

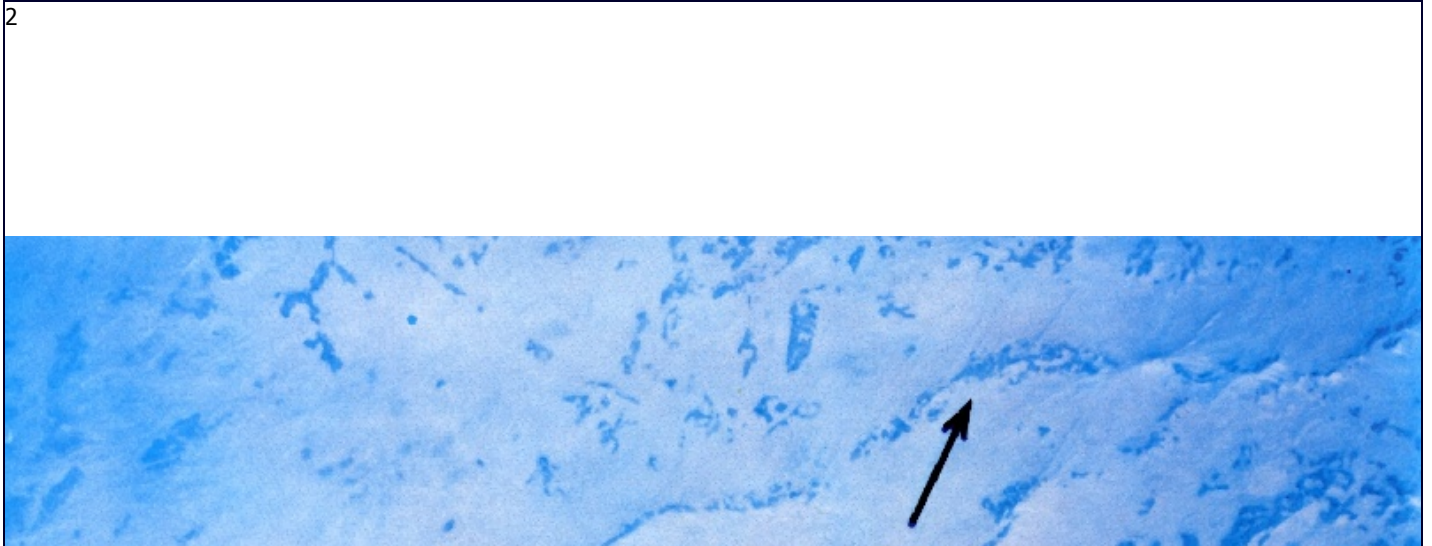
WMO SEA-ICE NOMENCLATURE

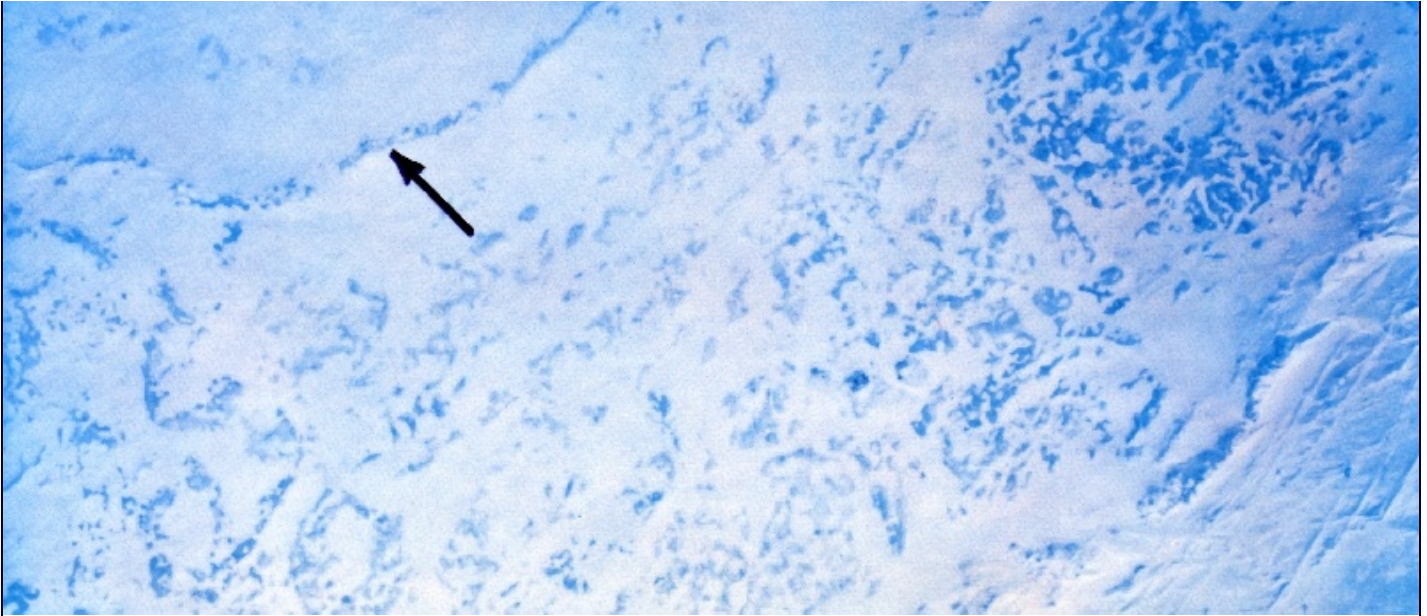
ILLUSTRATED GLOSSARY - VOLUME II
WMO/OMM/BMO - No.259 • Edition 1970 - 2014
Ice terms arranged in alphabetical order



U.S.Navy

8.2.2.4 Aged ridge (Vieille crête [fr])





U.S.Navy

8.2.2.4 Aged ridge (Vieille crête [fr])

3





R.H.W.Hill, Canada

3.3 Anchor ice (Glace de fond [fr])

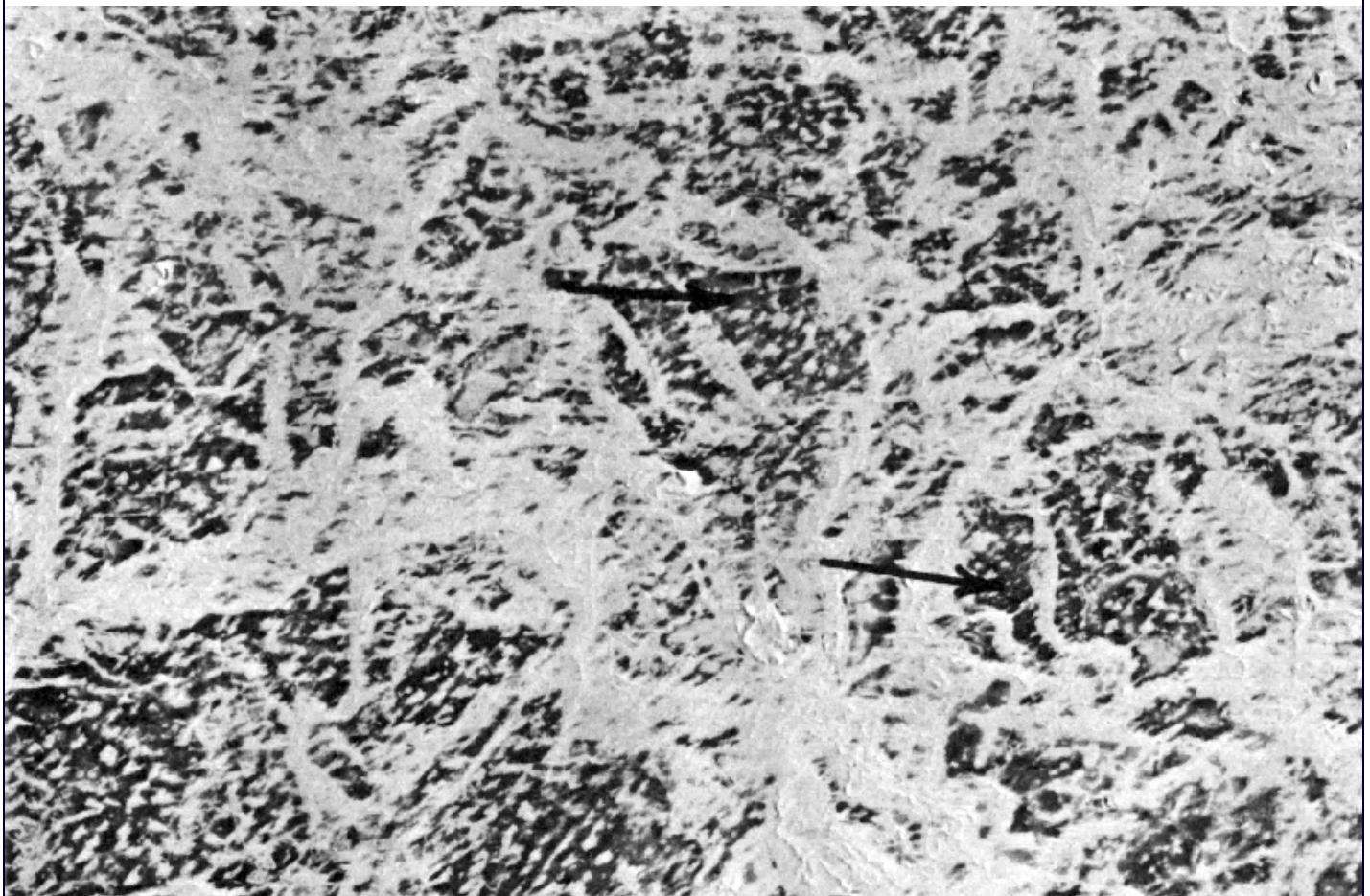
4



U.S.Navy

12.7 Area of weakness (Zone de fragilité [fr])

5



600 Armed Forces,Canada

8.5 Bare ice (Glacé vive [fr])

6



National Film Board, Canada

8.5 Bare ice (Glace vive [fr])

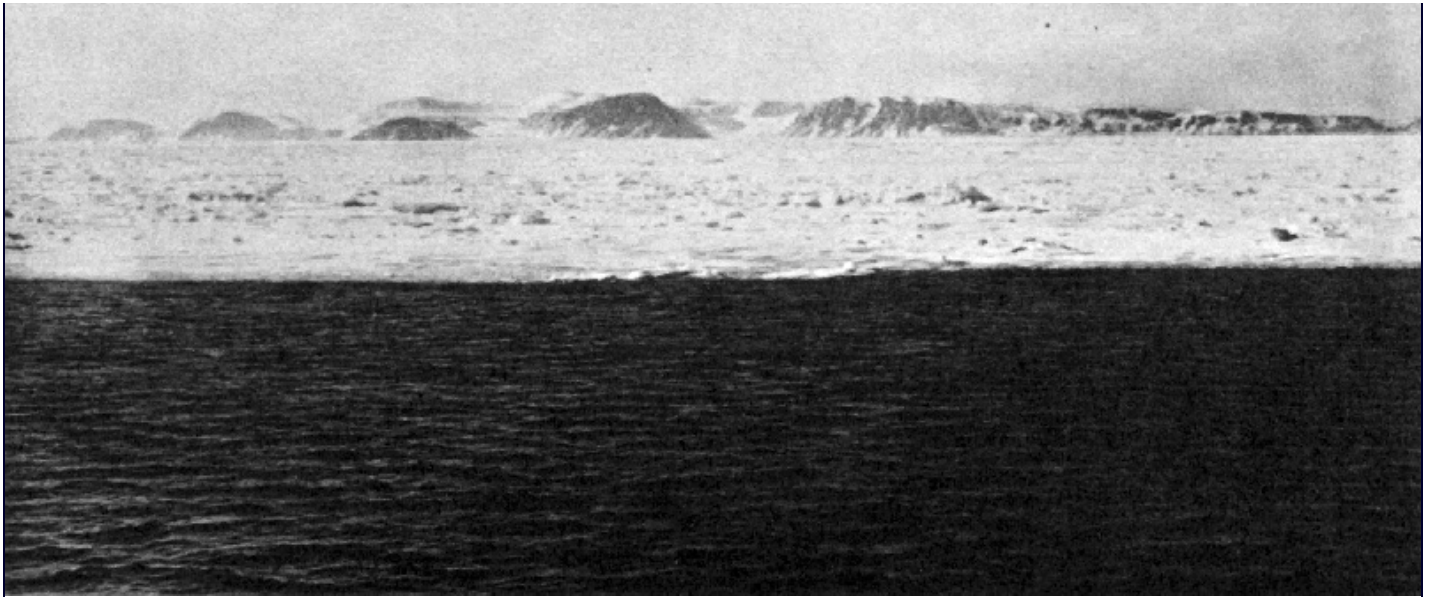
7



500 Air Force, Finland
4.4.3 Belt (Ceinture (de glace) [fr])

8





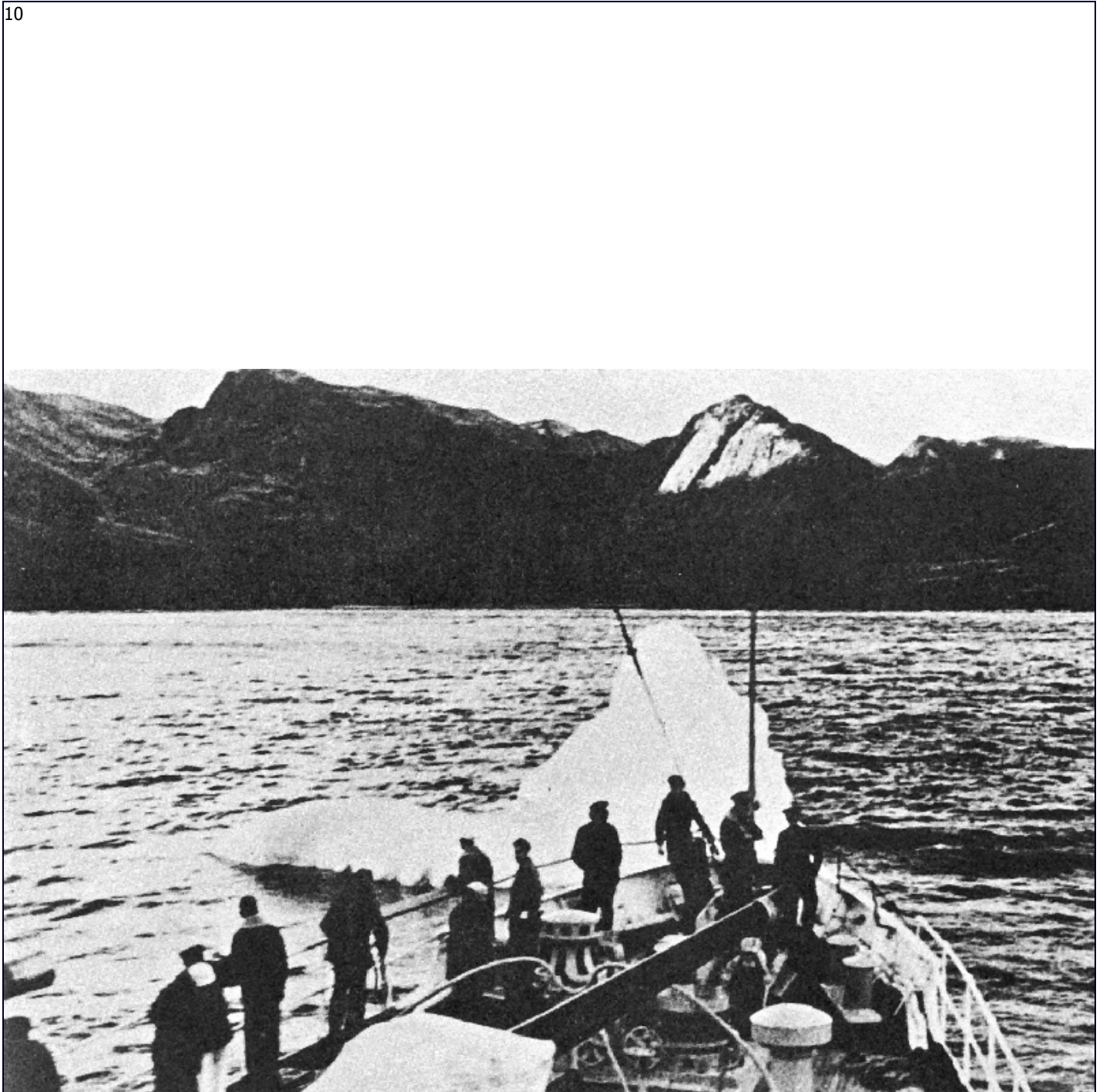
4.4.3 Belt (Ceinture (de glace) [fr])

Hamburg, Germany (fed. Rep)





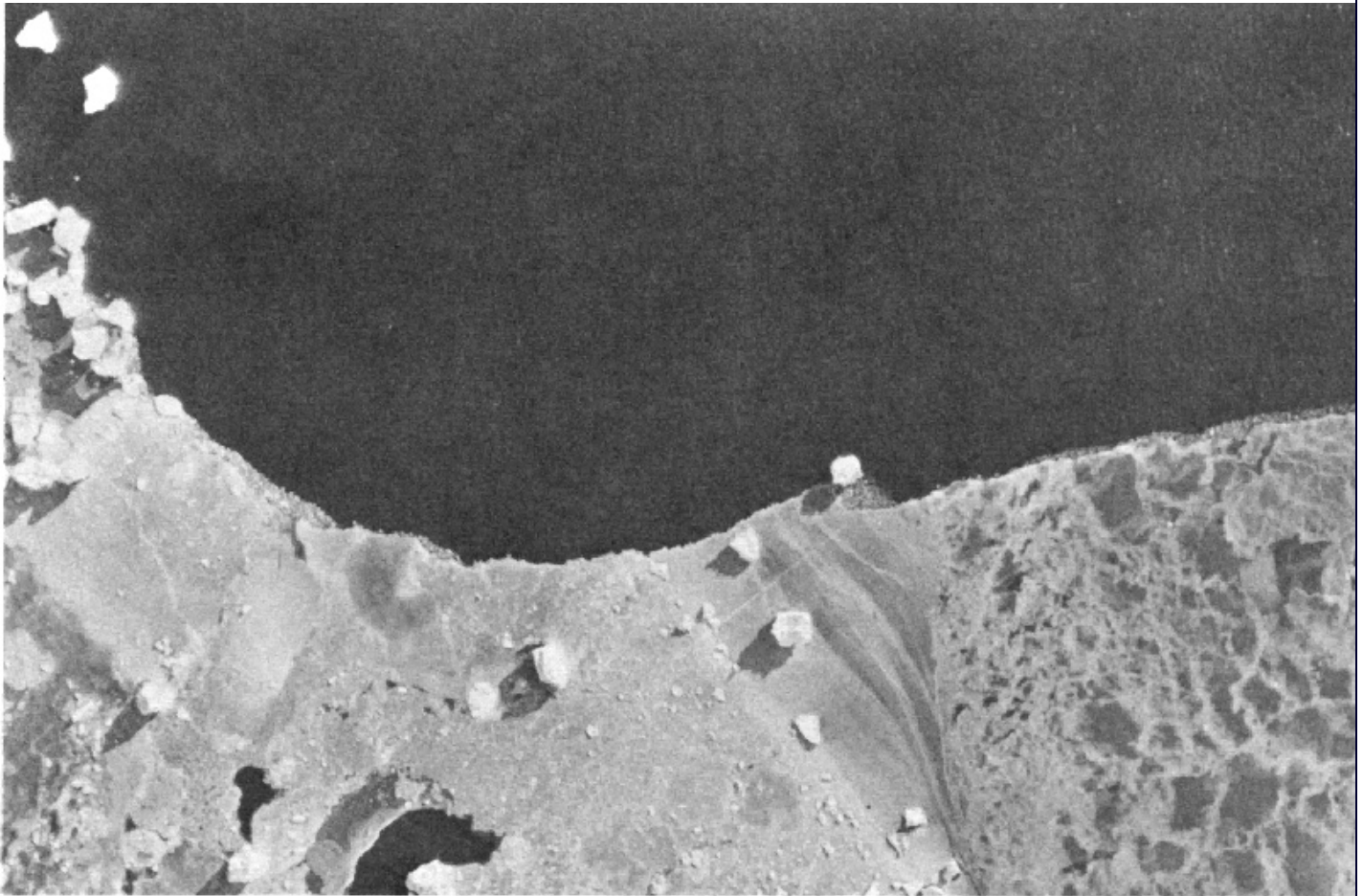
160 Kenting Aviation, Canada
10.4.4 Bergy bit (Fragment d'iceberg [fr])



U.S.Coast Guard

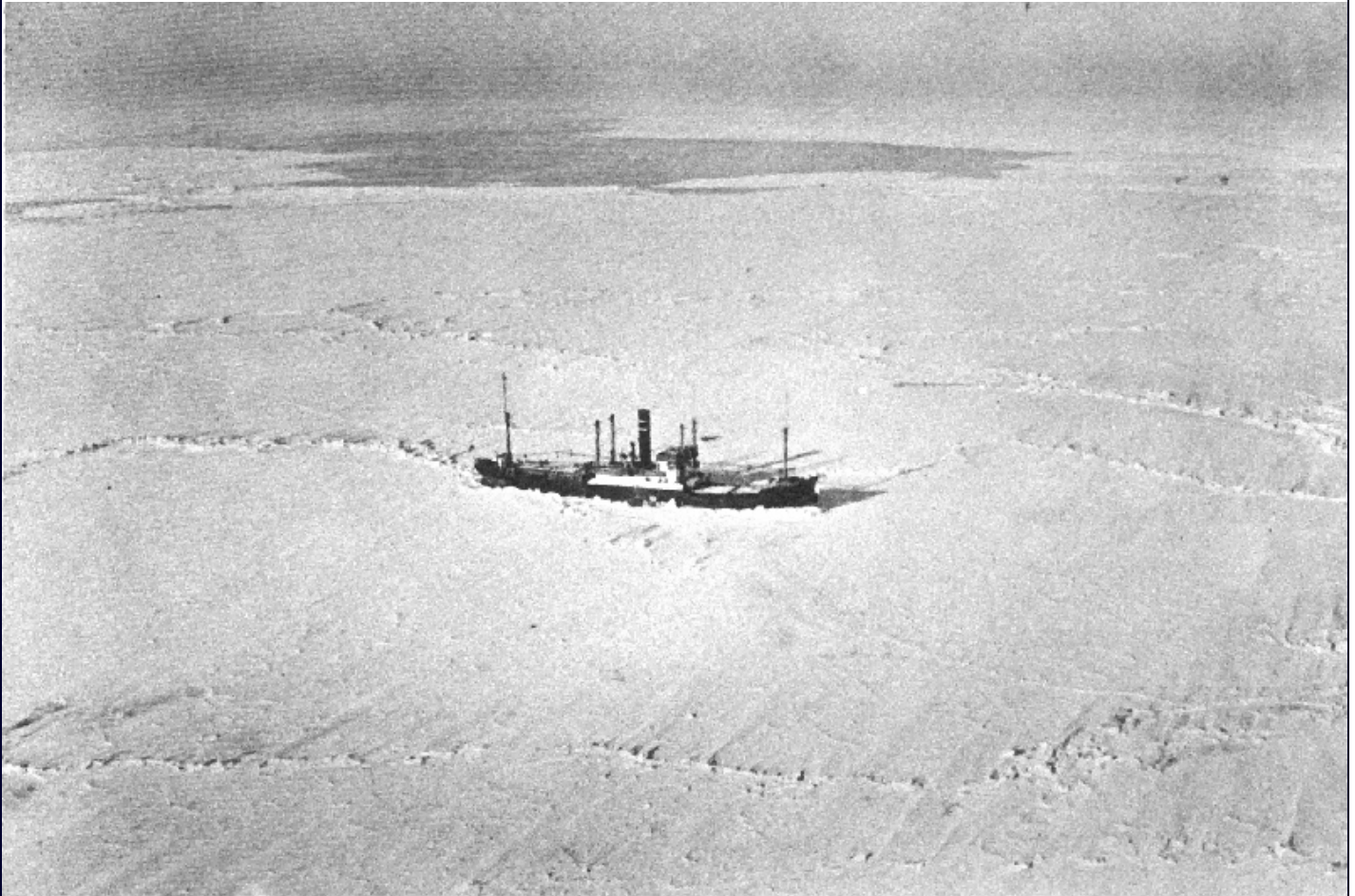
10.4.4 Bergy bit (Fragment d'iceberg [fr])

11



600 Hydrometeorological Inst., USSR
4.2.7 Bergy water (Bergy water [fr])

12



100
12.1 Beset (Coincé [fr])

Air Force, Finland

13



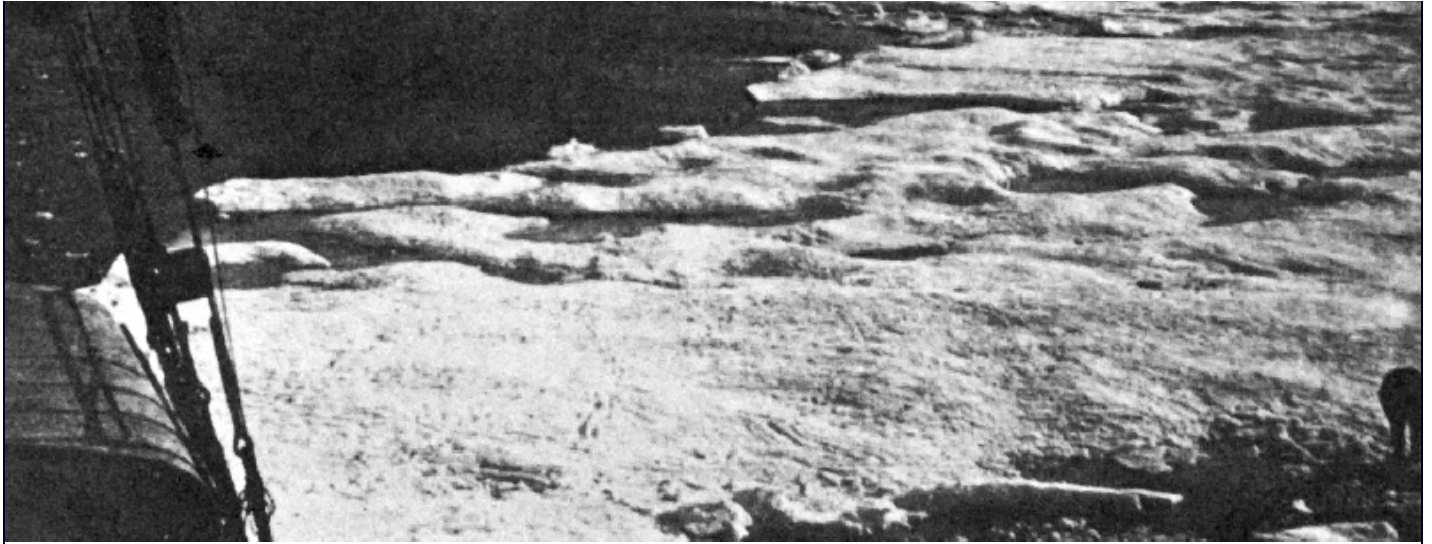
1500

H.H.Valeur, Denmark

4.4.6 Bight (Baie [fr])

14

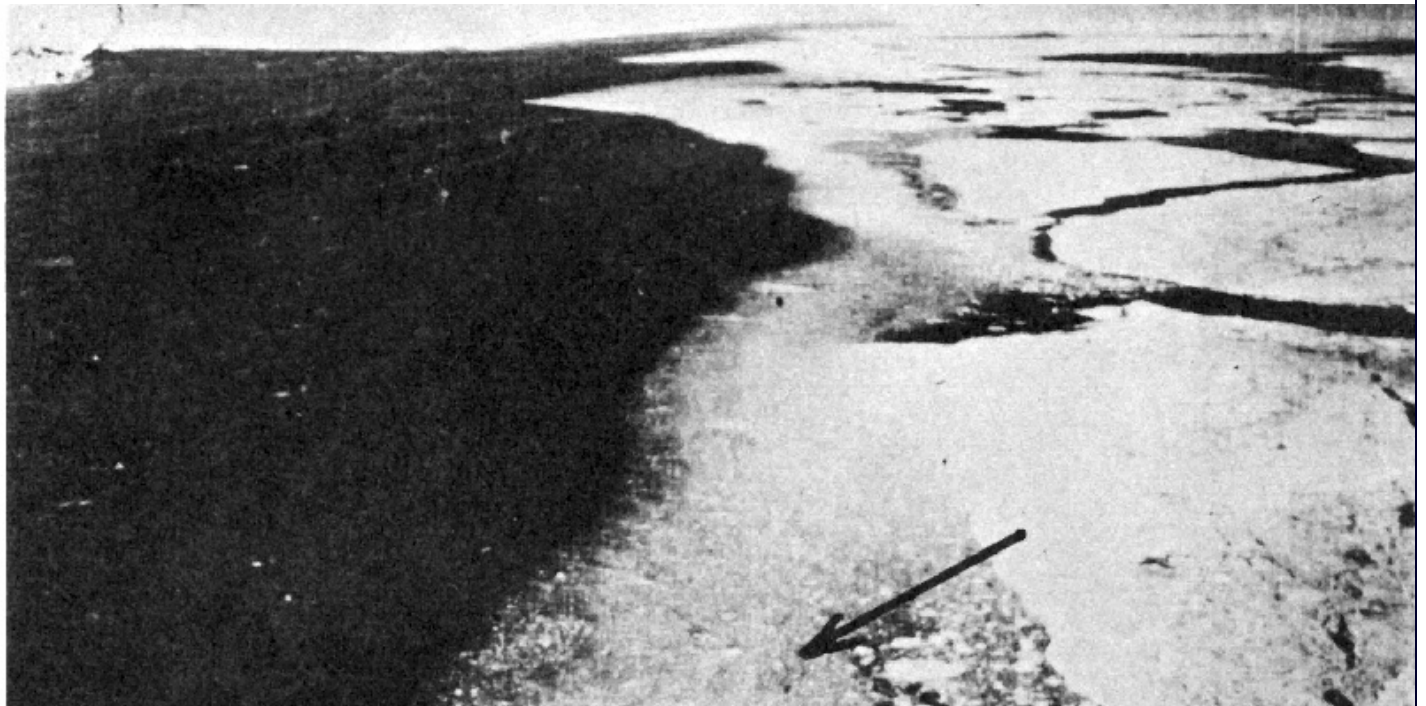




4.4.6 Bight (Baie [fr])

USSR

15





600
4.3.6 Brash ice (Brash [fr]) N.M.Shakirov, USSR

16



4.3.6 Brash ice (Brash [fr]) Meteorological Agency, Japan

17



U.S.Navy

13.4 Bummock (Bummock [fr])

18



250Hamburg, Germany (fed. Rep)

