloud amount ≧5/8.

Albers Equal-Area Conic Projection

Graphs: Cloud cover/wind direction

Total Cloud Amount
Low Cloud Amount

Cumulative percent frequency of indicated cloud amount equal to or less **than the amount intersected by the curve.**



Obscurations.

(78% *of* **all** *total cloud* **amounts were** *≦7/8.)*

(67% of all low cloud amounts were ***≦4/8.)***

5/8 & 6/8 ≧5/8 ≧7/8 **Low cloud amount: Percent frequency of observations from each direction and calm that were accompanied by low cloud amounts ≧5/8 and ≧7/8 (including obscurations). Low clouds are clouds with bases <8000 feet.**

(29% of all SE winds were ***accompanied*** *by low cloud amounts* ***≧5/8*** *and 72% by low cloud amounts* ***≧7/8.)***

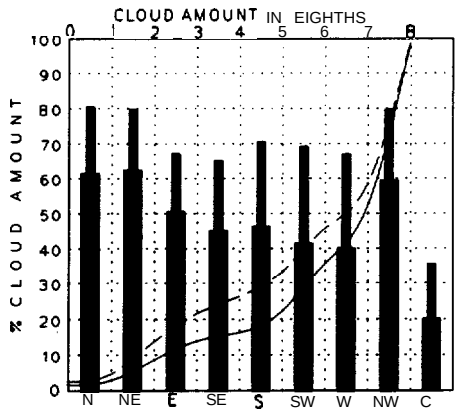
An asterisk indicates that the percentage is based on 10-30 observations of wind direction, total and low cloud amount. 0 replaces bar graph when no low cloud amounts ≧5/8 were observed with a wind direction or calm. 0 or bar is omitted when number of observations of total and low cloud amount from a wind direction or calm is less than 10.

Number of total cloud (TC) and low cloud (LC) observations.

A survey of the cloud **data** (total **and** low cloud amounts) from the marine data base shows the number of total cloud reports significantly greater than that of low cloud amounts. This is because many of the early marine observations contain only total cloud amounts. Therefore, somewhat different samples may be used to compute the two curves on the graph. This may lead to inconsistencies where the low cloud amount appears higher than the total cloud amount. Where this occurred, the graph was adjusted in favor of the total cloud by making the curves coincide. The frequency of obscured conditions may be determined from the graph by subtracting the cumulative percent frequency on the curve corresponding to 8/8 coverage from 100%. In computing the bar graph, obscurations are considered as 8/8 coverage.

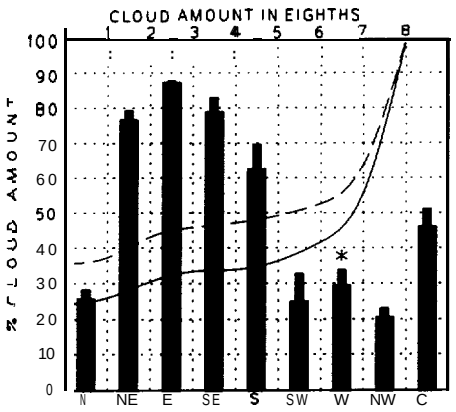
For the two isopleth presentations (total cloud amount $\leq$ 2/8 and low cloud amount $\geq$5/8), only those observations reporting both total and low cloud amounts were summarized. This helps eliminate problems introduced as a result of different size data sets. A comparison of total cloud analyses based on satellite data by the U.S. Department of Commerce and U.S. Air Force (1971) shows a fairly close agreement with, and bolsters the confidence in, the marine cloud statistics presented in this atlas. Refer to the texts in Sets 3 and 4 for additional information on clouds.

Nikol'skoe



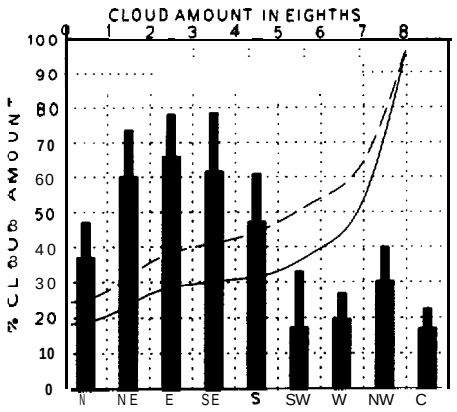
TC 5924 (SOLID LINE) LC 5889

Khatirka-In-Chukot



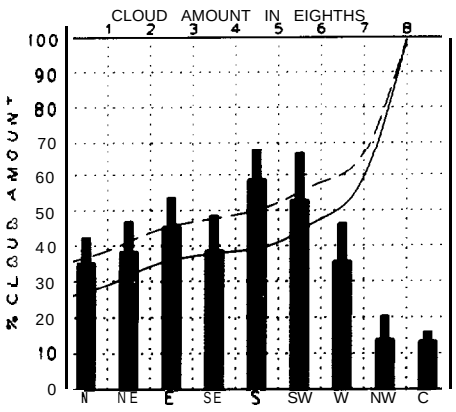
TC 3720 (SOLID LINE) LC 3700

Ugol'naja



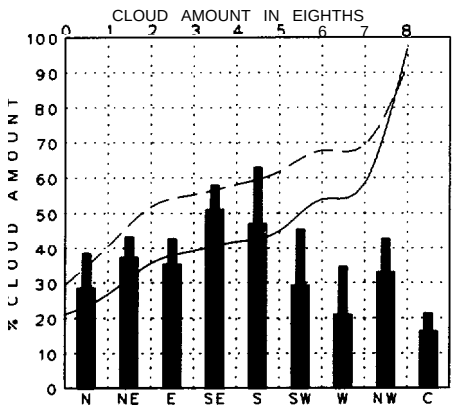
TC 5295 (SOLID LINE) LC 5279

Buhta Providenja



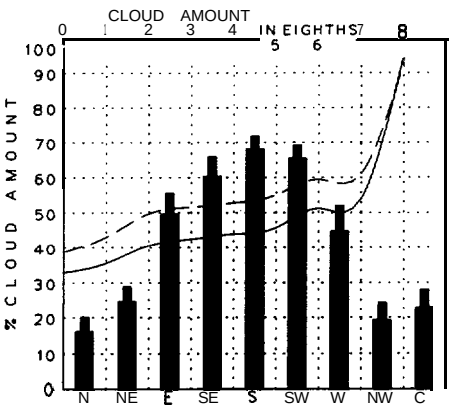
TC 4714 (SOLID LINE) LC 4695

Norheast Cape



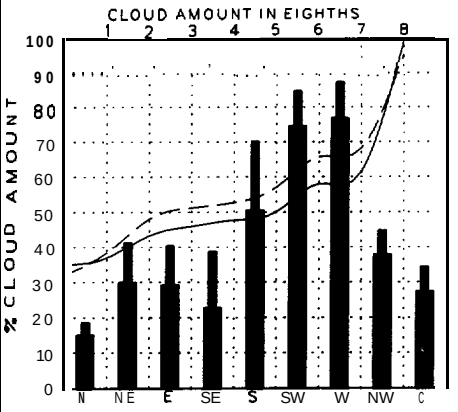
TC 8605 (SOLID LINE) LC 3498

Nome



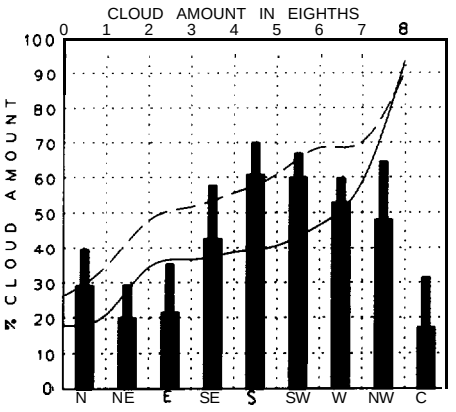
TC 21304 (SOLID LINE) LC 16011

Unalakleet



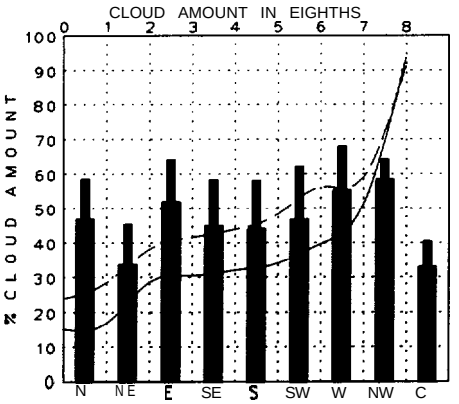
TC 15455 (SOLID LINE) LC 2659

Cape Romanzof



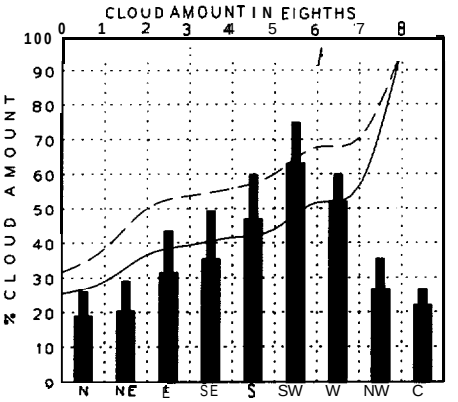
TC 17546 (SOLID LINE) LC 4150

Cape Newenhem



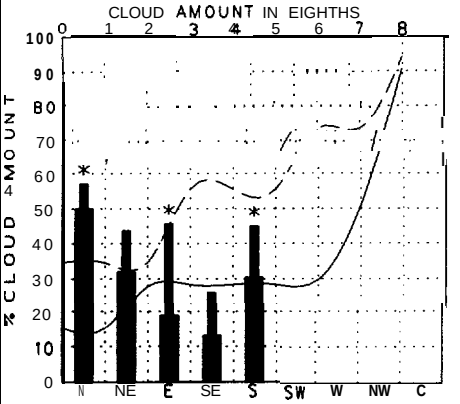
TC 19030 (SOLID LINE) LC 3956

King Salmon



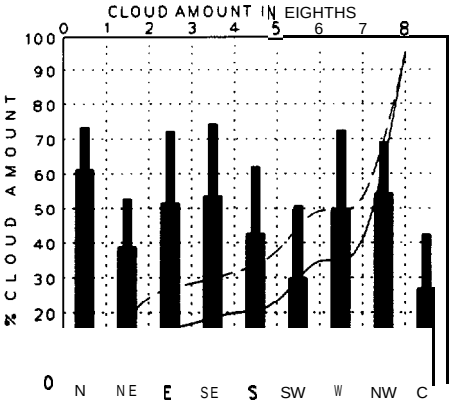
TC 19076 (SOLID LINE) LC 16185

Port Heiden



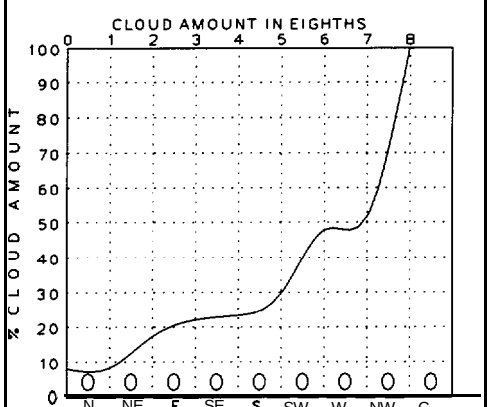
TC 2289 (SOLID LINE) LC 153

Cold Bay



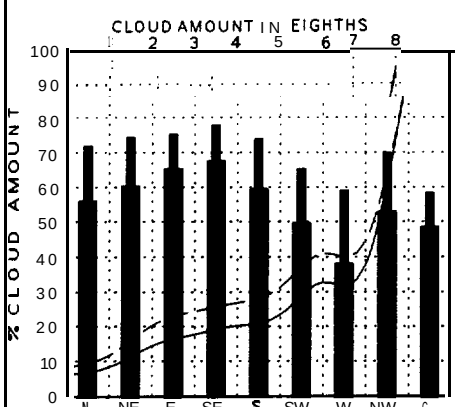
TC 13895 (SOLID LINE)

Nikolski



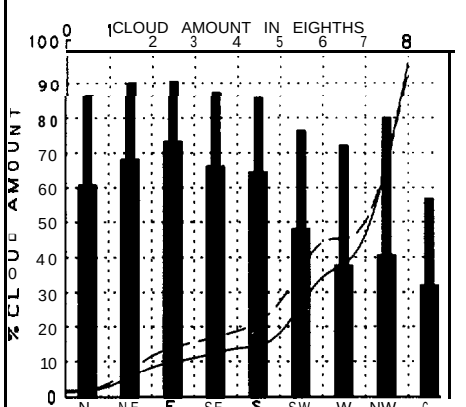
TC 2229 (SOLID LINE) LC 0

St. Paul



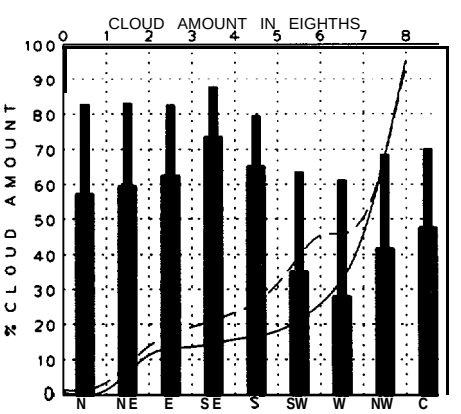
TC 11672 (SOLID LINE) LC 9069

Adak

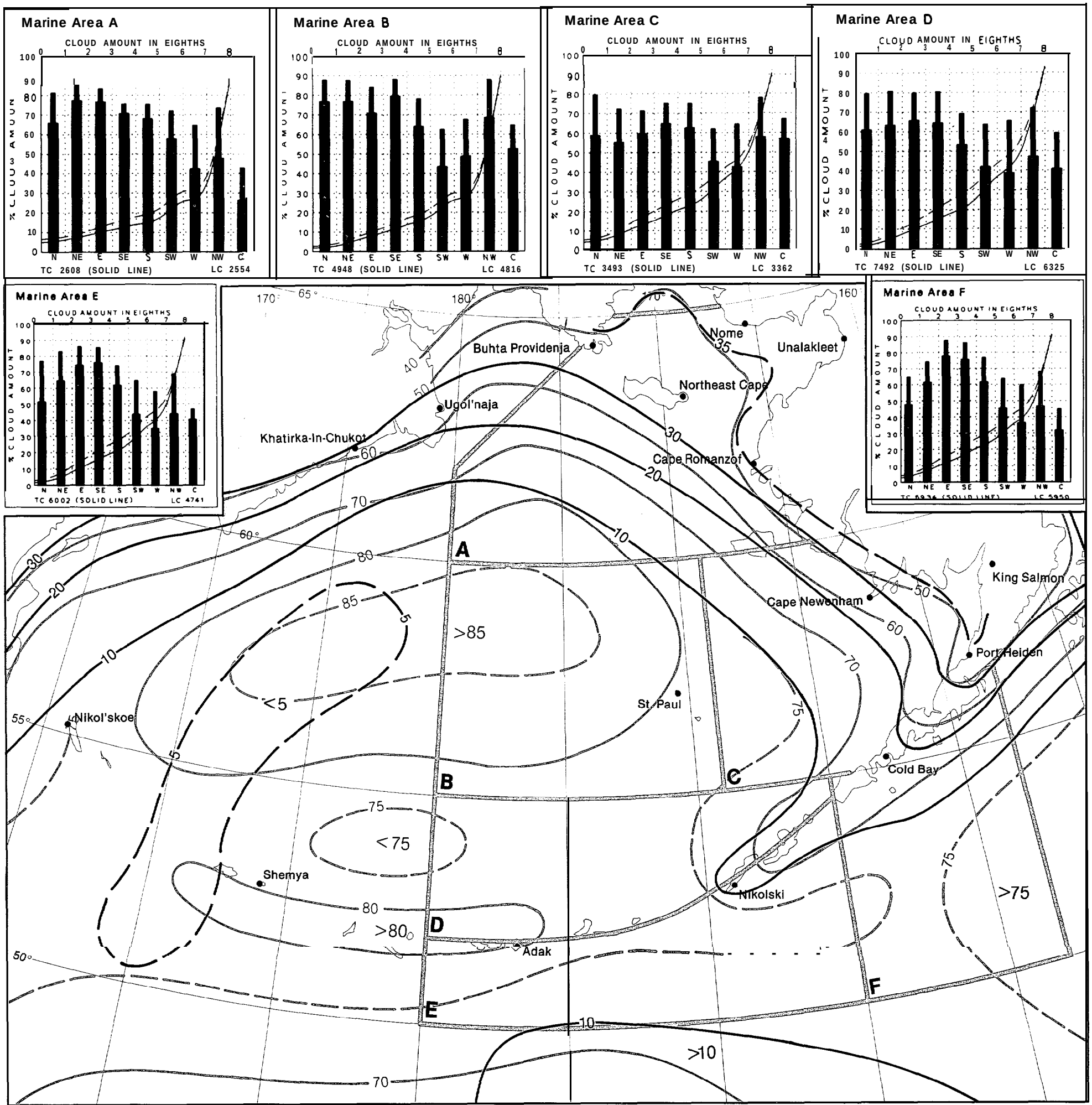


TC 22773 (SOLID LINE) LC 13869

Shemya

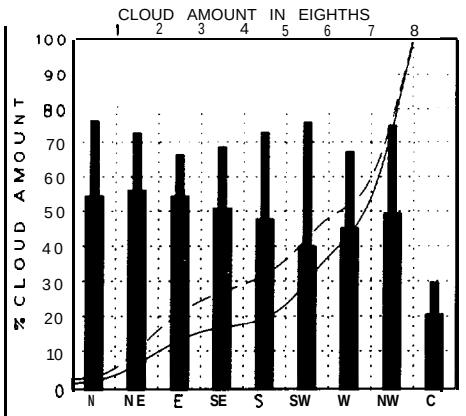


TC 19331 (SOLID LINE) LC 10000



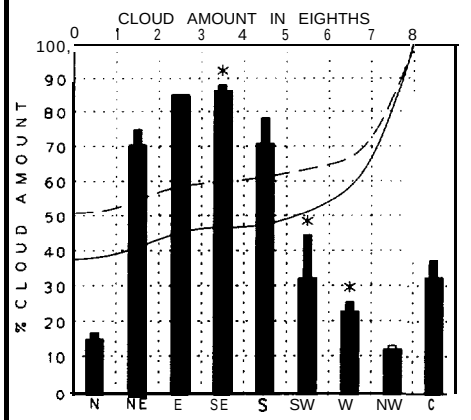
6 Clouds ≦2/8 and ≧5/8

January



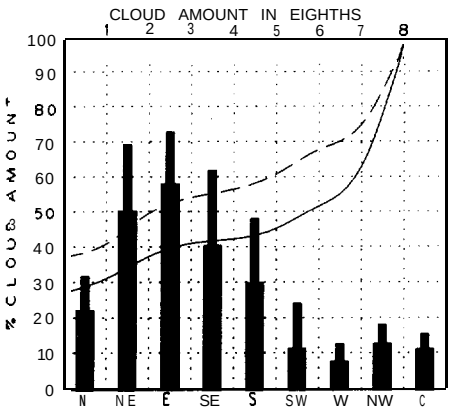
TC 5477 (SOLID LINE) LC 5456

Khatirka-In-Chukot



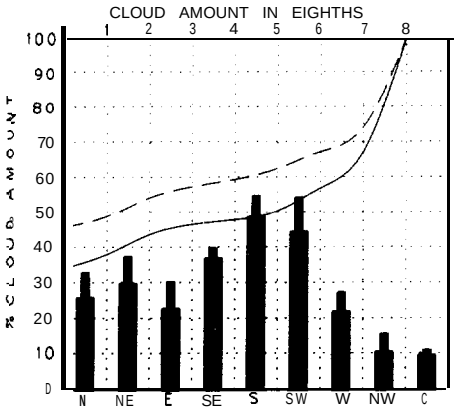
TC 3269 (SOLID LINE) LC 3261

Ugol'naja



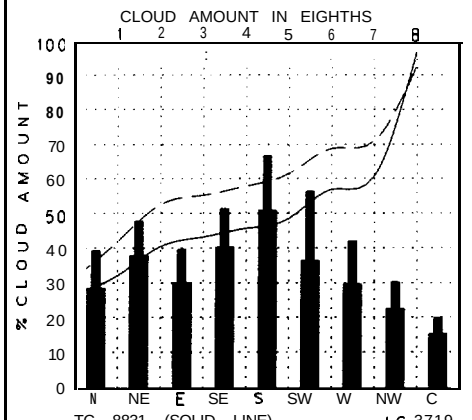
TC 4866 (SOLID LINE) LC 4843

Buhta Providenjr



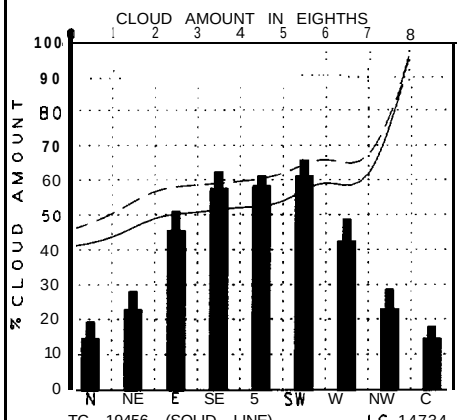
TC 4379 (SOLID LINE) LC 4353

Norheast Cape



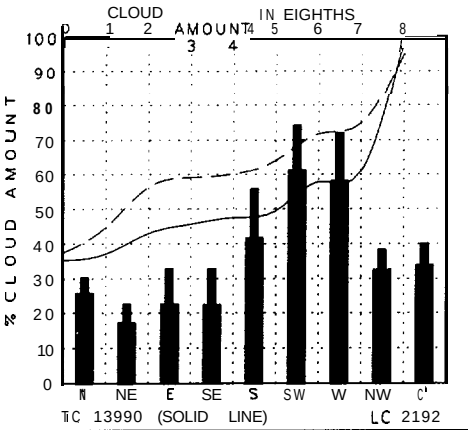
TC 8831 (SOLID LINE) LC 3719

Nome



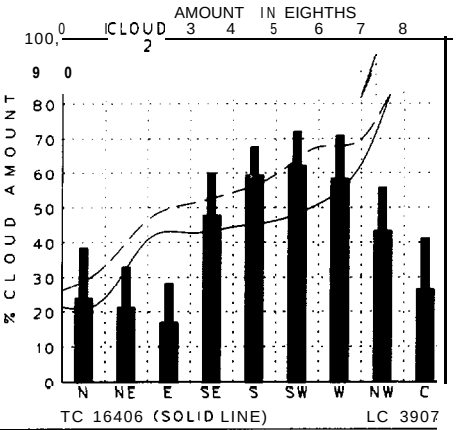
TC 19456 (SOLID LINE) LC 14734

Unalakleet



TC 13990 (SOLID LINE) LC 2192

Cape Romanzof



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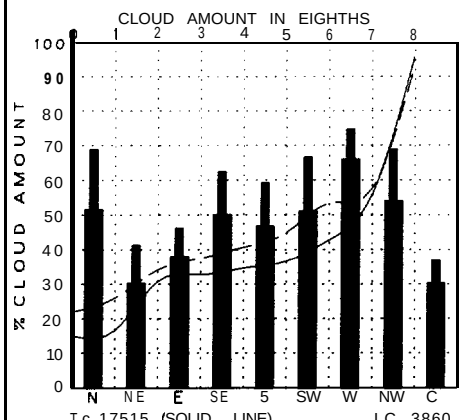
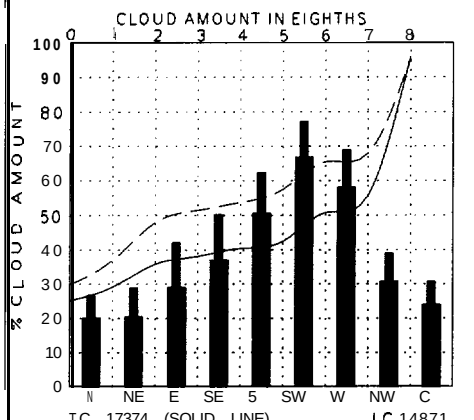
Cape Newenham



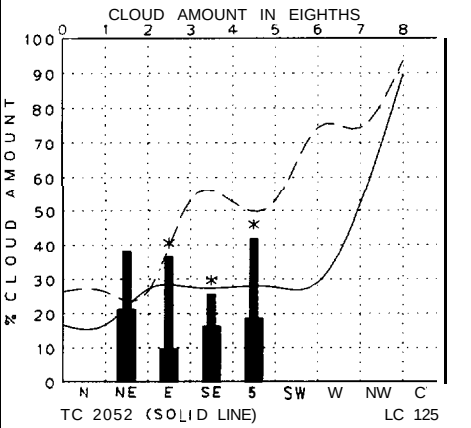
Tc 17515 (SOLID LINE) LC 3860

King Salmon



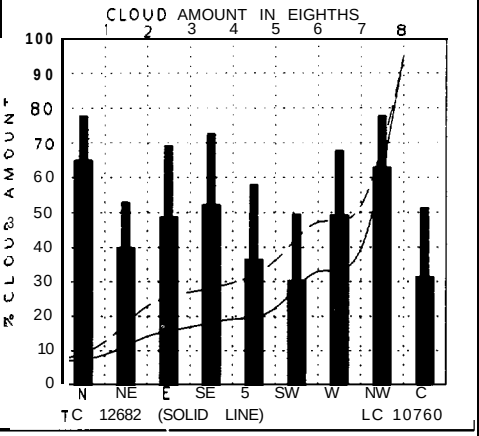
TC 17374 (SOLID LINE) LC 14871

Port Heiden



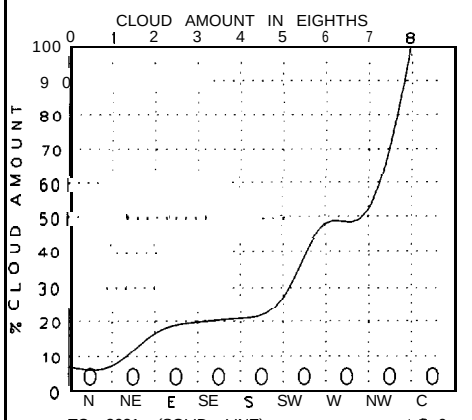
TC 2052 (SOLID LINE) LC 125

Cold Bay



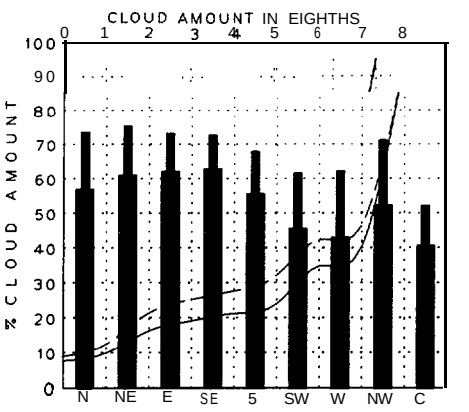
TC 12682 (SOLID LINE) LC 10760

Nikolski



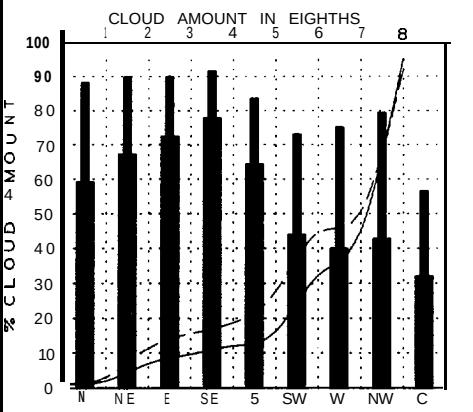
TC 2031 (SOLID LINE) LC 0

St. Paul



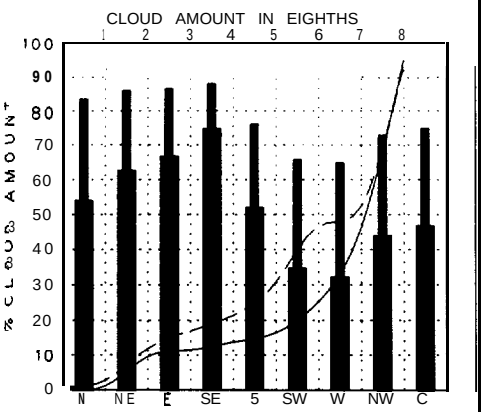
TC 10676 (SOLID LINE) LC 8596

Adak

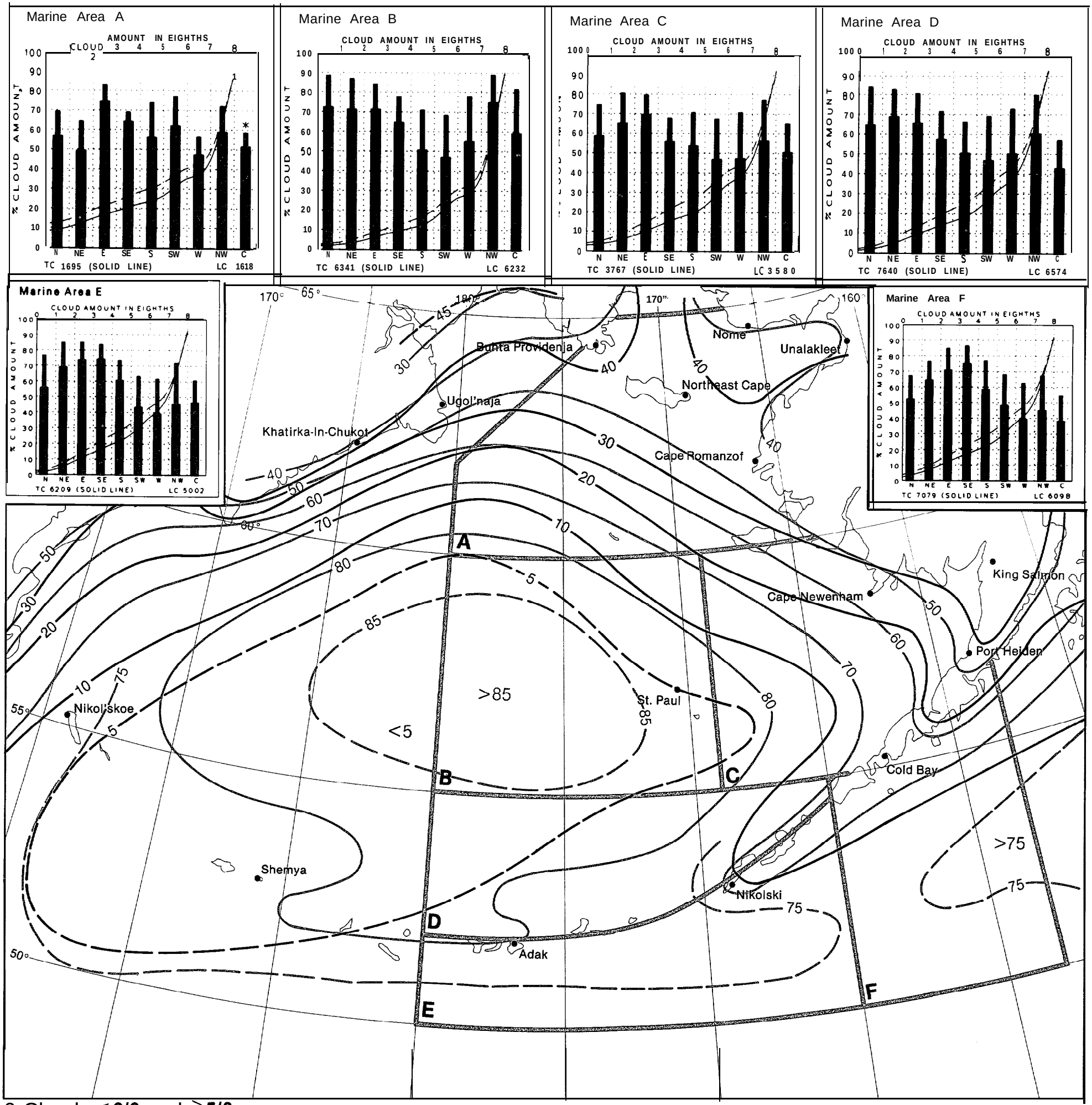


TC 21462 (SOLID LINE) LC 12760

Shemya



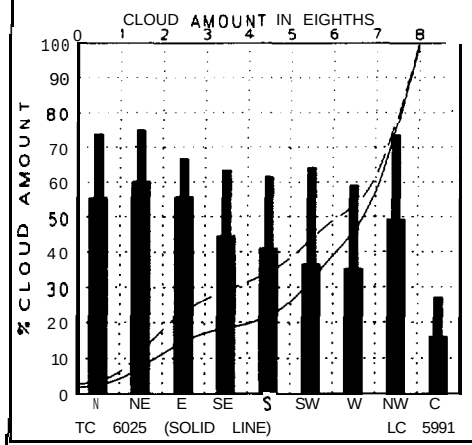
TC 17655 (SOLID LINE) LC 9339



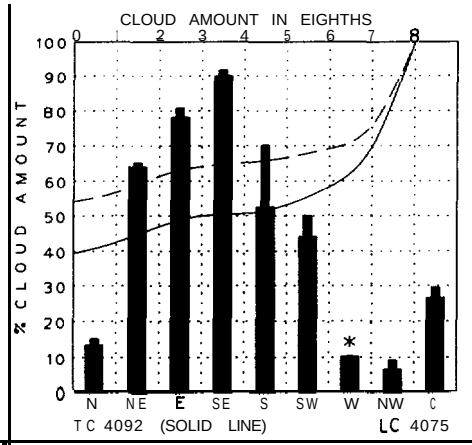
6 Clouds ≦ 2/8 and ≧ 5/8

February

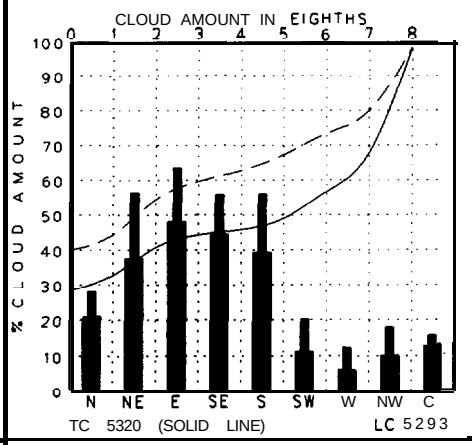
Nikol'skoe



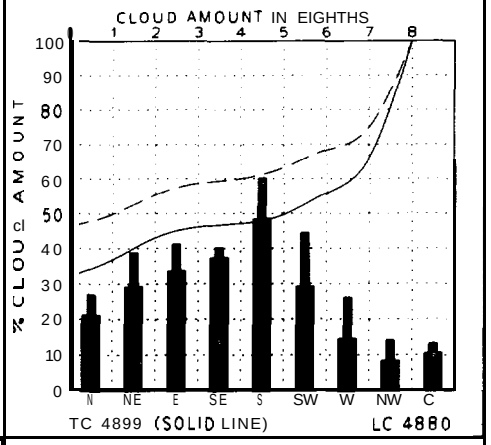
Khatirka-In-Chukot



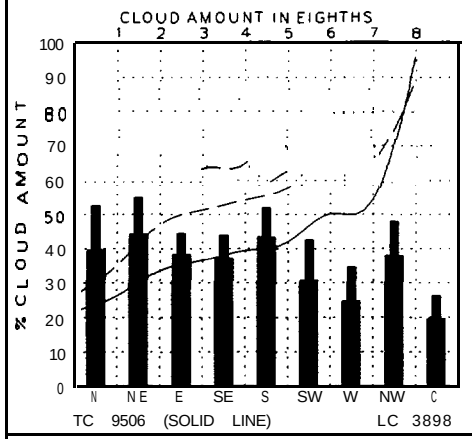
Ugol'naja



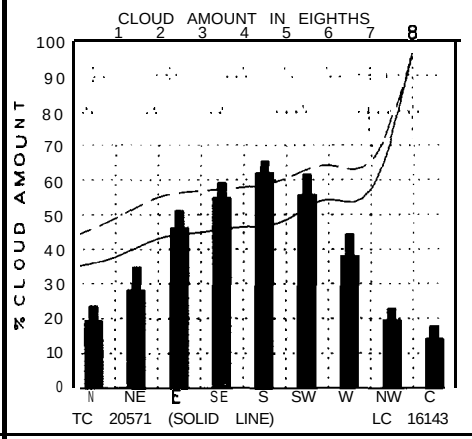
Buhta Providrnja



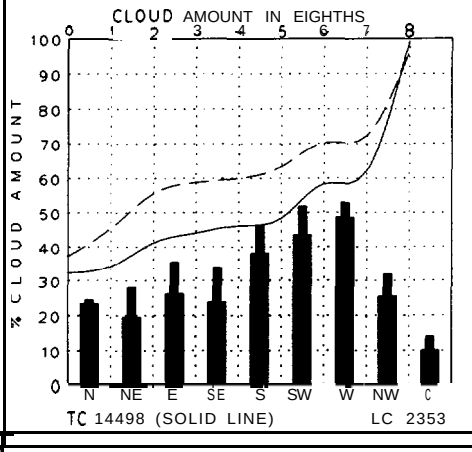
Norheast Cape



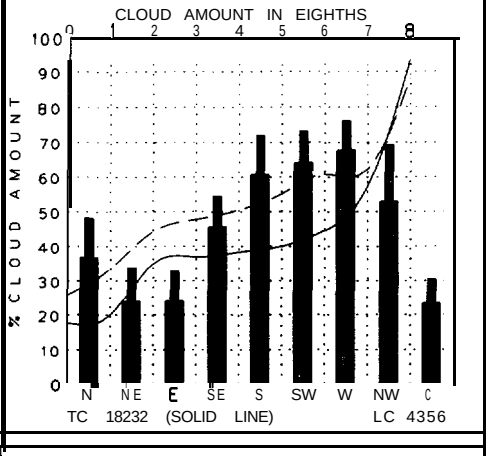
Nome



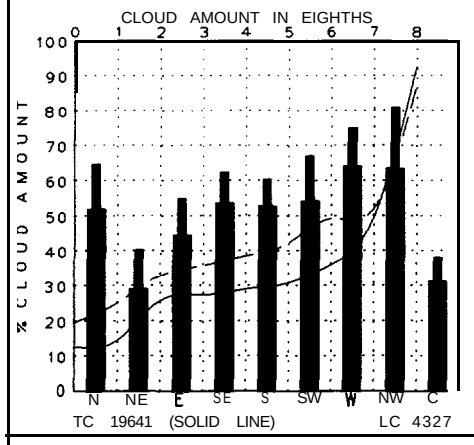
Unalakleet



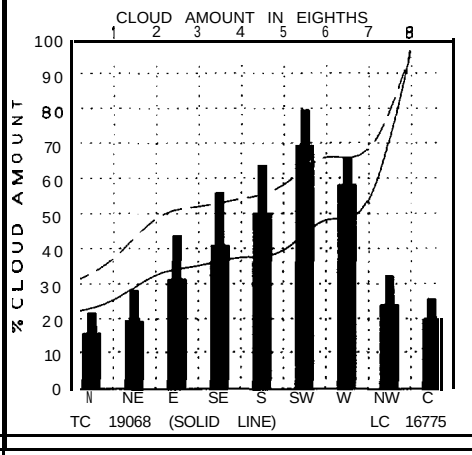
Cape Romanzof



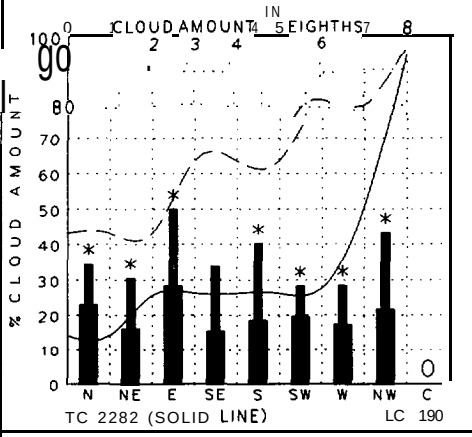
Cape Newenham



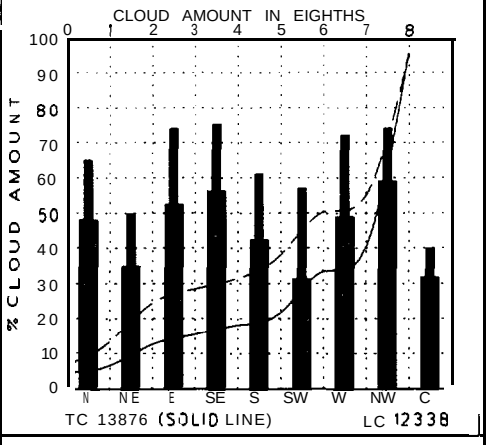
King Salmon



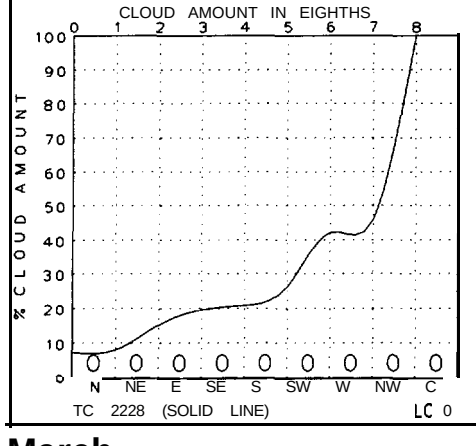
Port Heiden



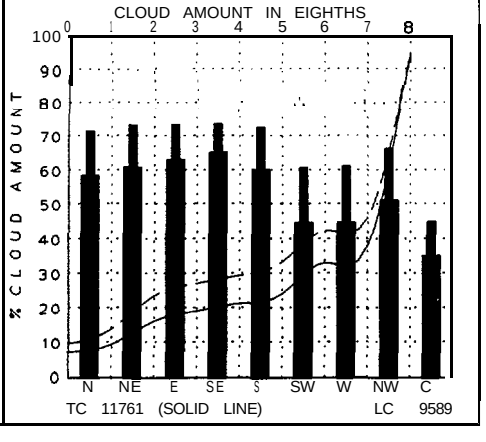
Cold Bay



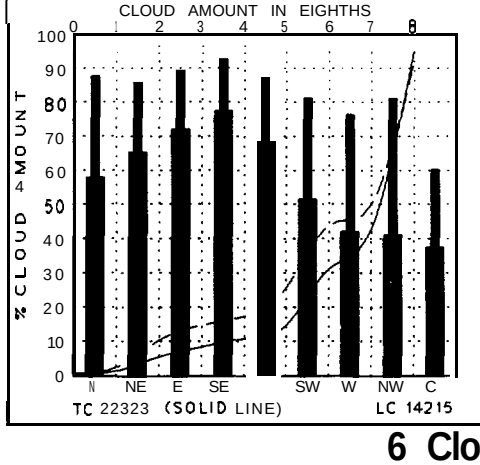
Nikolski



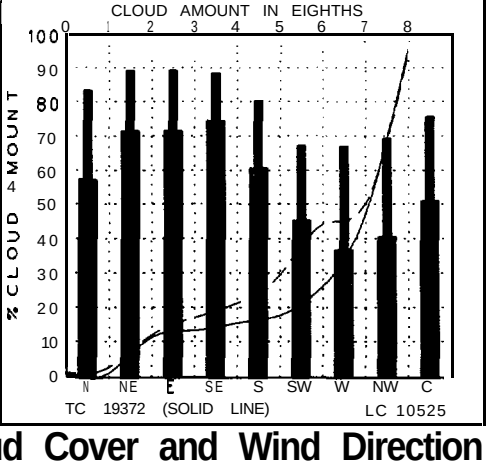
St. Paul

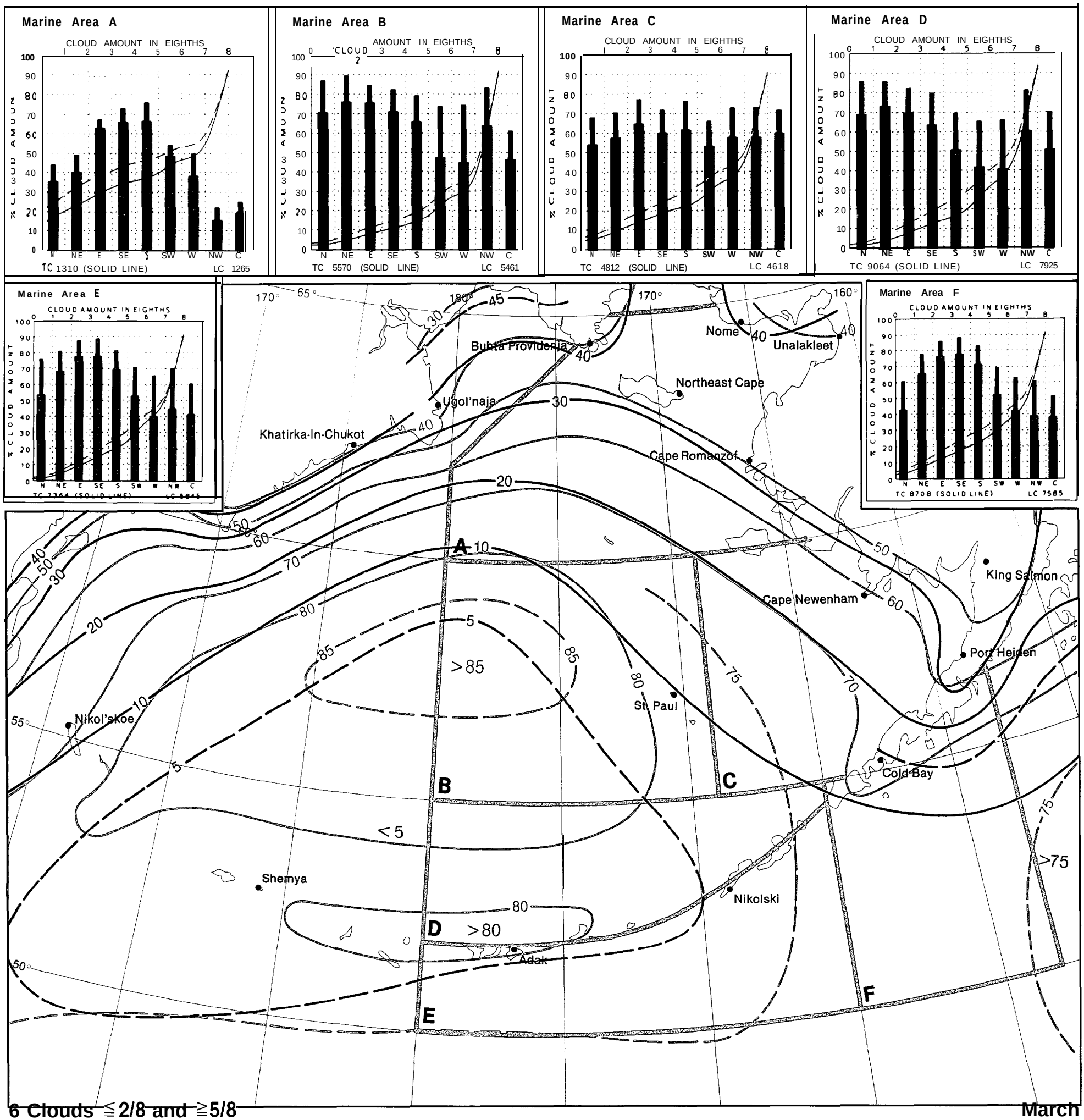


Adak



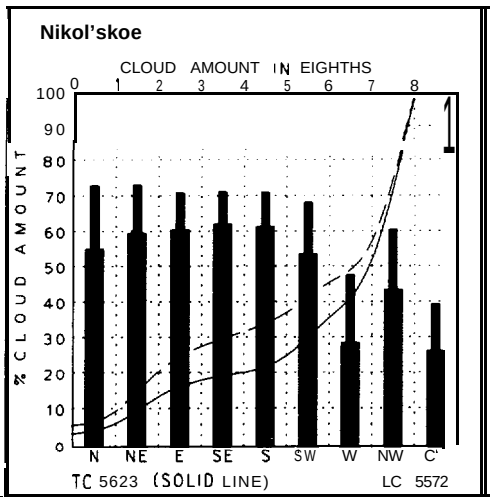
Shemya

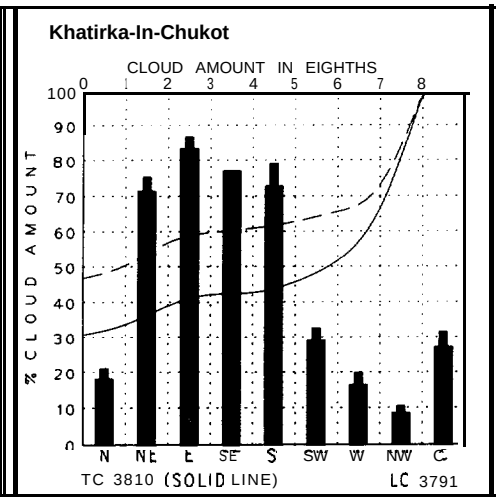


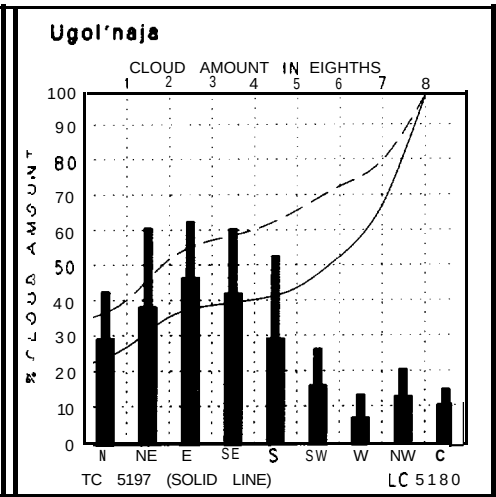


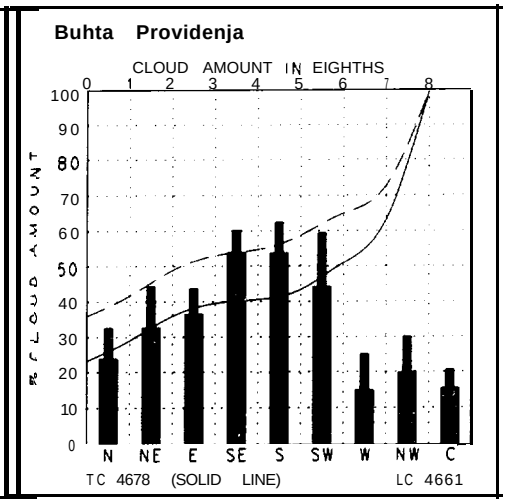
6 Clouds ≦2/8 and ≧5/8

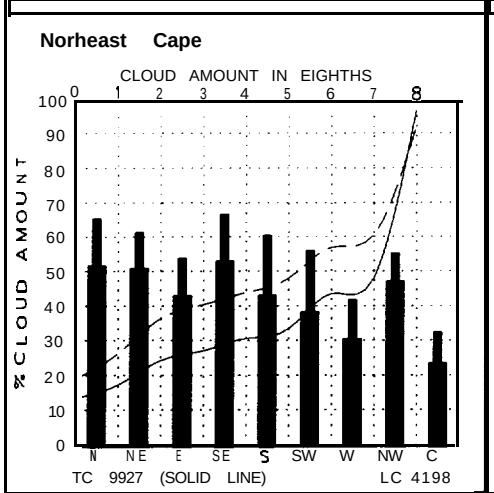
March

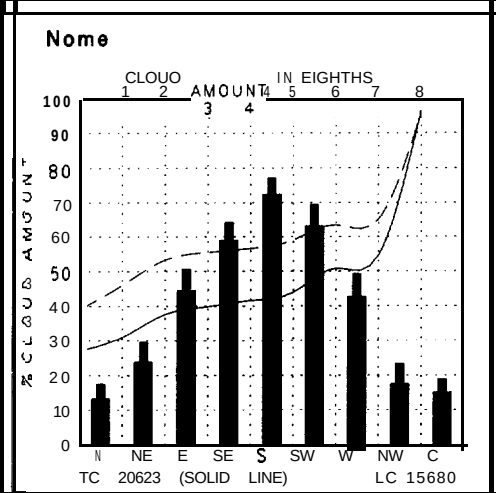

Nikol'skoe
CLOUD AMOUNT IN EIGHTHS
% CLOUD AMOUNT
N NE E SE S SW W NW C
TC 5623 (SOLID LINE)
LC 5572

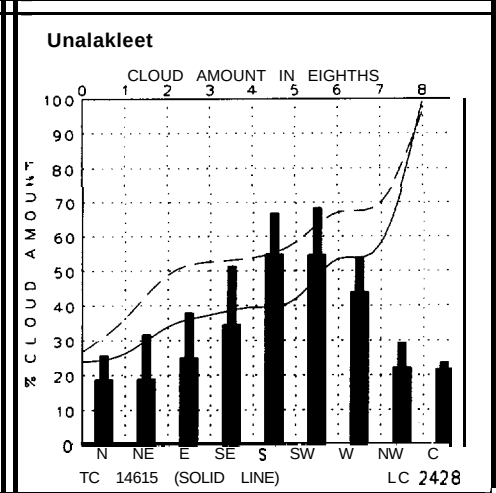

Khatirka-In-Chukot
CLOUD AMOUNT IN EIGHTHS
% CLOUD AMOUNT
N NE E SE S SW W NW C
TC 3810 (SOLID LINE)
LC 3791

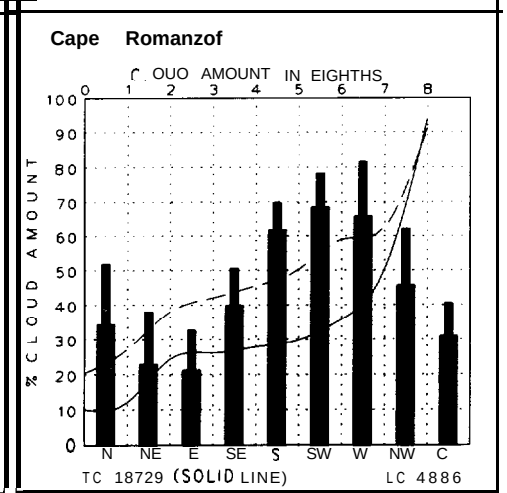

Ugol'naja
CLOUD AMOUNT IN EIGHTHS
% CLOUD AMOUNT