4.3.3 Cake ice (Cake ice [fr])

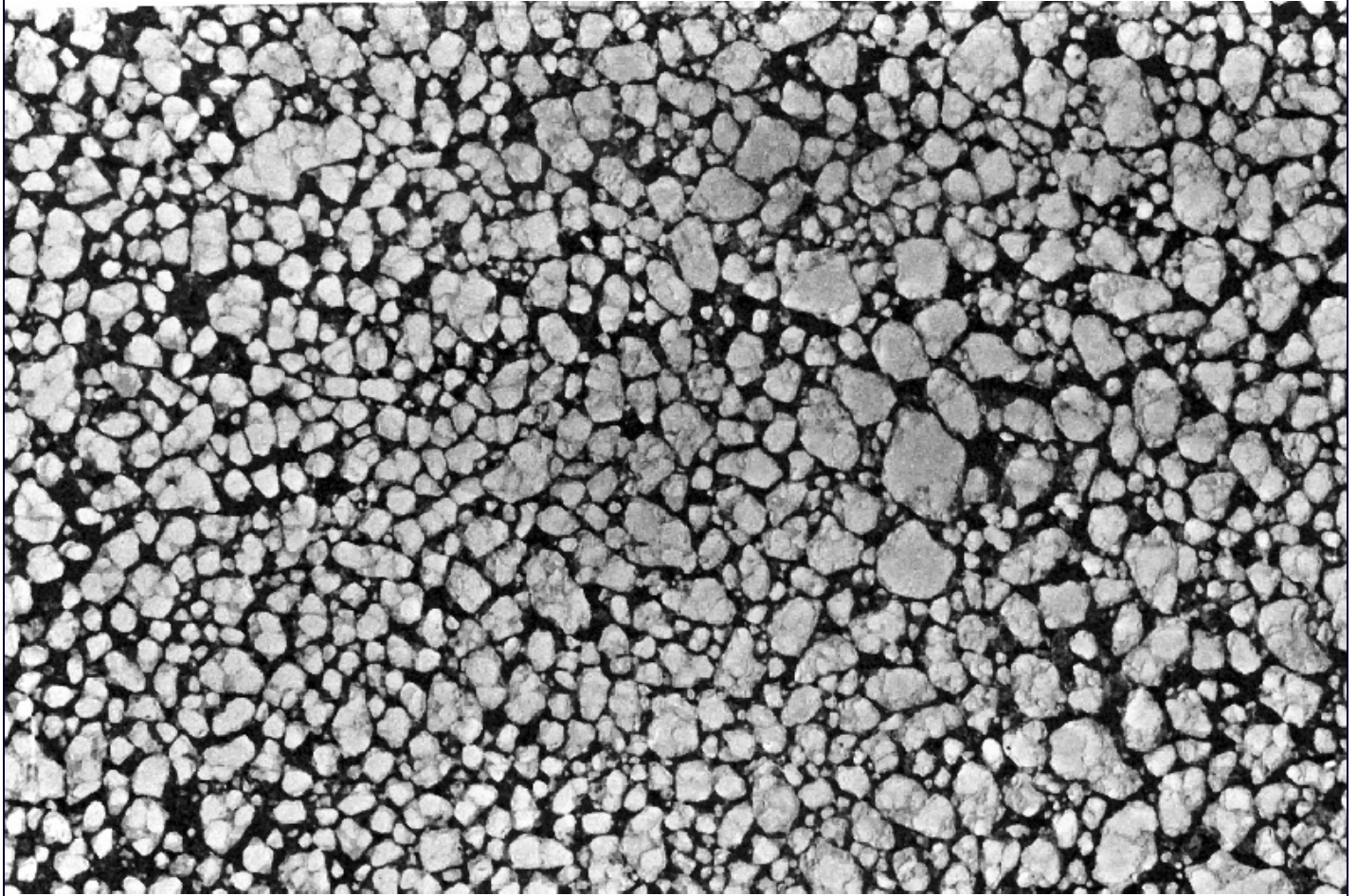
19



Hydrographic Service, Canada

4.3.3 Cake ice (Cake ice [fr])

20



300 USSR
4.2.3 Close ice (Glacé serrée [fr])

21





R.Van Humbeck, Canada

4.2.3 Close ice (Glace serrée [fr])

22

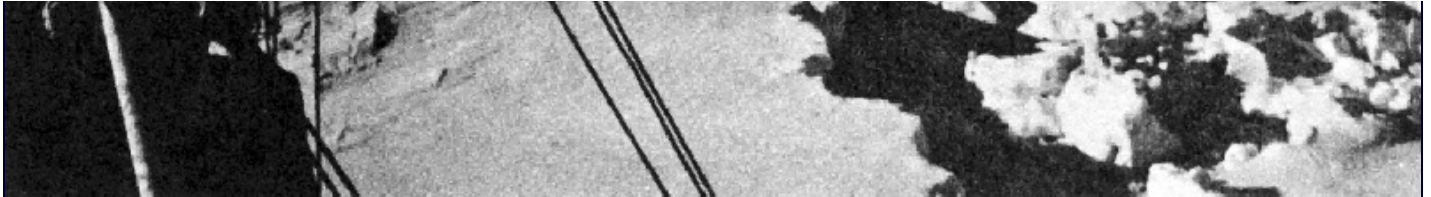




500 **4.2.1** Compact ice (Glace compacte [fr]) Armed Forces, Canada

23

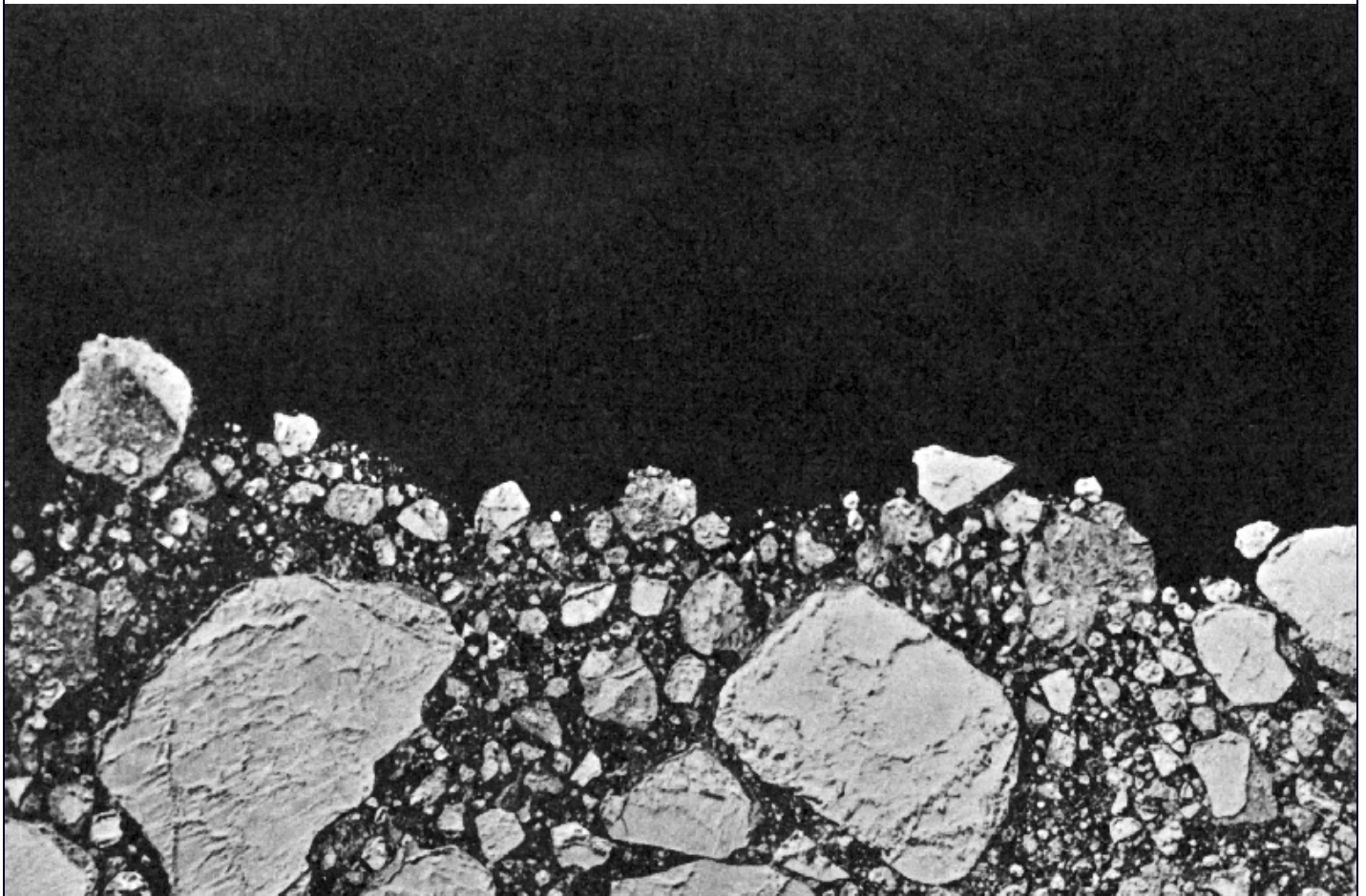




Meteorological Agency, Japan

4.2.1 Compact ice (Glace compacte [fr])

24



G.Tauber, USSR

500

4.4.8.1 Compacted ice edge (Lisière serrée [fr])

25



4.4.8.1 Compacted ice edge (Lisière serrée [fr])

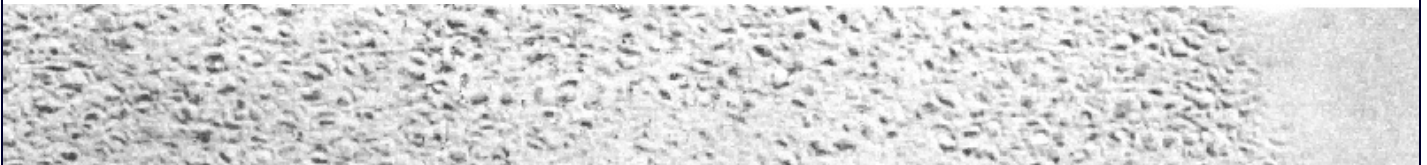
U.S.Navy

26



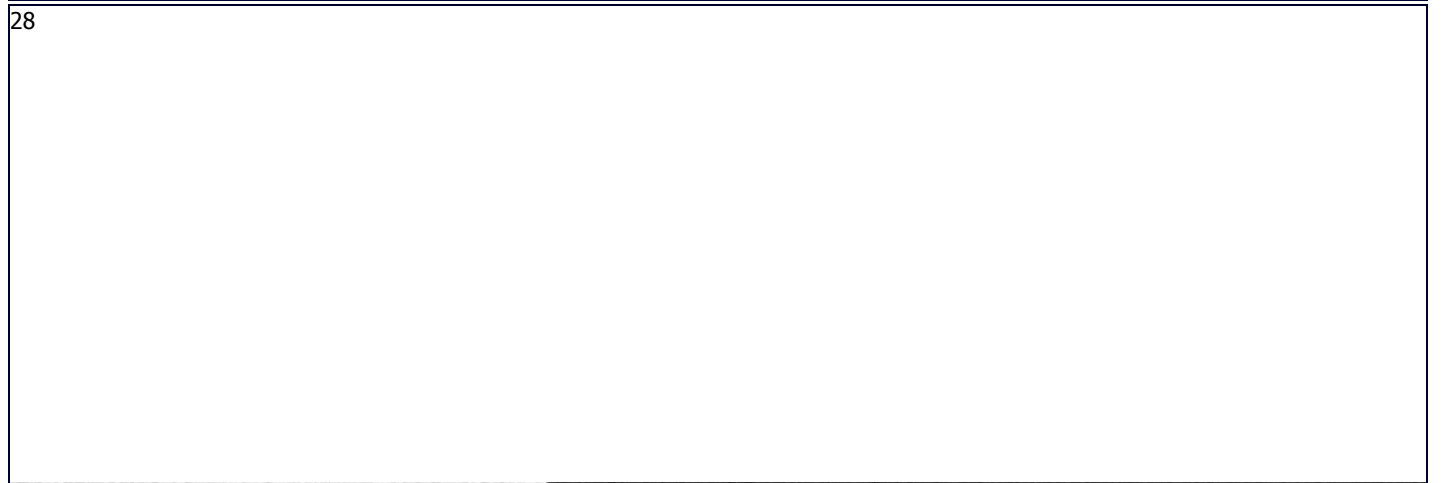
600 Armed Forces, Canada
4.4.9.2 Concentration boundary (Ligne de démarcation de concentrations [fr])

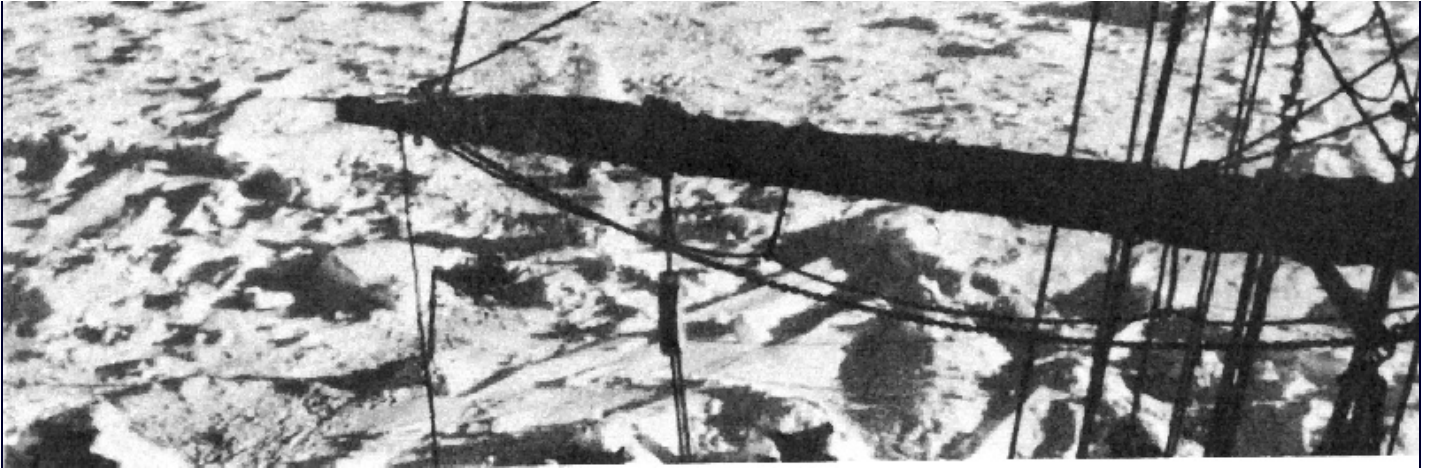
27





200 Armed Forces, Canada
4.2.1.1 Consolidated ice (Glace consolidée [fr])

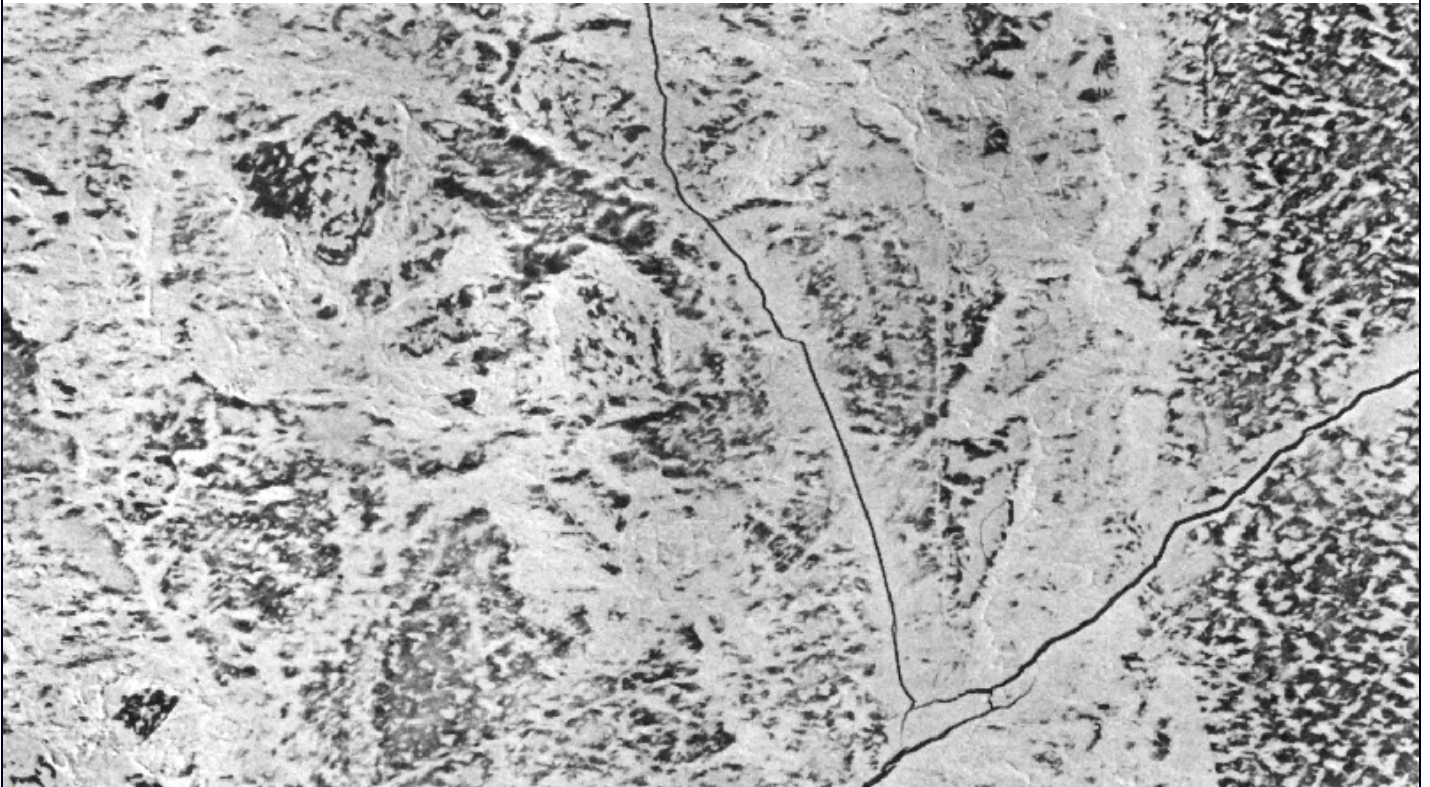


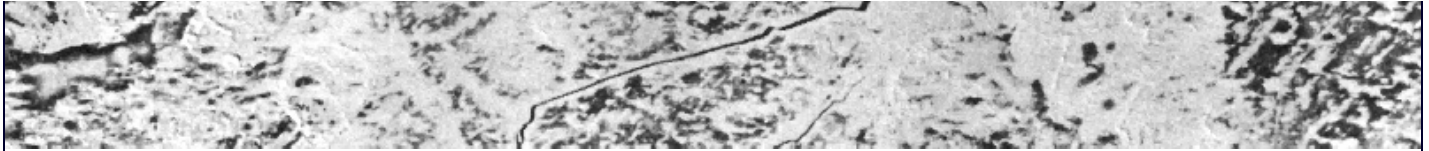


J.F.Hurley, Gt.Britain

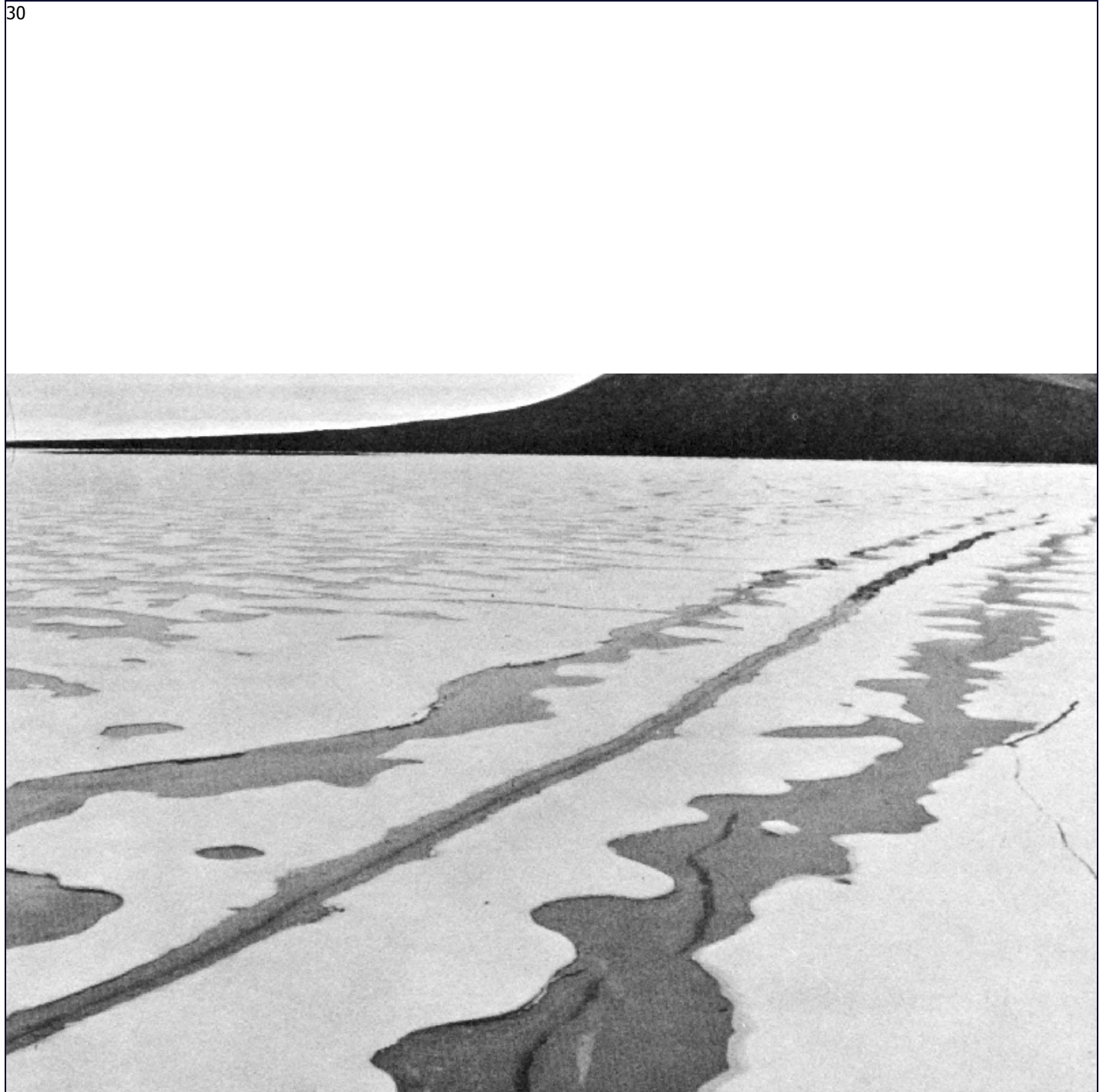
4.2.1.1 Consolidated ice (Glace consolidée [fr])