N NE E SE S SW W NW C
TC 5197 (SOLID LINE)
LC 5180

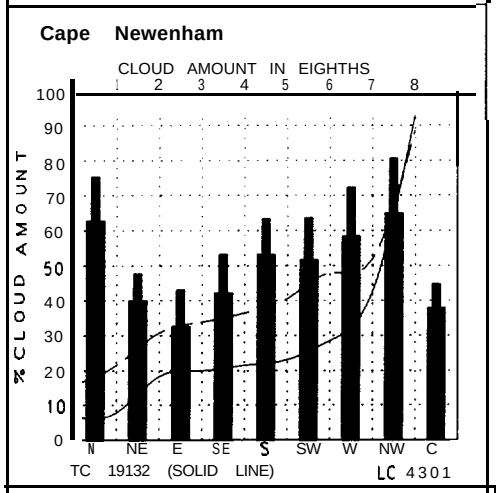

Buhta Providenja
CLOUD AMOUNT IN EIGHTHS
% CLOUD AMOUNT
N NE E SE S SW W NW C
TC 4678 (SOLID LINE)
LC 4661

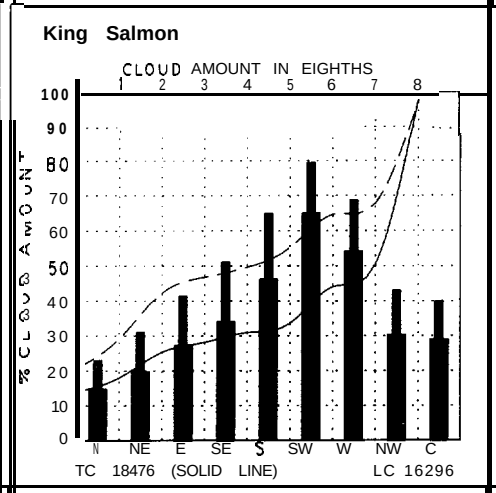

Norheast Cape
CLOUD AMOUNT IN EIGHTHS
% CLOUD AMOUNT
N NE E SE S SW W NW C
TC 9927 (SOLID LINE)
LC 4198

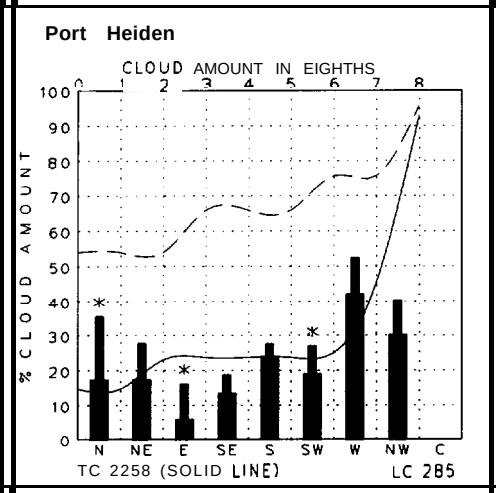

Nome
CLOUD AMOUNT IN EIGHTHS
% CLOUD AMOUNT
N NE E SE S SW W NW C
TC 20623 (SOLID LINE)
LC 15680

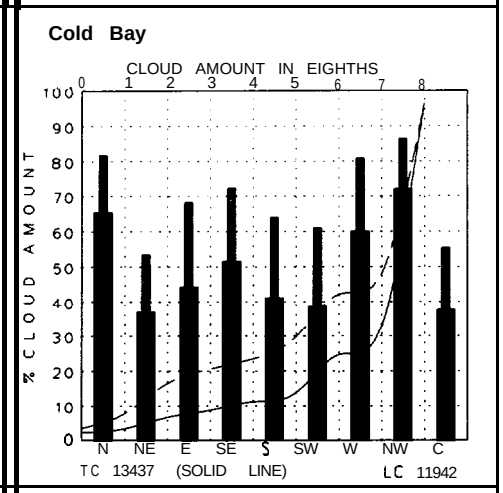

Unalakleet
CLOUD AMOUNT IN EIGHTHS
% CLOUD AMOUNT
N NE E SE S SW W NW C
TC 14615 (SOLID LINE)
LC 2428

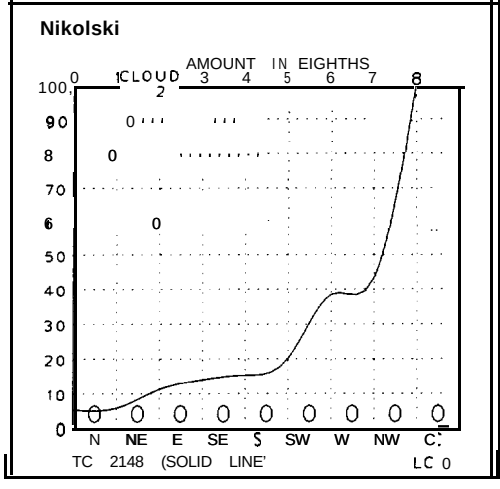

Cape Romanzof
CLOUD AMOUNT IN EIGHTHS
% CLOUD AMOUNT
N NE E SE S SW W NW C
TC 18729 (SOLID LINE)
LC 4886

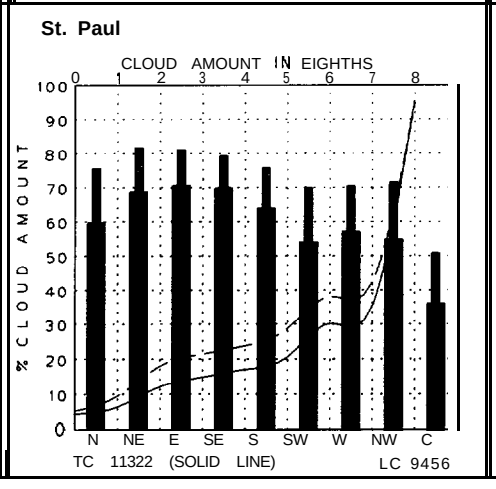

Cape Newenham
CLOUD AMOUNT IN EIGHTHS
% CLOUD AMOUNT
N NE E SE S SW W NW C
TC 19132 (SOLID LINE)
LC 4301

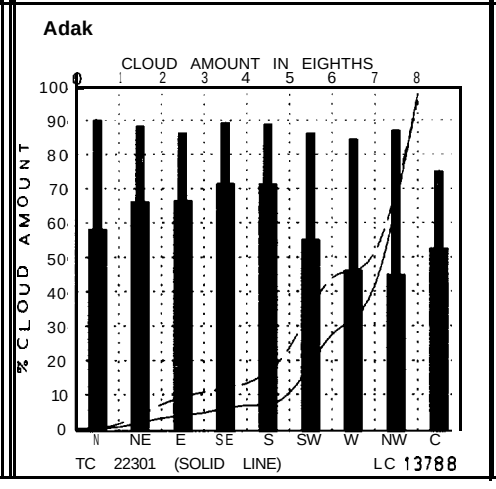

King Salmon
CLOUD AMOUNT IN EIGHTHS
% CLOUD AMOUNT
N NE E SE S SW W NW C
TC 18476 (SOLID LINE)
LC 16296

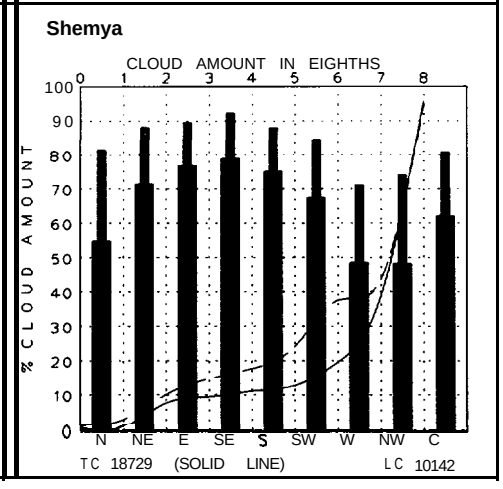

Port Heiden
CLOUD AMOUNT IN EIGHTHS
% CLOUD AMOUNT
N NE E SE S SW W NW C
TC 2258 (SOLID LINE)
LC 285

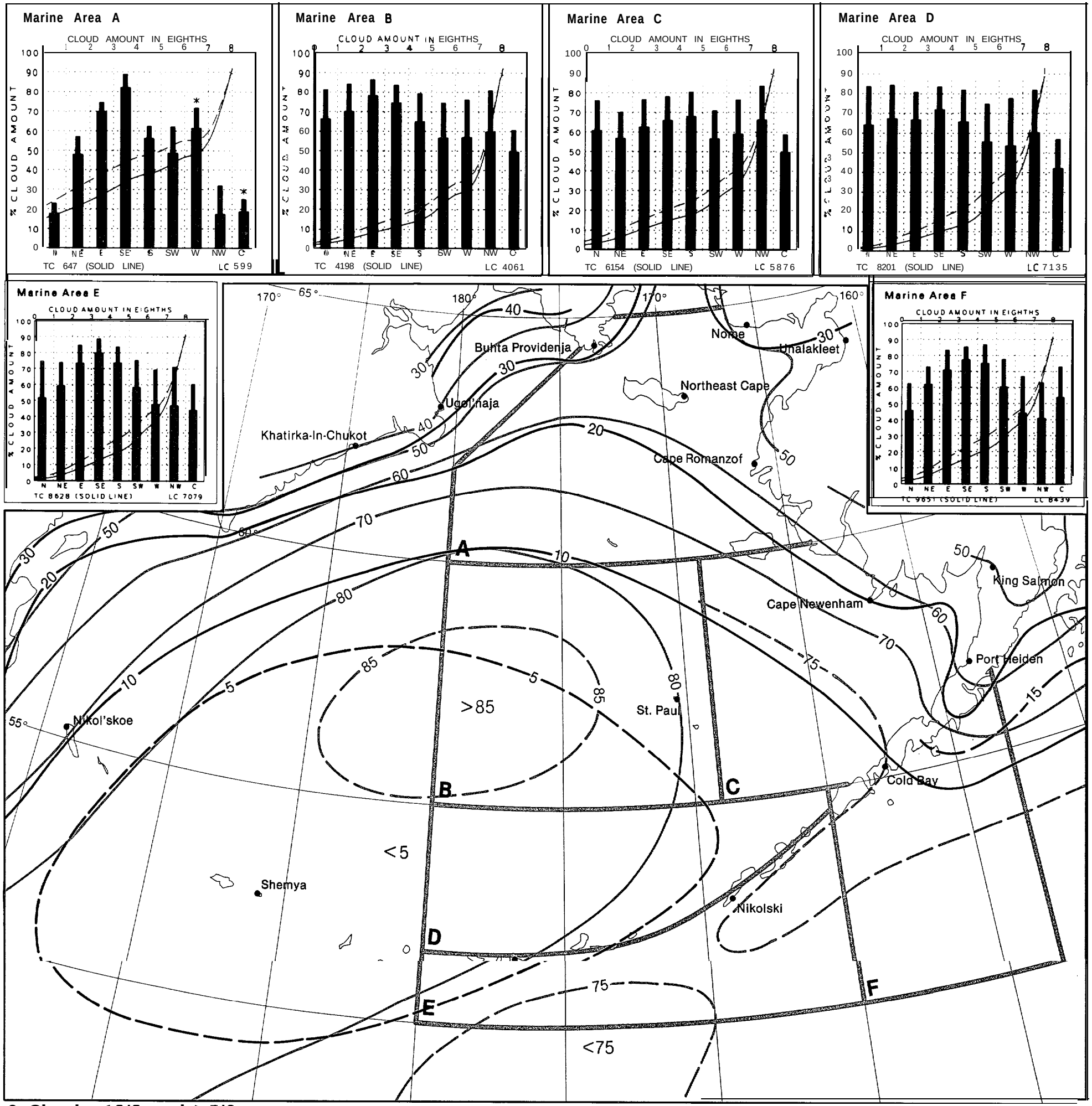

Cold Bay
CLOUD AMOUNT IN EIGHTHS
% CLOUD AMOUNT
N NE E SE S SW W NW C
TC 13437 (SOLID LINE)
LC 11942


Nikolski
CLOUD AMOUNT IN EIGHTHS
N NE E SE S SW W NW C
TC 2148 (SOLID LINE)
LC 0


St. Paul
CLOUD AMOUNT IN EIGHTHS
% CLOUD AMOUNT
N NE E SE S SW W NW C
TC 11322 (SOLID LINE)
LC 9456


Adak
CLOUD AMOUNT IN EIGHTHS
% CLOUD AMOUNT
N NE E SE S SW W NW C
TC 22301 (SOLID LINE)
LC 13788

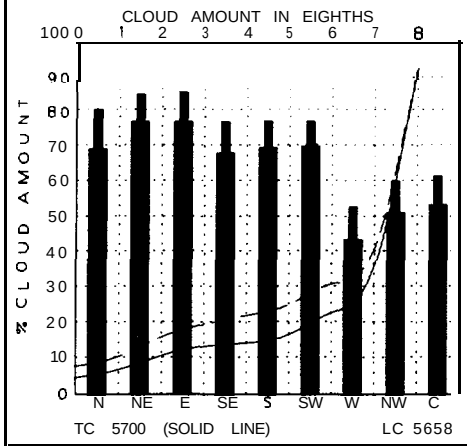

Shemya
CLOUD AMOUNT IN EIGHTHS
% CLOUD AMOUNT
N NE E SE S SW W NW C
TC 18729 (SOLID LINE)
LC 10142



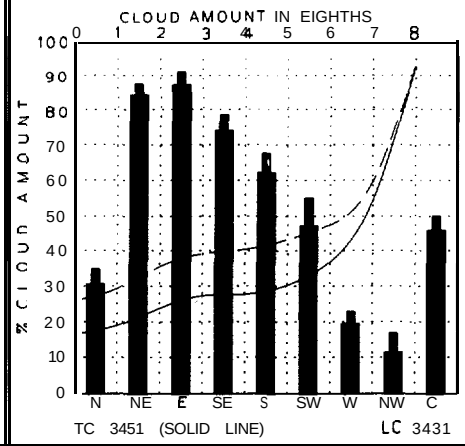
6 Clouds ≦2/8 and ≧5/8

April

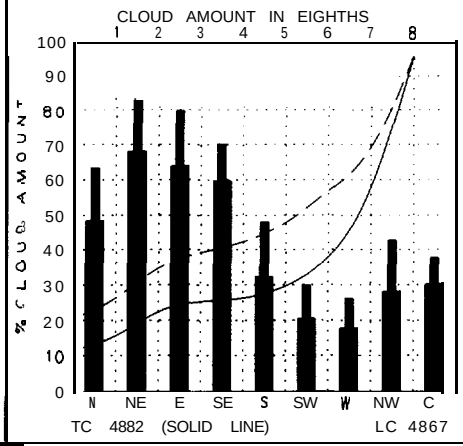
Nikol'skoe



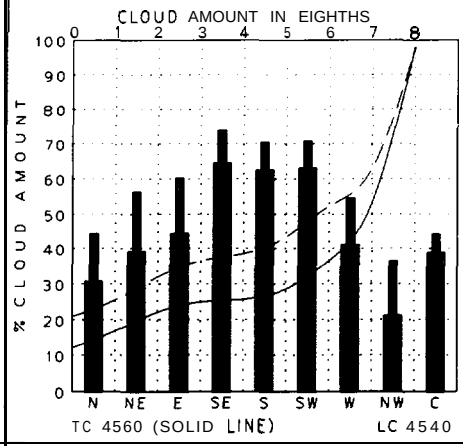
Khatirka-In-Chukot



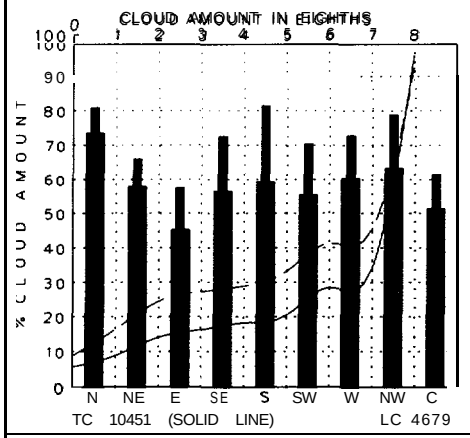
Ugol'naja



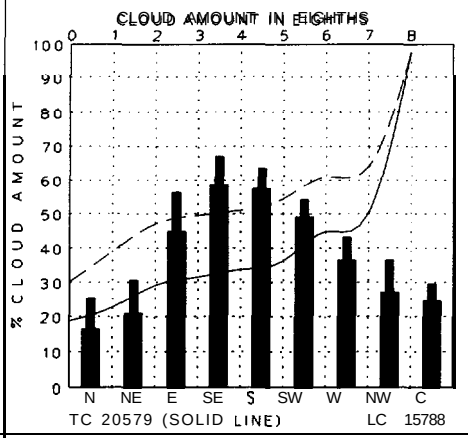
Buhta Providenjs



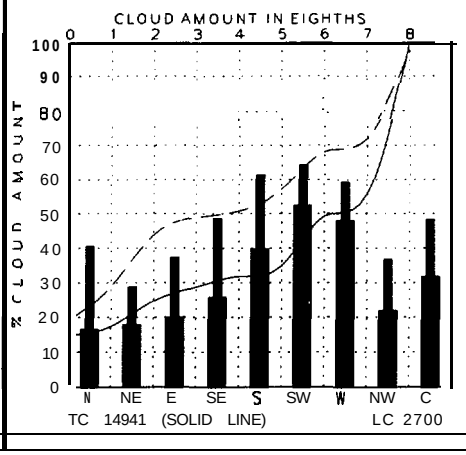
Norheast Cape



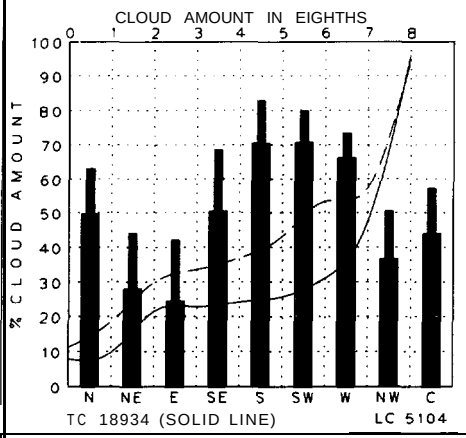
Nome



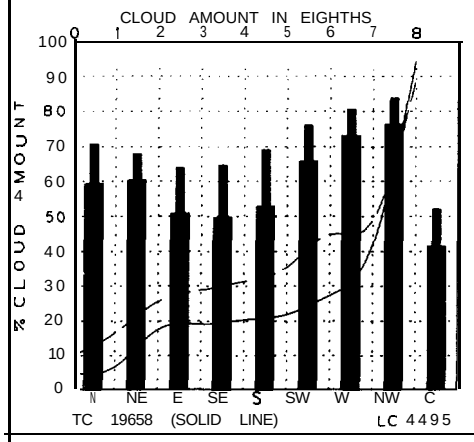
Unalakleet



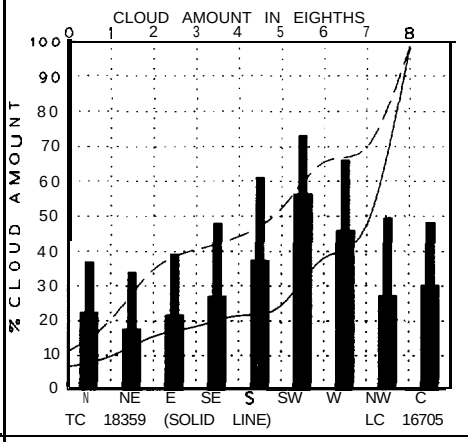
Cape Romanzof



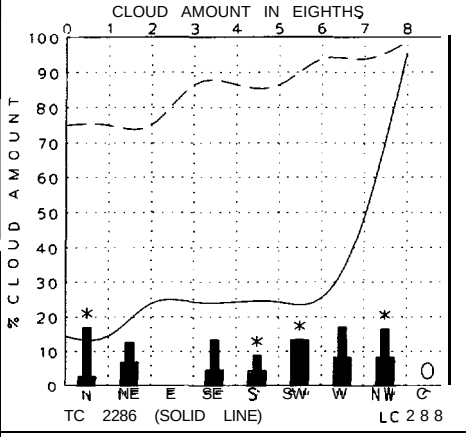
Cape Newenham



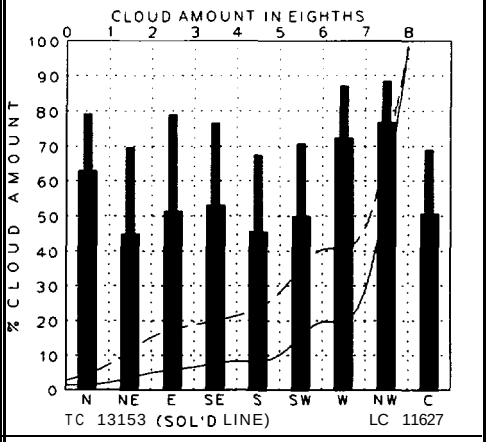
King Salmon



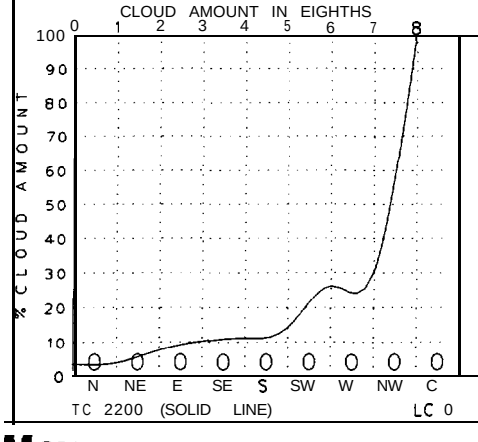
Port Heiden



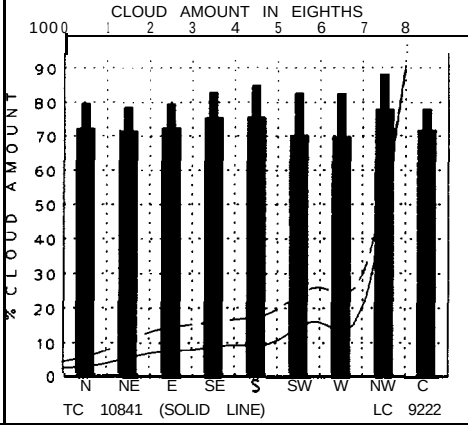
Cold Bay



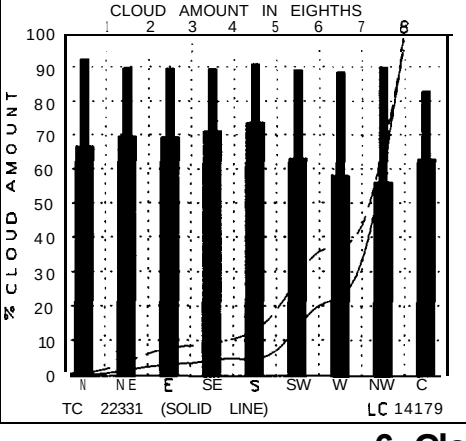
Nikolski



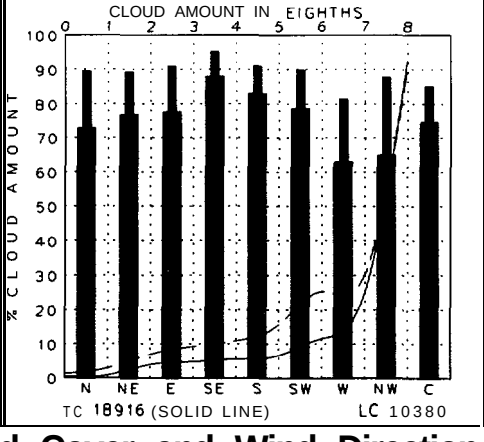
St. Paul

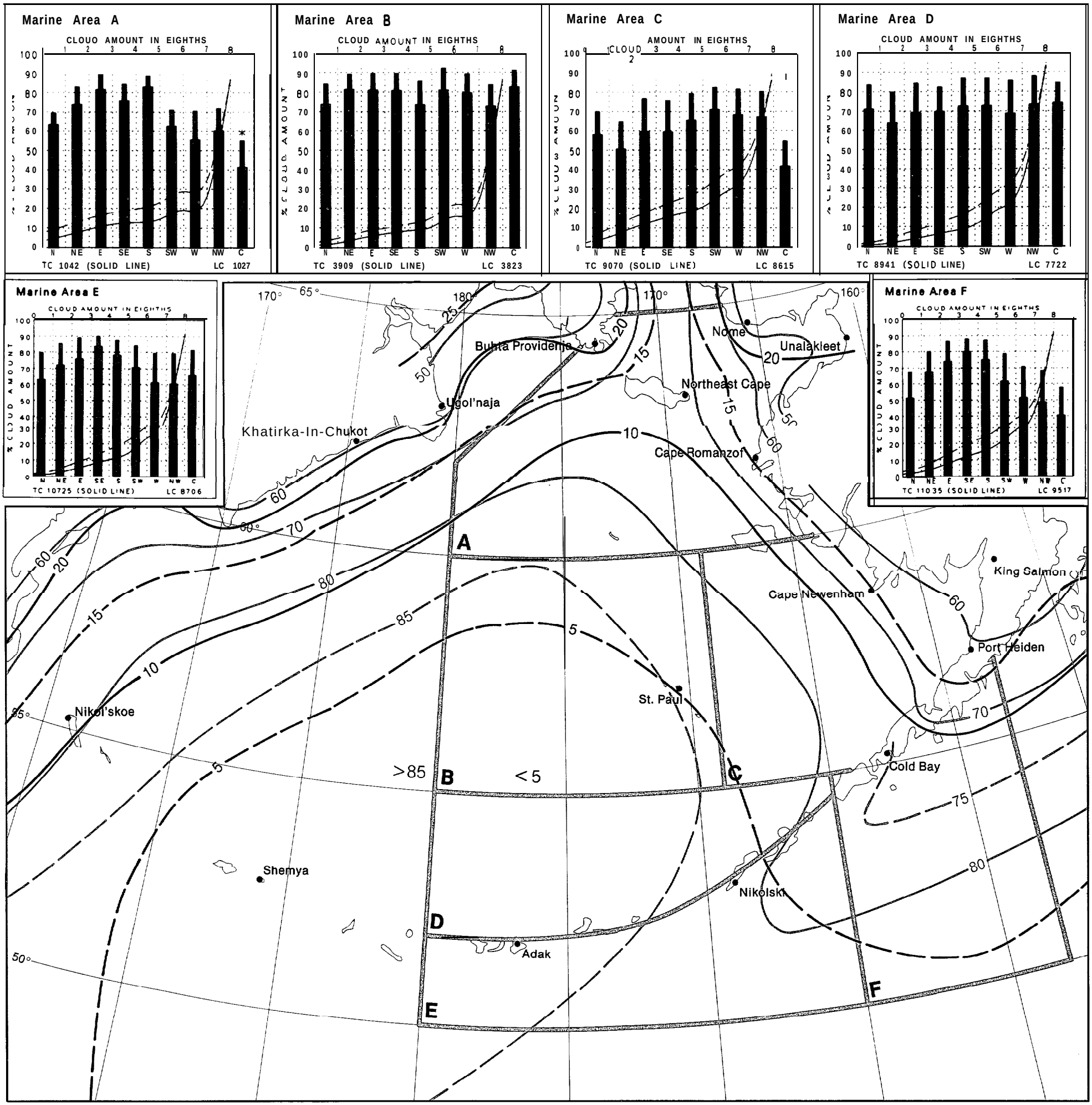


Adak



Shemya

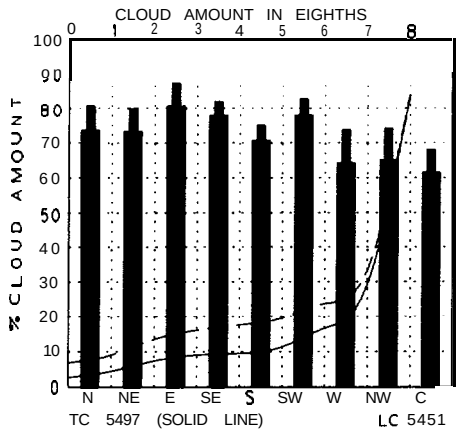




6 Clouds ≦2/8 and ≧5/8

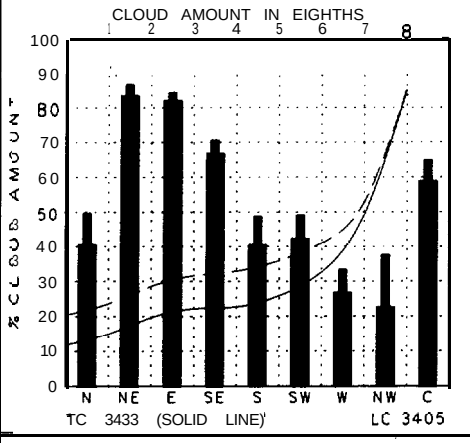
May

Nikol'skoe



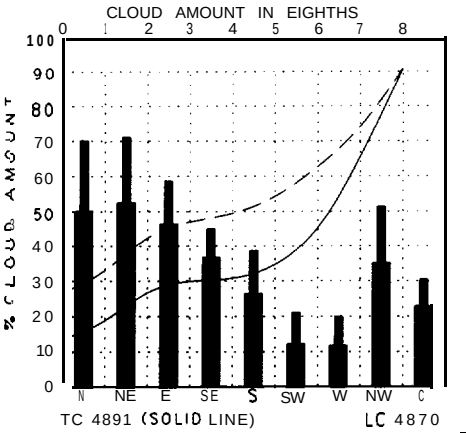
TC 5497 (SOLID LINE) LC 5451

Khatirka-In-Chukot



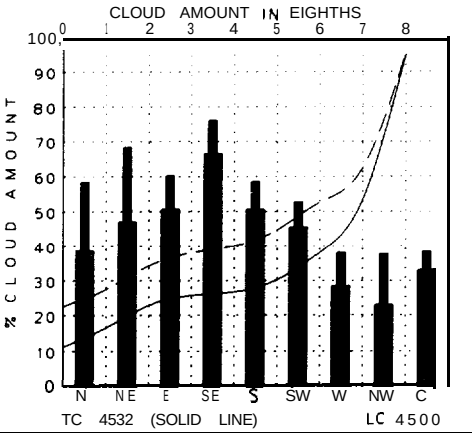
TC 3433 (SOLID LINE) LC 3405

Ugol'naja



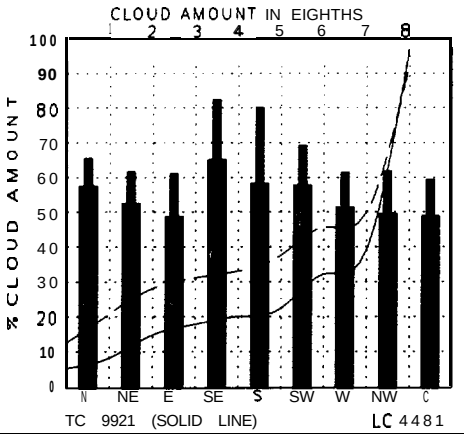
TC 4891 (SOLID LINE) LC 4870

Buhta Providenja



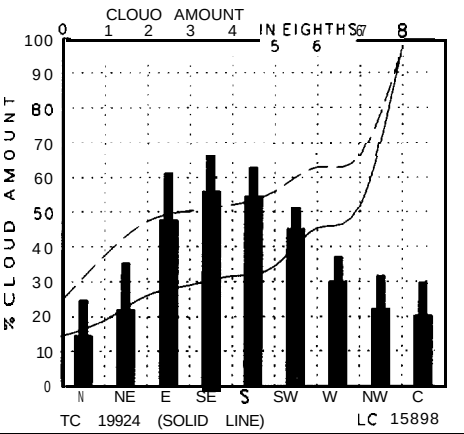
TC 4532 (SOLID LINE) LC 4500

Norheast Cape



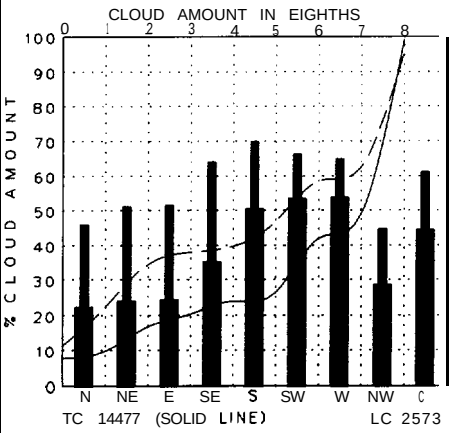
TC 9921 (SOLID LINE) LC 4481

Nome



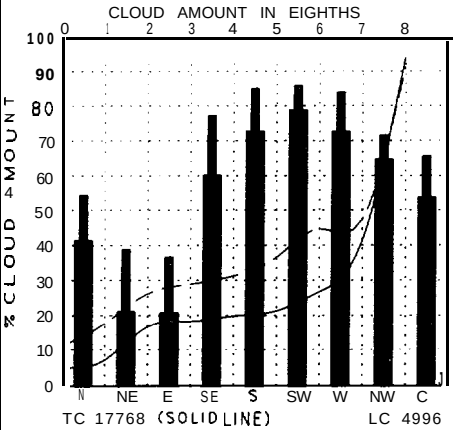
TC 19924 (SOLID LINE) LC 15898

Unalakleet



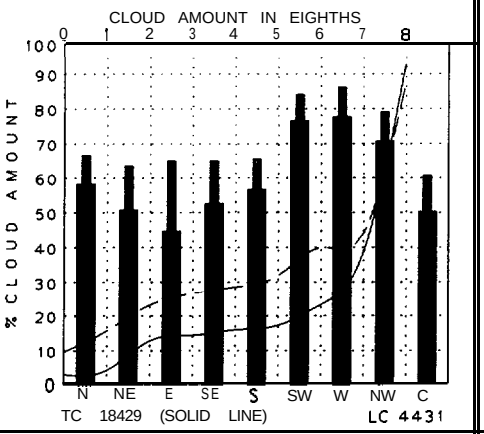
TC 14477 (SOLID LINE) LC 2573

Cape Romanrof



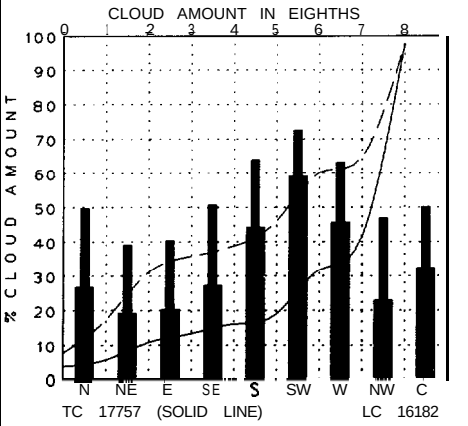
TC 17768 (SOLID LINE) LC 4996

Cape Newenhem



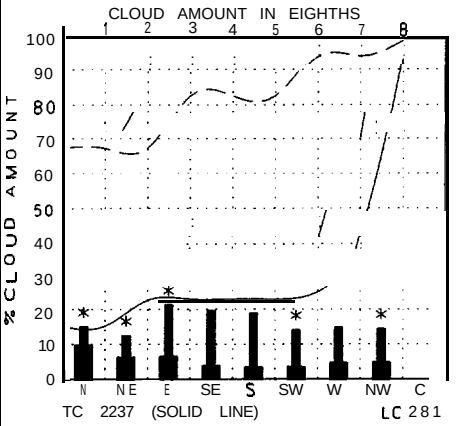
TC 18429 (SOLID LINE) LC 4431

King Salmon



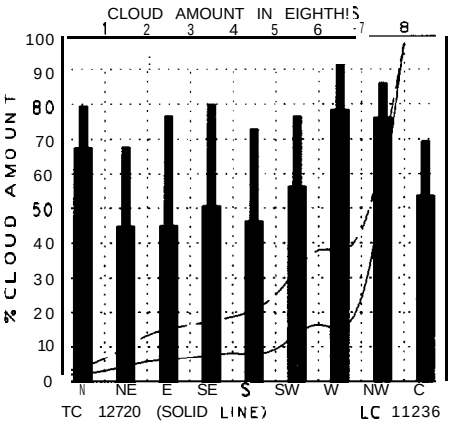
TC 17757 (SOLID LINE) LC 16182

Port Heiden



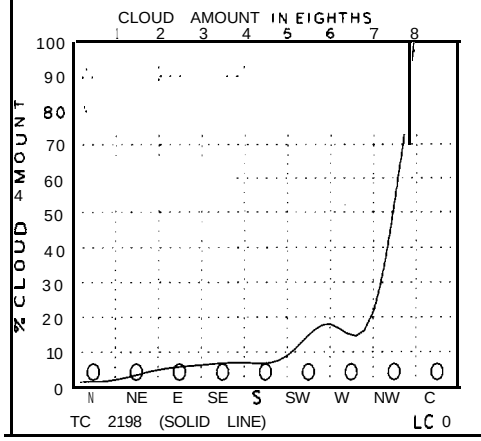
TC 2237 (SOLID LINE) LC 281

Cold Bay



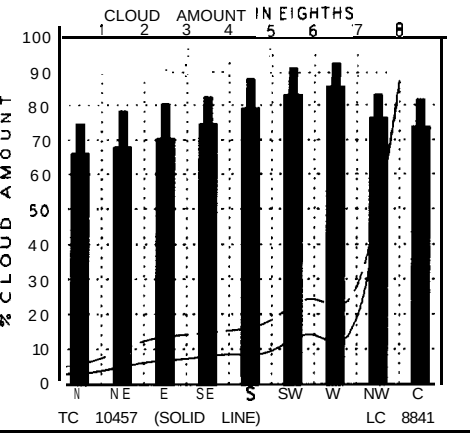
TC 12720 (SOLID LINE) LC 11236

Nikoleki



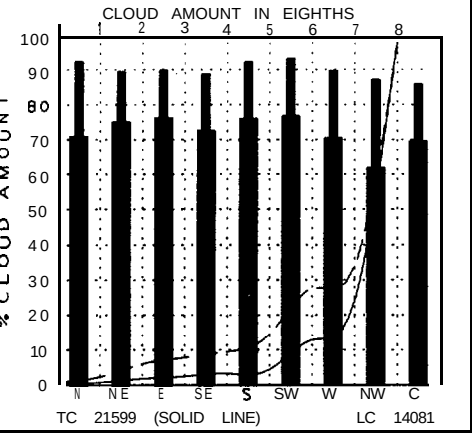
TC 2198 (SOLID LINE) LC 0

St. Paul



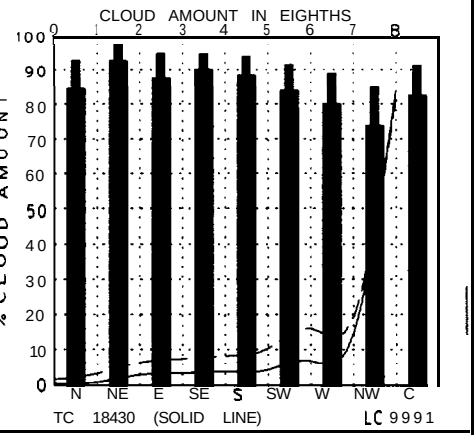
TC 10457 (SOLID LINE) LC 8841

Adak

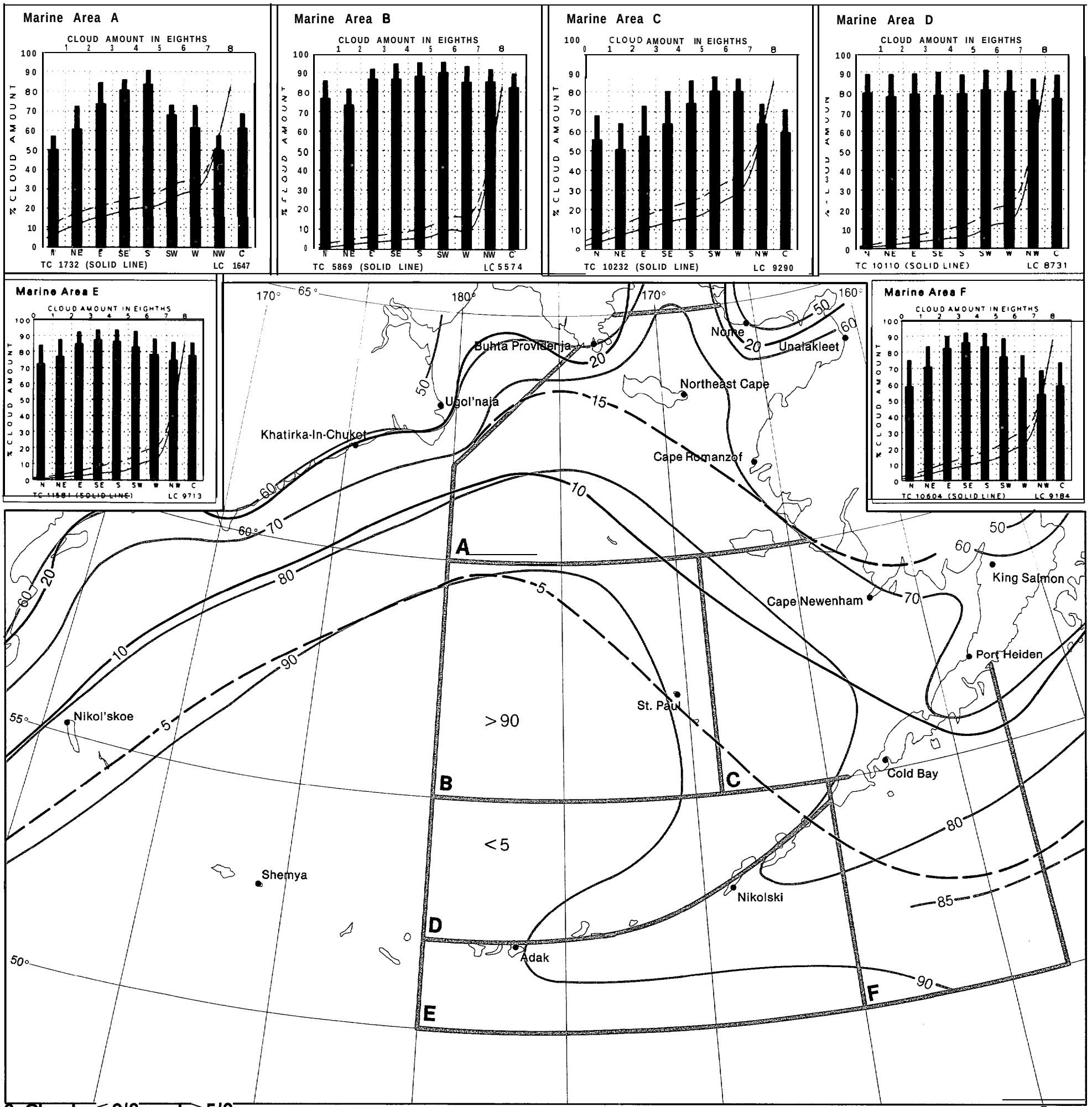


TC 21599 (SOLID LINE) LC 14081

Shemya



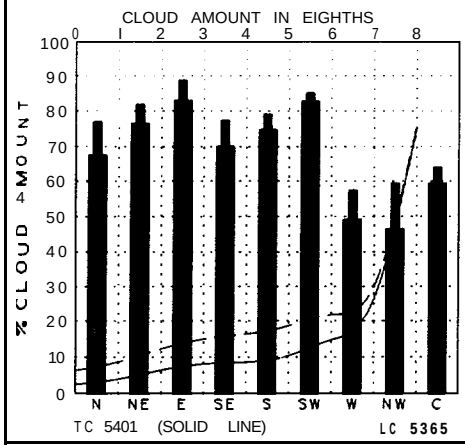
TC 18430 (SOLID LINE) LC 9991



6 Clouds ≦2/8 and ≧5/8

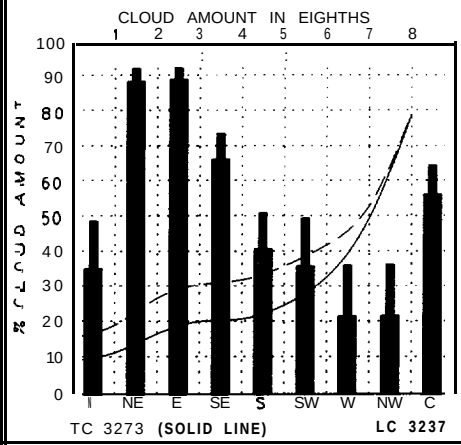
June

Nikol'skoe



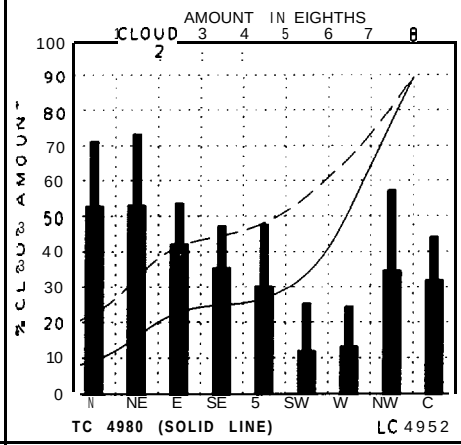
TC 5401 (SOLID LINE) LC 5365

Khatirka-in-Chukot