29



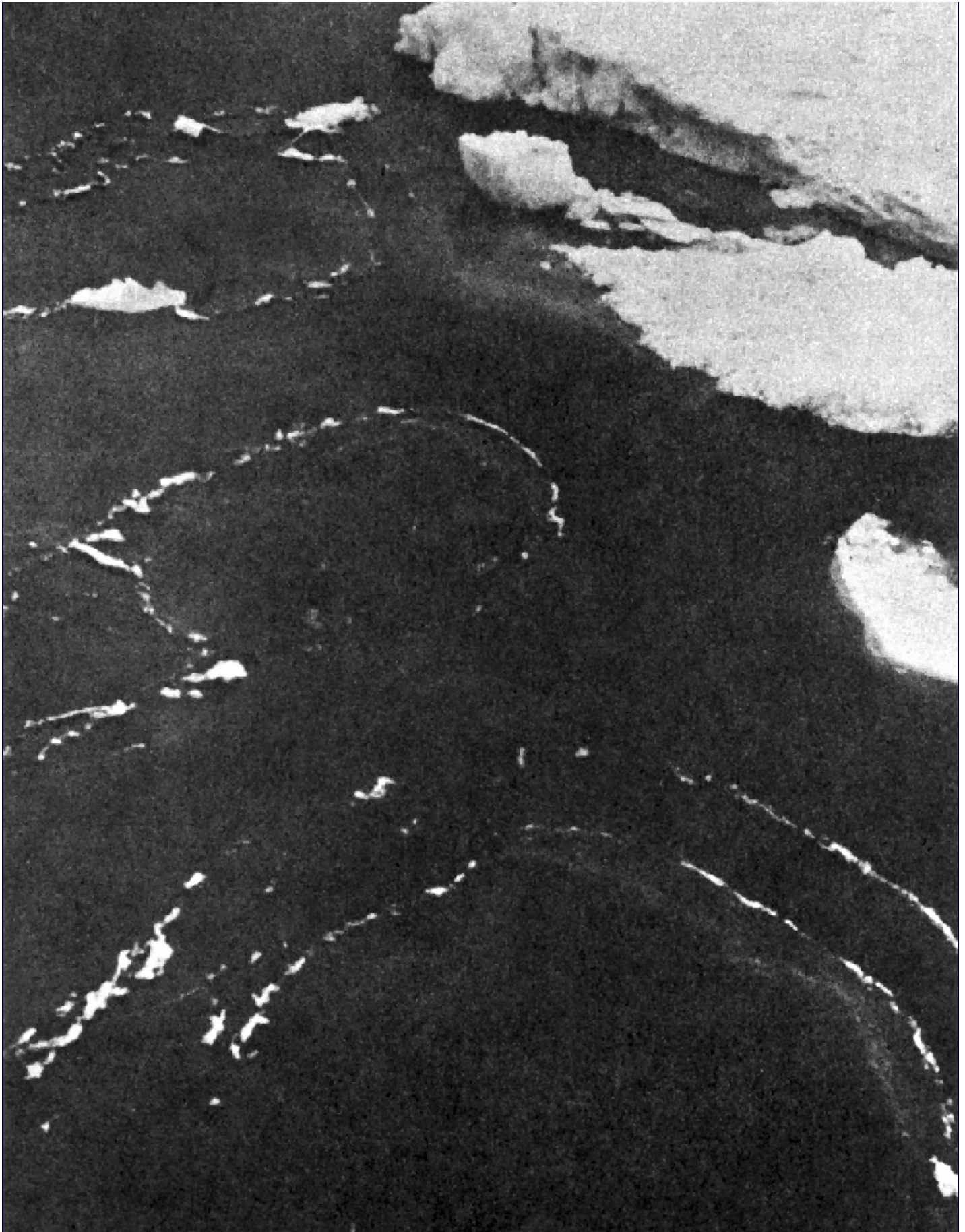


600
7.1.1 Crack (Fissure [fr]) Armed Forces, Canada



7.1.1 Crack (Fissure [fr]) Defence Research Boat, Canada

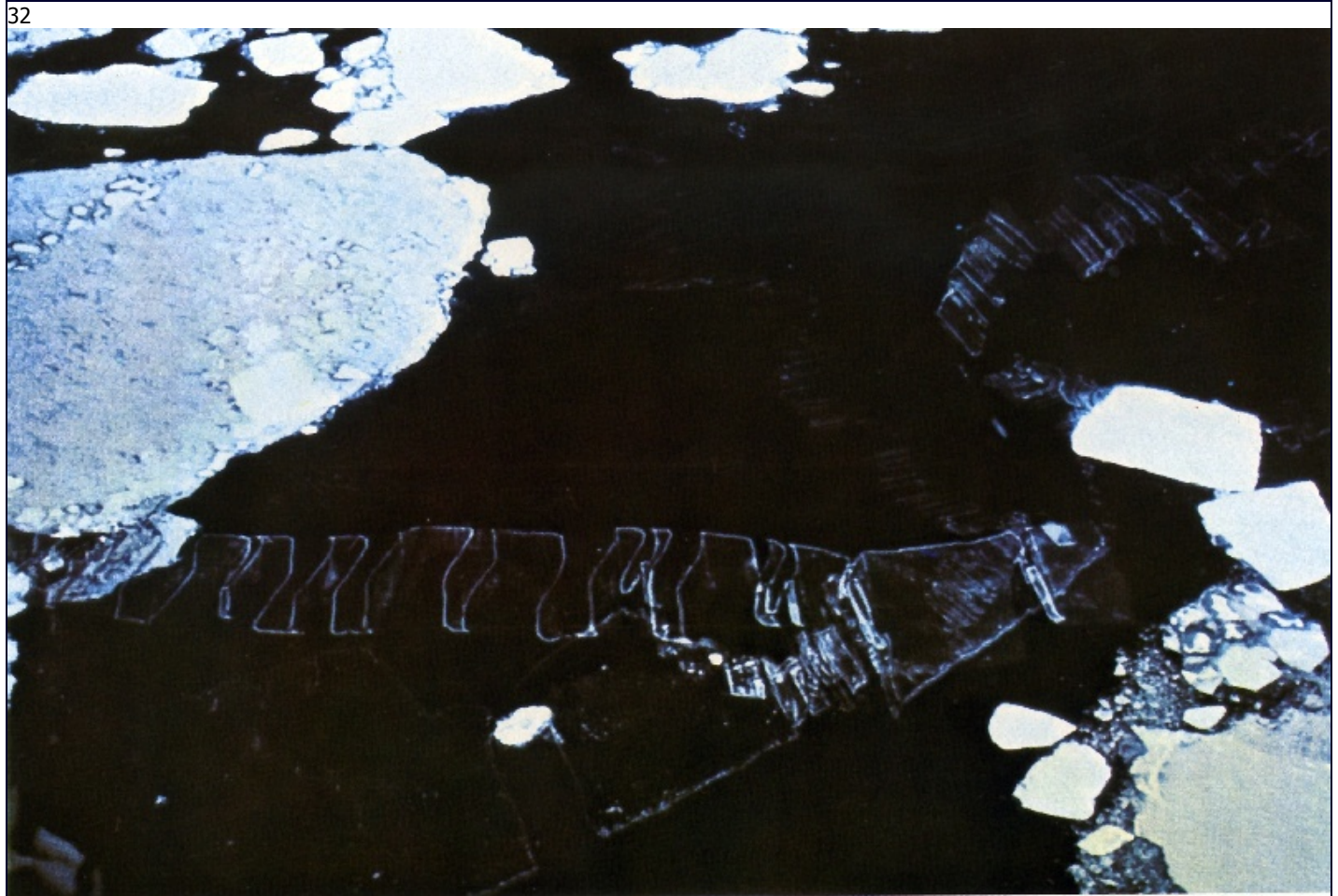
31





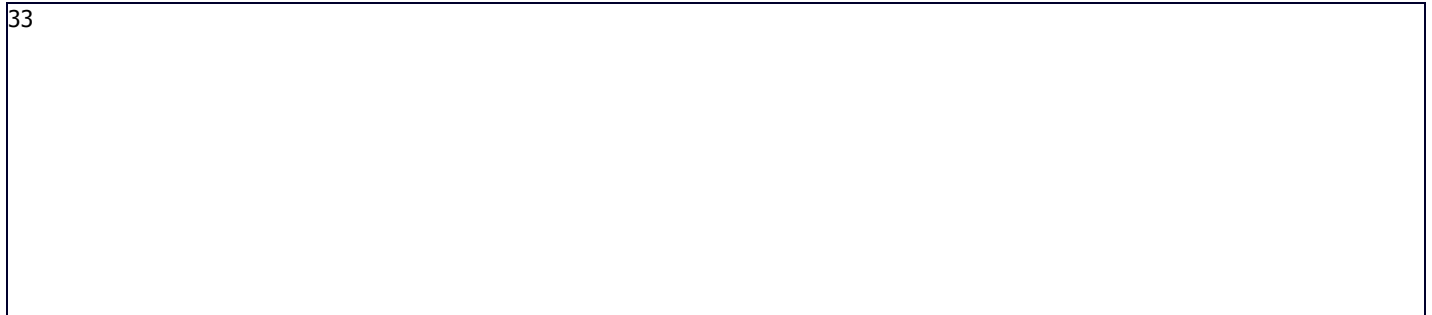
2.2.1 Dark nilas (Nilas sombre [fr])

V.Yanike, USSR



1800
2.2.1 Dark nilas (Nilas sombre [fr])

H.H.Valeur, Denmark





100
4.4.8.2 Diffuse ice edge (Lisière lâche [fr]) N.M.Shakirov, USSR

34



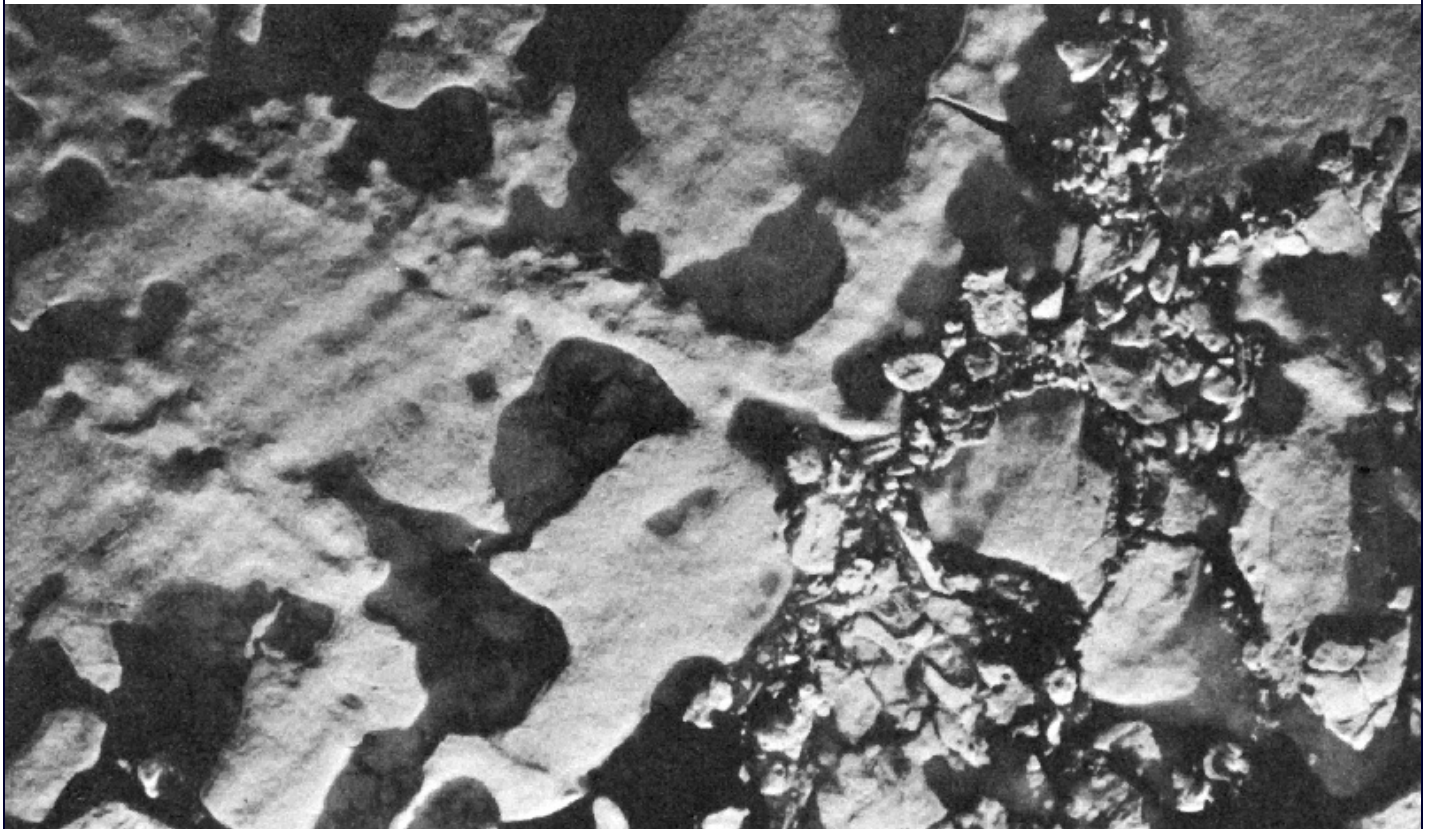


10

V.M.Smolyanitsky, Russia

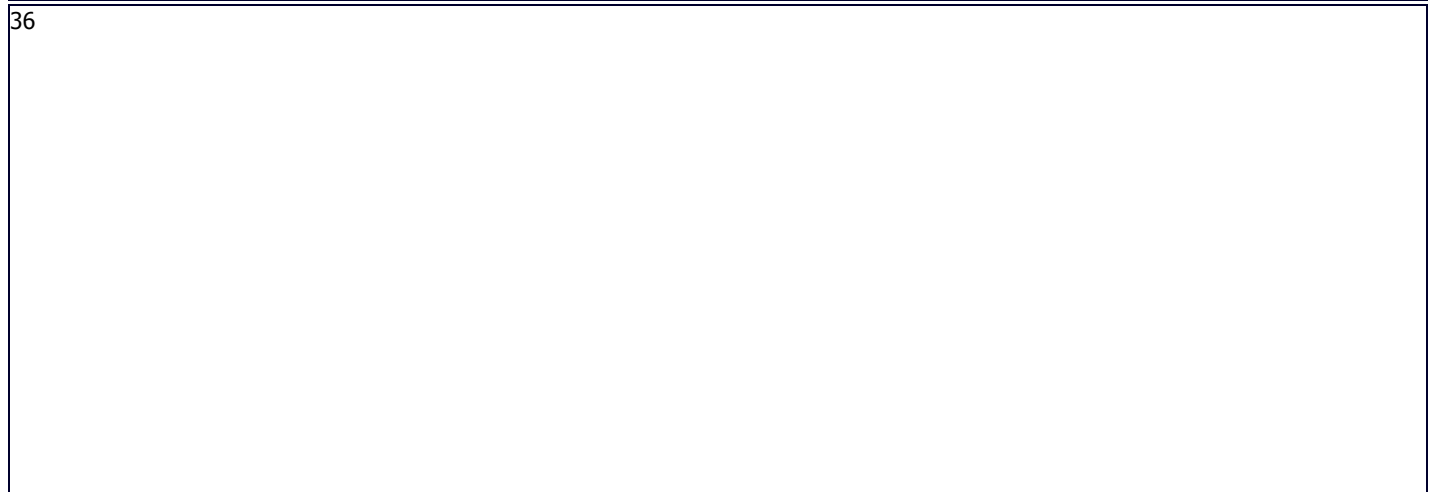
8.7 Dirty ice (Dirty ice [fr])

35





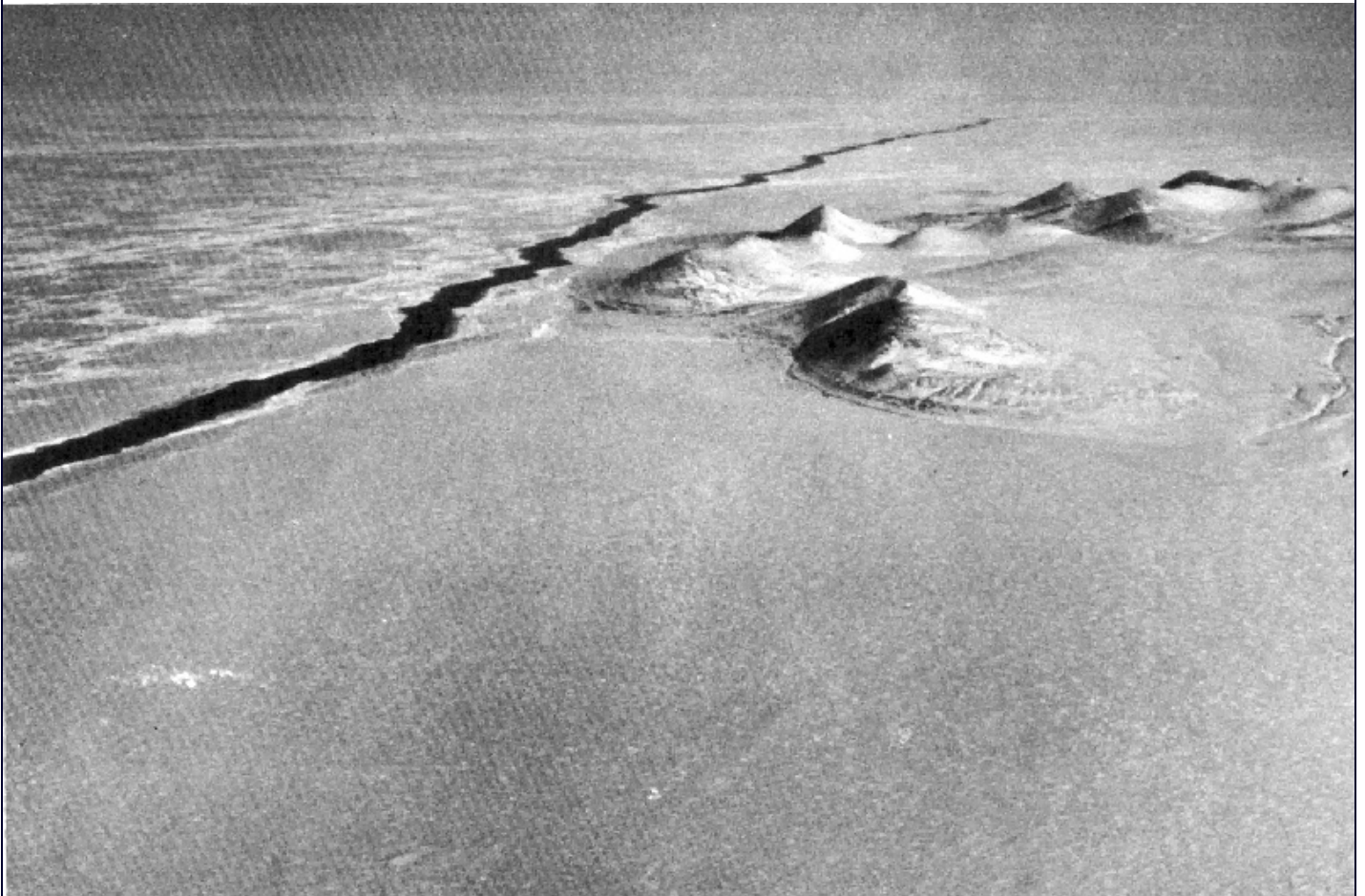
300
9.3 Dried ice (Glace asséchée [fr]) N.M.Shakirov, USSR



9.3 Dried ice (Glace asséchée [fr]) E.M.Bartashevich, USSR



37



1500

Armed Forces,Canada

3.1 Fast ice (Banquise côtière [fr])

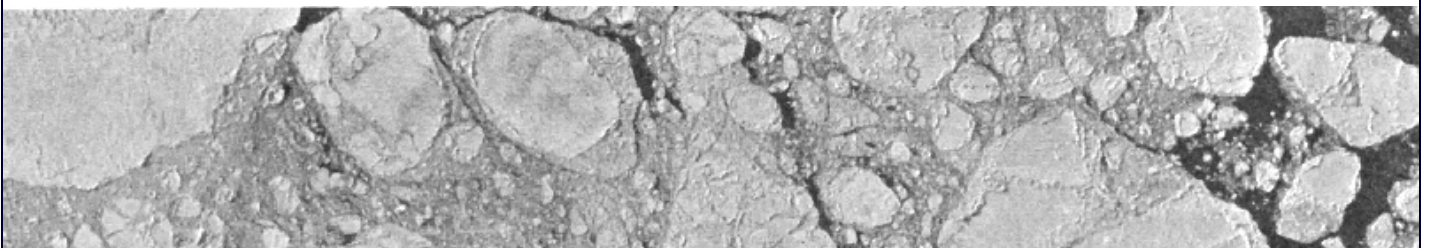
38

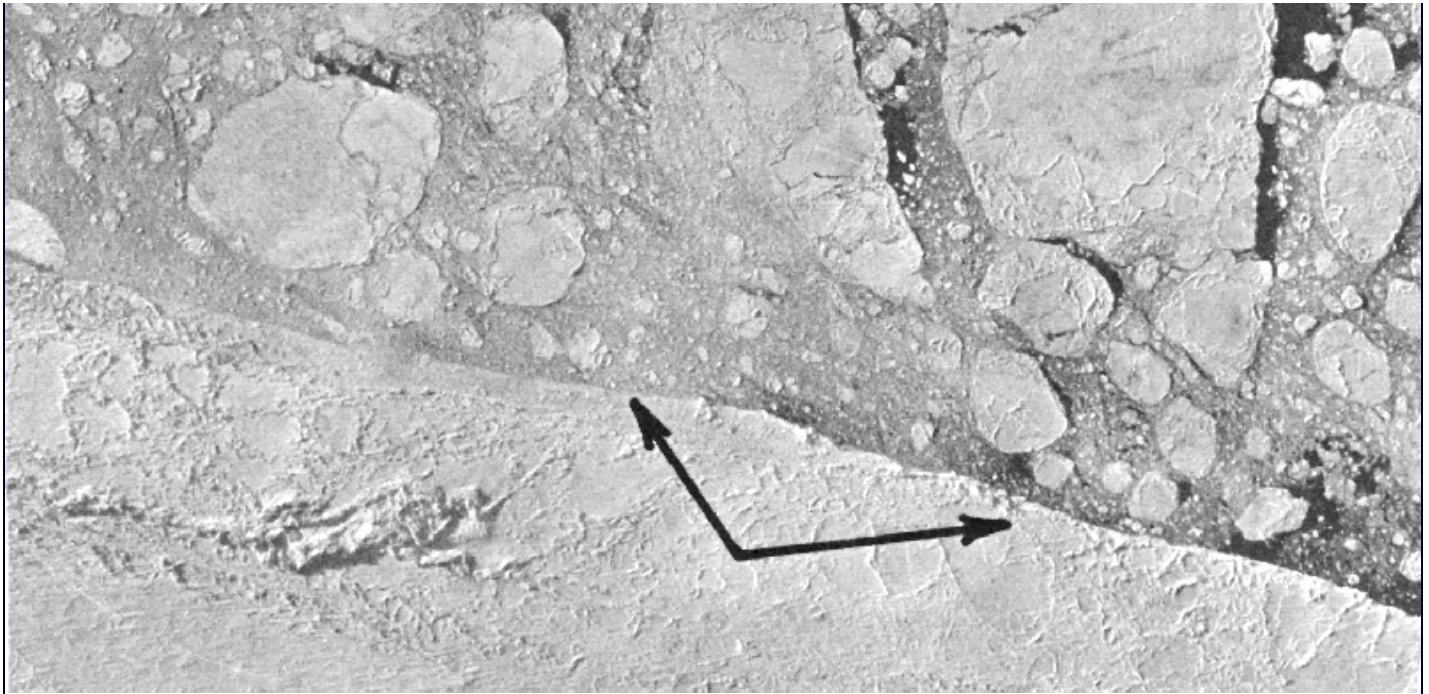


R.Van Humbeck, Canada

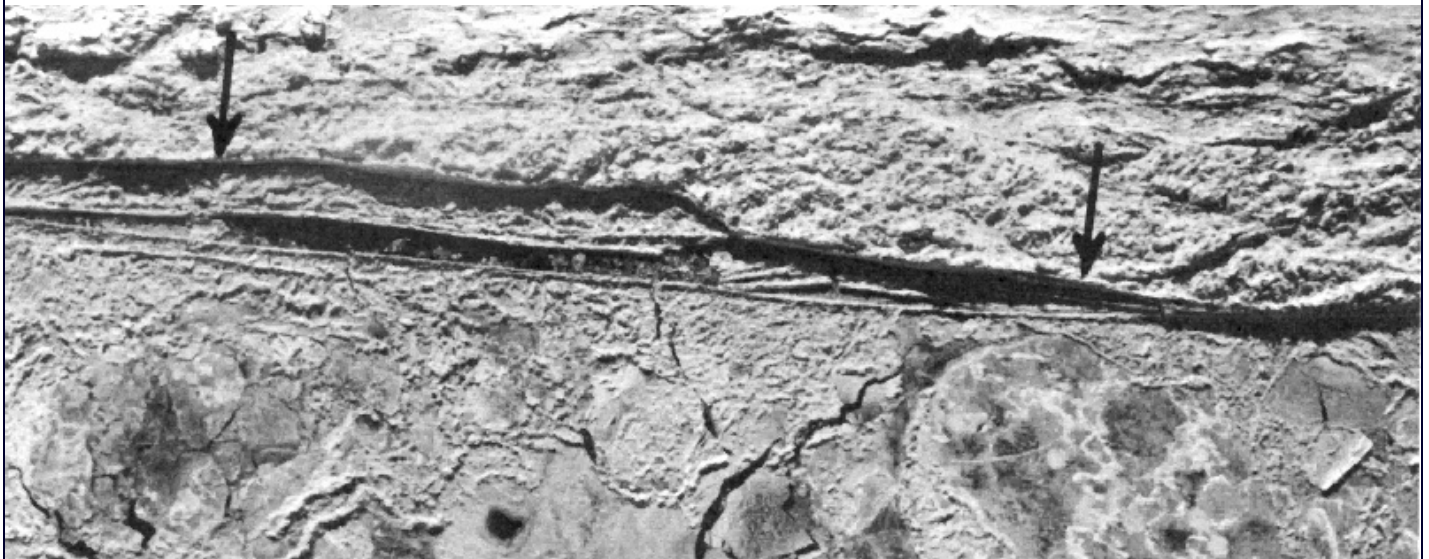
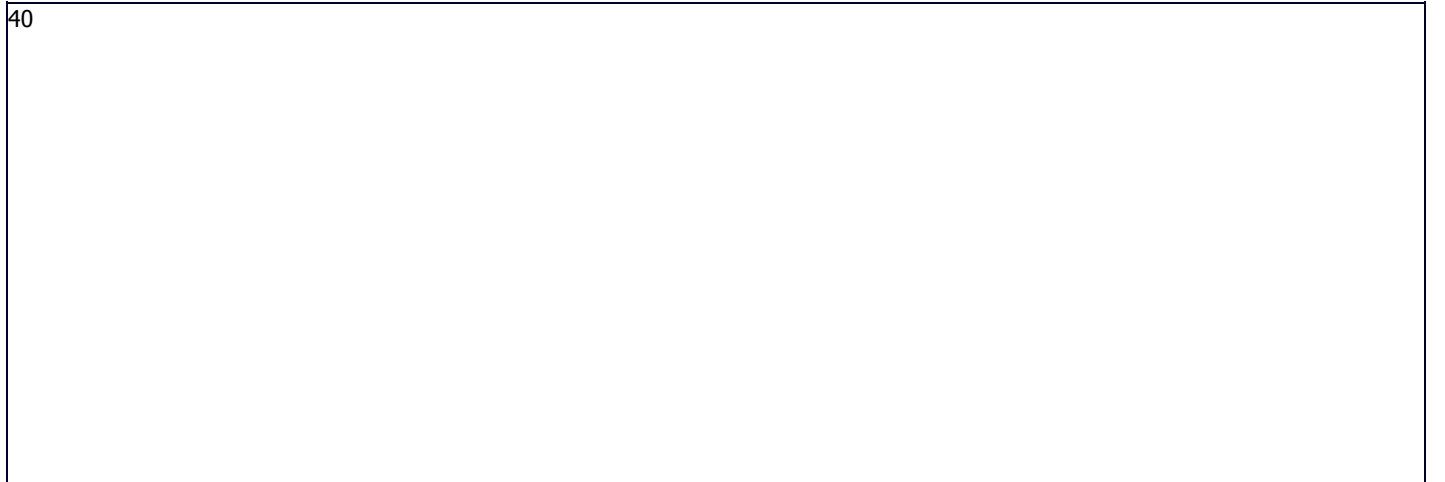
3.1 Fast ice (Banquise côtière [fr])