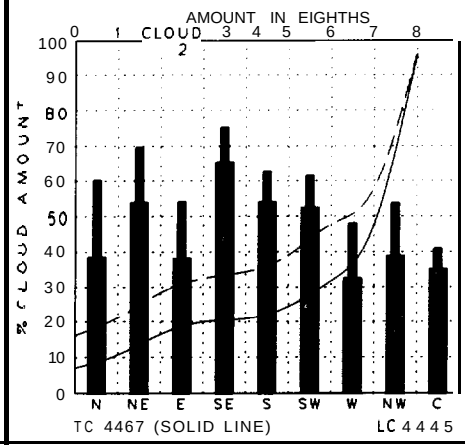
TC 3273 (SOLID LINE) LC 3237

Ugol'naja



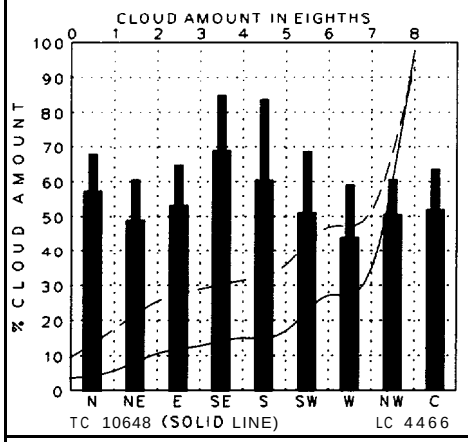
TC 4980 (SOLID LINE) LC 4952

Buhta Providsnja



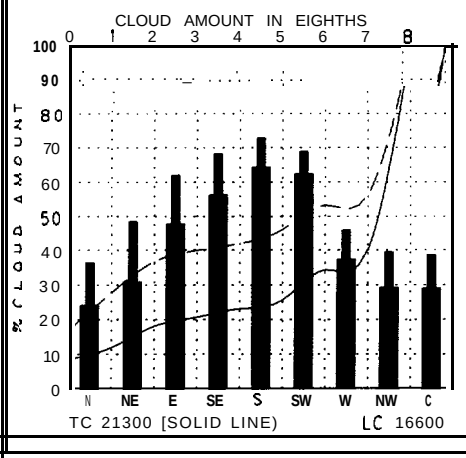
TC 4467 (SOLID LINE) LC 4445

Norheast Cape



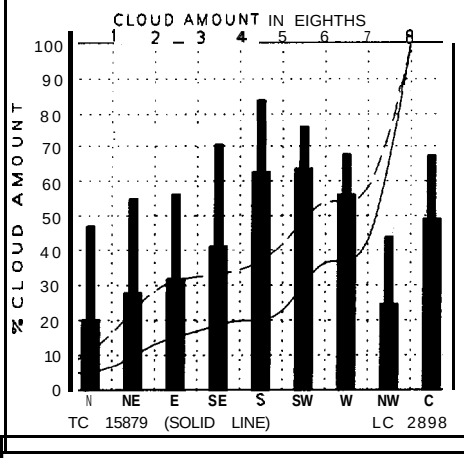
TC 10648 (SOLID LINE) LC 4466

Nome



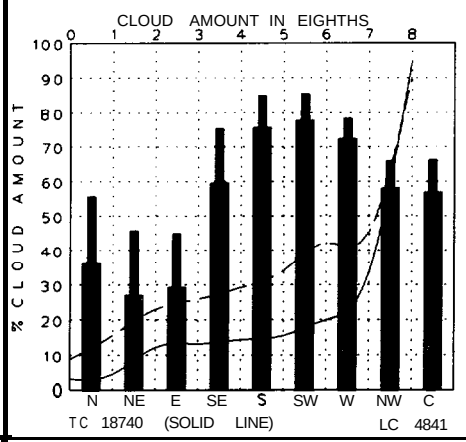
TC 21300 [SOLID LINE) LC 16600

Unalakleet



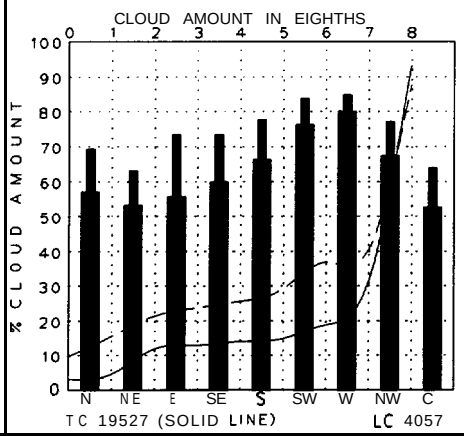
TC 15879 (SOLID LINE) LC 2898

Cape Romanzof



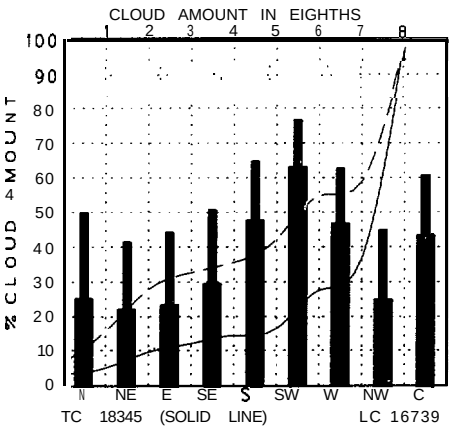
TC 18740 (SOLID LINE) LC 4841

Cape Newenham



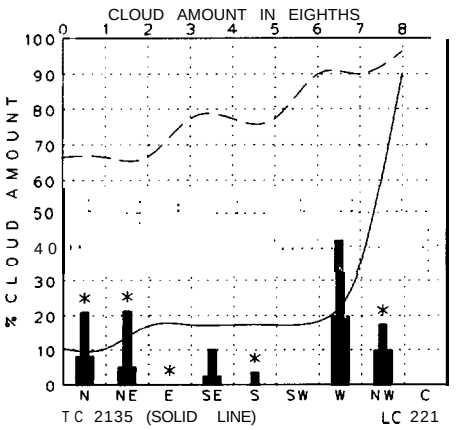
TC 19527 (SOLID LINE) LC 4057

King Salmon



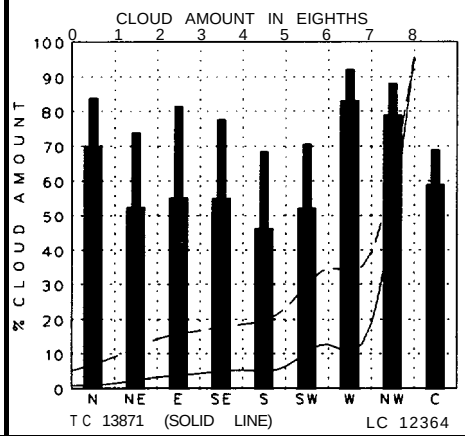
TC 18345 (SOLID LINE) LC 16739

Port Heiden



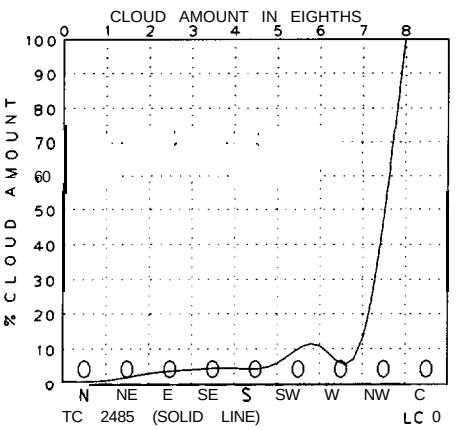
TC 2135 (SOLID LINE) LC 221

Cold Bay



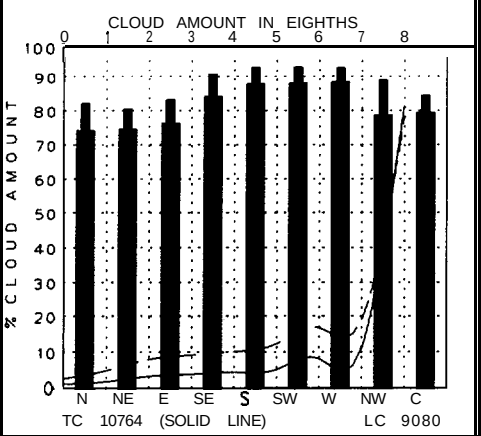
TC 13871 (SOLID LINE) LC 12364

Nikolski



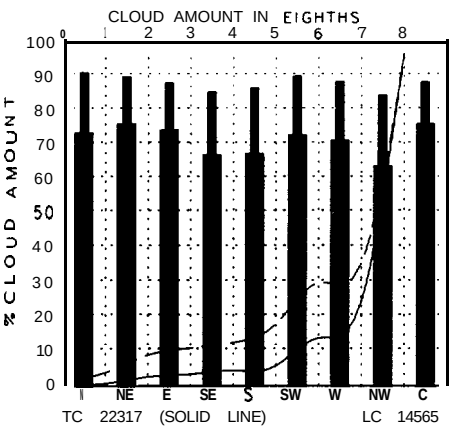
TC 2485 (SOLID LINE) LC 0

St. Paul



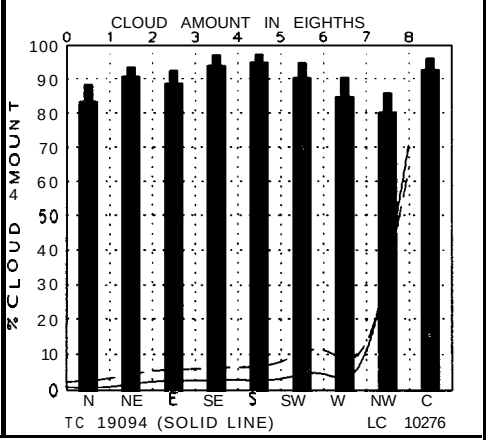
TC 10764 (SOLID LINE) LC 9080

Adak

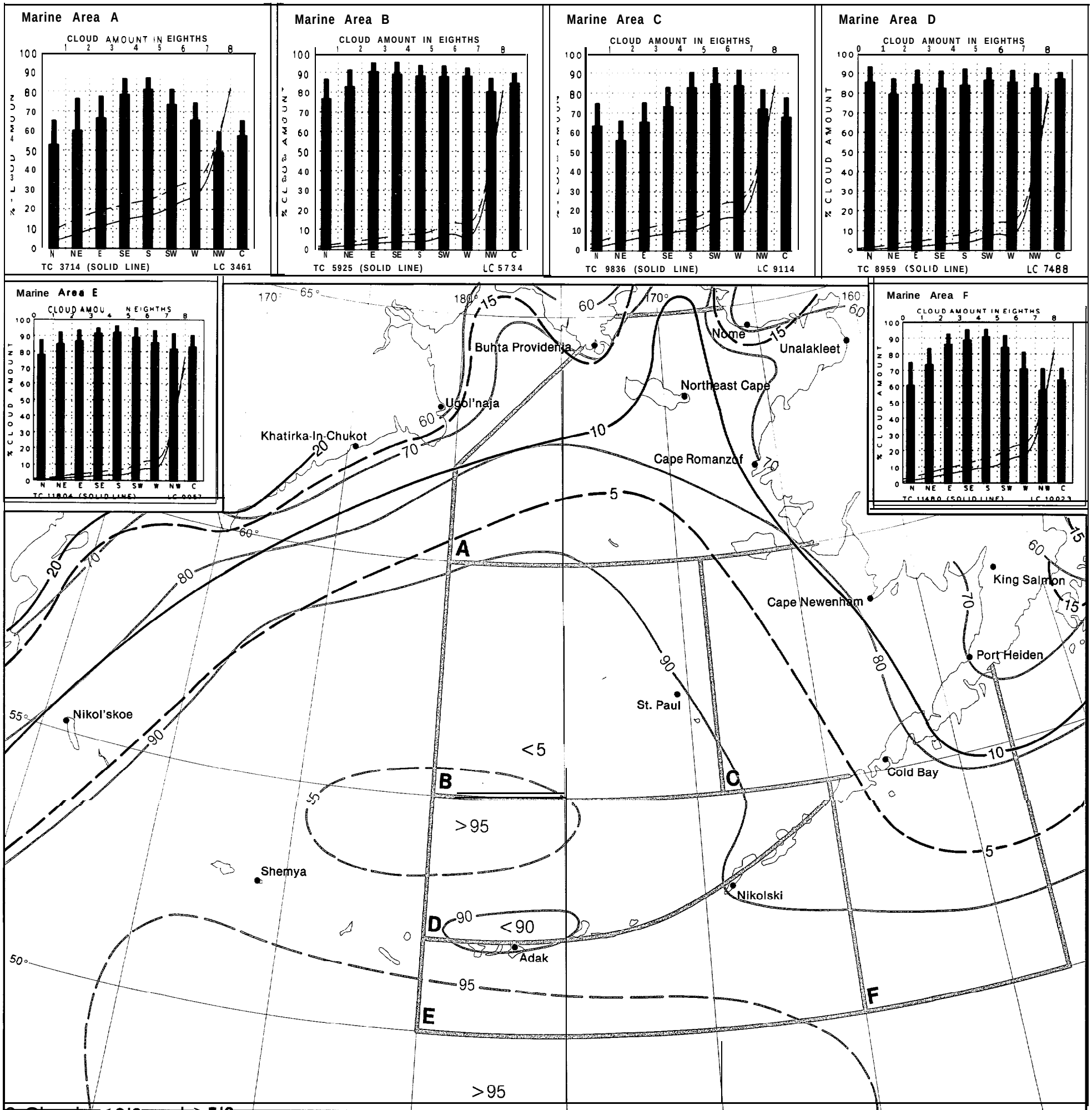


TC 22317 (SOLID LINE) LC 14565

Shemya



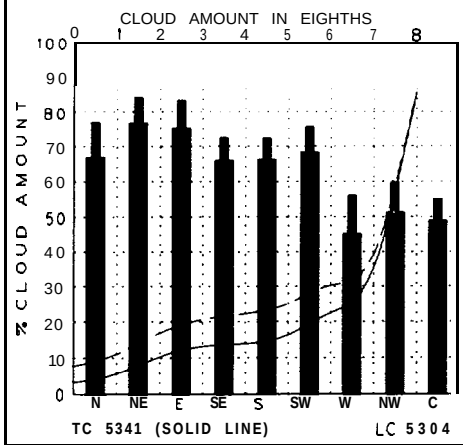
TC 19094 (SOLID LINE) LC 10276



6 Clouds ≦2/8 and ≧5/8

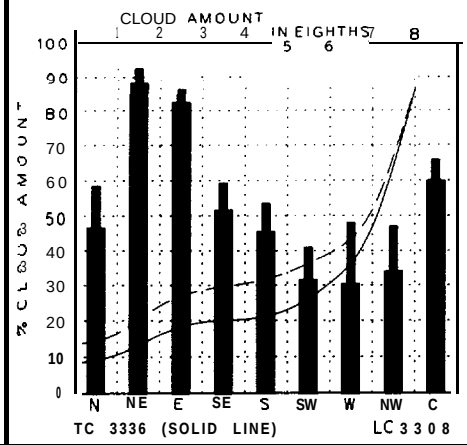
July

Nikol'skoe



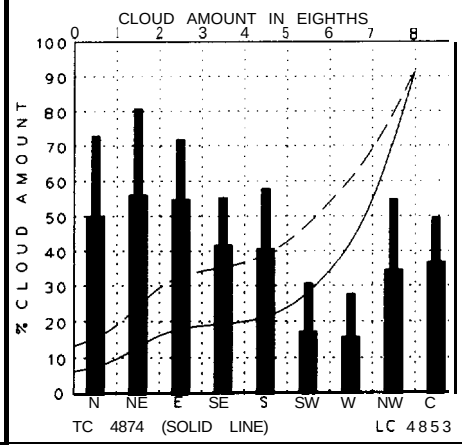
TC 5341 (SOLID LINE) LC 5304

Khatirka-In-Chukot



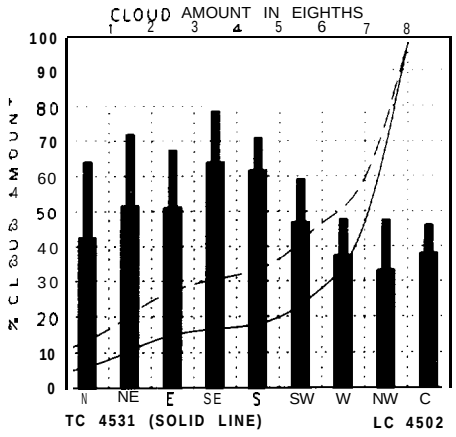
TC 3336 (SOLID LINE) LC 3308

Ugol'naja



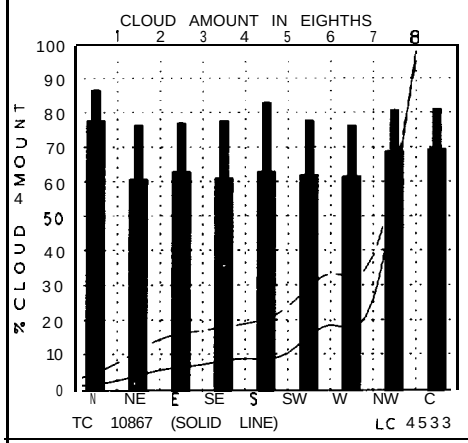
TC 4874 (SOLID LINE) LC 4853

Buhta Providenja



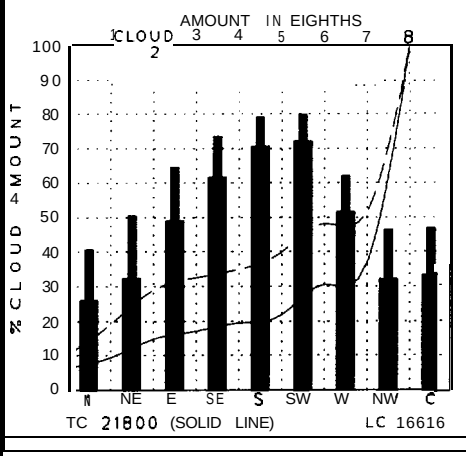
TC 4531 (SOLID LINE) LC 4502

Norheest Cape



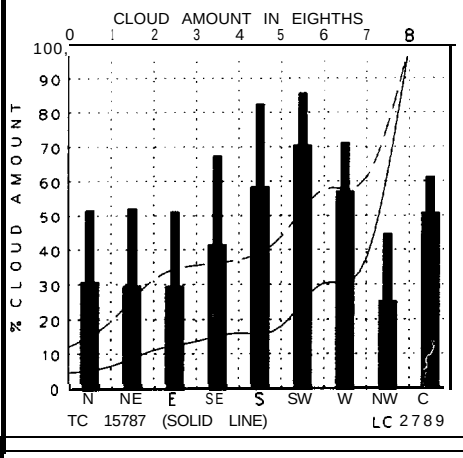
TC 10867 (SOLID LINE) LC 4533

Nome



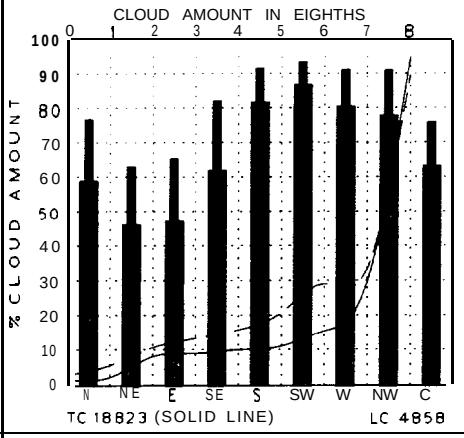
TC 21800 (SOLID LINE) LC 16616

Unalakleet



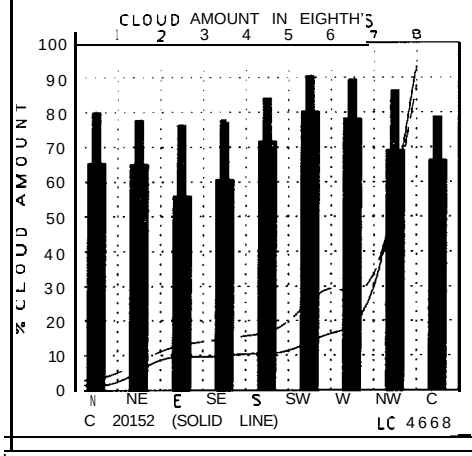
TC 15787 (SOLID LINE) LC 2789

Cap0 Romanzof



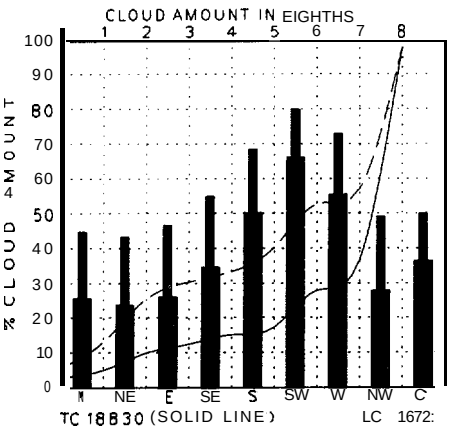
TC 18823 (SOLID LINE) LC 4858

Cape Newenham



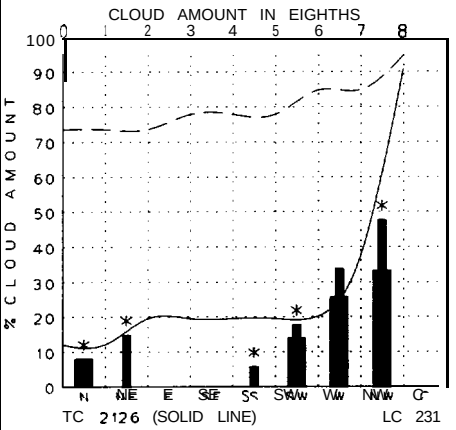
C 20152 (SOLID LINE) LC 4668

King Salmon



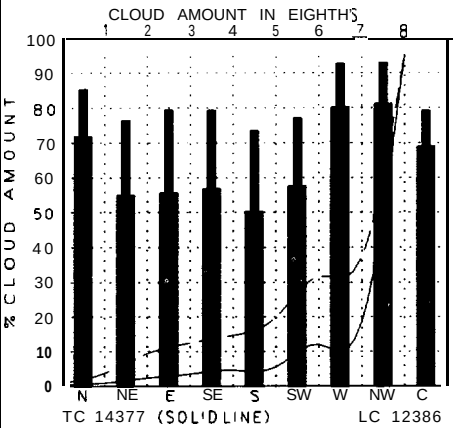
TC 18830 (SOLID LINE) LC 1672:

Port Heiden



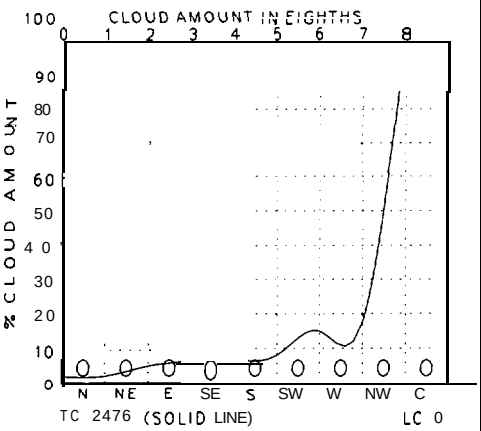
TC 2126 (SOLID LINE) LC 231

Cold Bay



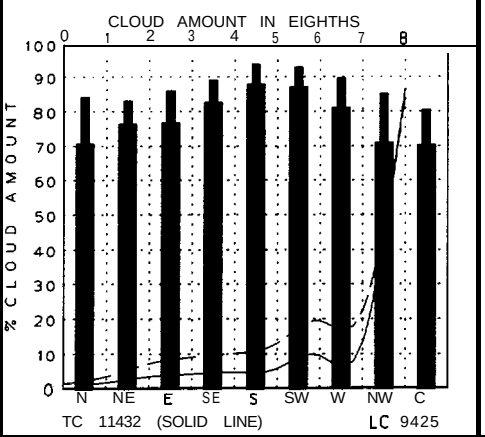
TC 14377 (SOLID LINE) LC 12386

Nikolski



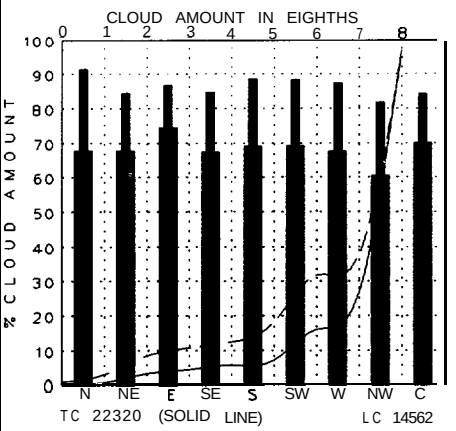
TC 2476 (SOLID LINE) LC 0

St. Paul



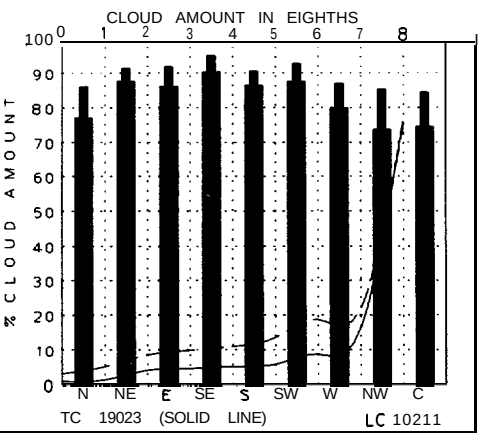
TC 11432 (SOLID LINE) LC 9425

Adak

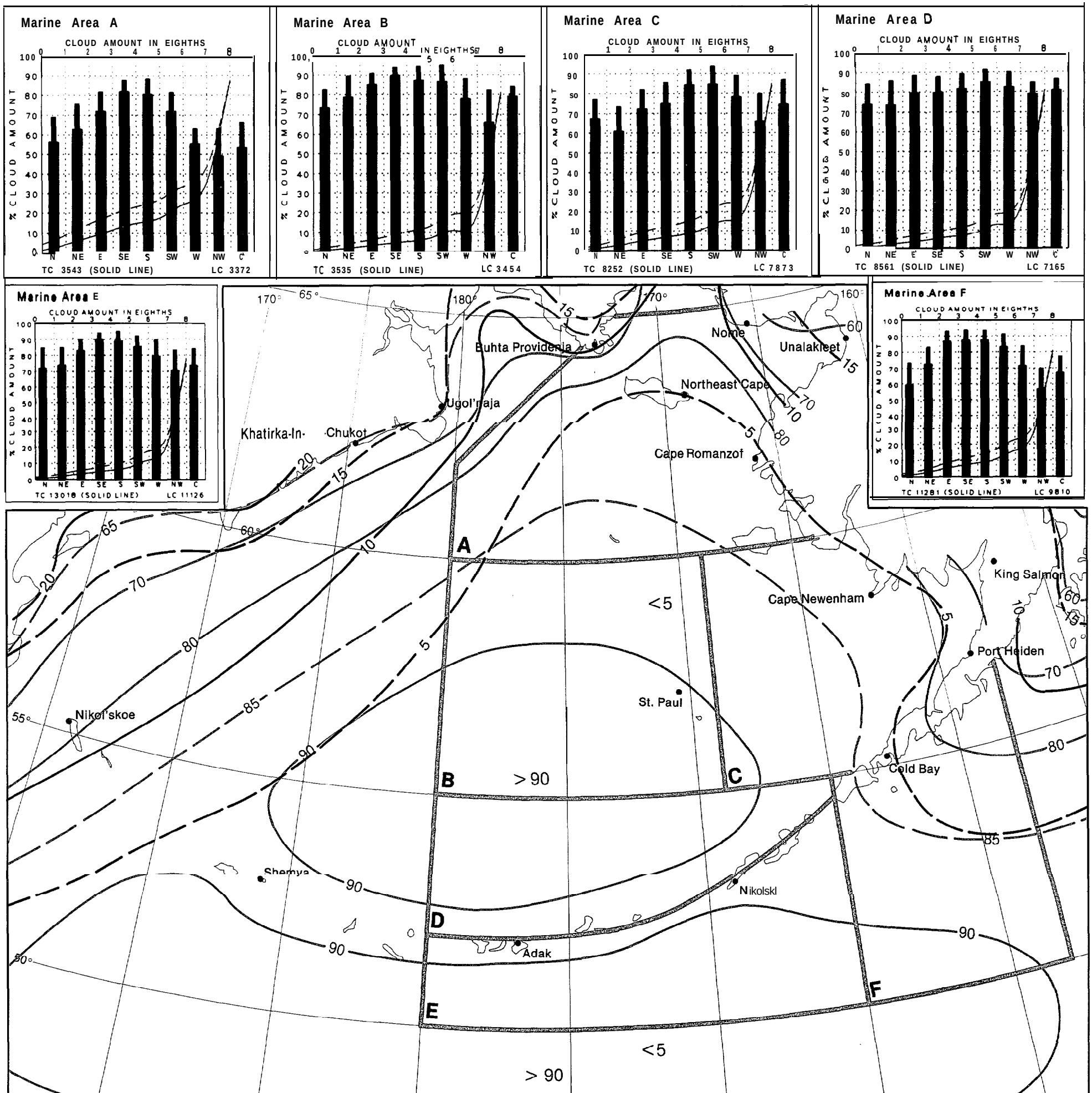


TC 22320 (SOLID LINE) LC 14562

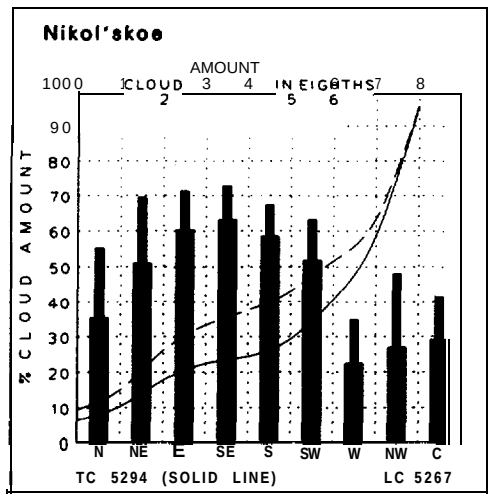
Shemya

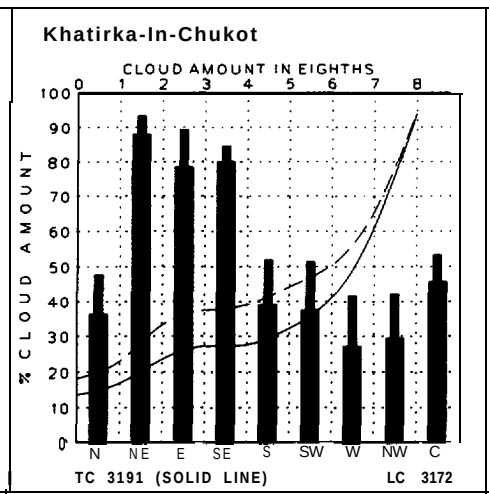


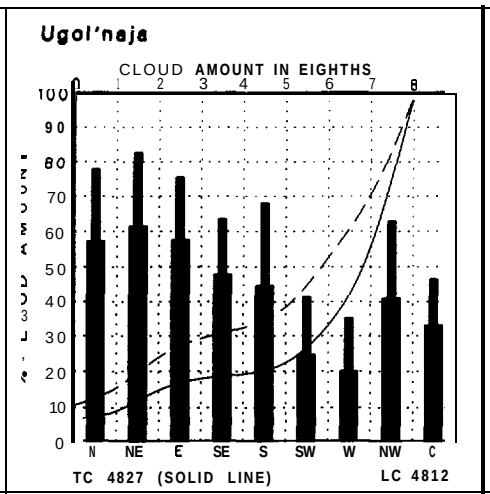
TC 19023 (SOLID LINE) LC 10211

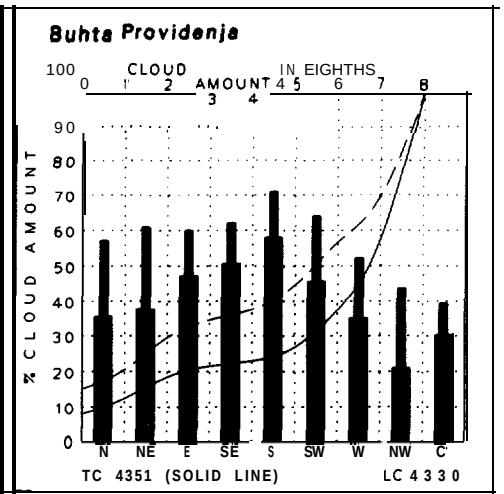


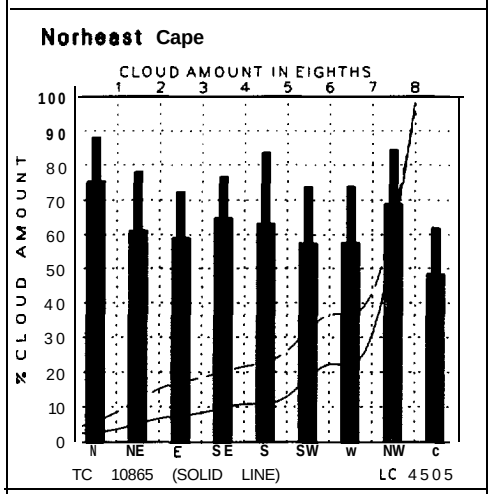
6 Clouds ≦2/8 and ≧5/8 **August**

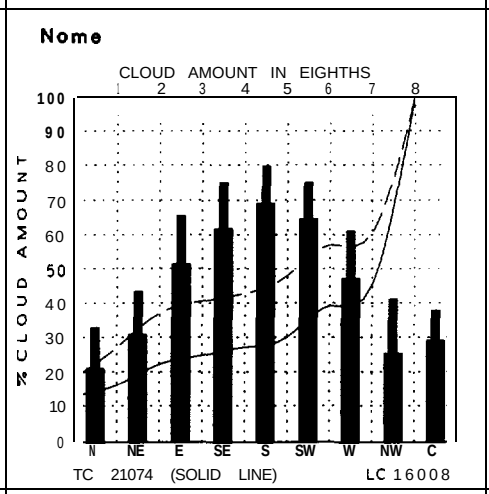

Nikol'skoe
CLOUD AMOUNT IN EIGHTHS
% CLOUD AMOUNT
N NE E SE S SW W NW C
TC 5294 (SOLID LINE)
LC 5267

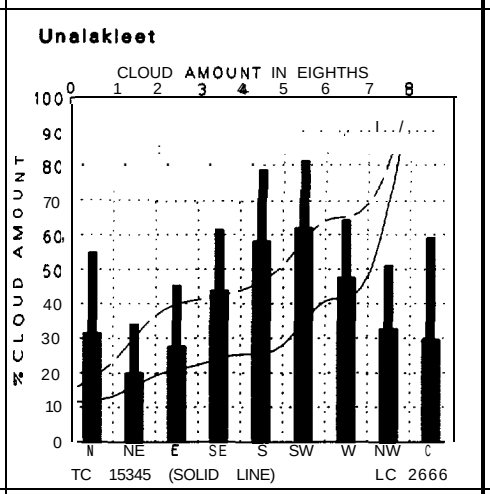

Khatirka-In-Chukot
CLOUD AMOUNT IN EIGHTHS
% CLOUD AMOUNT
N NE E SE S SW W NW C
TC 3191 (SOLID LINE)
LC 3172

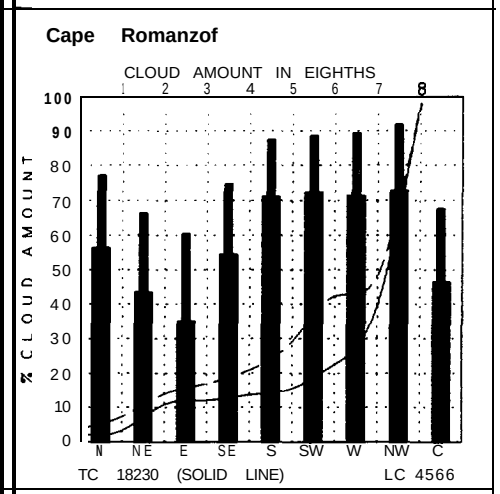

Ugol'naja
CLOUD AMOUNT IN EIGHTHS
N NE E SE S SW W NW C
TC 4827 (SOLID LINE)
LC 4812

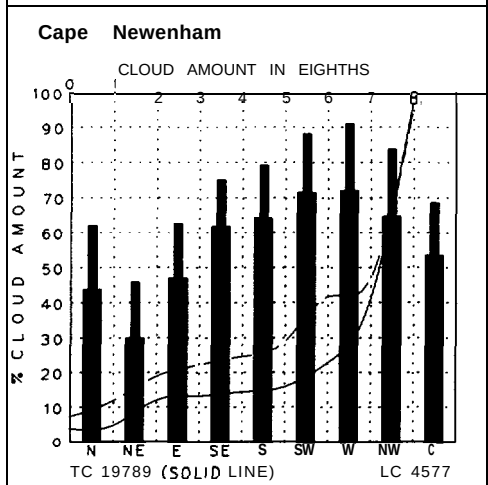

Buhta Providenja
CLOUD AMOUNT IN EIGHTHS
% CLOUD AMOUNT
N NE E SE S SW W NW C
TC 4351 (SOLID LINE)
LC 4330

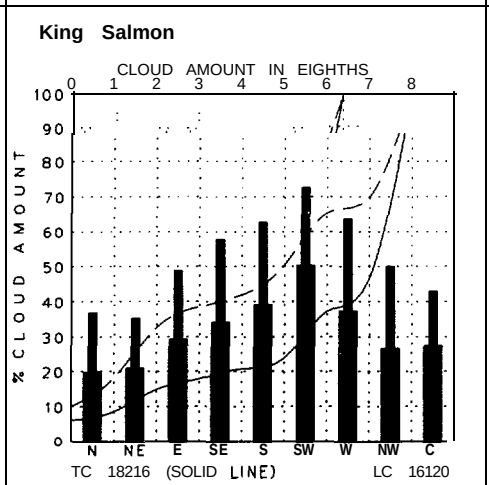

Norheast Cape
CLOUD AMOUNT IN EIGHTHS
% CLOUD AMOUNT
N NE E SE S SW W NW C
TC 10865 (SOLID LINE)
LC 4505

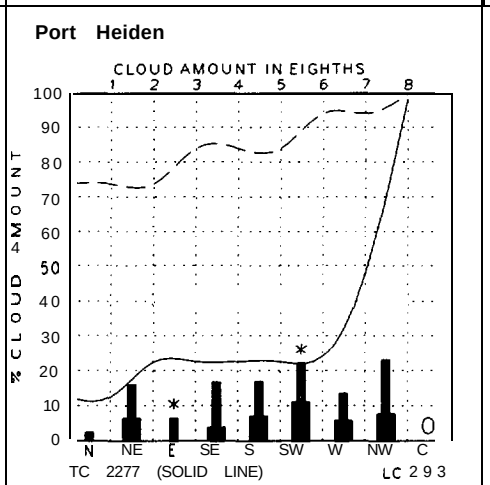

Nome
CLOUD AMOUNT IN EIGHTHS
% CLOUD AMOUNT
N NE E SE S SW W NW C
TC 21074 (SOLID LINE)
LC 16008

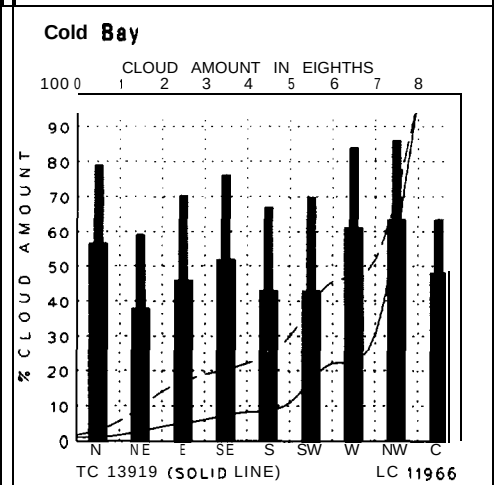

Unalakleet
CLOUD AMOUNT IN EIGHTHS
% CLOUD AMOUNT
N NE E SE S SW W NW C
TC 15345 (SOLID LINE)
LC 2666

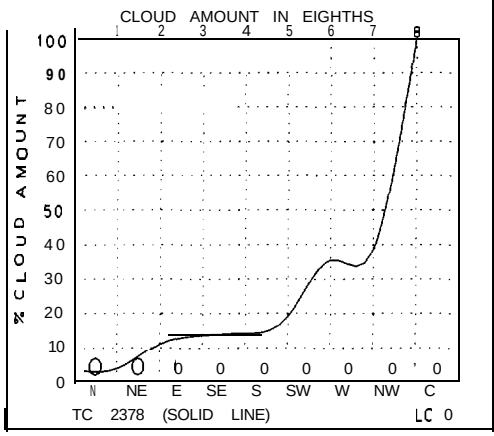

Cape Romanzof
CLOUD AMOUNT IN EIGHTHS
% CLOUD AMOUNT
N NE E SE S SW W NW C
TC 18230 (SOLID LINE)
LC 4566

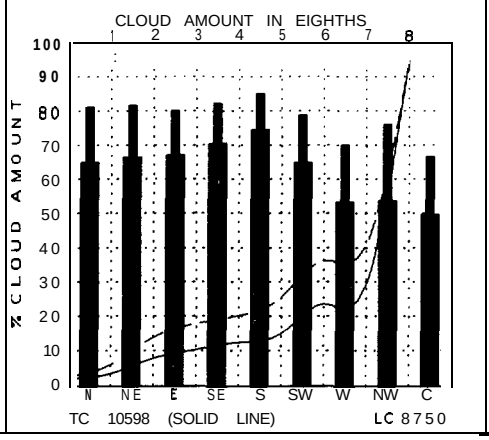

Cape Newenham
CLOUD AMOUNT IN EIGHTHS
% CLOUD AMOUNT
N NE E SE S SW W NW C
TC 19789 (SOLID LINE)
LC 4577

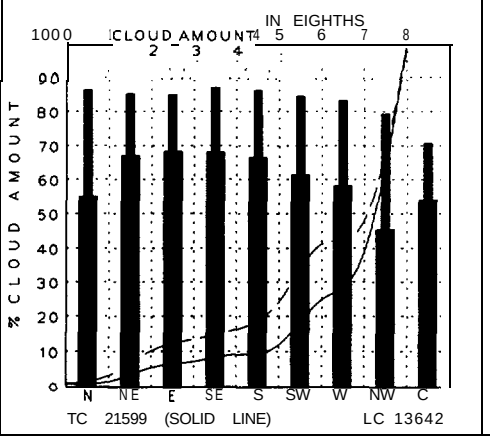

King Salmon
CLOUD AMOUNT IN EIGHTHS
% CLOUD AMOUNT
N NE E SE S SW W NW C
TC 18216 (SOLID LINE)
LC 16120

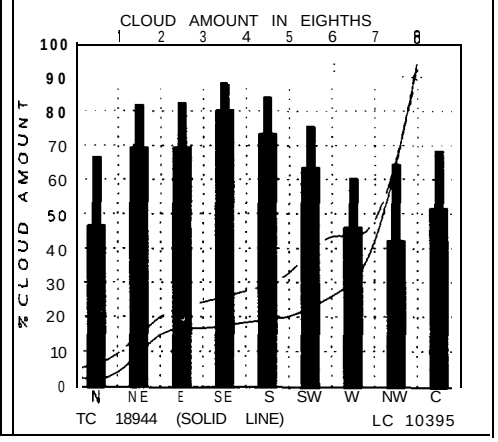

Port Heiden
CLOUD AMOUNT IN EIGHTHS
% CLOUD AMOUNT
N NE E SE S SW W NW C
TC 2277 (SOLID LINE)
LC 293

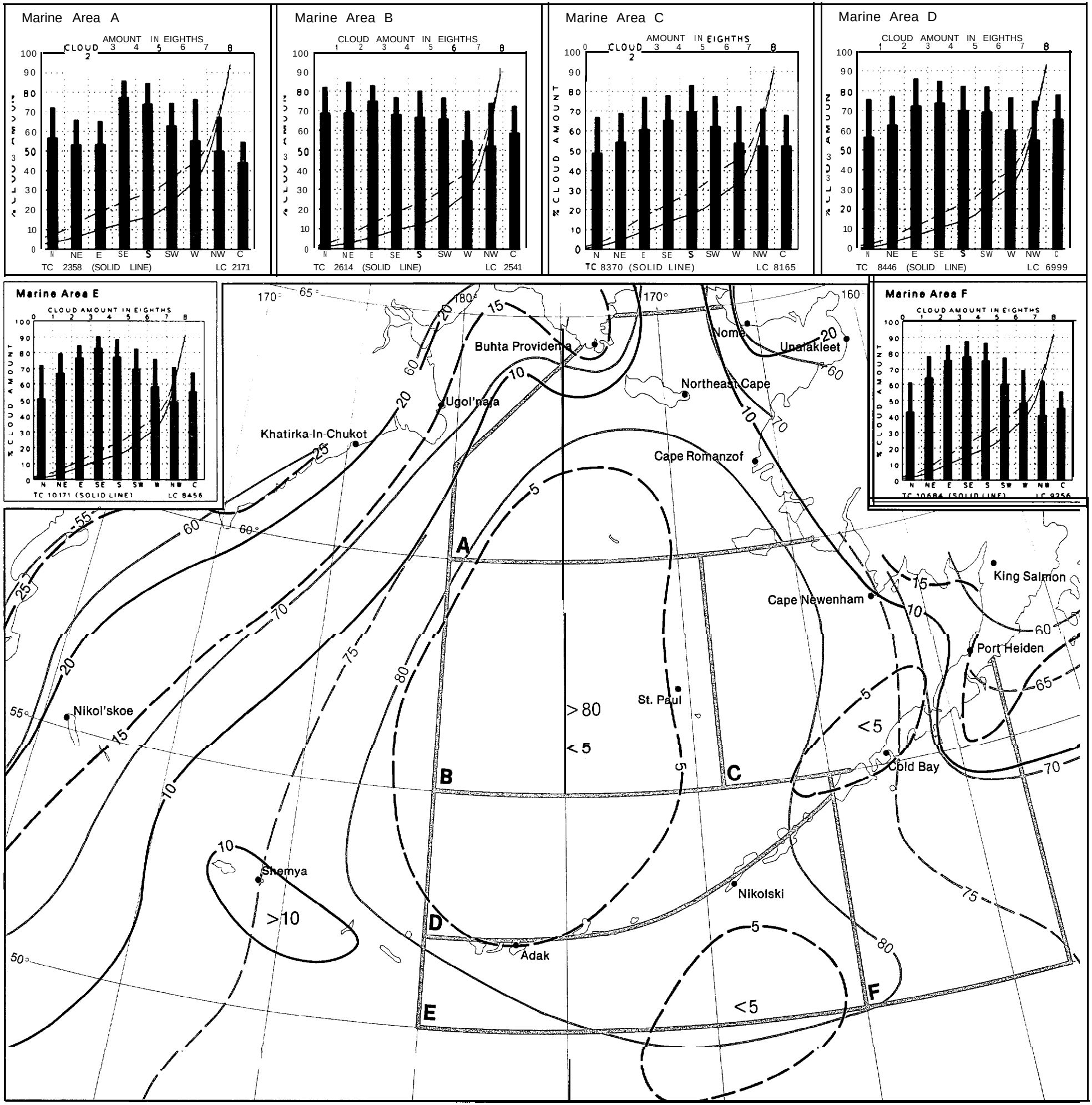

Cold Bay
CLOUD AMOUNT IN EIGHTHS
% CLOUD AMOUNT
N NE E SE S SW W NW C
TC 13919 (SOLID LINE)
LC 11966


CLOUD AMOUNT IN EIGHTHS
% CLOUD AMOUNT
N NE E SE S SW W NW C
TC 2378 (SOLID LINE)
LC 0


St. Paul
CLOUD AMOUNT IN EIGHTHS
% CLOUD AMOUNT
N NE E SE S SW W NW C
TC 10598 (SOLID LINE)
LC 8750


Adak
CLOUD AMOUNT IN EIGHTHS
% CLOUD AMOUNT
N NE E SE S SW W NW C
TC 21599 (SOLID LINE)
LC 13642

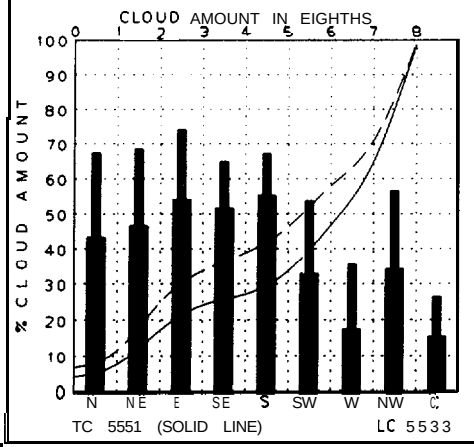

Shemya
CLOUD AMOUNT IN EIGHTHS
% CLOUD AMOUNT
N NE E SE S SW W NW C
TC 18944 (SOLID LINE)
LC 10395



6 Clouds ≦2/8 and ≧5/8

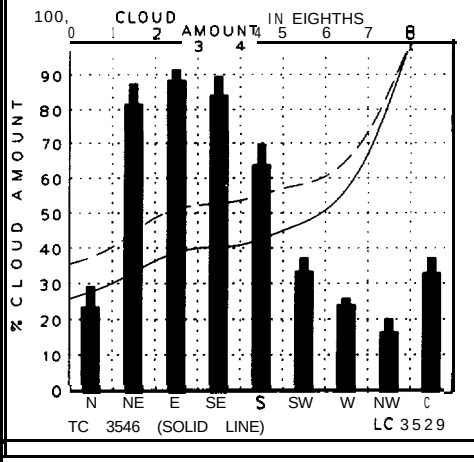
September

Nikol'skoe



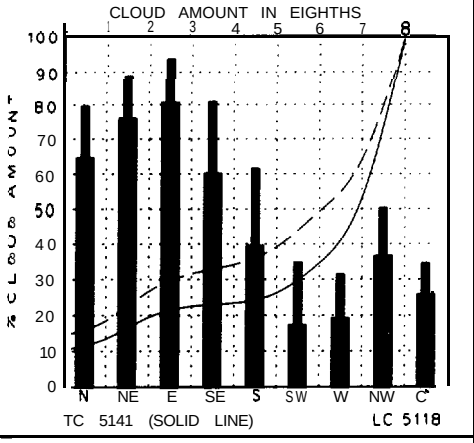
TC 5551 (SOLID LINE) LC 5533

Khatirka-in-Chukot



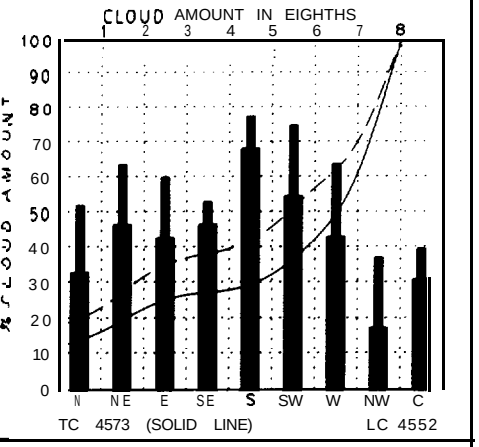
TC 3546 (SOLID LINE) LC 3529

Ugol'naja



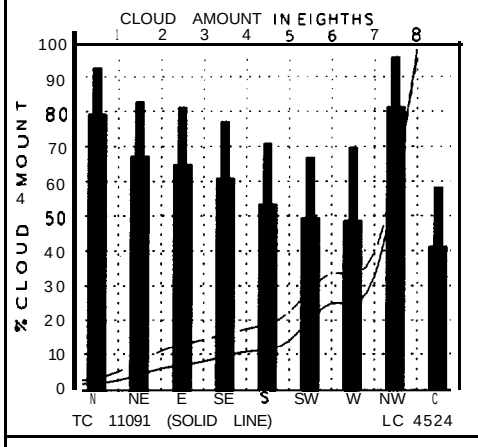
TC 5141 (SOLID LINE) LC 5118

Buhta Providenja



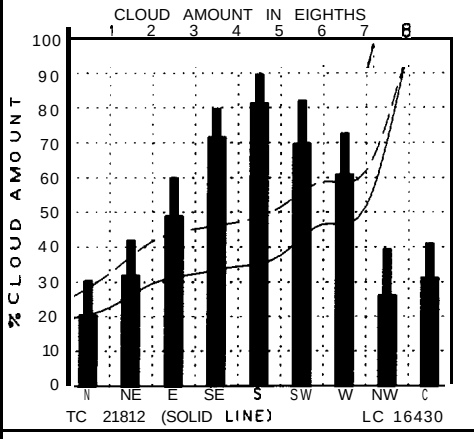
TC 4573 (SOLID LINE) LC 4552

Norheast Cape



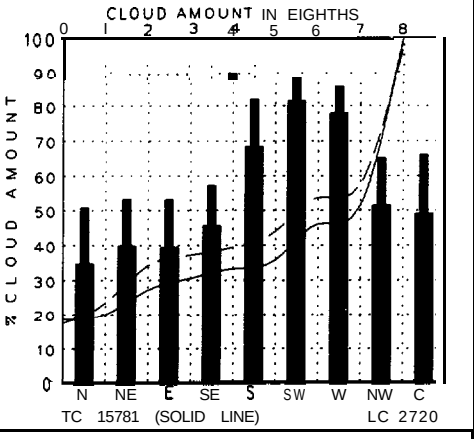
TC 11091 (SOLID LINE) LC 4524

Nome



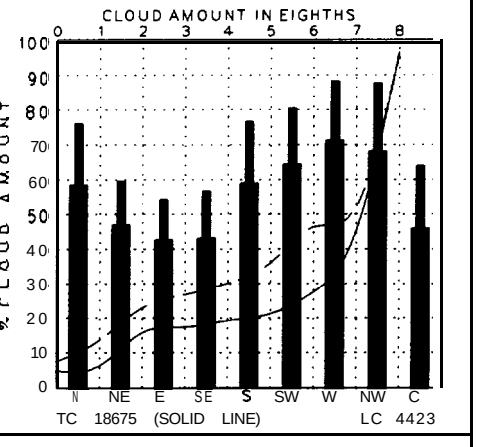
TC 21812 (SOLID LINE) LC 16430

Unalakleet



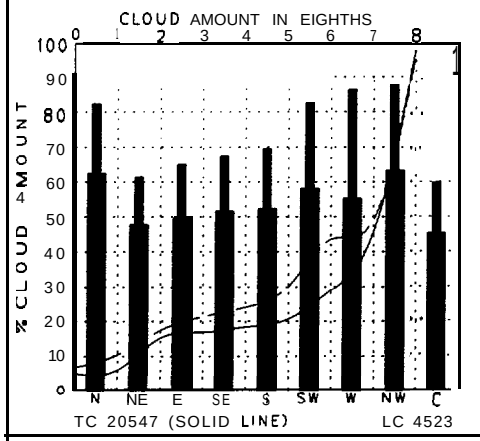
TC 15781 (SOLID LINE) LC 2720

Cape Romanrof



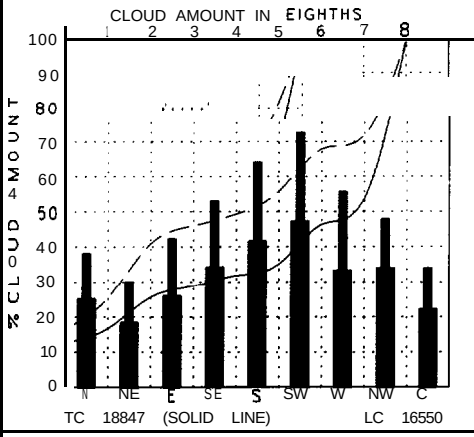
TC 18675 (SOLID LINE) LC 4423

Cape Newenham



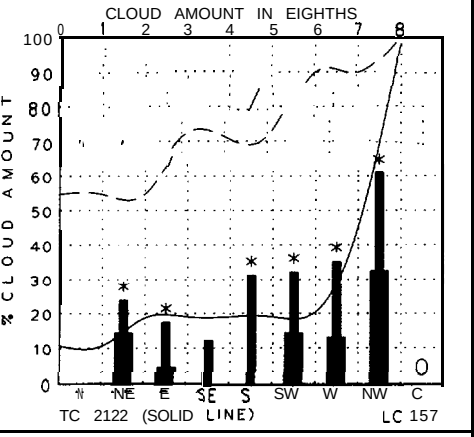
TC 20547 (SOLID LINE) LC 4523

King Salmon



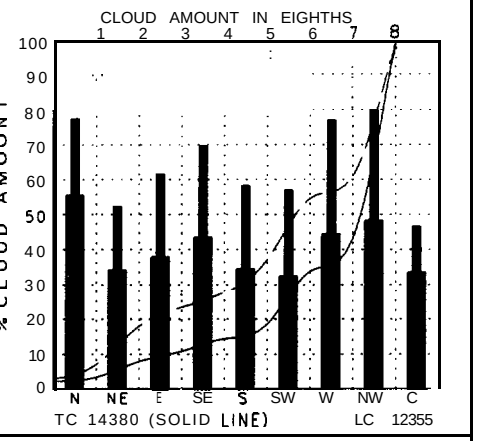
TC 18847 (SOLID LINE) LC 16550

Port Heiden



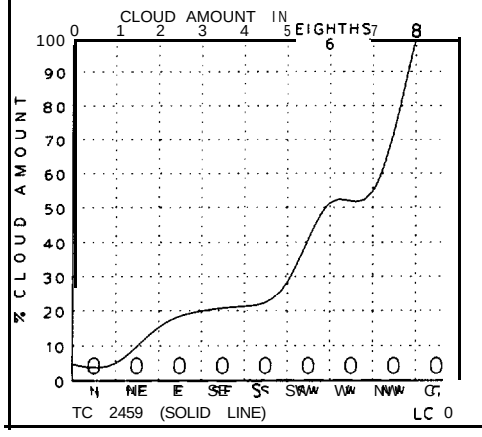
TC 2122 (SOLID LINE) LC 157

Cold Bay



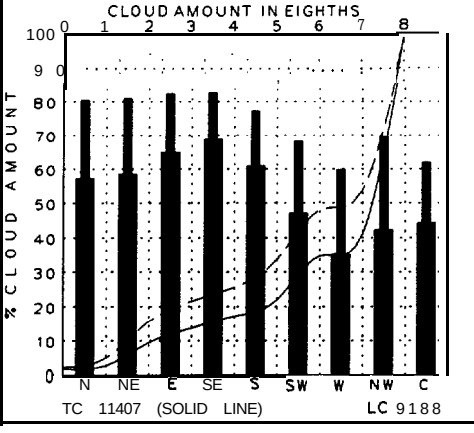
TC 14380 (SOLID LINE) LC 12355

Nikolski



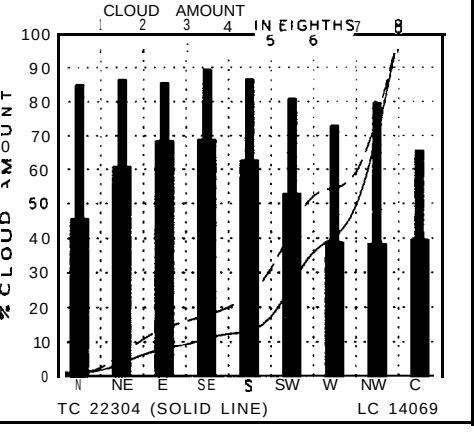
TC 2459 (SOLID LINE) LC 0

St. Paul



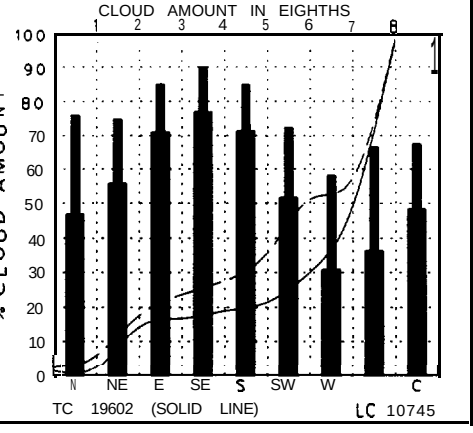
TC 11407 (SOLID LINE) LC 9188

Adak

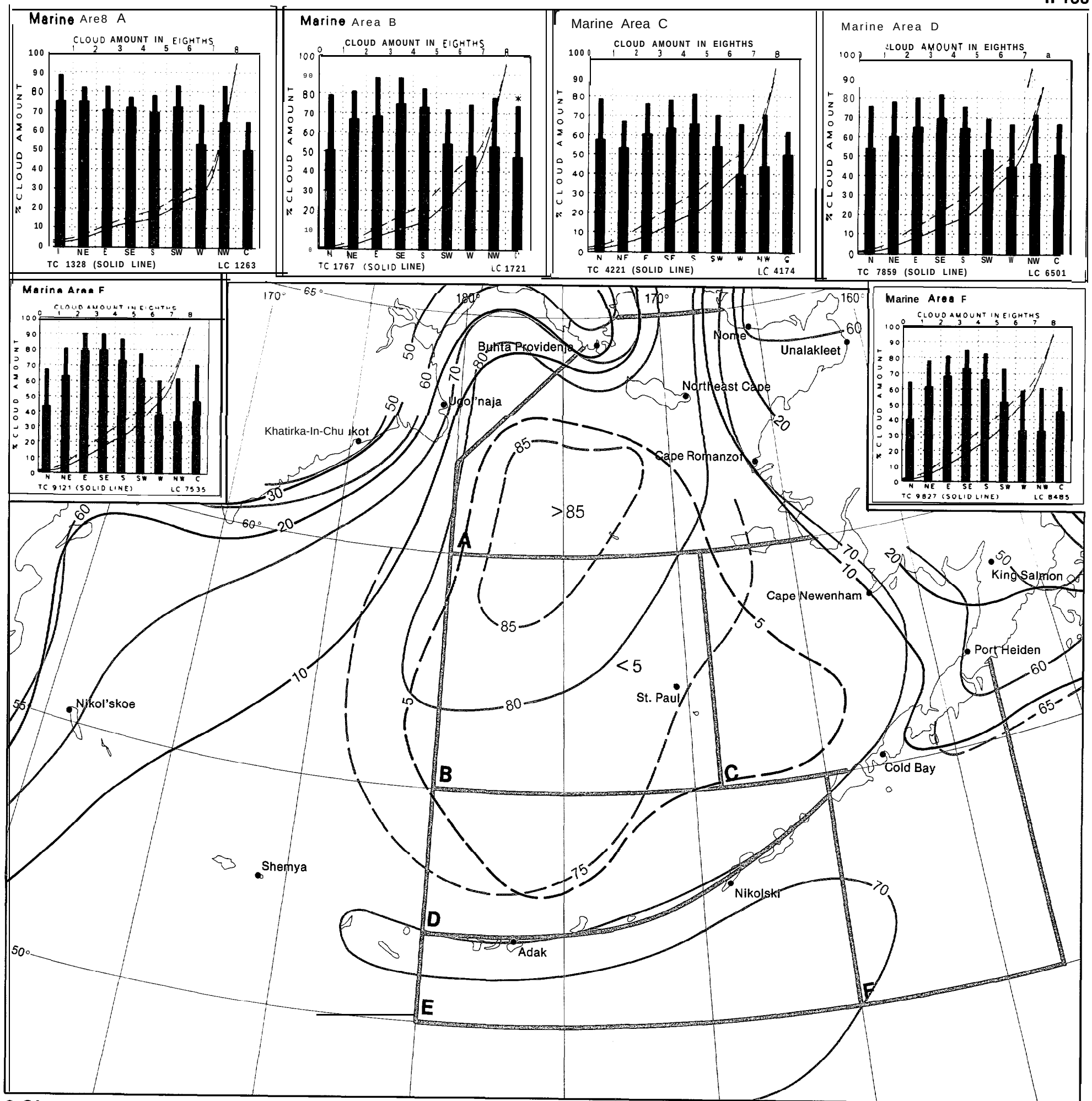


TC 22304 (SOLID LINE) LC 14069

Shemya



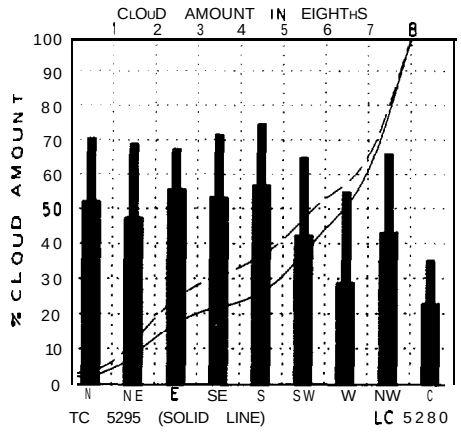
TC 19602 (SOLID LINE) LC 10745



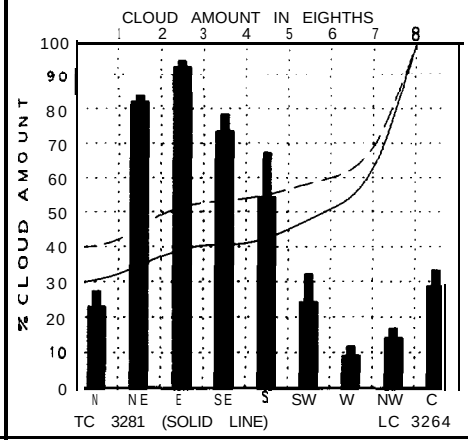
0 Clouds ≦2/8 and ≧5/8

October

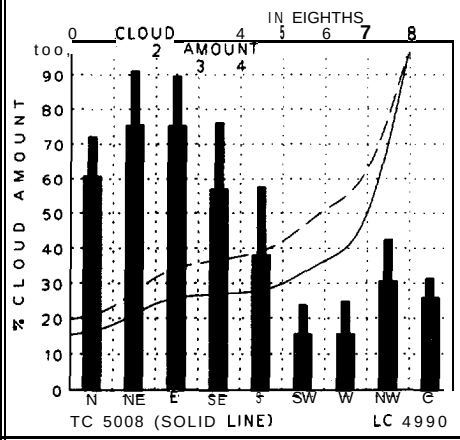
Nikol'skoe



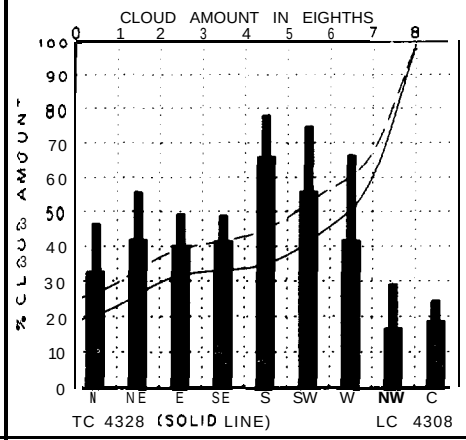