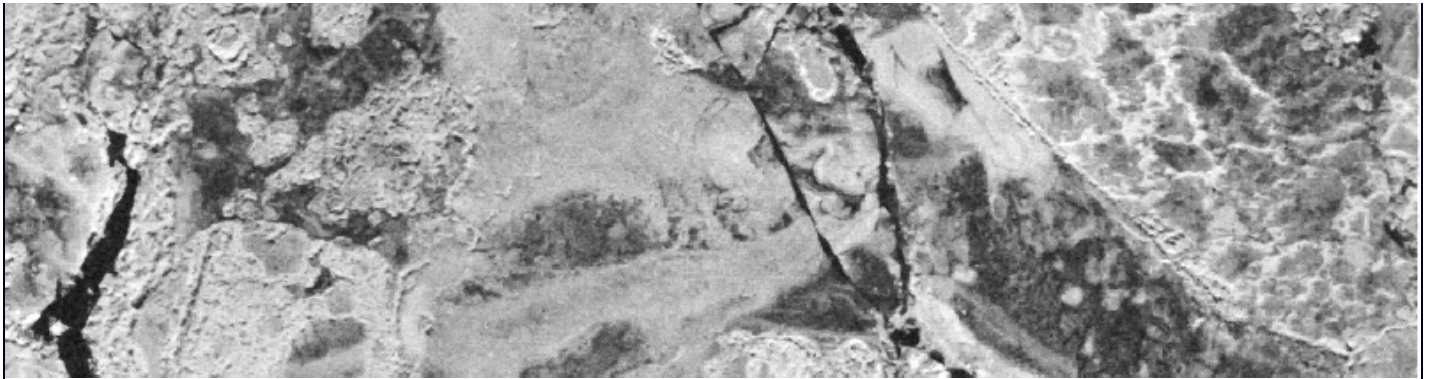
39



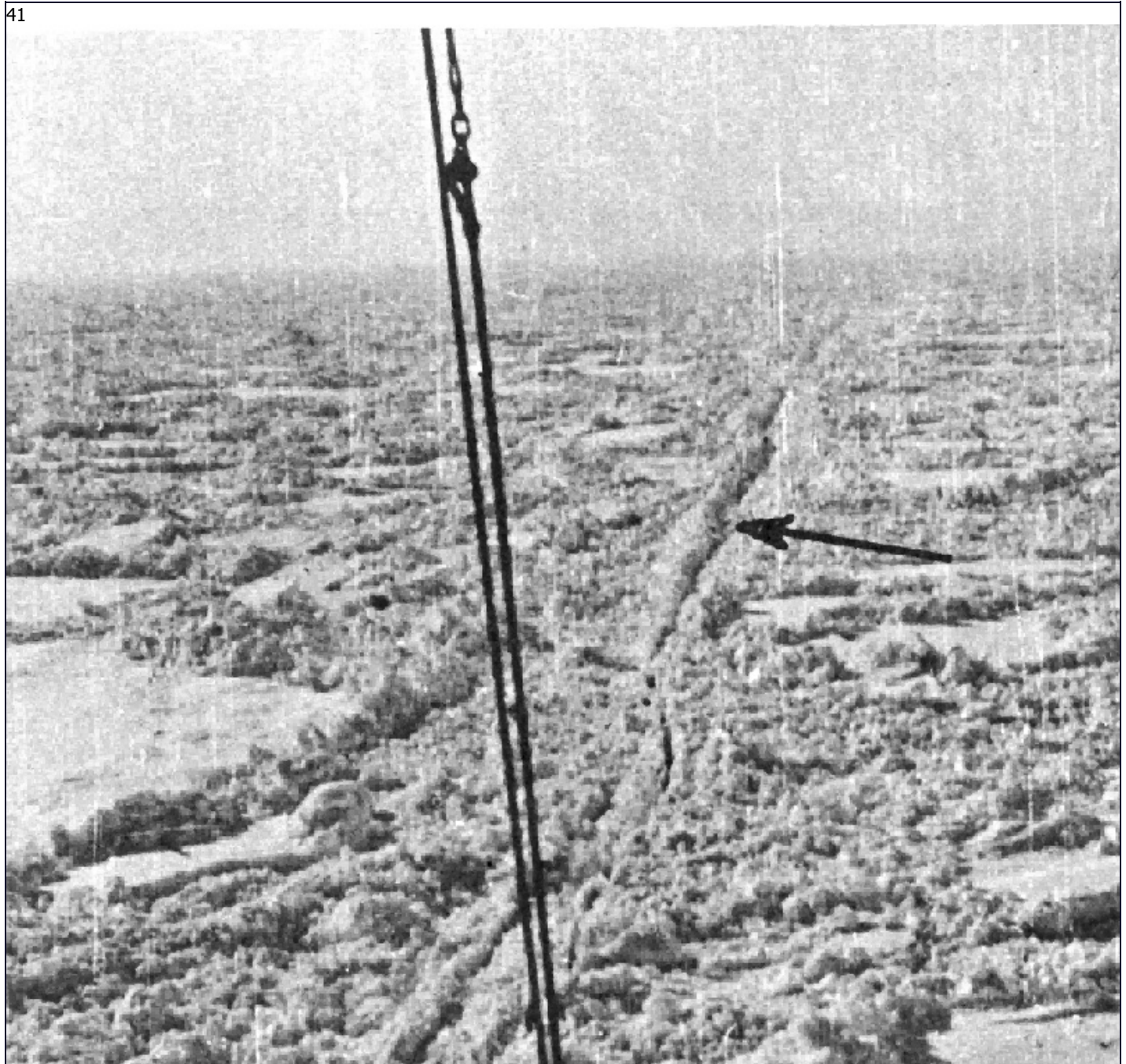


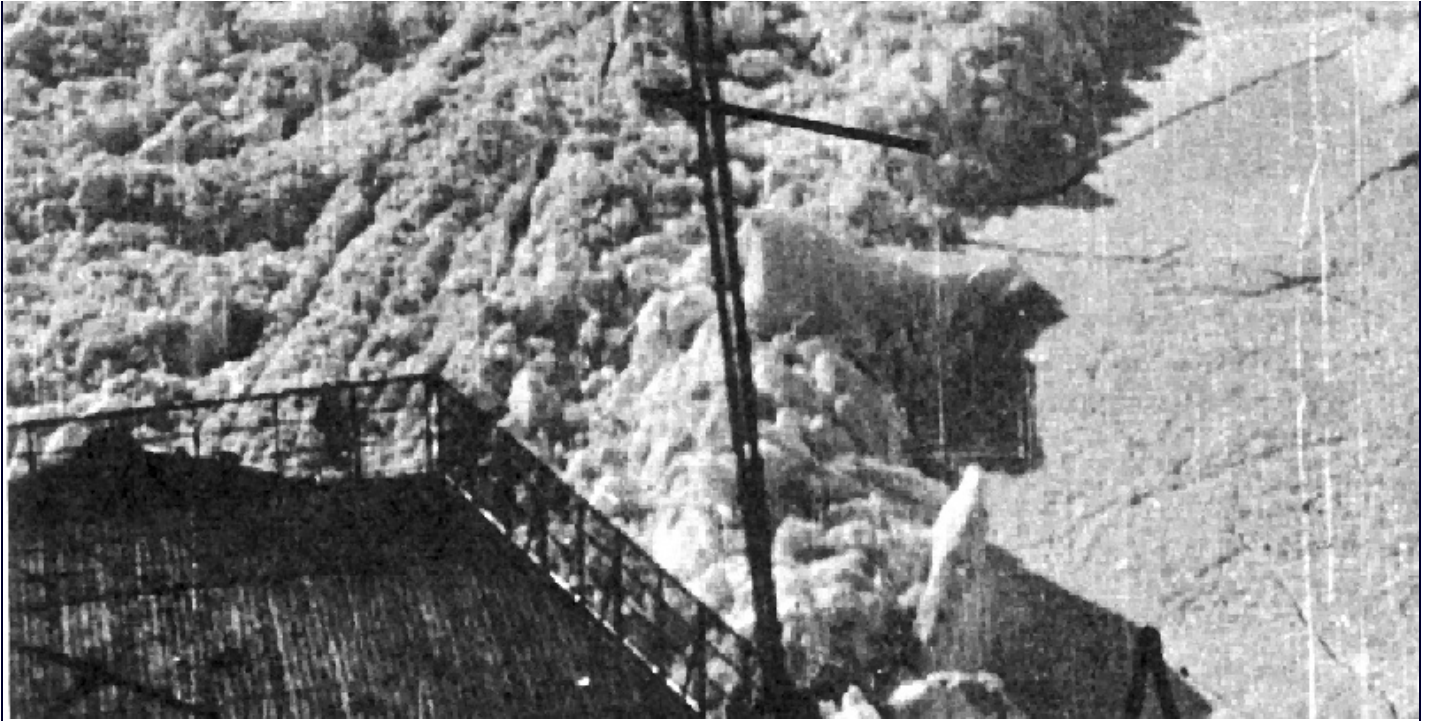
300 **4.4.9.1** Fast ice boundary (Ligne de démarcation de la banquise côtière [fr]) USSR





550
7.1.1.2 Flaw (Brèche de séparation [fr]) Armed Forces, Canada

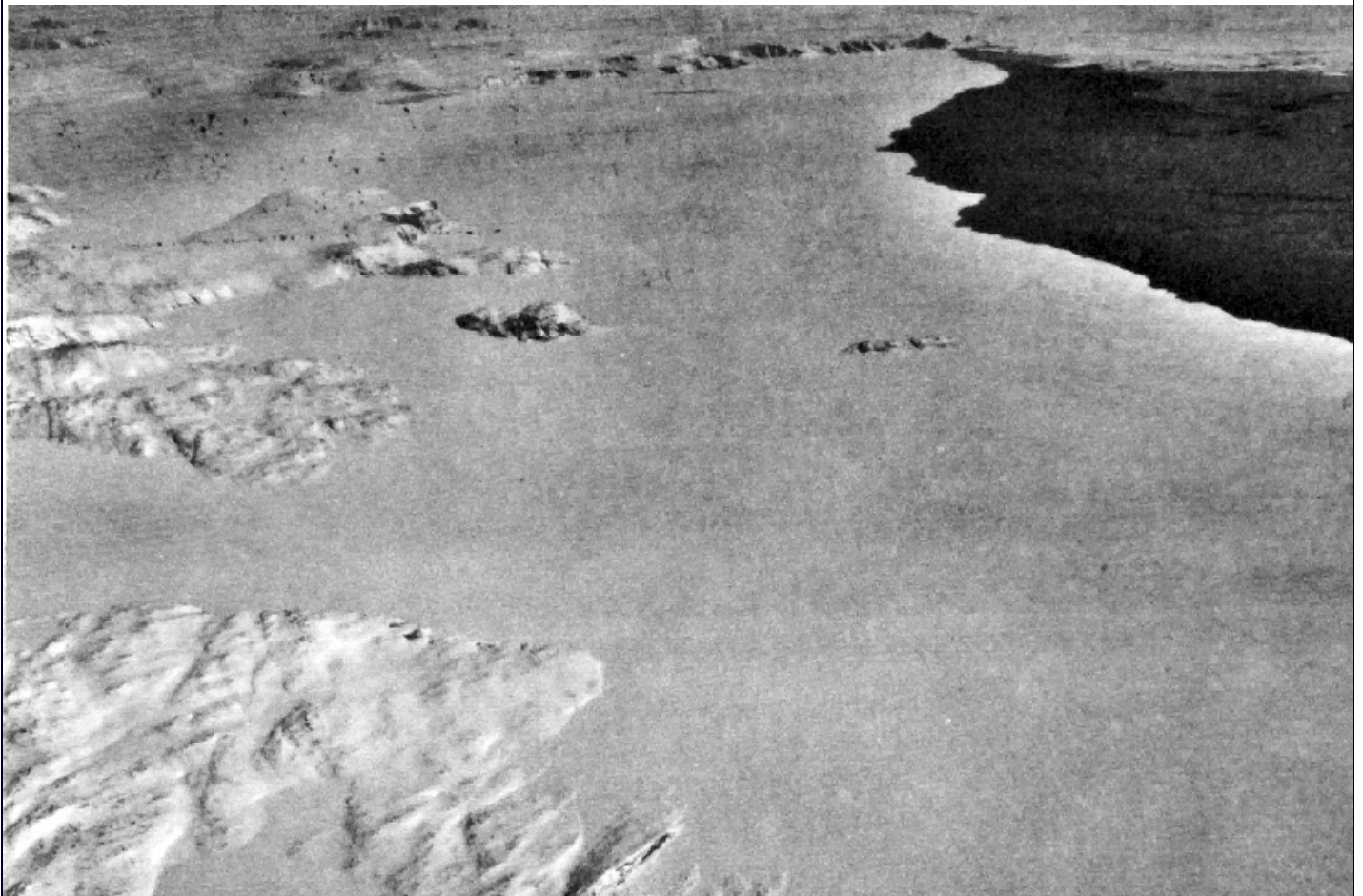




Antarctic Inst., Argentina

7.1.1.2 Flaw (Brèche de séparation [fr])

42



Armed Forces, Canada

7.3.2 Flaw lead (Chenal de séparation [fr])

7.3.2 Flaw lead (Chenal de séparation [fr])

43



V.A.Voevodin, USSR

7.3.2 Flaw lead (Chenal de séparation [fr])

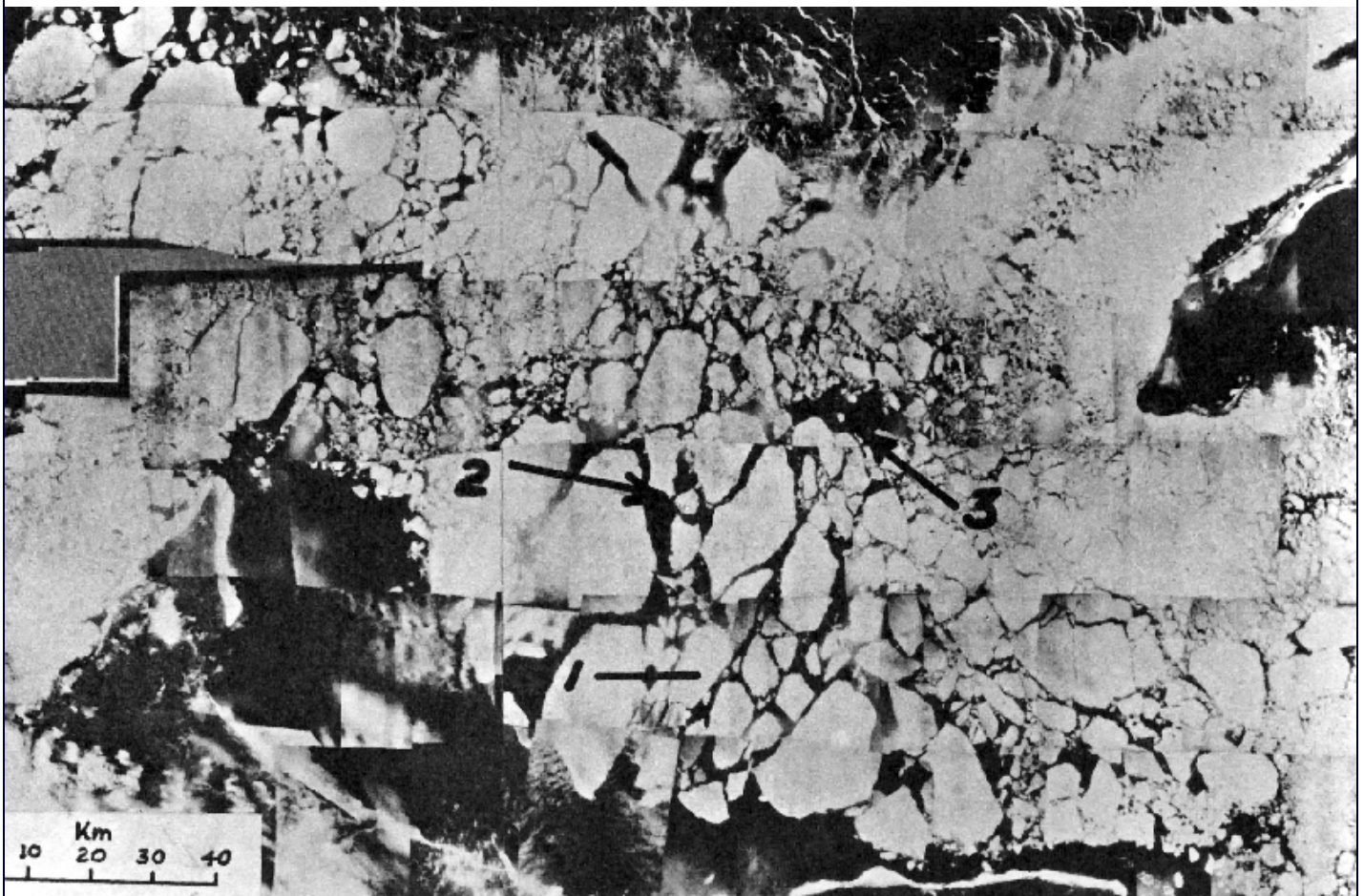
44



U.S.Navy

7.4.2 Flaw polynya (Polynie de séparation [fr])

45



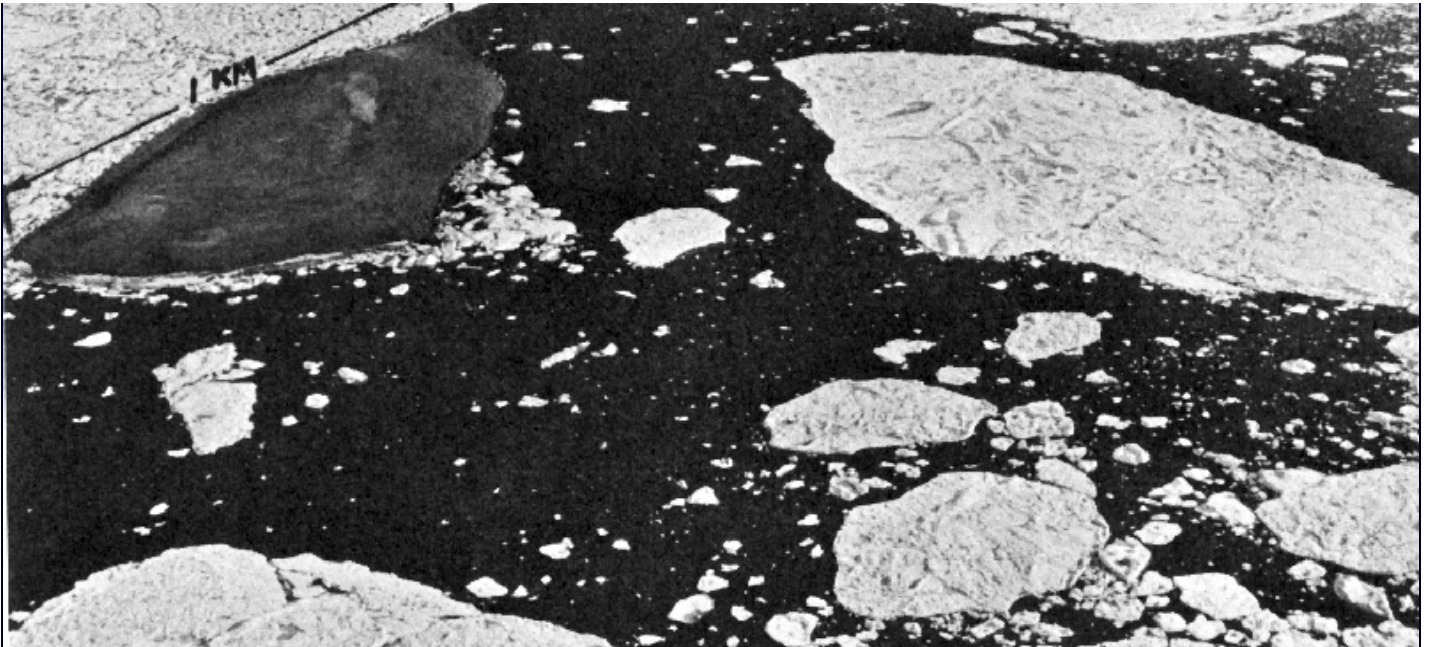
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Armed Forces,Canada

4.3.2.3 Floe big (Grand [fr])

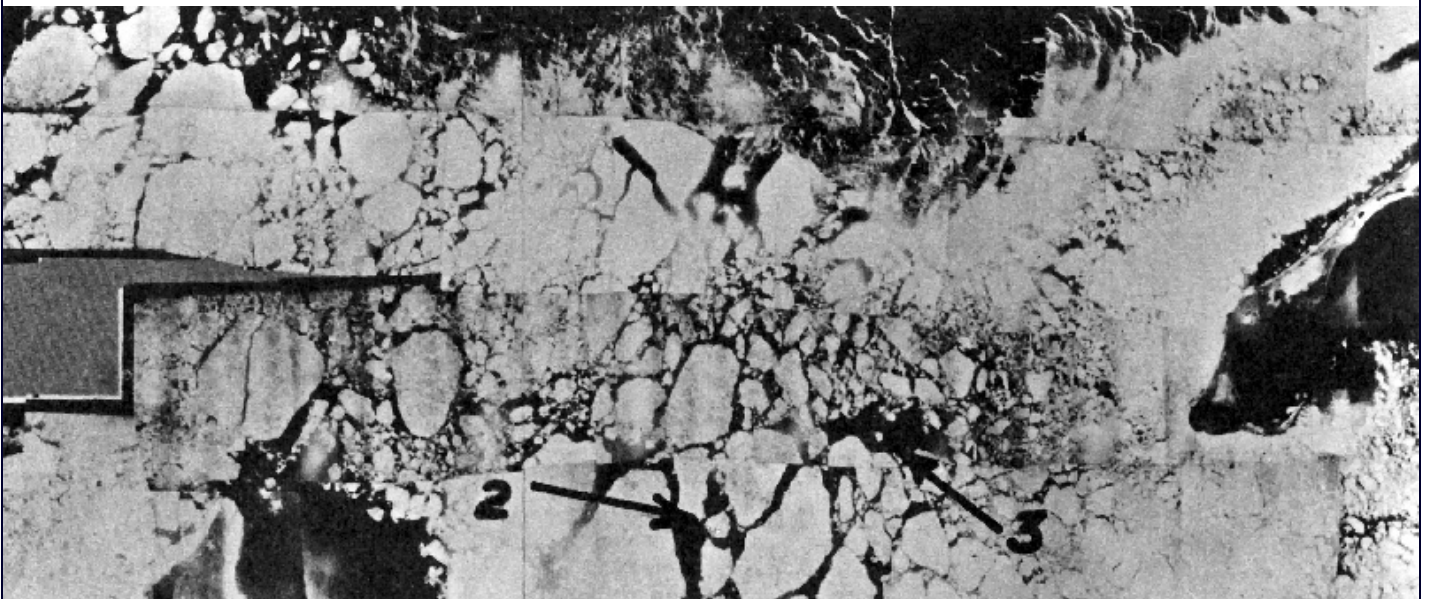
46

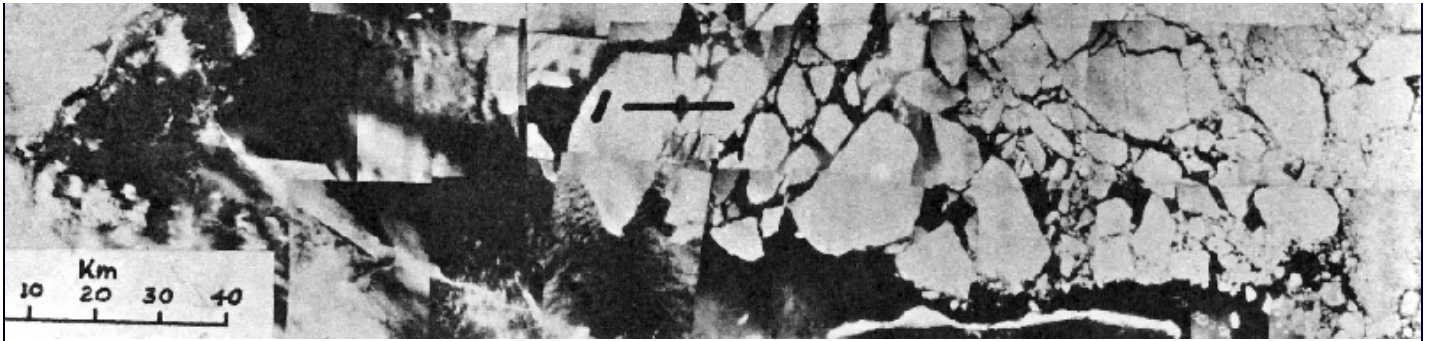




600
4.3.2.3 Floe big (Grand [fr]) Armed Forces, Canada

47



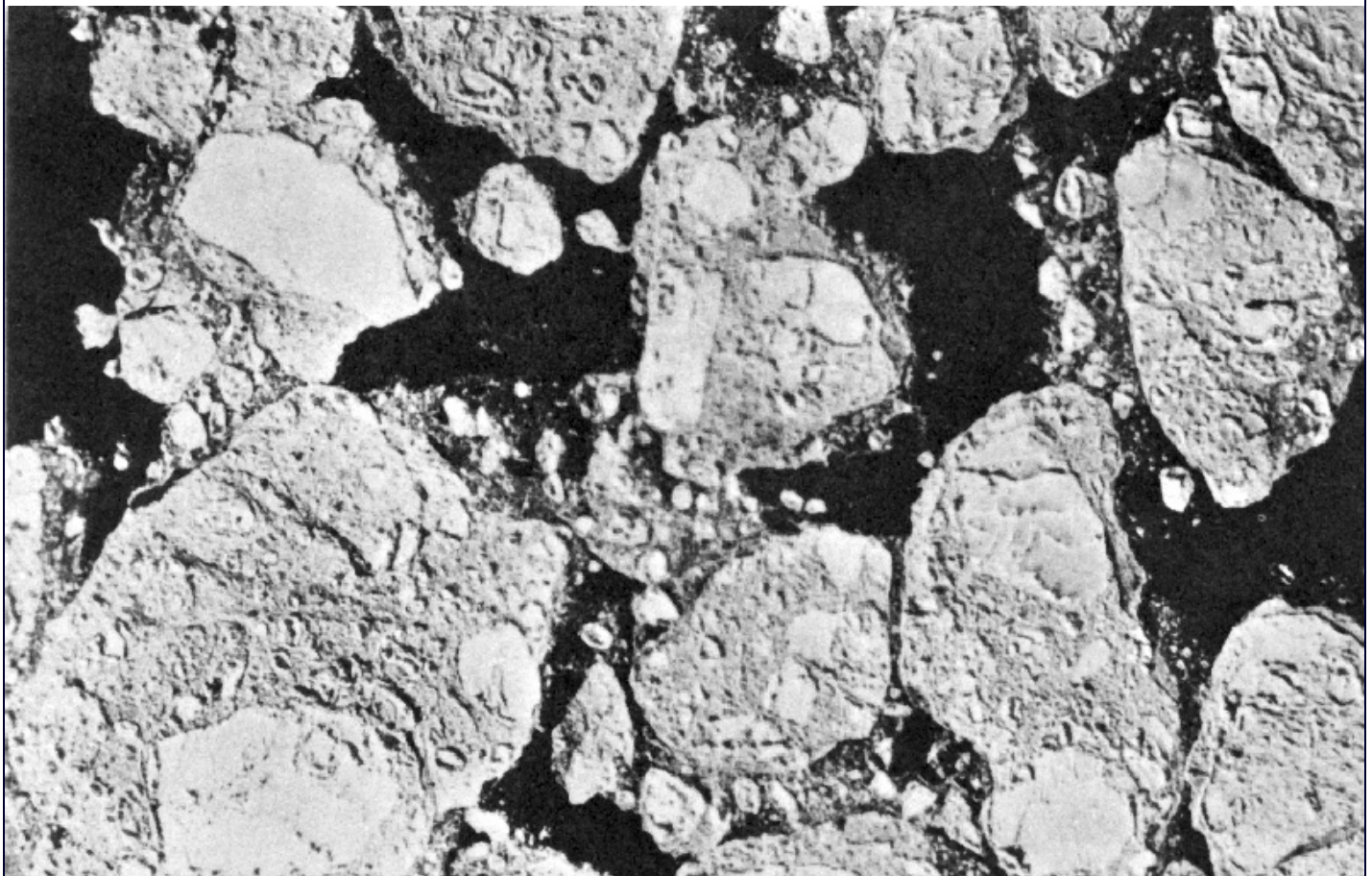


12000

Armed Forces, Canada

4.3.2.1 Floe giant (Géant [fr])

48



500 Hydrometeorological Inst., USSR

4.3.2.4 Floe medium (Moyen [fr])

49



Hakodate Marine Observatory(JMA), Japan

4.3.2.4 Floe medium (Moyen [fr])

50



100 **4.3.2.5** Floe small (Petit [fr]) Armed Forces,Canada

51

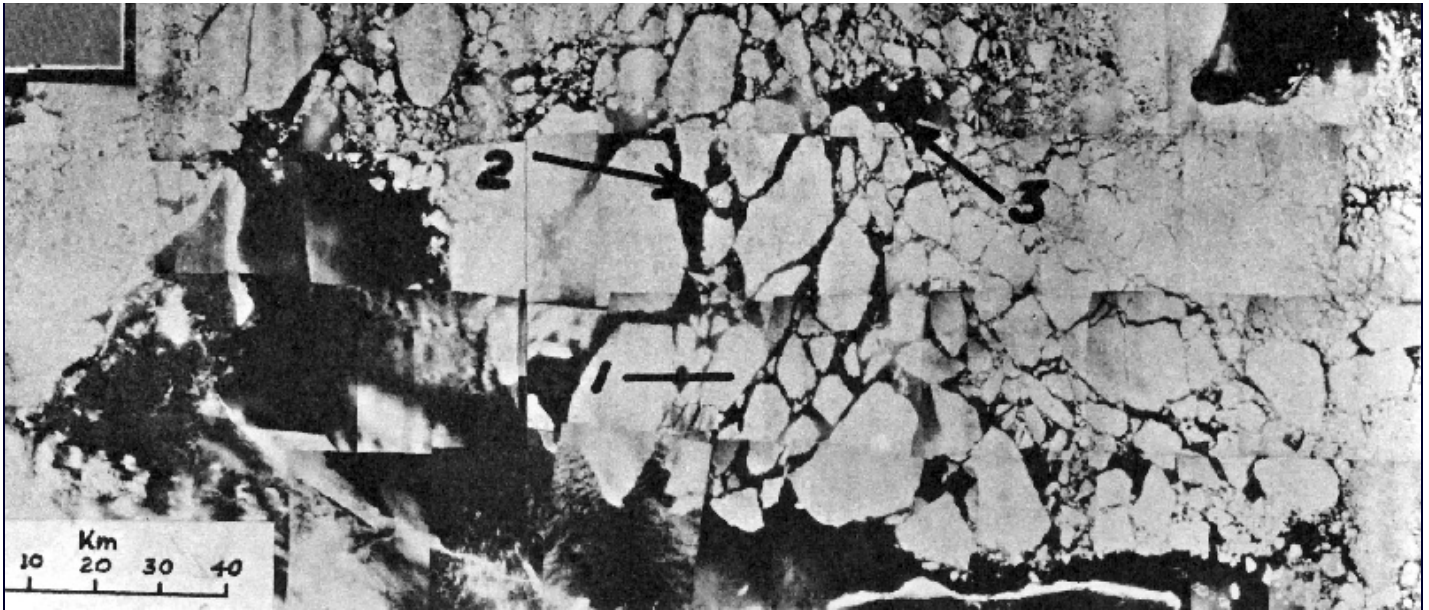


Meteorological Agency, Japan

4.3.2.5 Floe small (Petit [fr])

52





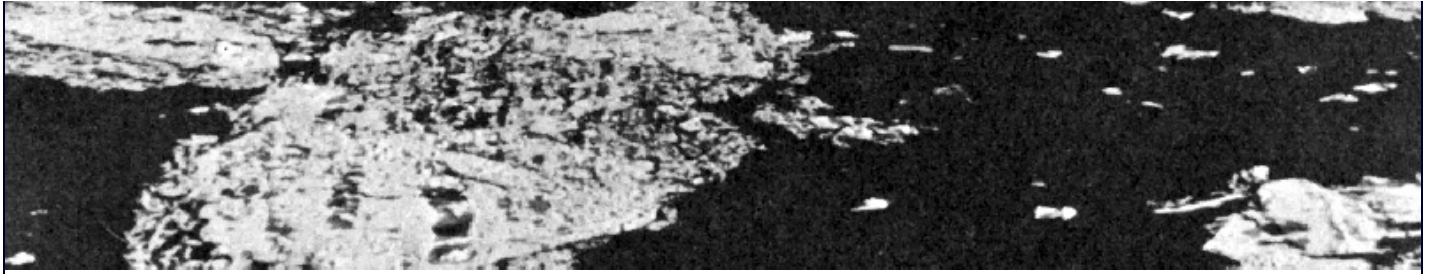
12000

Armed Forces, Canada

4.3.2.2 Floe vast (Immense [fr])

53





1800

H.H.Valeur, Denmark

4.3.2.2 Floe vast (Immense [fr])

54

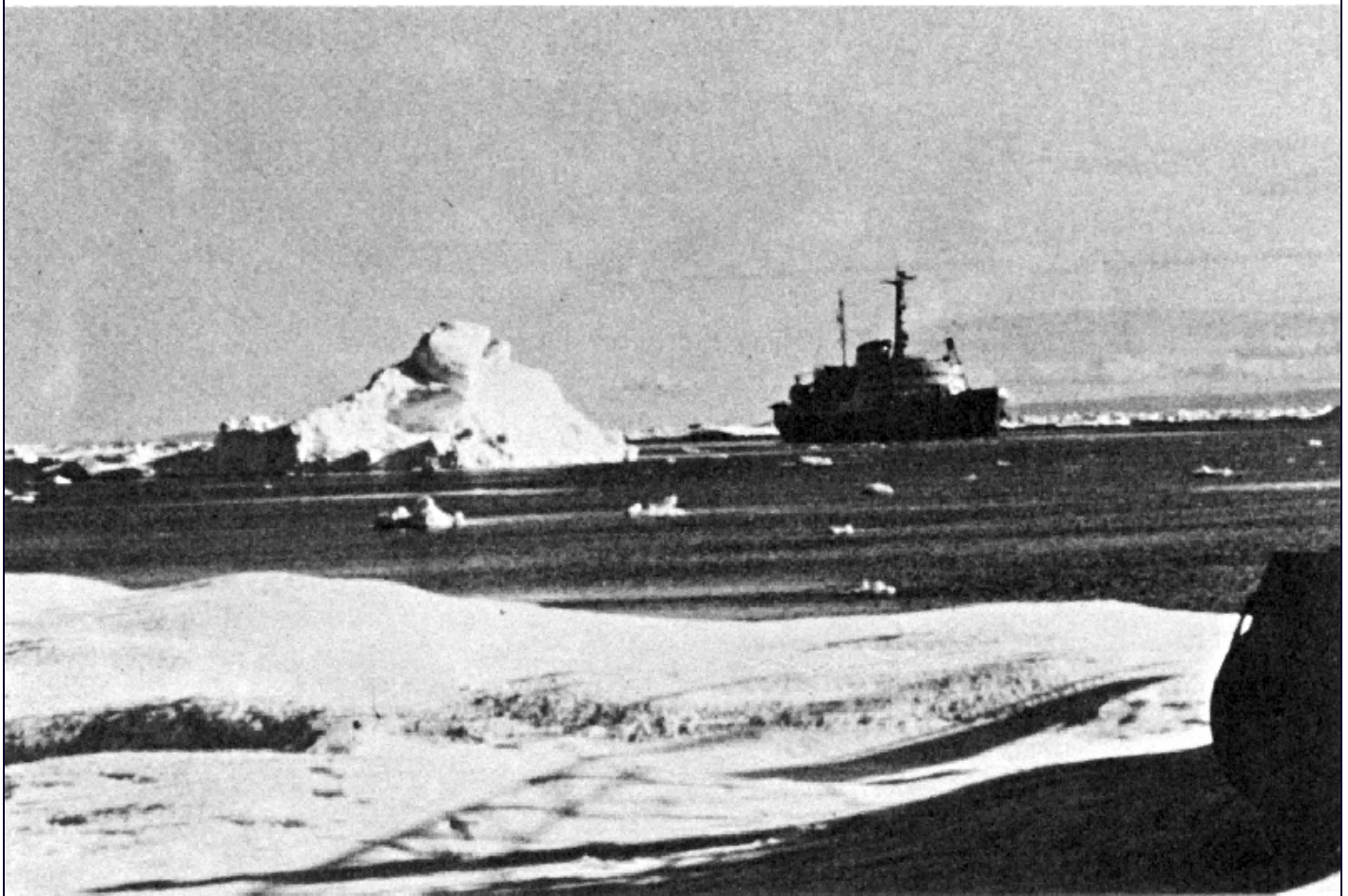


600

ARmed Forces,Canada

4.3.4 Floeberg (Floeberg [fr])

55



Defence Research Boat, Canada

4.3.4 Floeberg (Floeberg [fr])

56



200
9.5 Flooded ice (Glace inondée [fr]) Defence Research Boat, Canada

57





9.5 Flooded ice (Glace inondée [fr])

Defence Research Boat, Canada

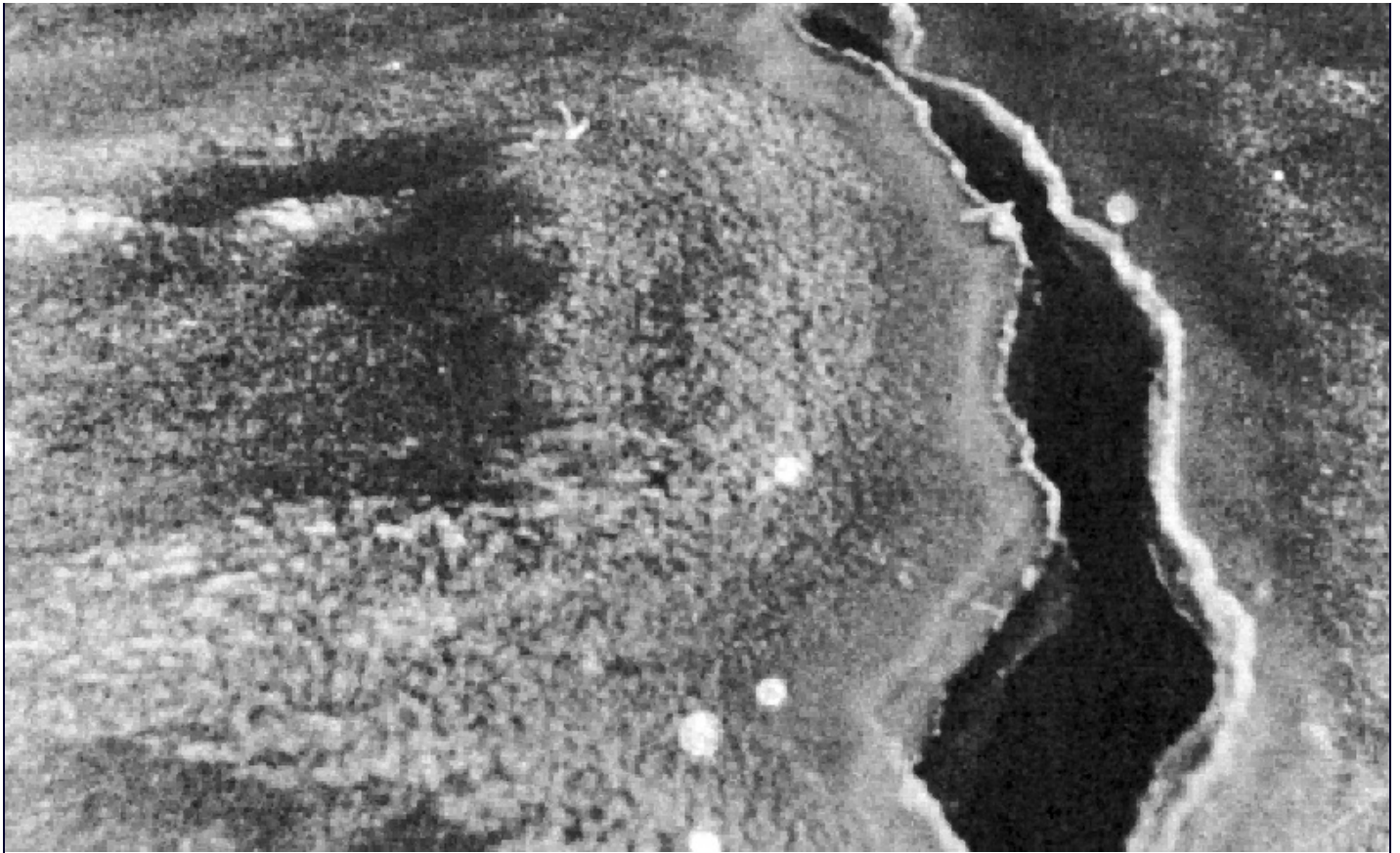
58





200 N.M.Shakirov, USSR
7.1 Fracture (Fracture [fr])





Inst. Low Temperature Science, Japan

7.1 Fracture (Fracture [fr])

60





1800

Meteorological Agency, Japan

7.2 Fracture zone (Zone de fractures [fr])

61



T.Suzuki, Japan

2.1.1 Frazil ice (Frasil [fr])

62



10

Matthias Wietz

8.8 Frost flowers (Frost flowers [fr])

63



200 H.H.Valeur, Denmark
11.3 Frost smoke (Brume d'évaporation [fr])

64



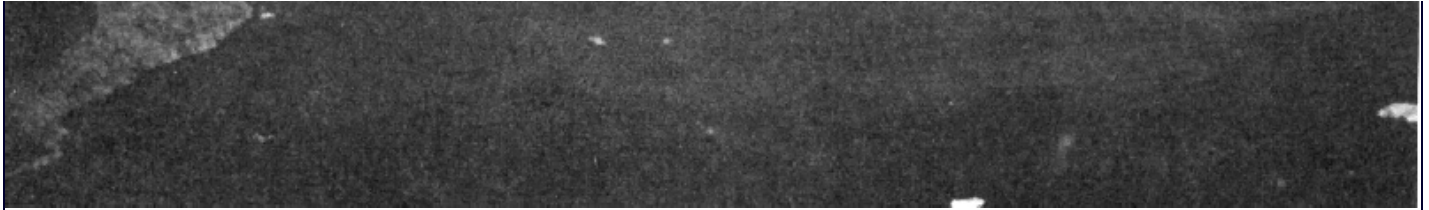


R.Van Humbeck, Canada

11.3 Frost smoke (Brume d'évaporation [fr])

65



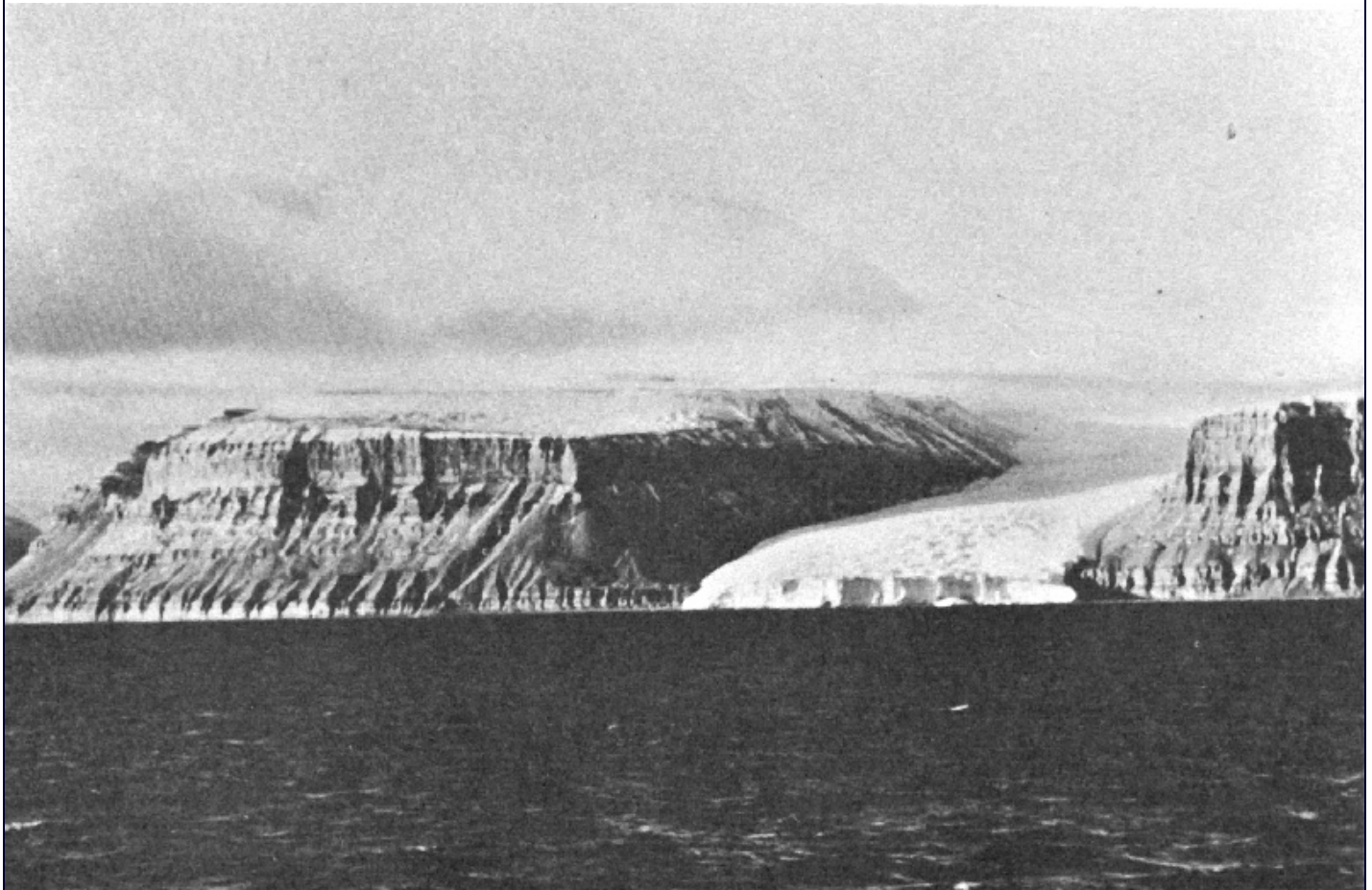


1500

H.H.Valeur, Denmark

10.2.1 Glacier (Glacier [fr])

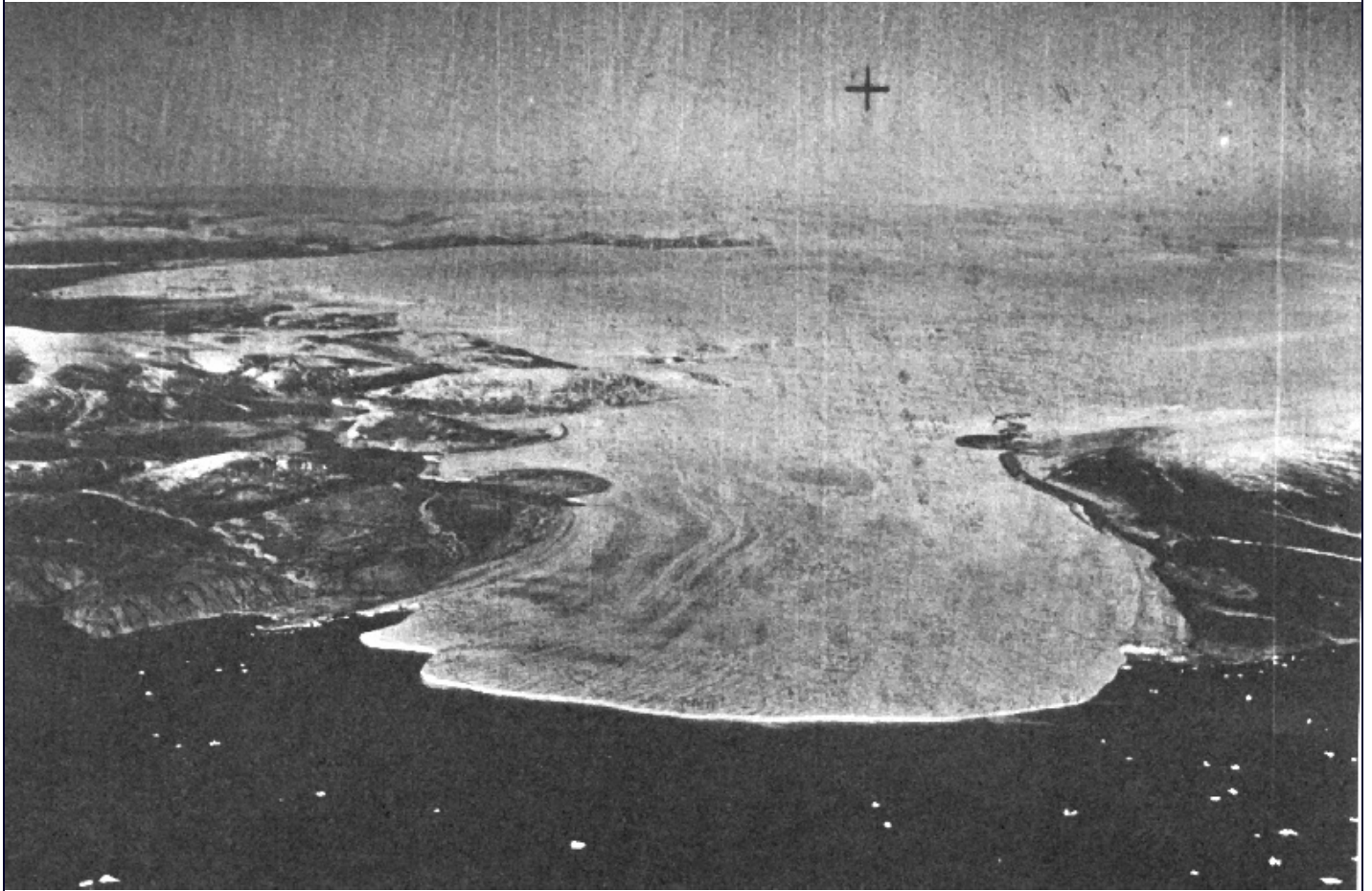
66



Defence Research Boat, Canada

10.2.1 Glacier (Glacier [fr])

67



Geodetic Institute, Denmark Permit A 298/69

10.2.4 Glacier tongue (Langue de glacier [fr])

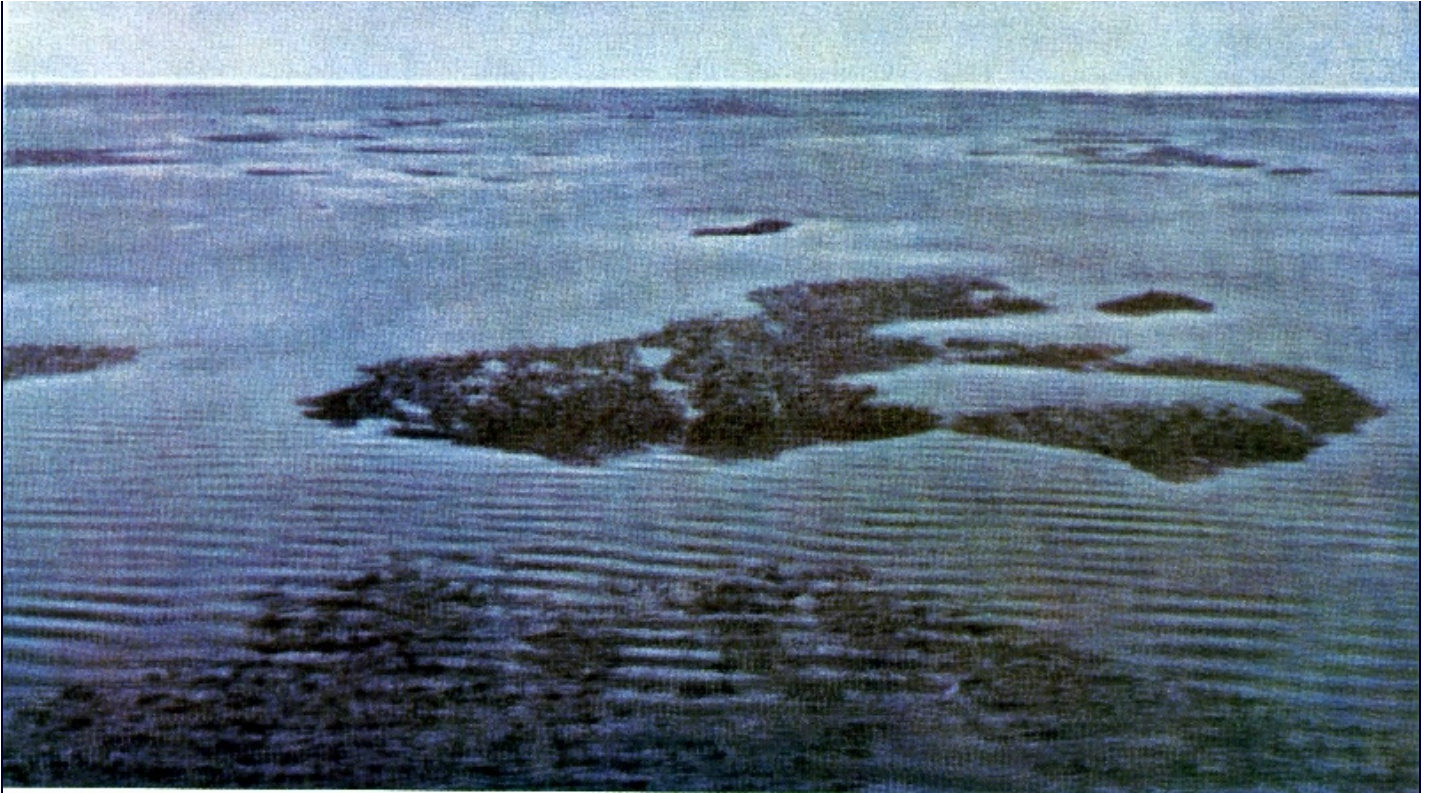
68



600 N.M.Shakirov, USSR
2.1.2 Grease ice (Sorbet [fr])

69

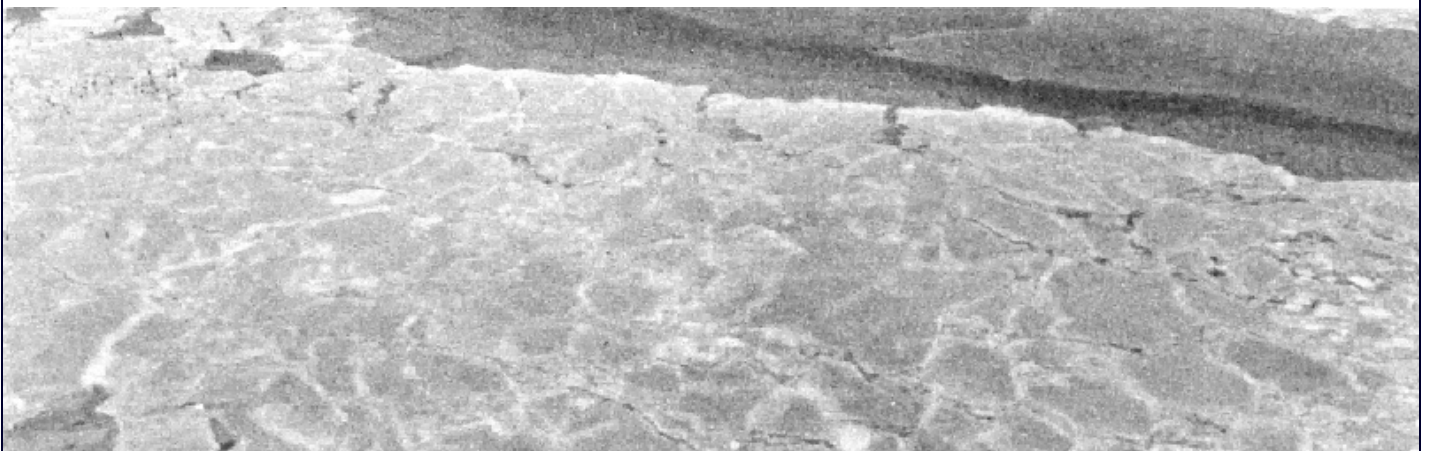


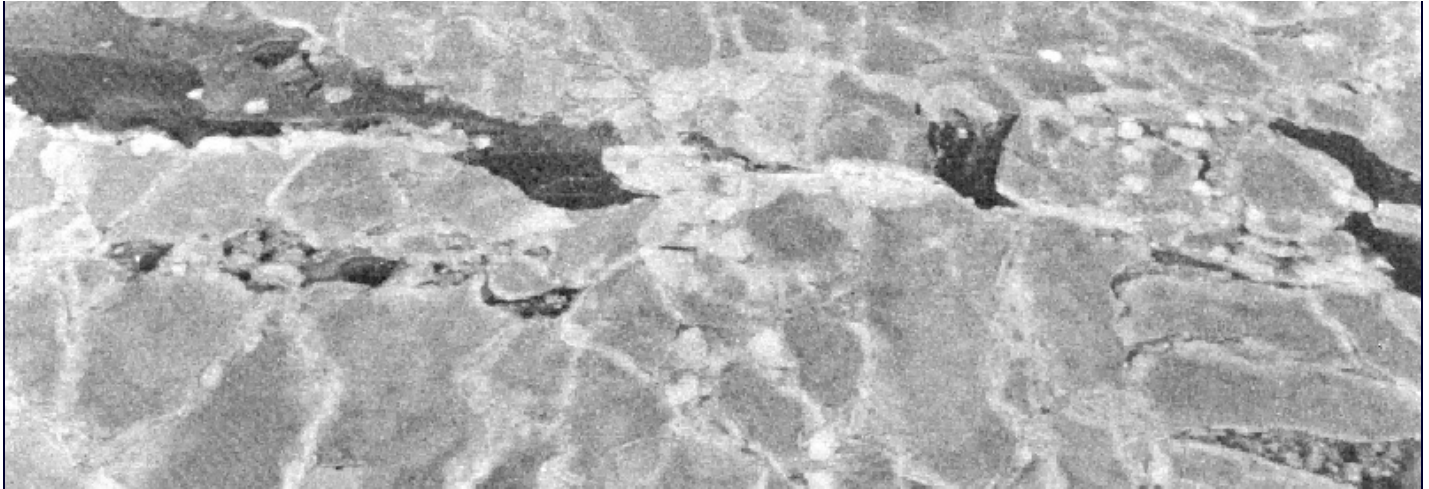


T.C.Pullen,Canada

2.1.2 Grease ice (Sorbet [fr])

70





750
2.4.1 Grey ice (Glace grise [fr])