Khatirks-In-Chukot



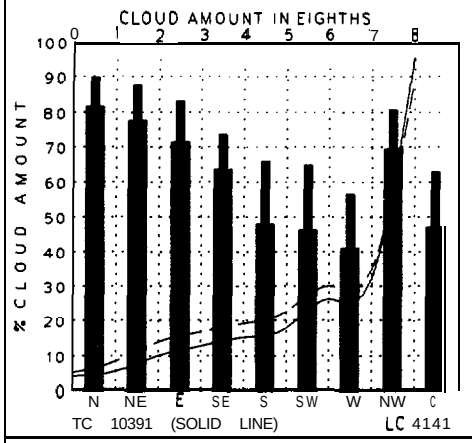
Ugol'naja



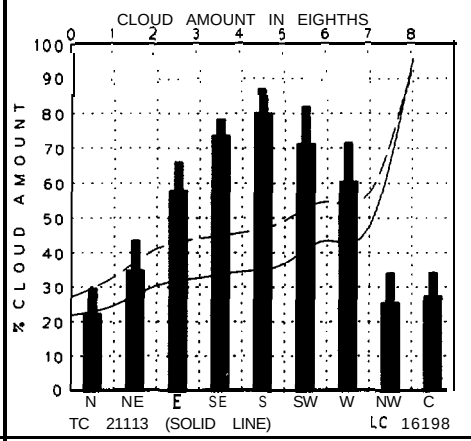
Buhta Providenja



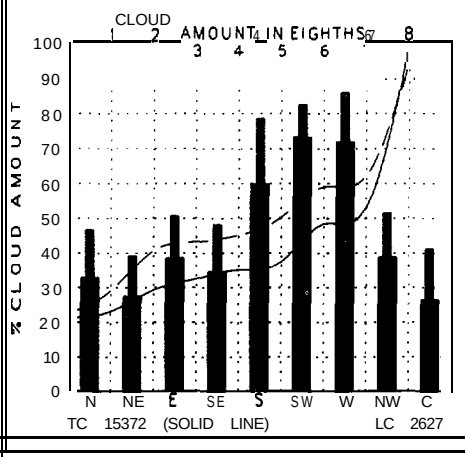
Norheast Cape



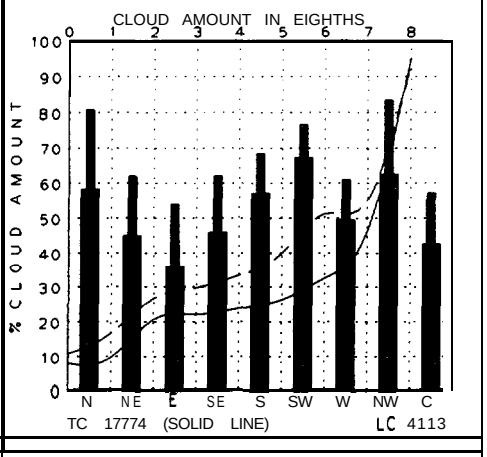
Nome



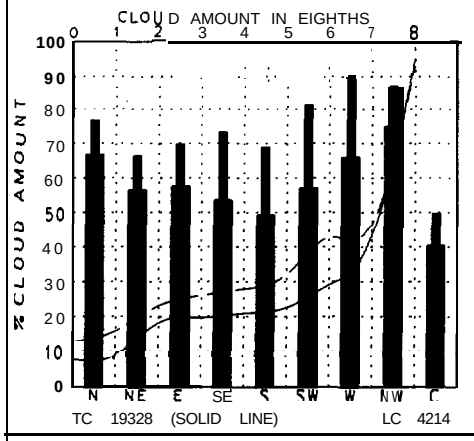
Unalakleet



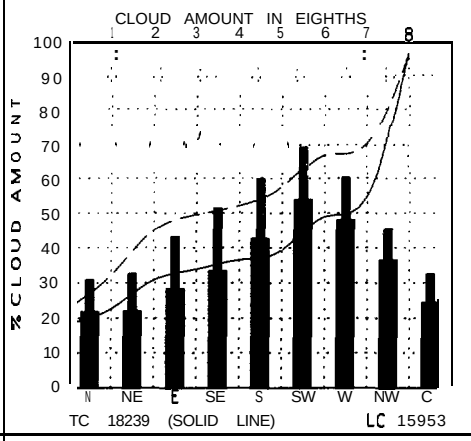
Cape Romanzof



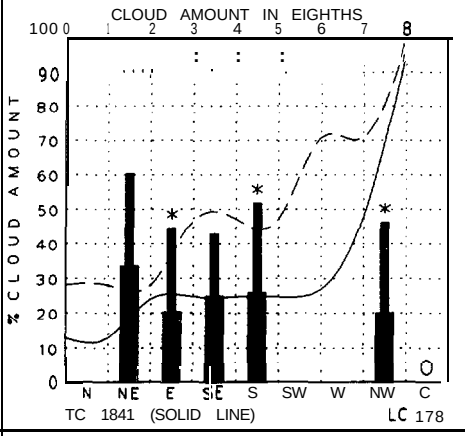
Cape Newenham



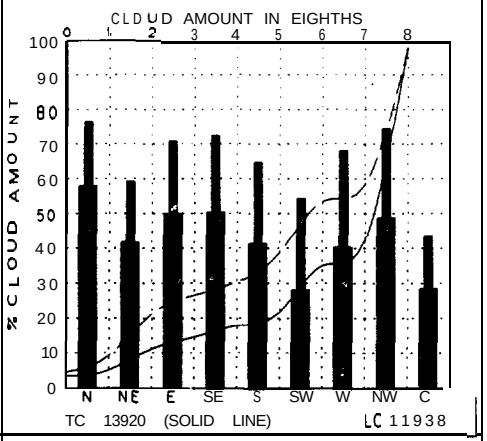
King Salmon



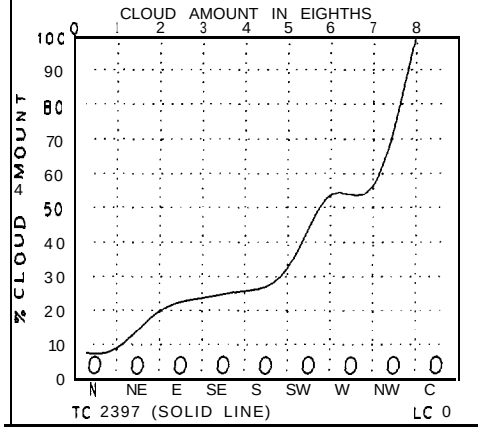
Port Heiden



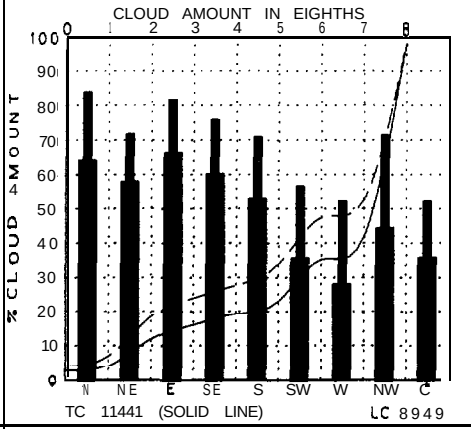
Cold Bay



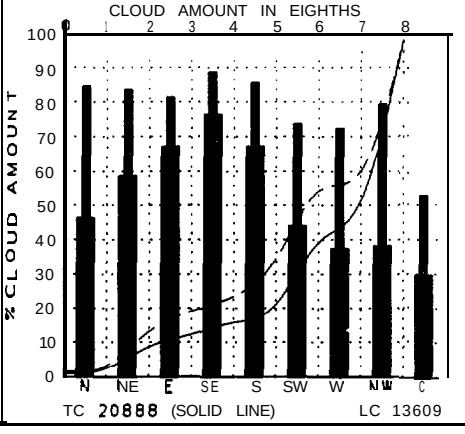
Nikolski



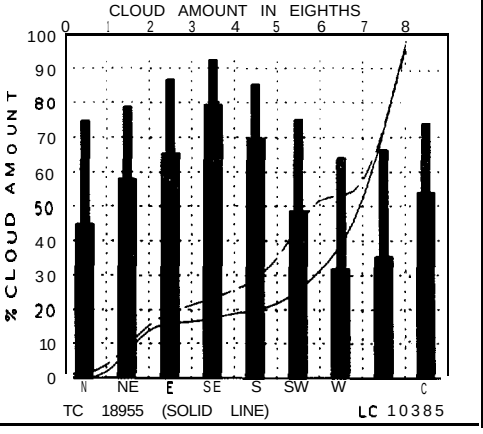
St. Paul

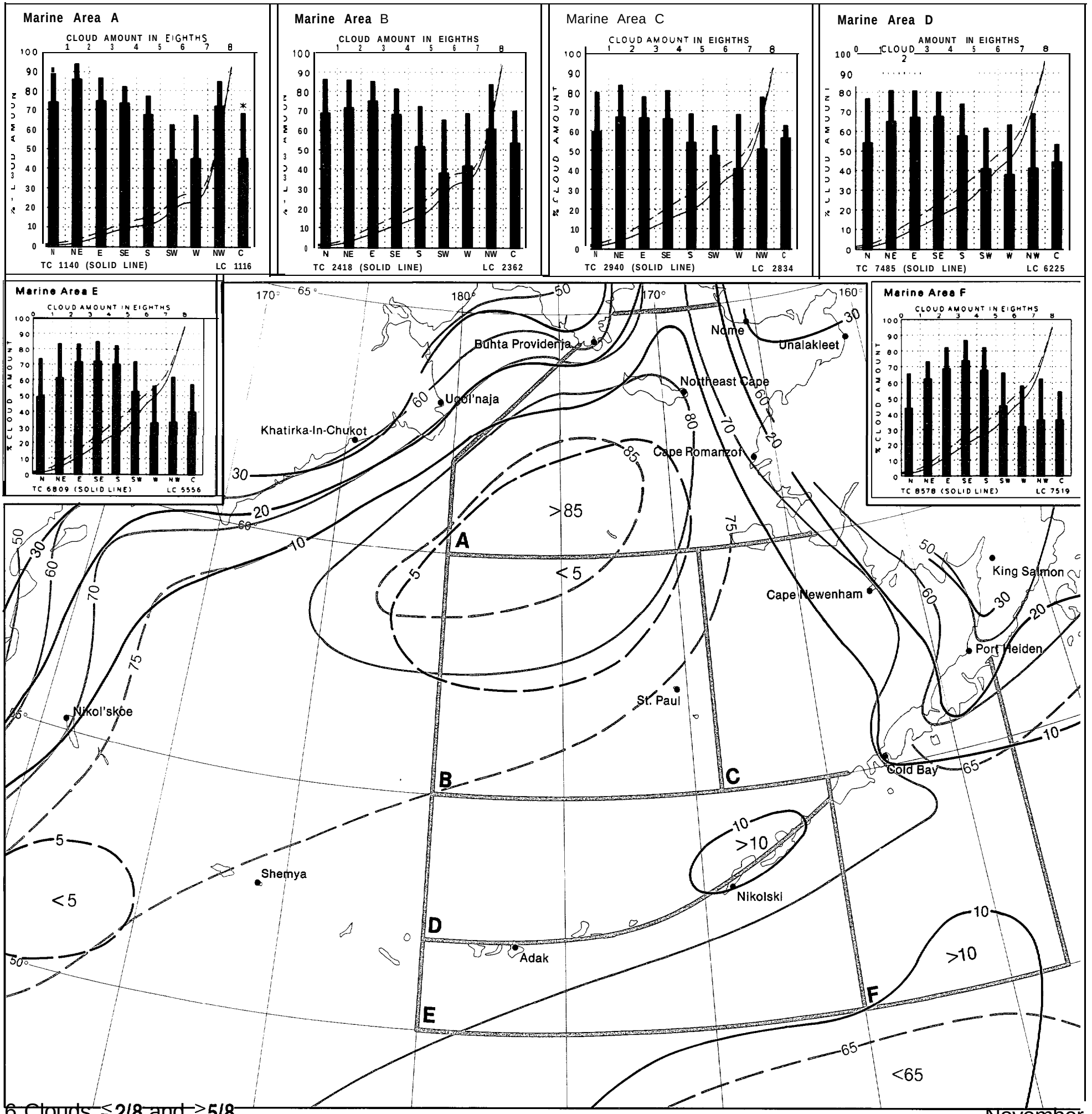


Adak



Shemya

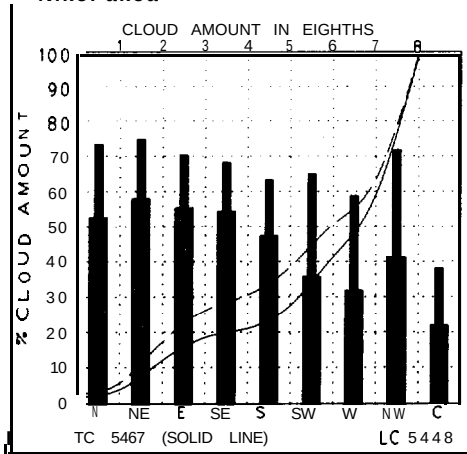




6 Clouds ≦2/8 and ≧5/8

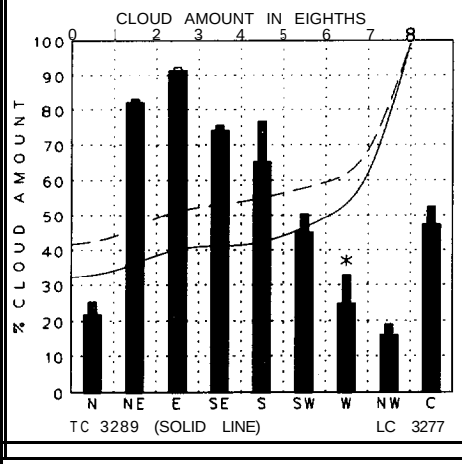
November

Nikol'akoa



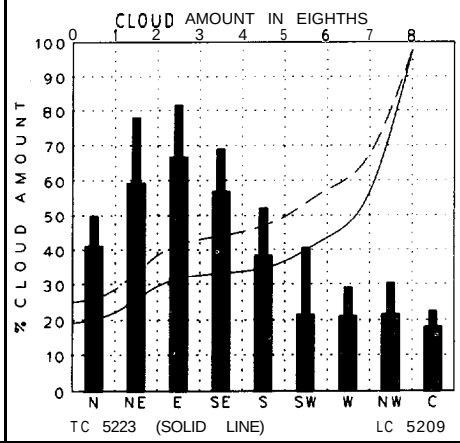
TC 5467 (SOLID LINE) LC 5448

Khatirka-In-Chukot



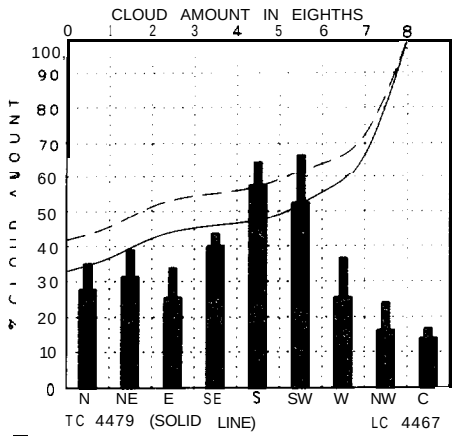
TC 3289 (SOLID LINE) LC 3277

Ugol'naja



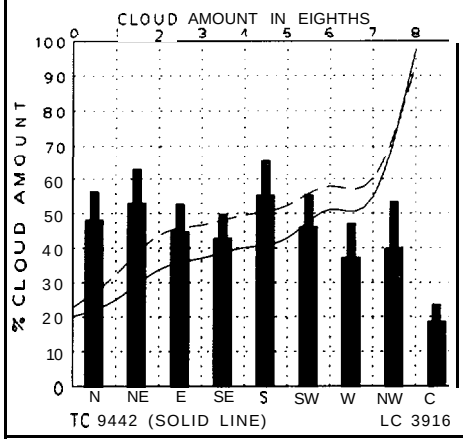
TC 5223 (SOLID LINE) LC 5209

Buhta Providenja



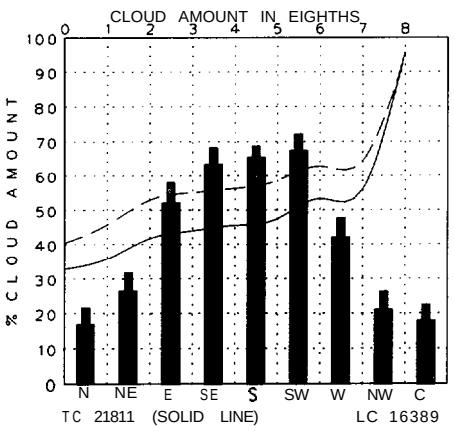
TC 4479 (SOLID LINE) LC 4467

Norheast Cape



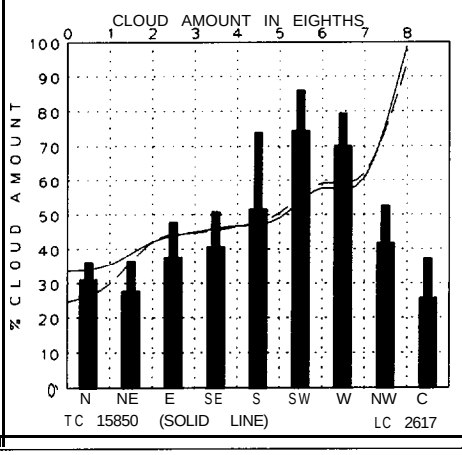
TC 9442 (SOLID LINE) LC 3916

Nome



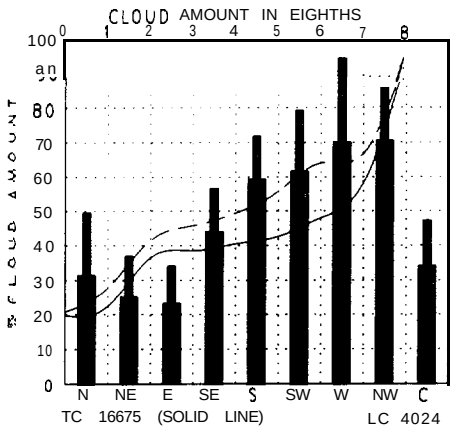
TC 21811 (SOLID LINE) LC 16389

Unalakleet



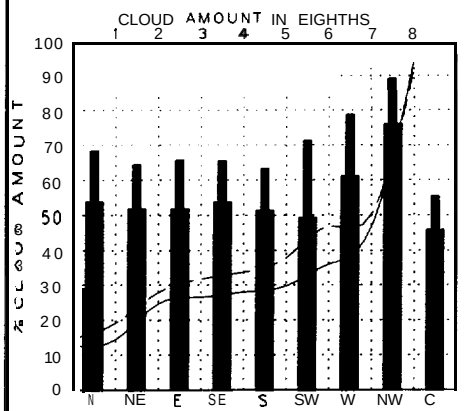
TC 15850 (SOLID LINE) LC 2617

Cape Romanzof



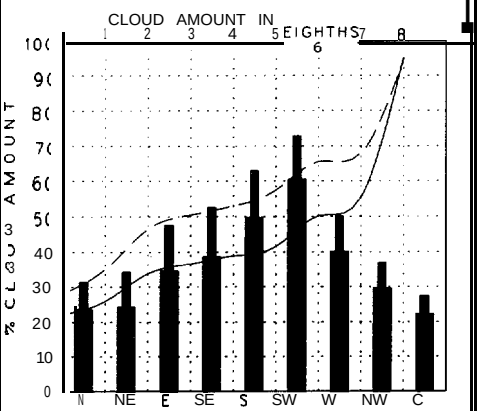
TC 16675 (SOLID LINE) LC 4024

Cape Newenham



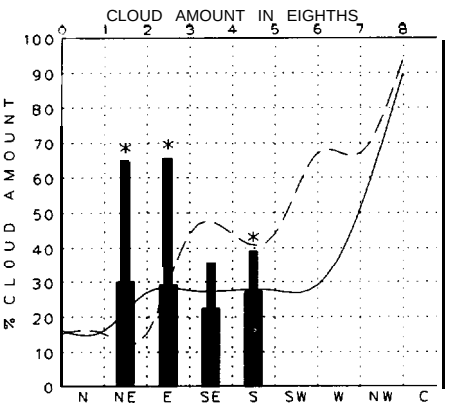
TC 19157 (SOLID LINE) LC 4202

King Salmon



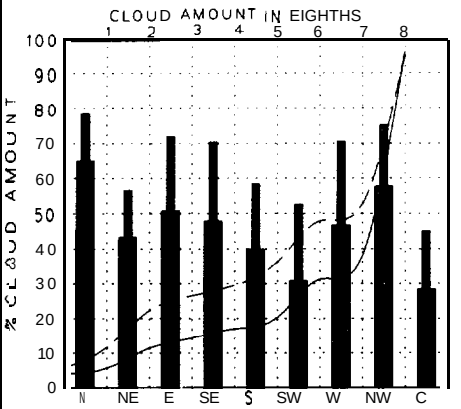
TC 18838 (SOLID LINE) LC 16338

Port Heiden

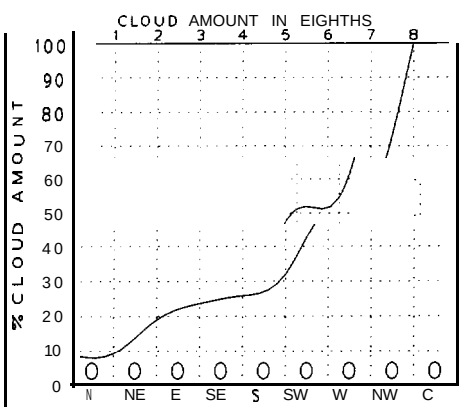


TC 2013 (SOLID LINE) LC 118

Cold Bay

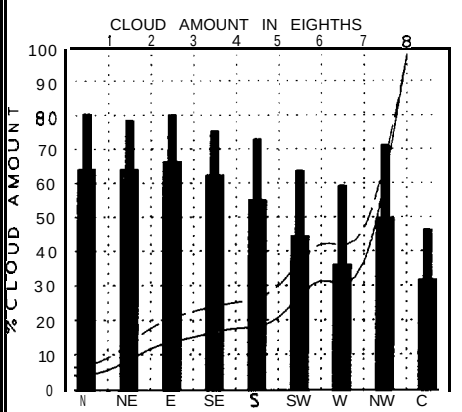


TC 14382 (SOLID LINE) LC 12315



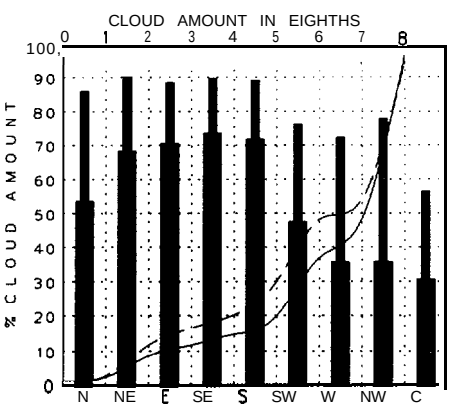
TC 2228 (SOLID LINE) LC 0

St. Paul



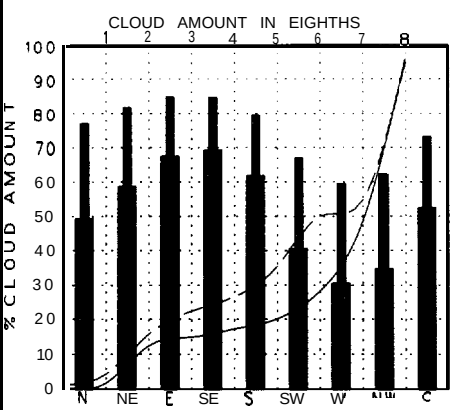
TC 11818 (SOLID LINE) LC 9261

Adak

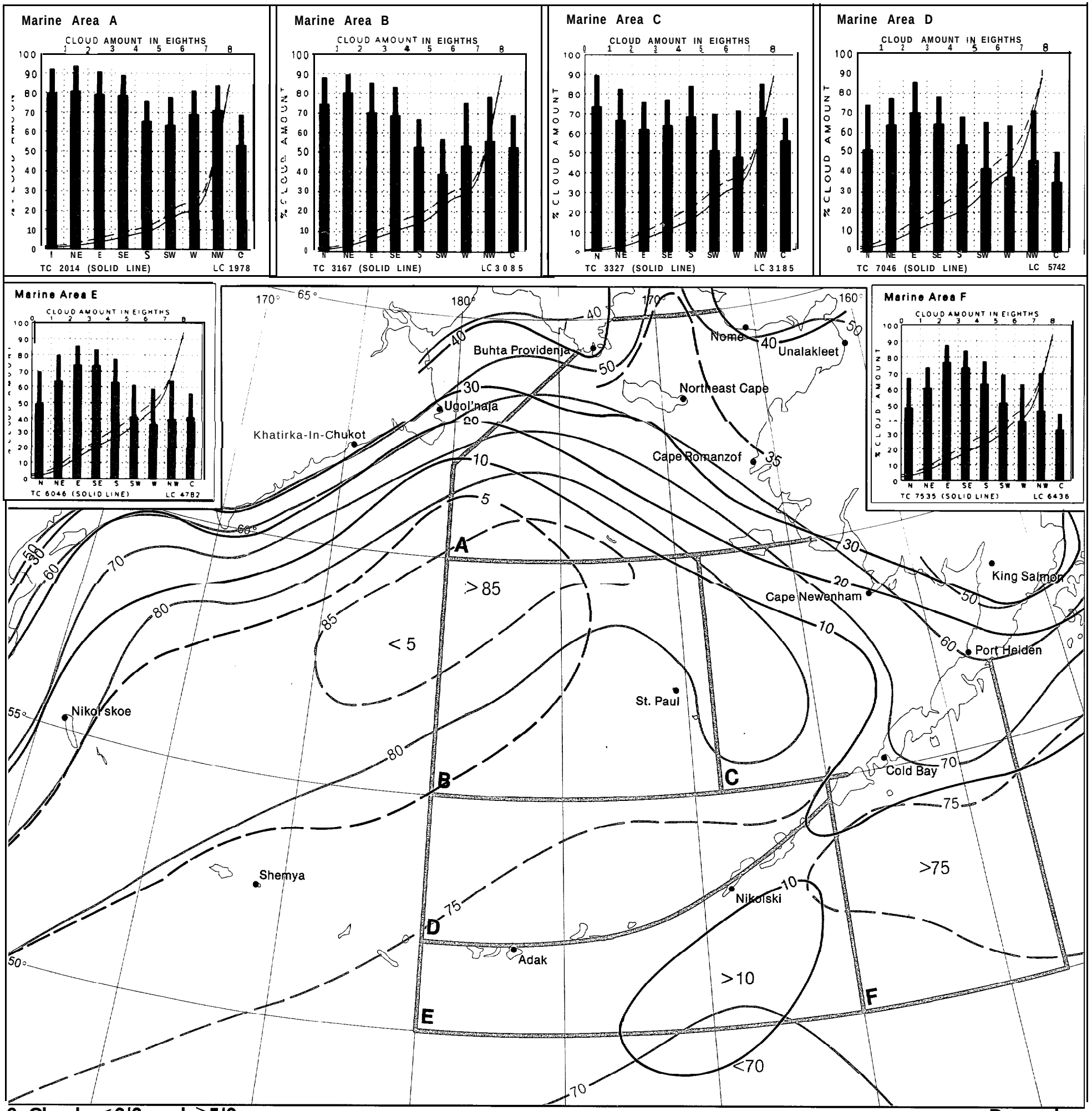


TC 22305 (SOLID LINE) LC 14169

Shemya



TC 19151 (SOLID LINE) LC 10272



6 Clouds ≦2/8 and ≧5/8 December