Armed Forces, Canada





Defence Research Boat, Canada

2.4.1 Grey ice (Glace grise [fr])

72



A.V.Bushuev, USSR

300

2.4.2 Grey-white ice (Glace blanchâtre [fr])

73



2.4.2 Grey-white ice (Glace blanchâtre [fr])

Defence Research Boat, Canada

74



500 Hydrometeorological Inst., USSR
3.4.2 Grounded hummock (Hummock échoué [fr])

75

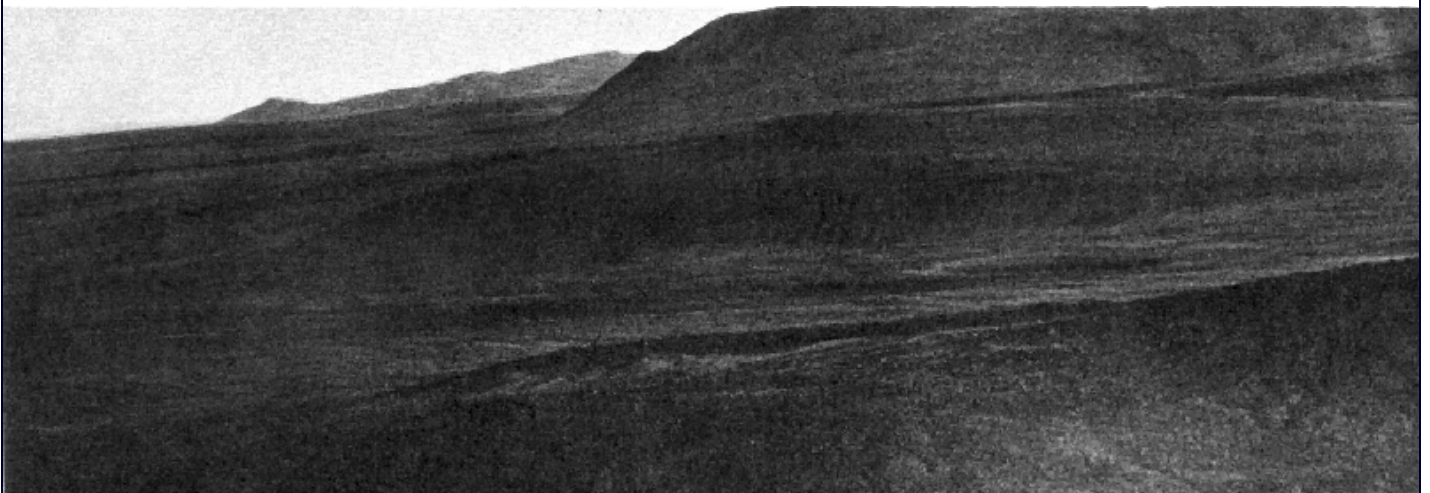


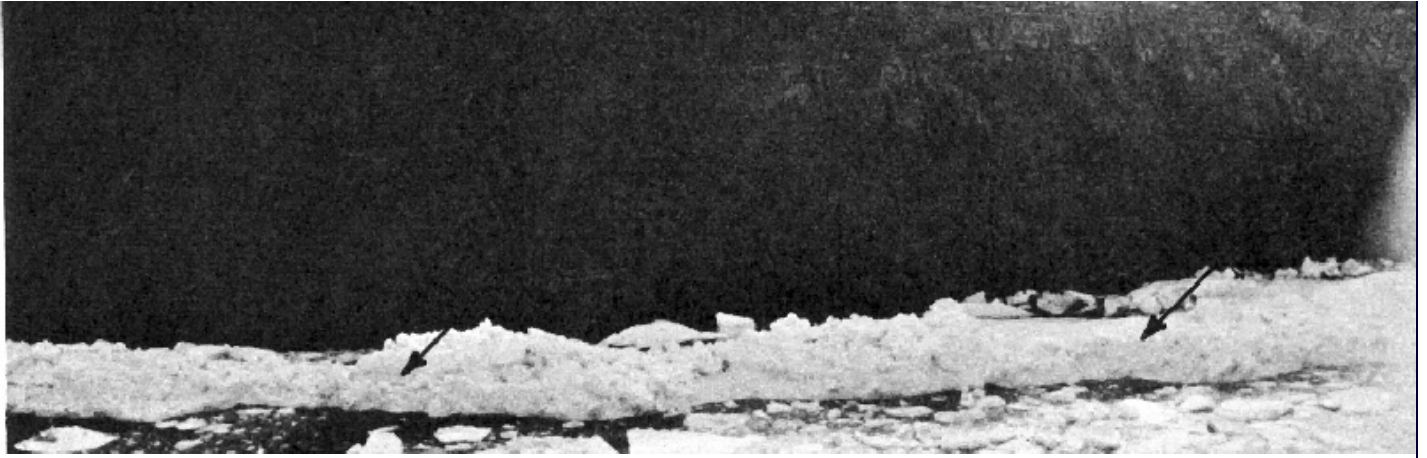


3.4.2 Grounded hummock (Hummock échoué [fr])

USSR

76





100 Defence Research Boat, Canada

3.4 Grounded ice (Glacé échouée [fr])

77





Armed Forces,Canada

3.4 Grounded ice (Glace échouée [fr])

78



U.S.Coast Guard

10.4.5 Growler (Bourguignon [fr])

79



10.4.5 Growler (Bourguignon [fr])

R.Van Humbeck, Canada

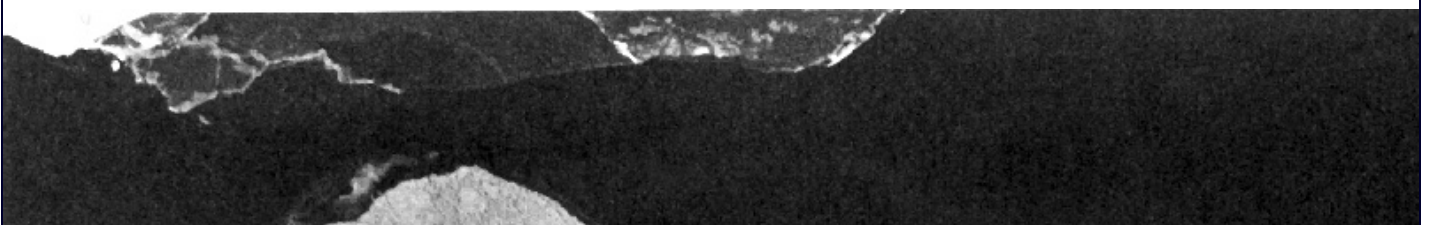
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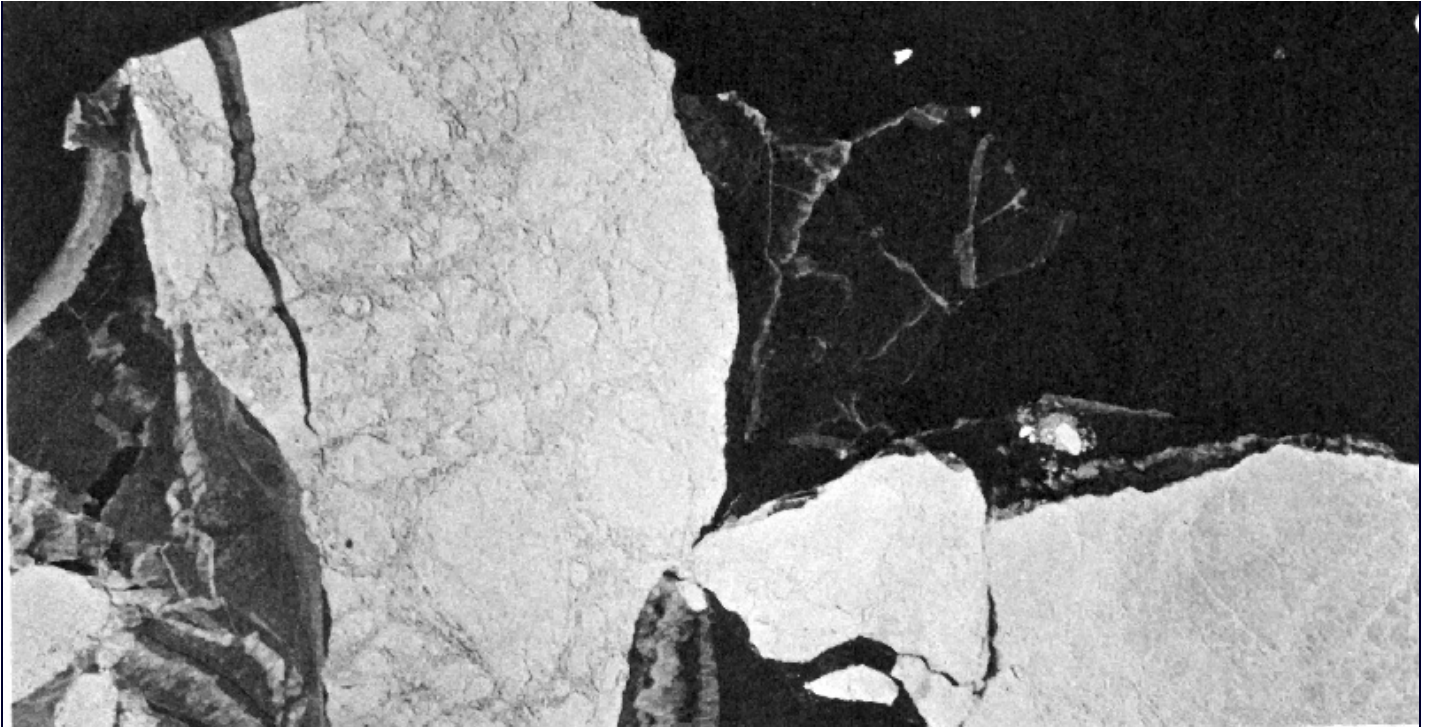


Y.Y.Gakkel, USSR

11.2 Ice blink (Halo glaciaire [fr])

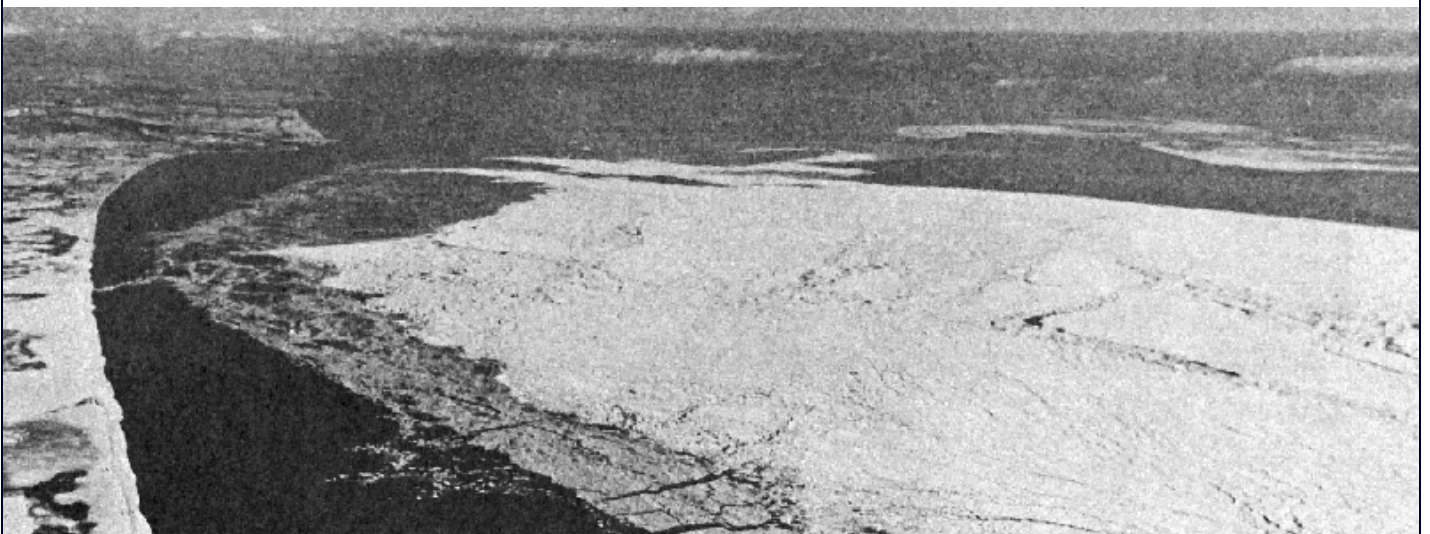
81

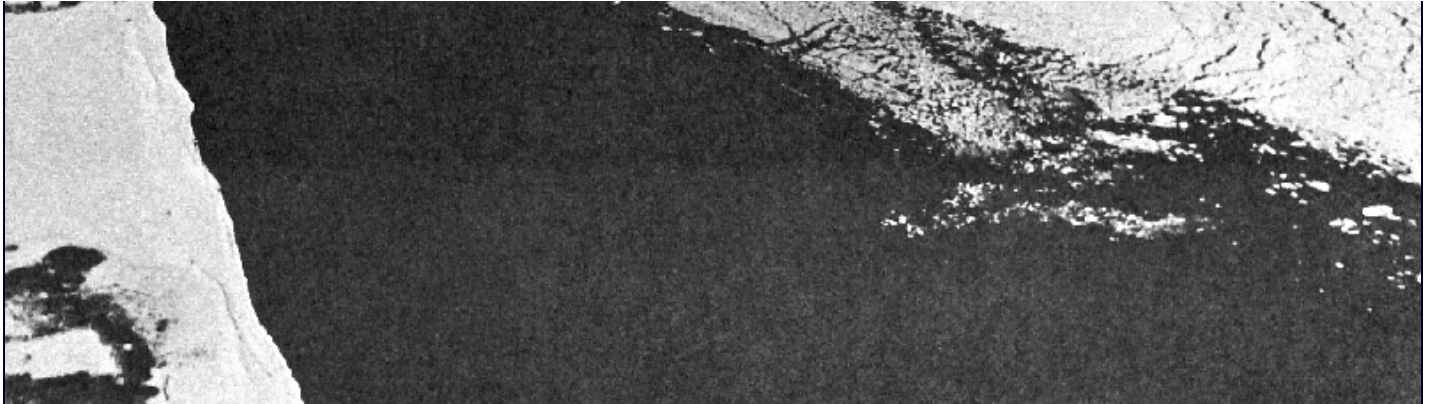




500 **4.3.5** Ice breccia (Mosaique de glace [fr]) USSR

82



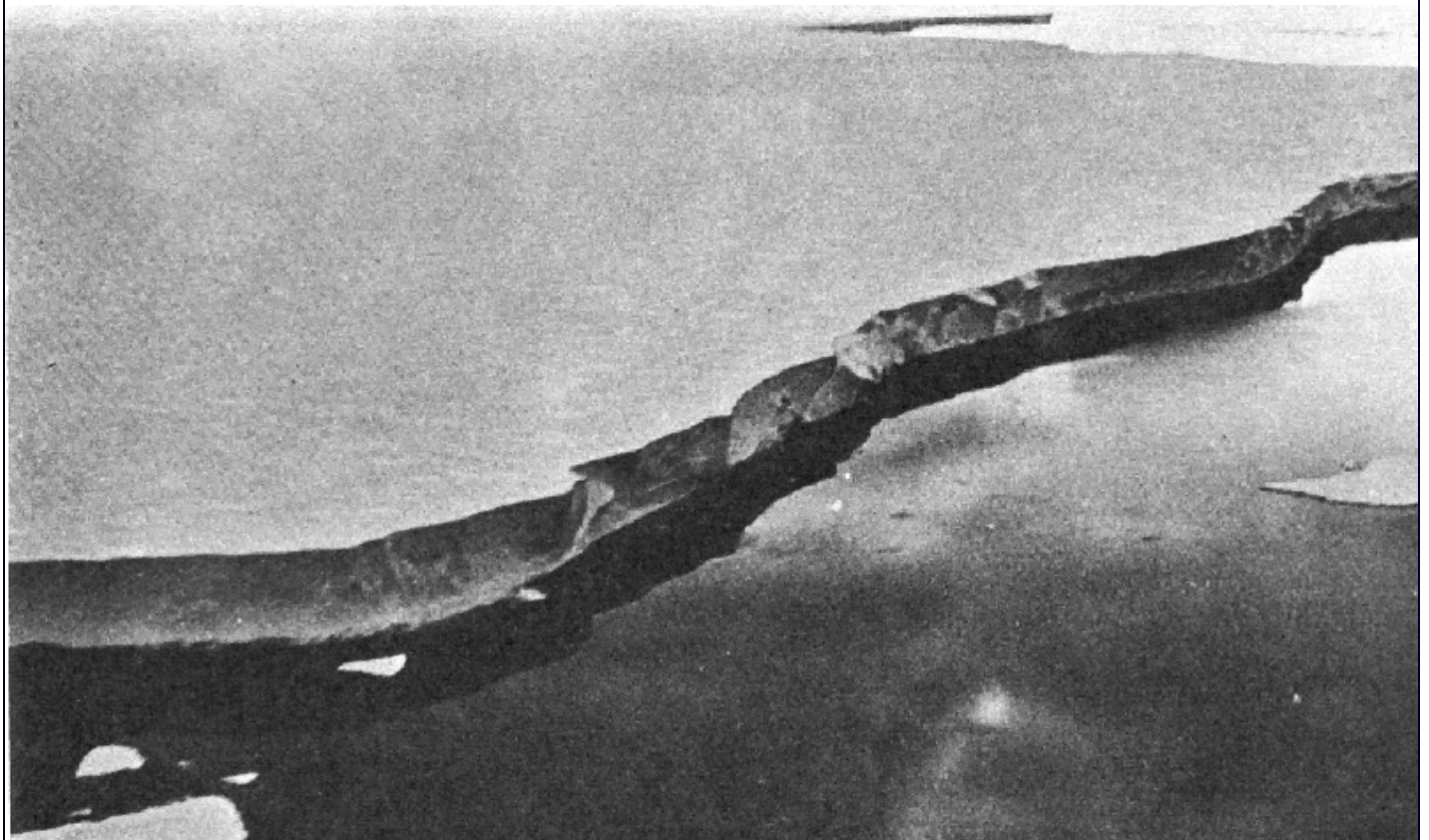


1800

Hakodate Marine Observatory(JMA), Japan

4.4.1 Ice field (Champ de glace [fr])

83

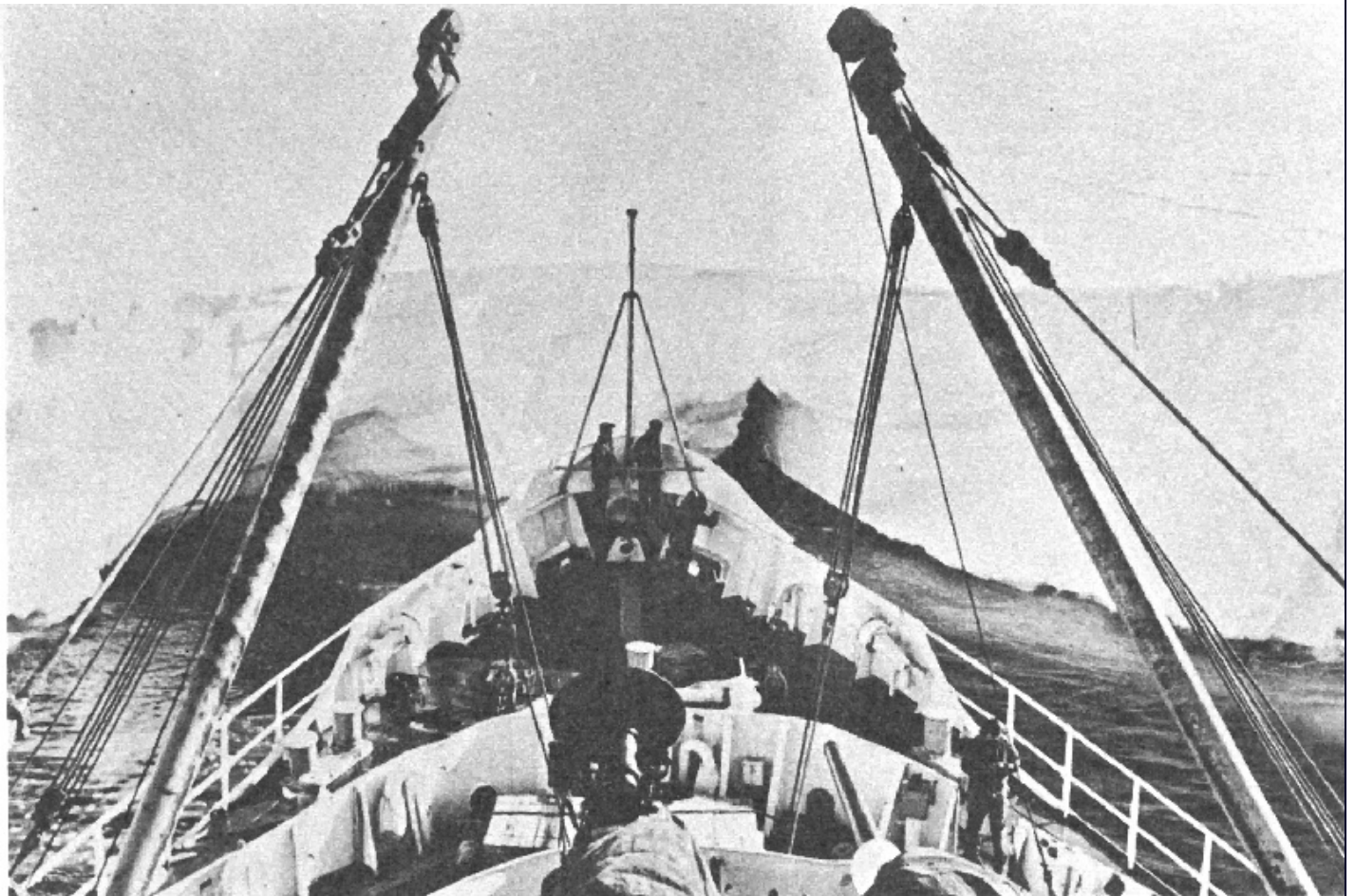




Antarctic Inst., Argentina

10.3.1 Ice front (Falaise de glace [fr])

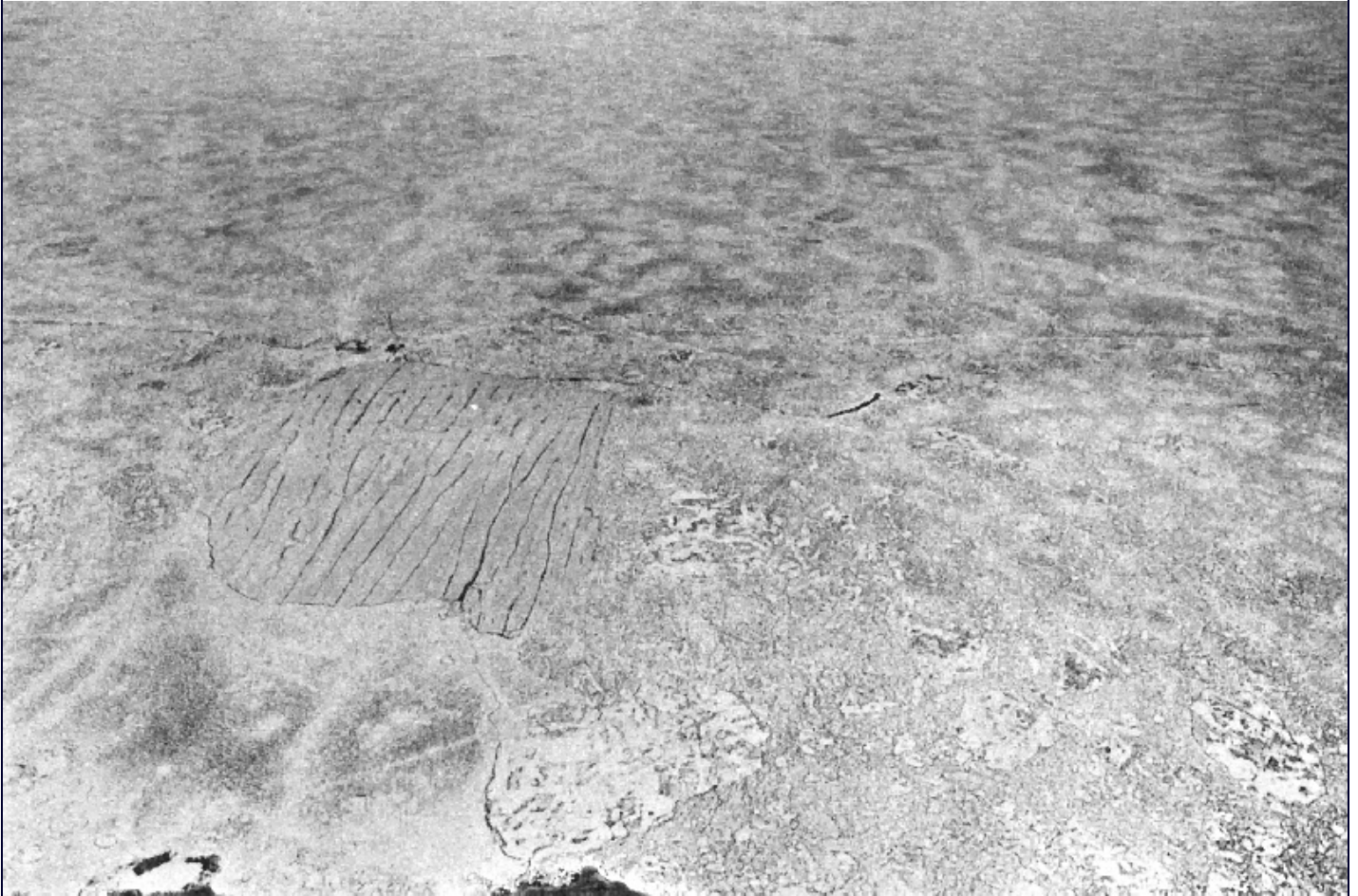
84



U.S.Coast Guard

10.3.1 Ice front (Falaise de glace [fr])

85

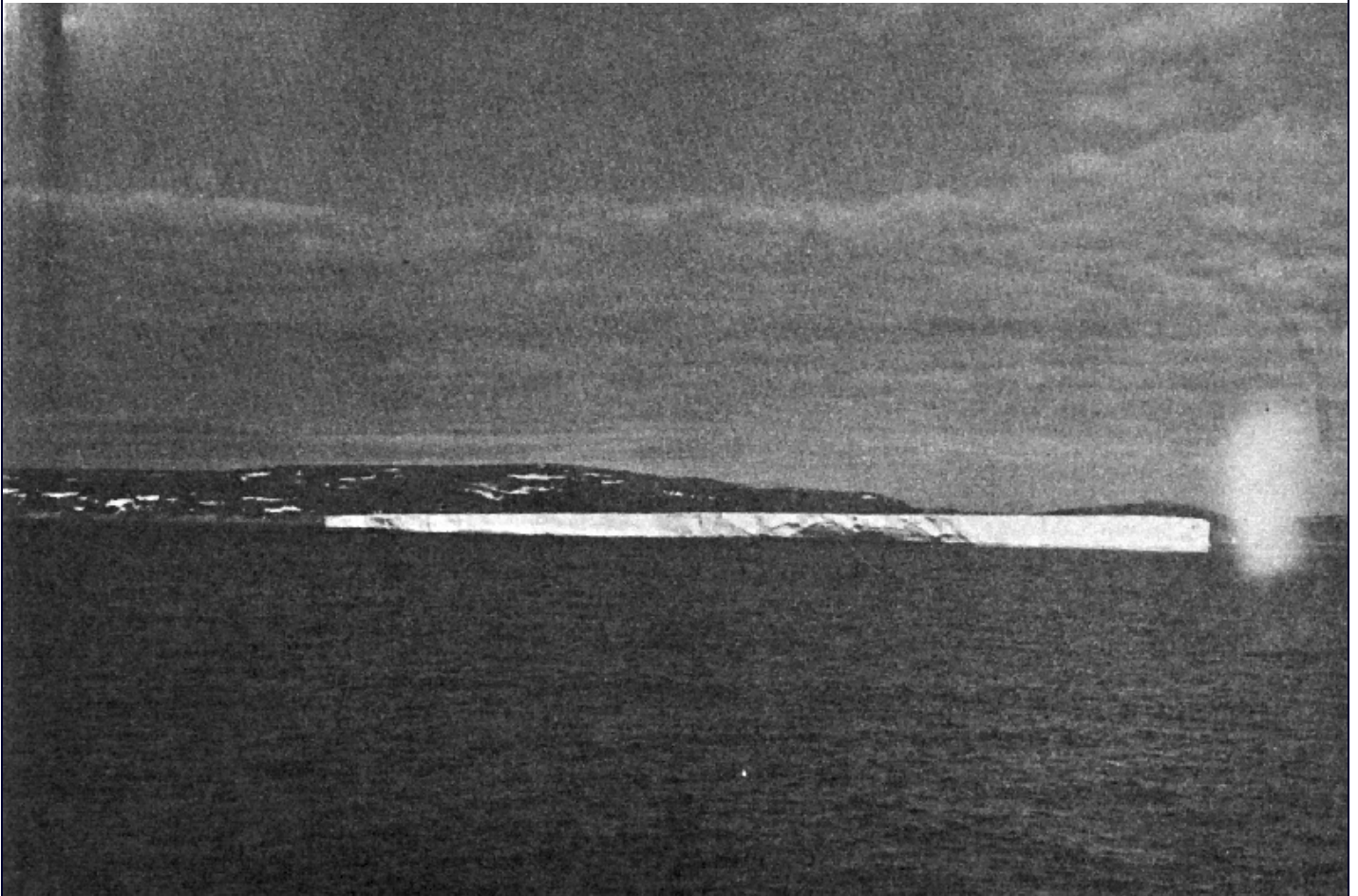


6000

Armed Forces,Canada

10.4.3 Ice island (Ile de glace [fr])

86

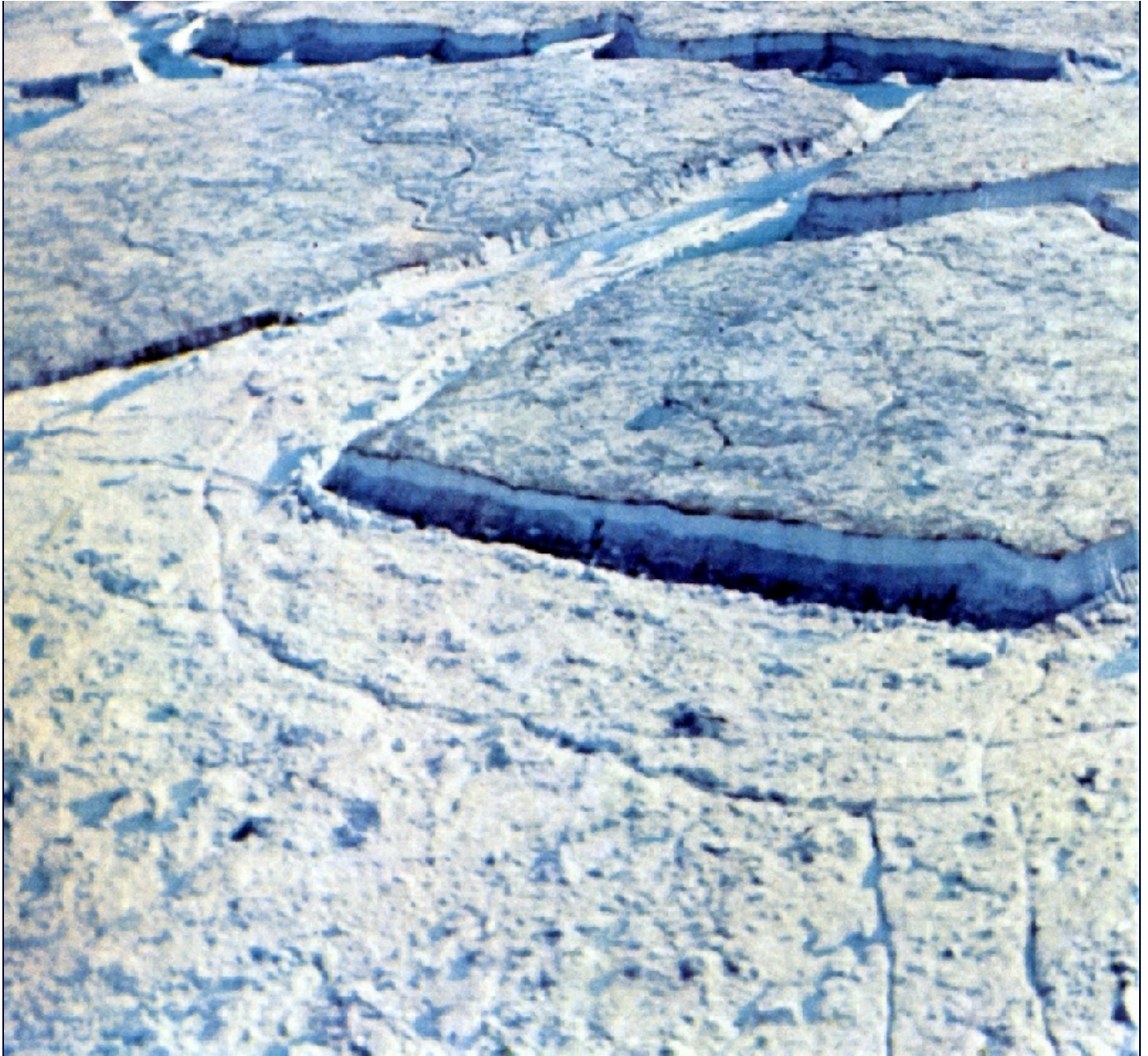


R.H.W.Hill, Canada

10.4.3 Ice island (Ile de glace [fr])

87





300 R.H.W.Hill, Canada
10.4.3 Ice island (Ile de glace [fr])



88

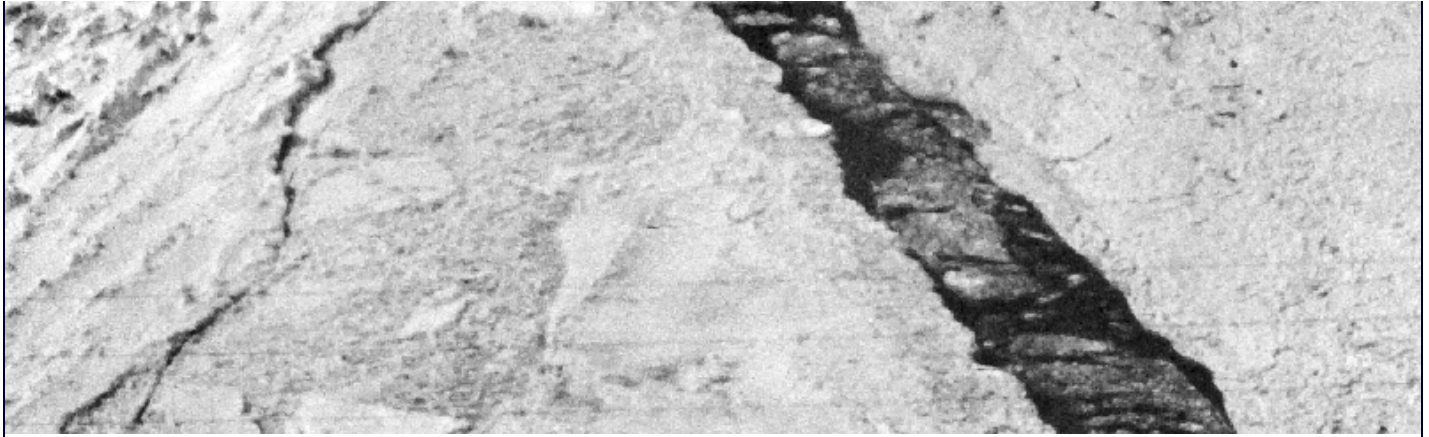


10.4.3 Ice island (Ile de glace [fr])

R.Van Humbeck, Canada

89





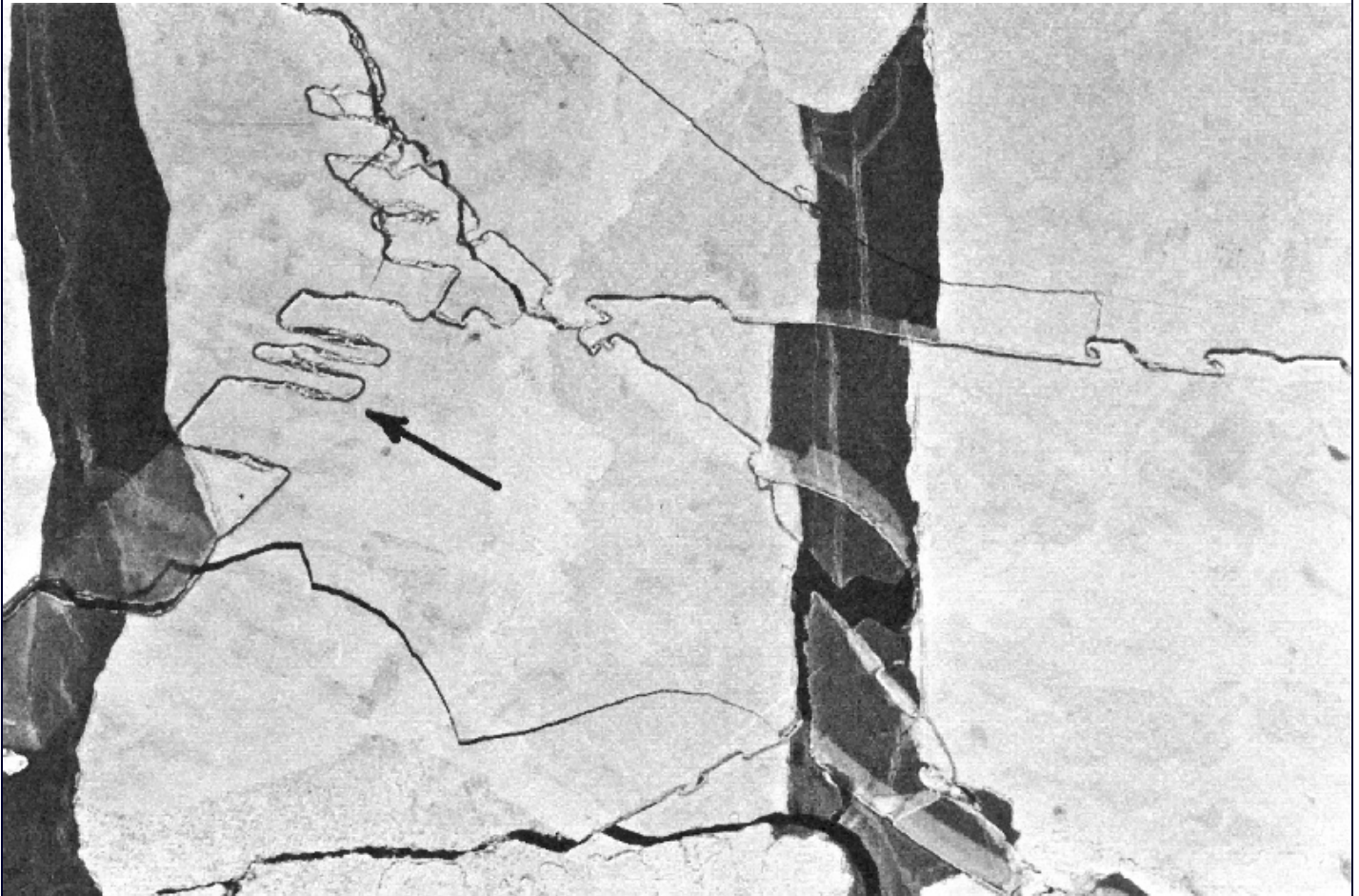
300
4.4.7 Ice jam (Embâcle [fr]) Armed Forces, Canada

90



1800
4.4.1.4 Ice patch (Banc de glace [fr]) H.H.Valeur, Denmark

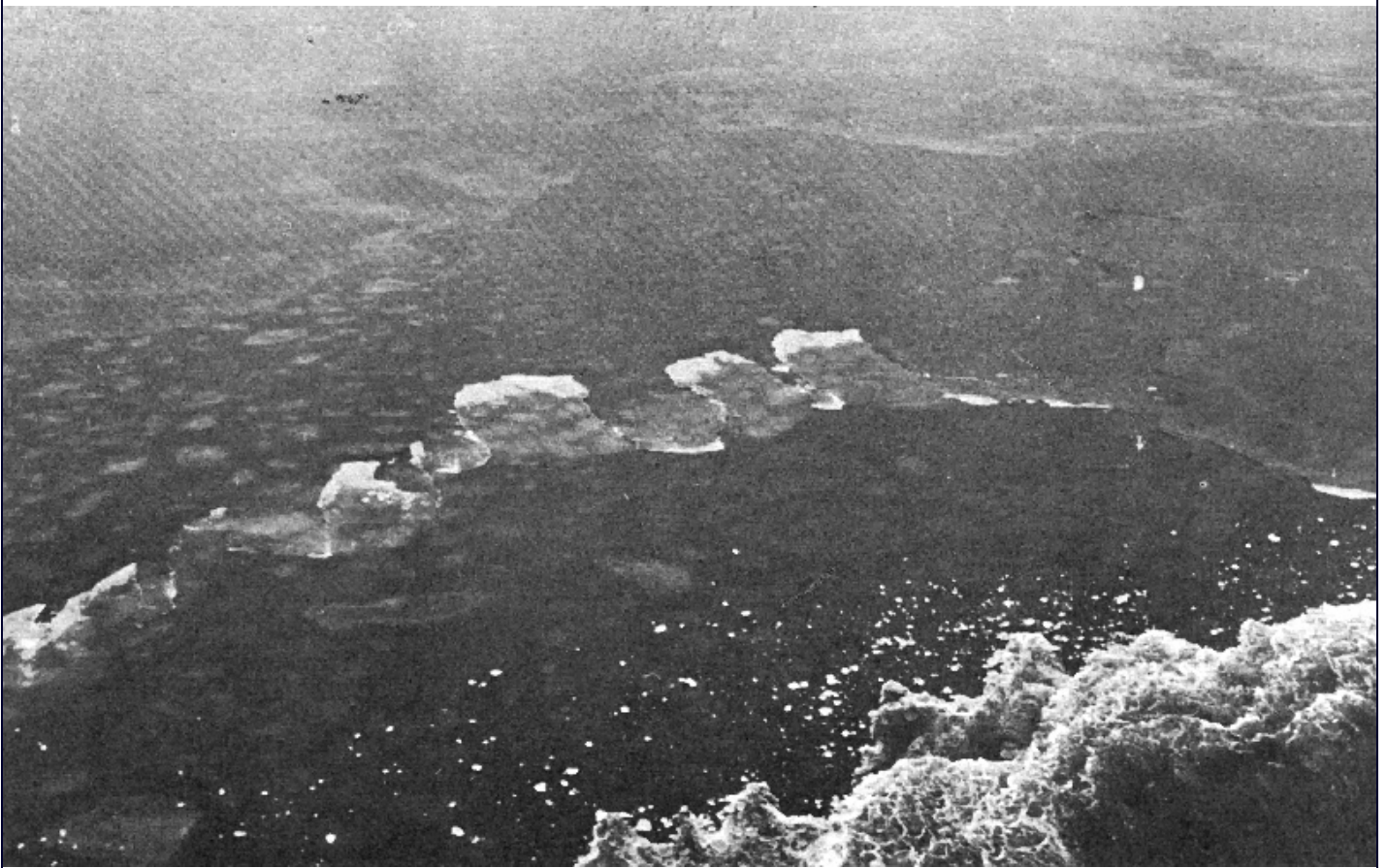
91



8.2.1.1 Ice rafting concentration (Ice rafting concentration [fr])

USSR

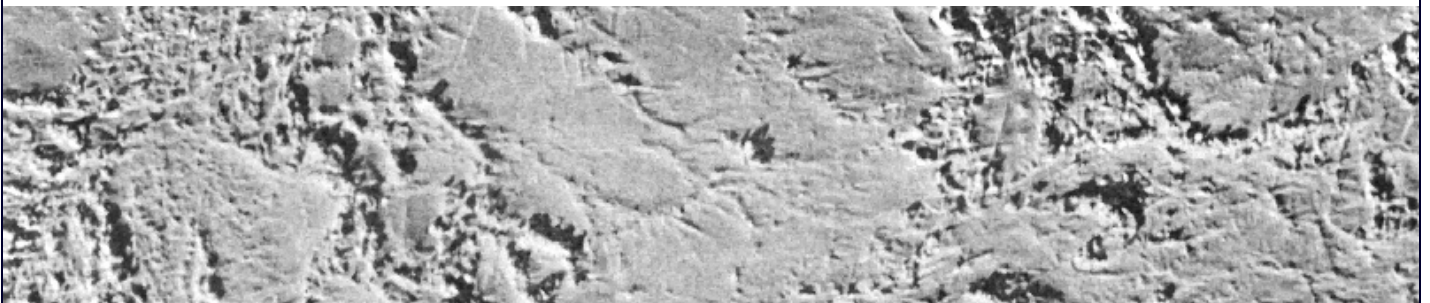
92

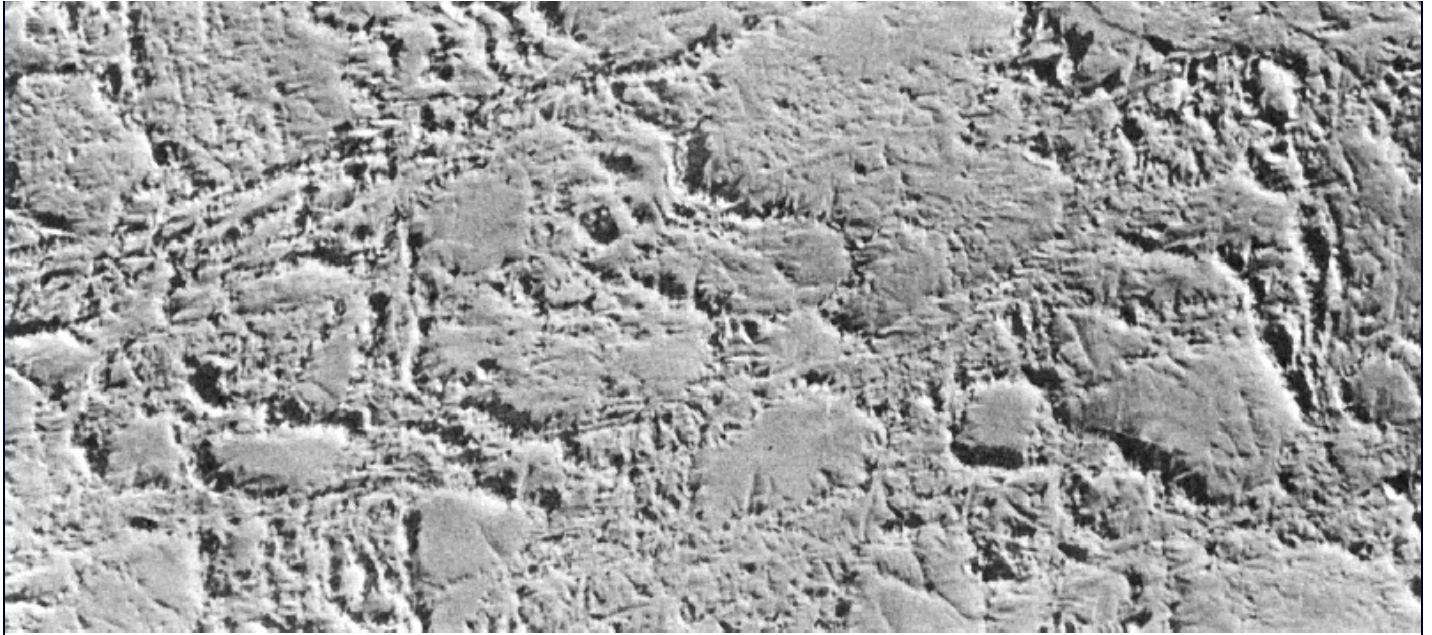


Defence Research Boat, Canada

8.2.1.1 Ice rafting concentration (Ice rafting concentration [fr])

93



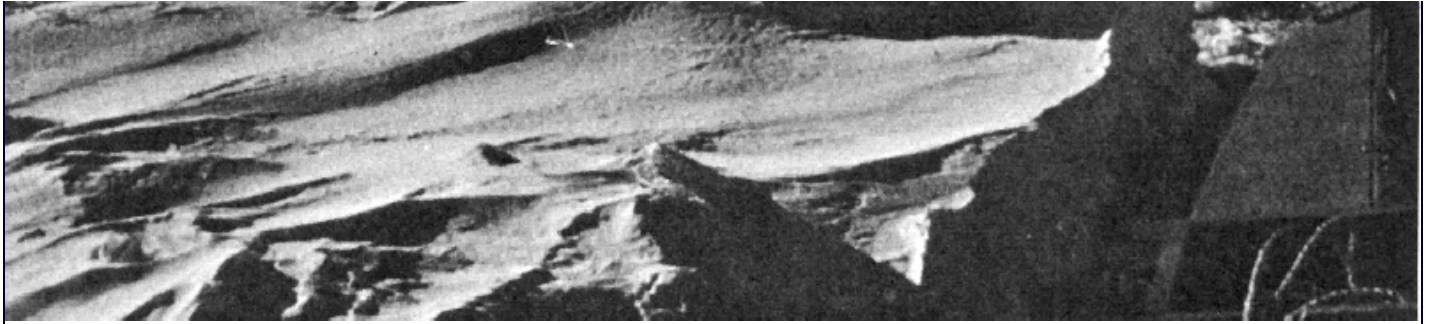


USSR

8.2.3.1 Ice ridge concentration (Ice ridge concentration [fr])

94

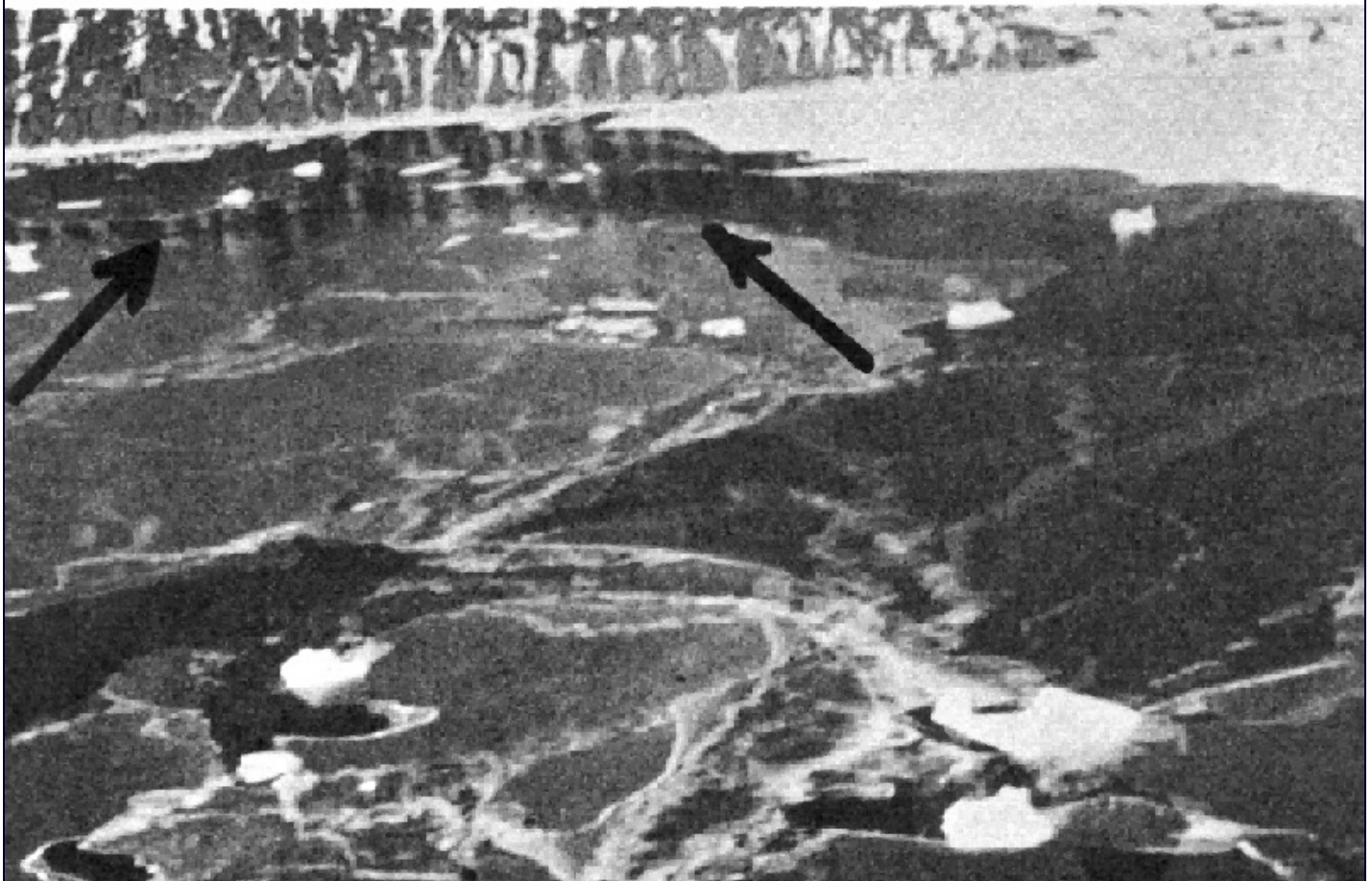




Meteorological Agency, Japan

8.2.3.1 Ice ridge concentration (Ice ridge concentration [fr])

95





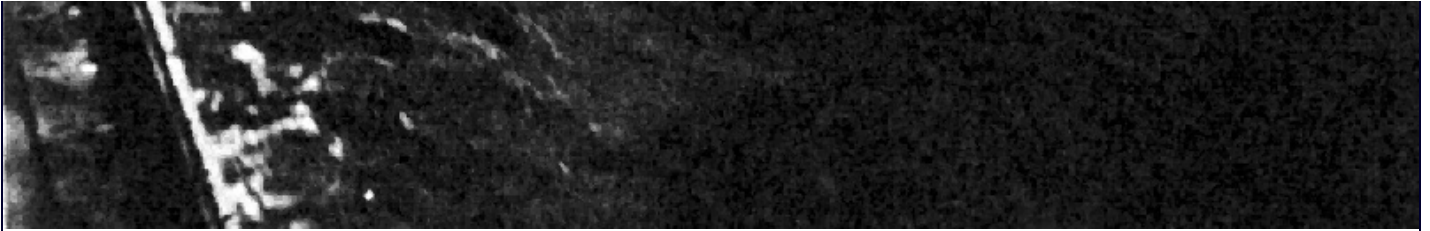
1800

H.H.Valeur, Denmark

2.2.3 Ice rind (Glacé vitrée [fr])

96



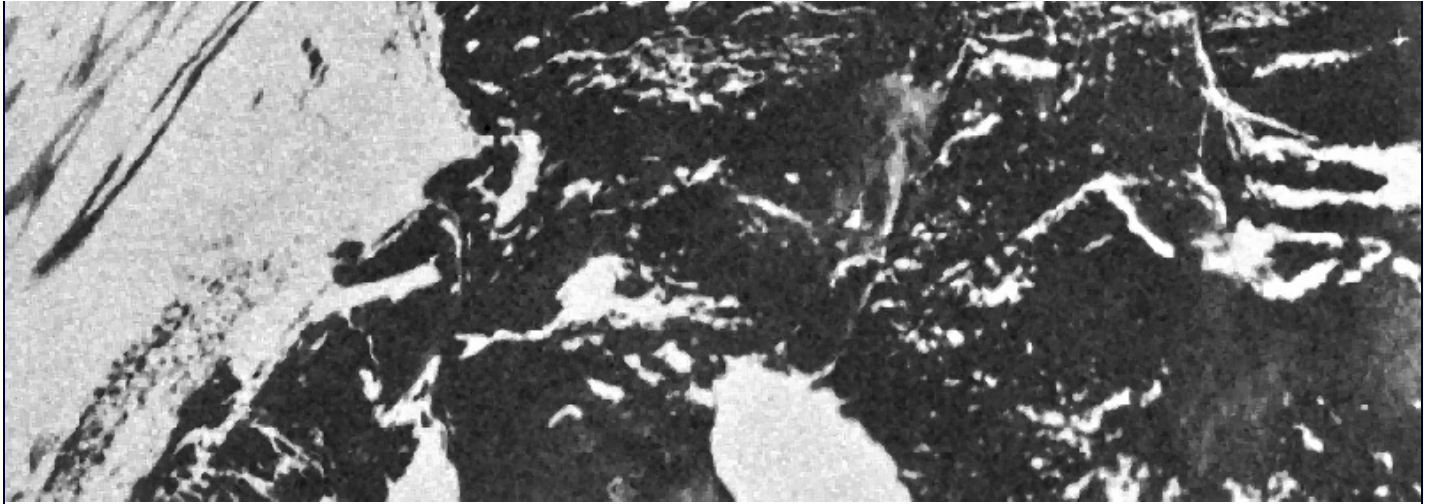


T.Armstrong, Gt.Britain

2.2.3 Ice rind (Glacé vitrée [fr])

97





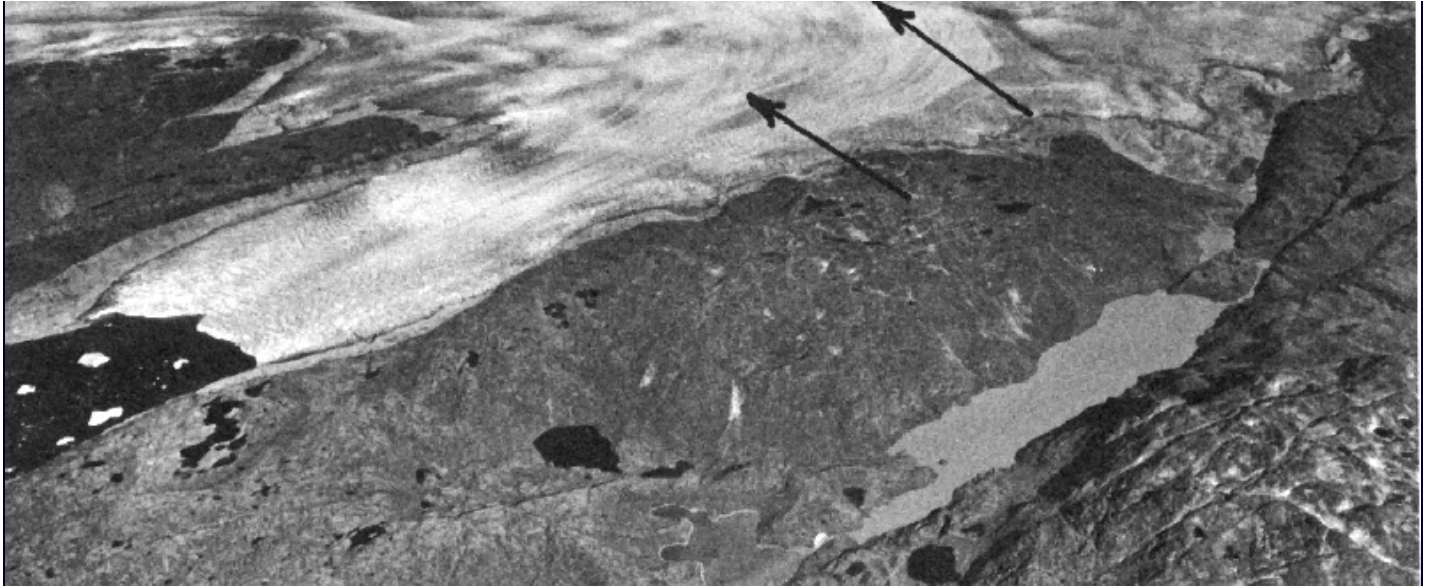
3000

U.S.Navy

10.3 Ice shelf (Plateau de glace [fr])

98





Geodetic Institute, Denmark Permit A 298/69

10.2.3 Ice stream (Coulée de glace [fr])

99





10.2.2 Ice wall (Mur de glace [fr])

R.N.Panzarini, Argentina

100

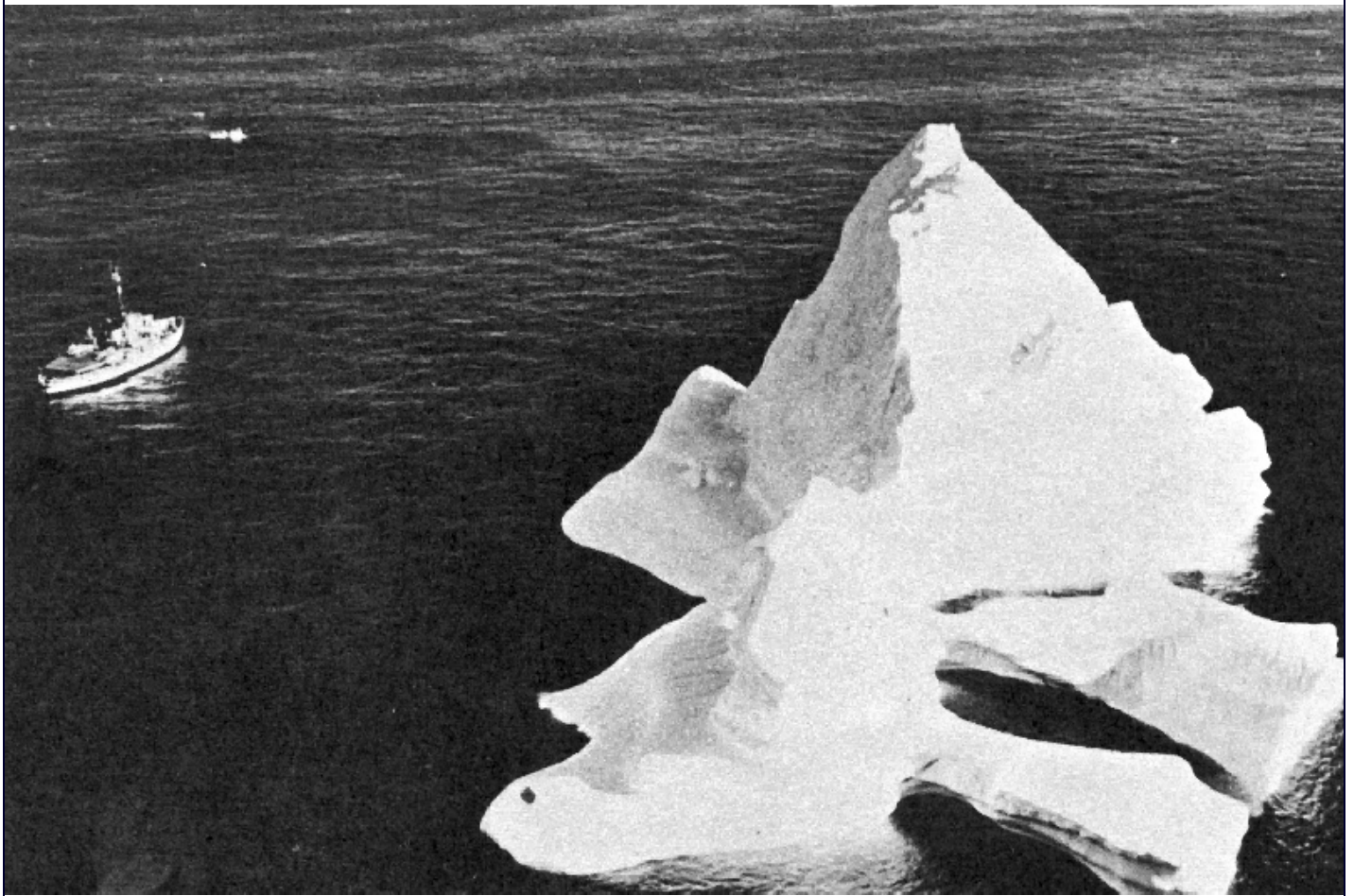


550

Armed Forces.Canada

12.2 Ice-bound (Bloqué par les glaces [fr])

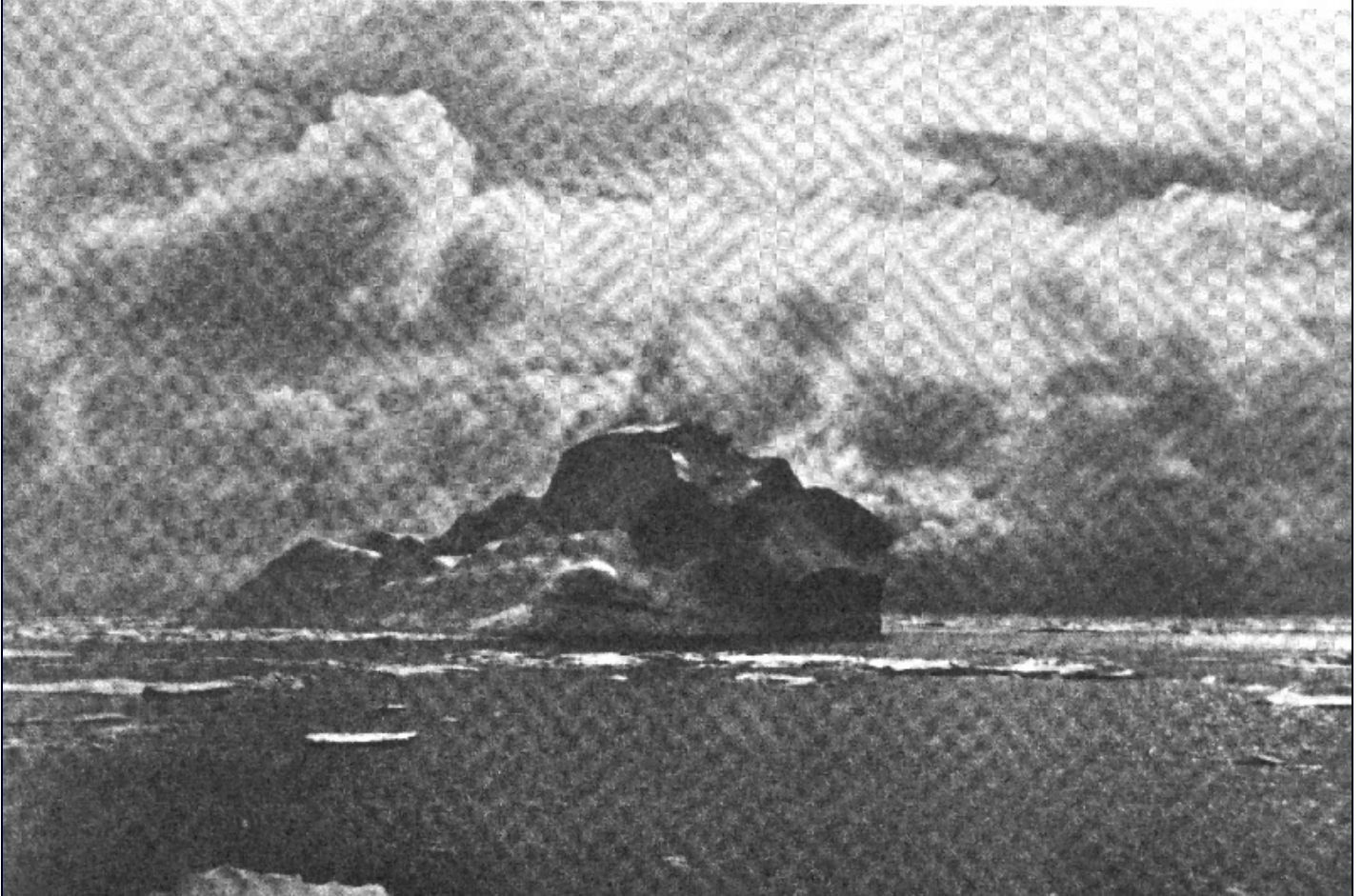
101



U.S.Coast Guard

10.4.2 Iceberg (Iceberg [fr])

102



National Inst. Of Oceanography, Gt.Britain

10.4.2 Iceberg (Iceberg [fr])

103



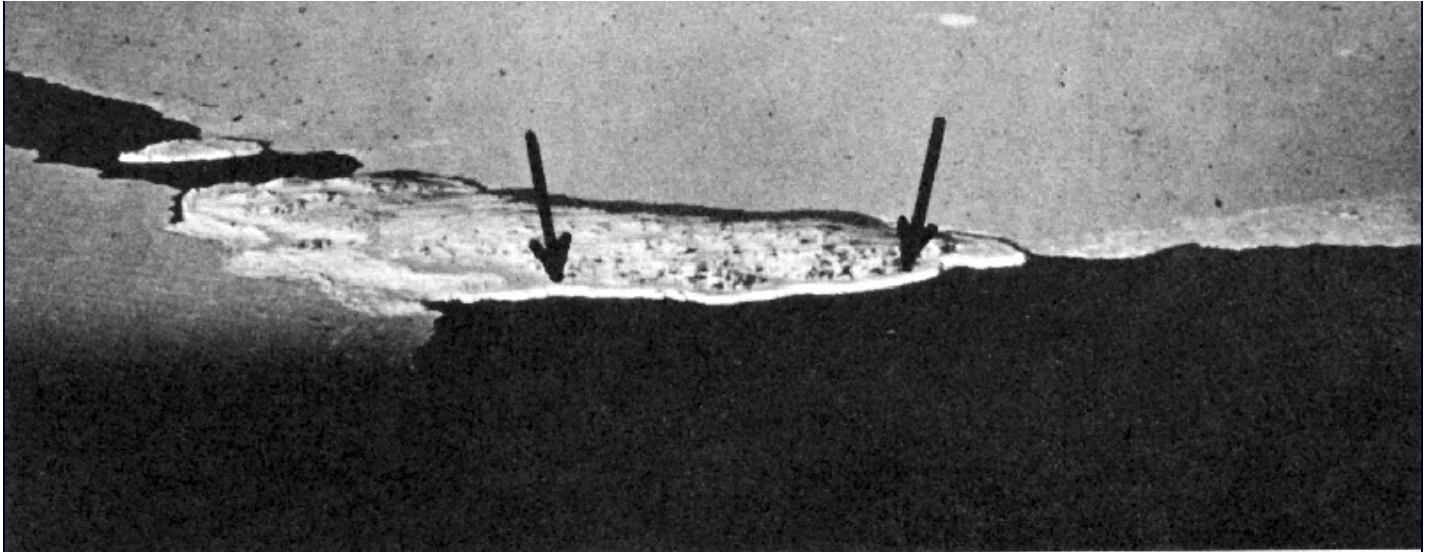
1000

J.A.Weaver,Canada

10.4.2.3 Iceberg tongue (Champ d'icebergs échoués [fr])

104





H.H.Valeur, Denmark

3.2 Icefoot (Banquette côtière [fr])

105

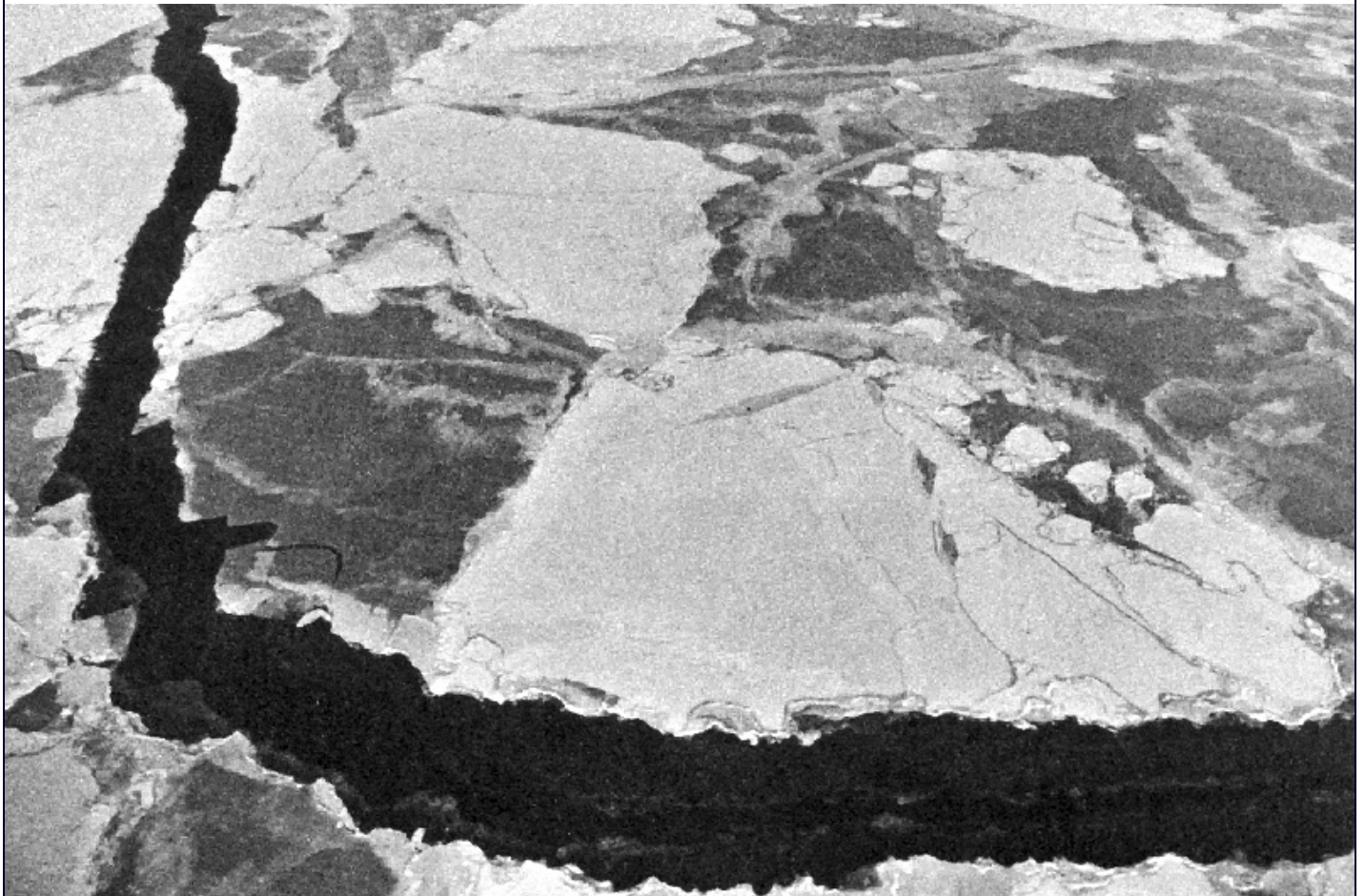




3.2 Icefoot (Banquette côtière [fr])

H.H.Valeur, Denmark

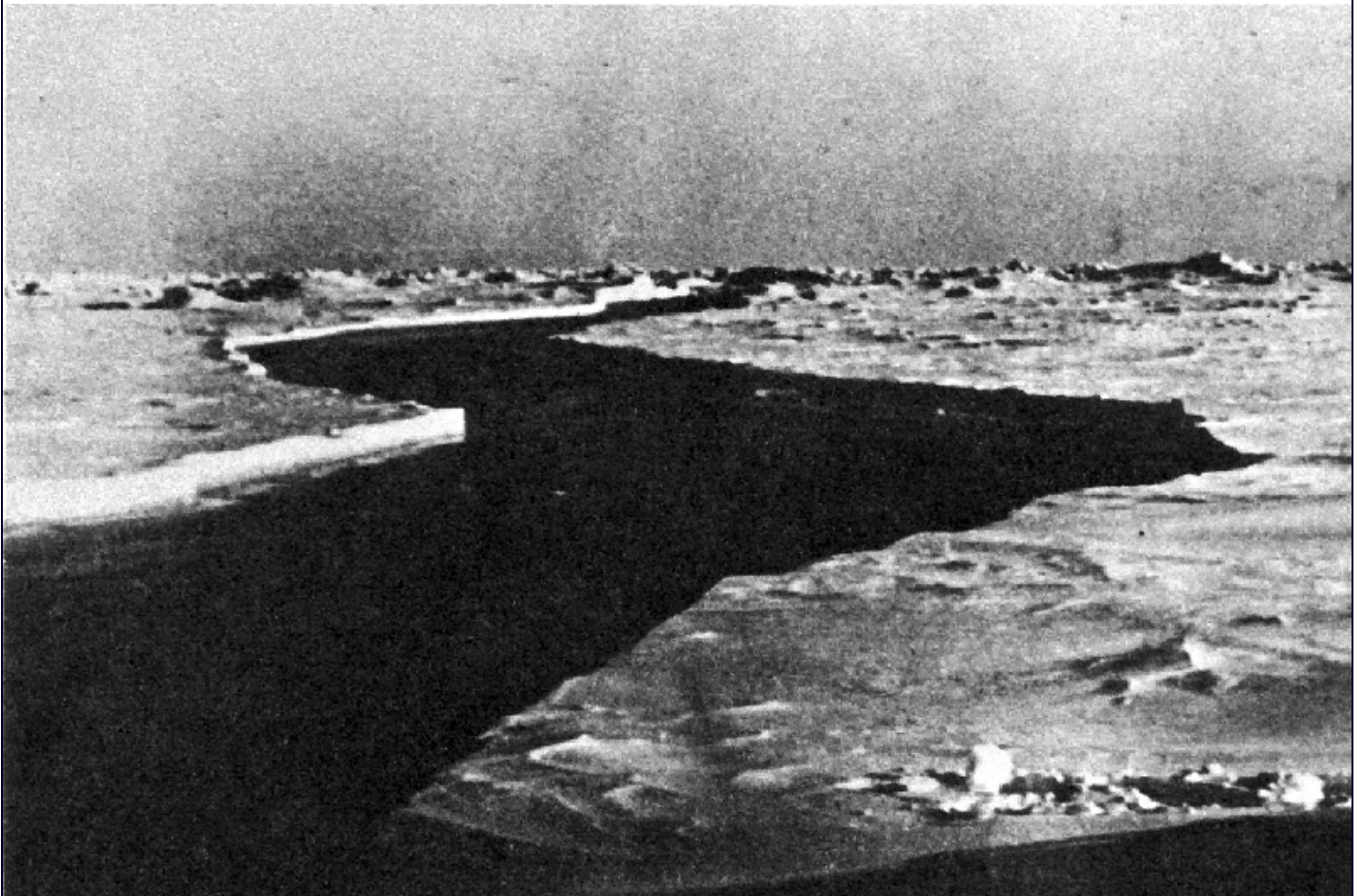
106



7.3 Lead (Chenal [fr])

Armed Forces,Canada

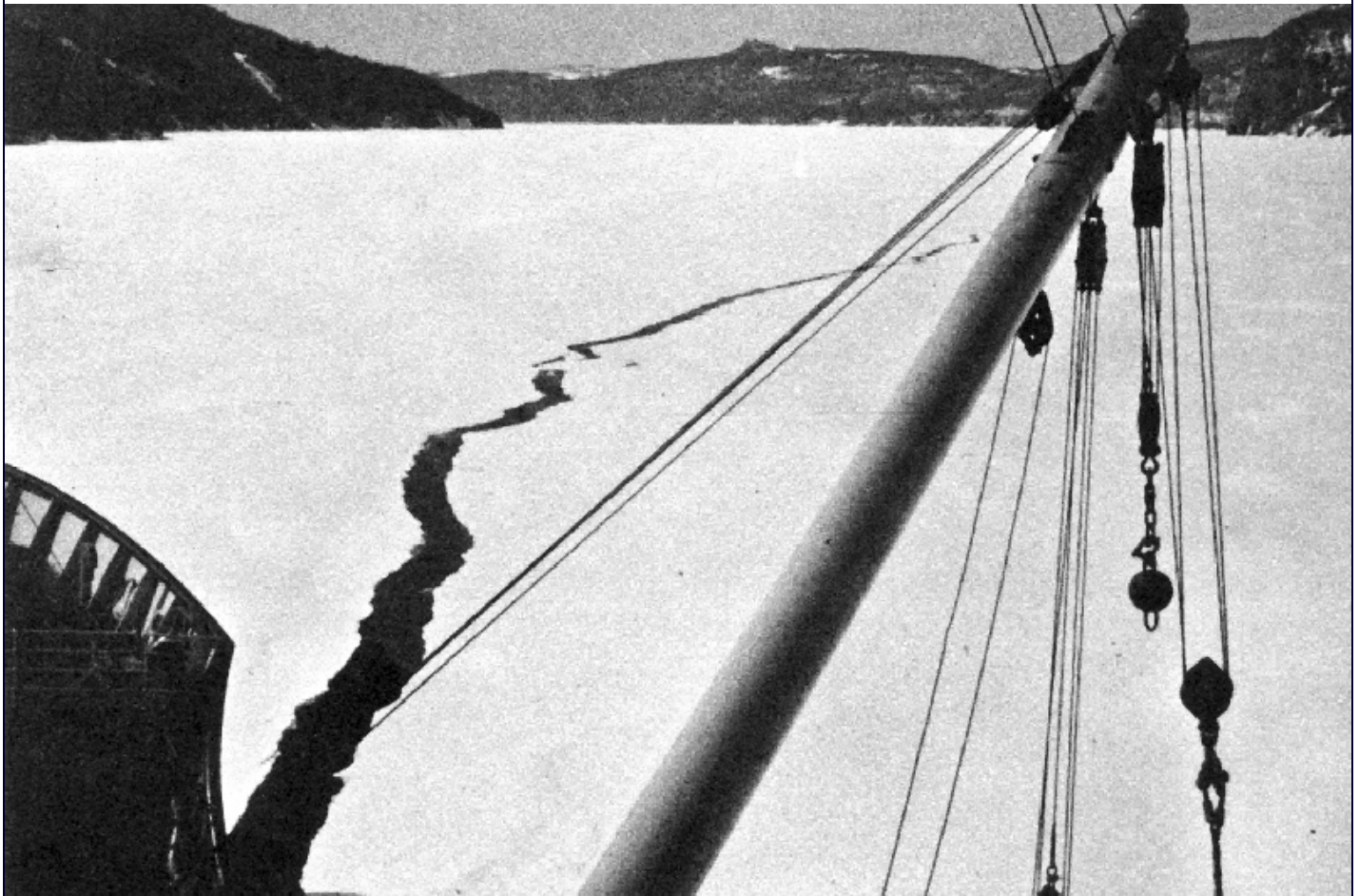
107



N.M.Shakirov, USSR

7.3 Lead (Chenal [fr])

108



J.S.Fabricsius, Denmark

8.1 Level ice (Glace plane [fr])

109

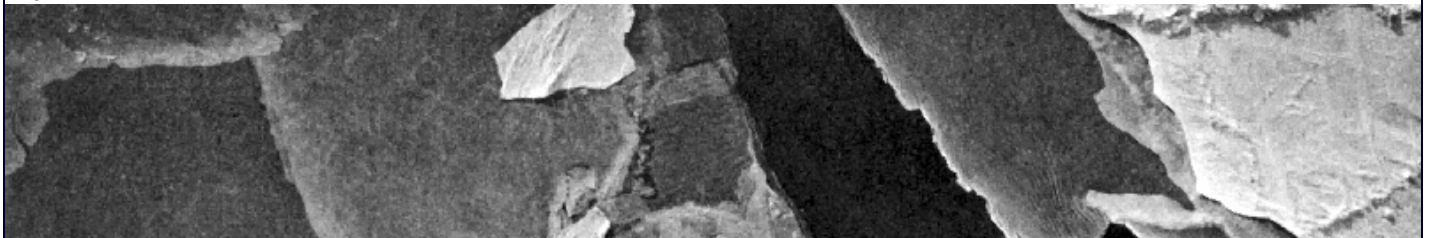


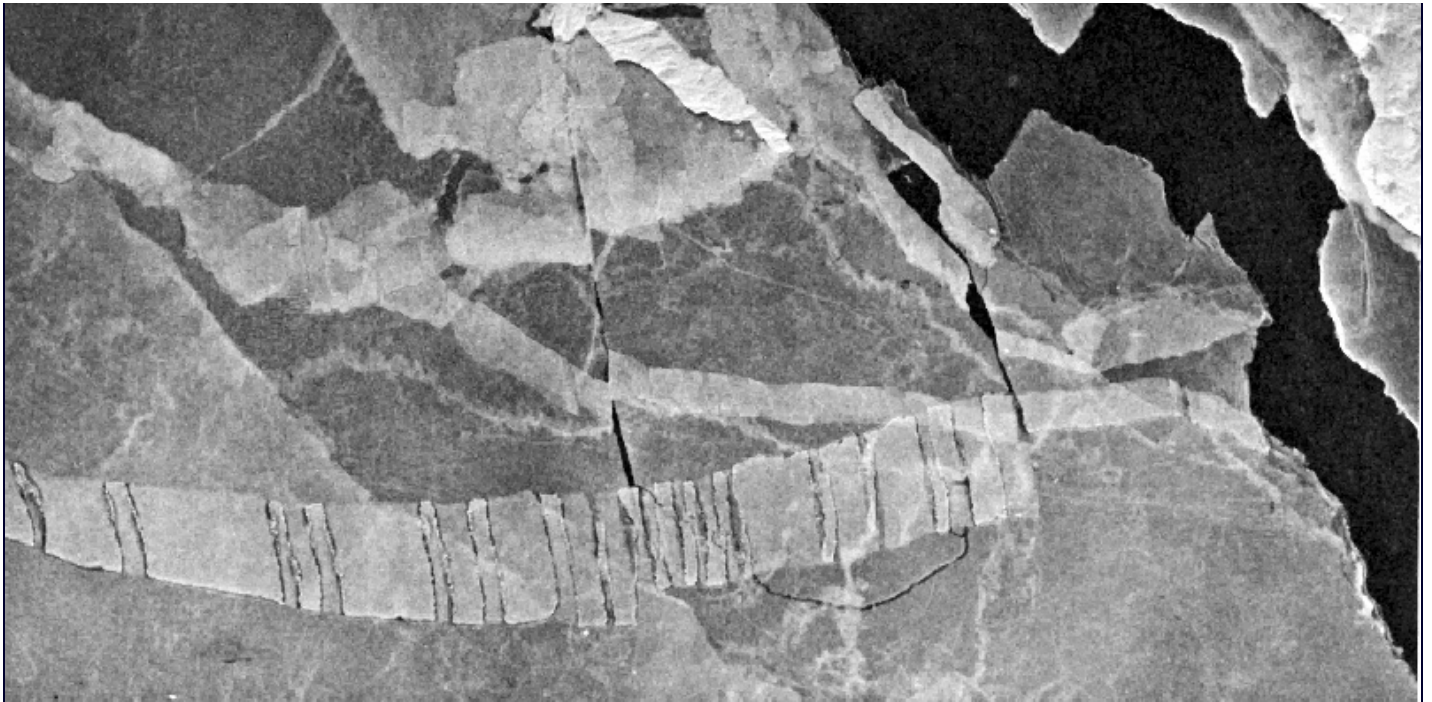


H.H.Valeur, Denmark

8.1 Level ice (Glacé plane [fr])

110

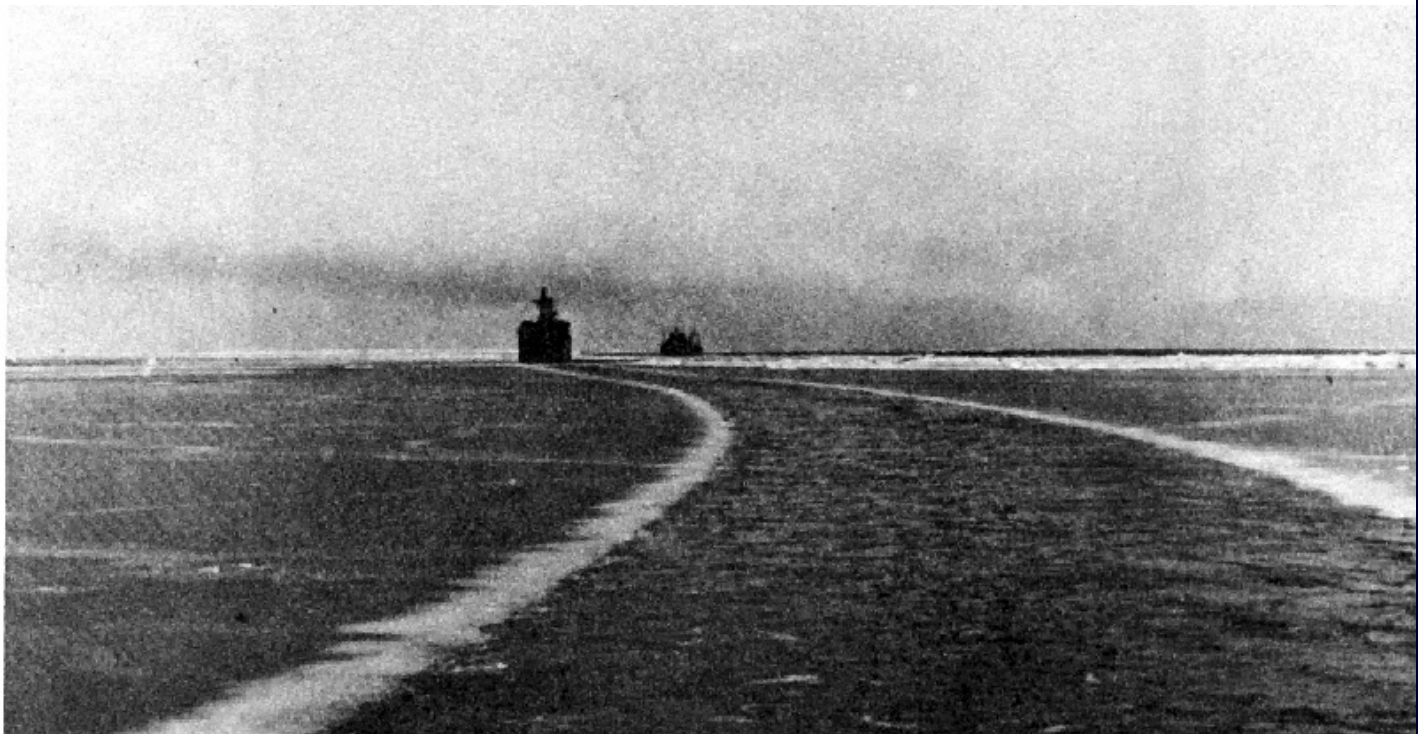




N.M.Shakirov, USSR

2.2.2 Light nilas (Nilas clair [fr])

111





2.2.2 Light nilas (Nilas clair [fr])

V.Yanike, USSR

112

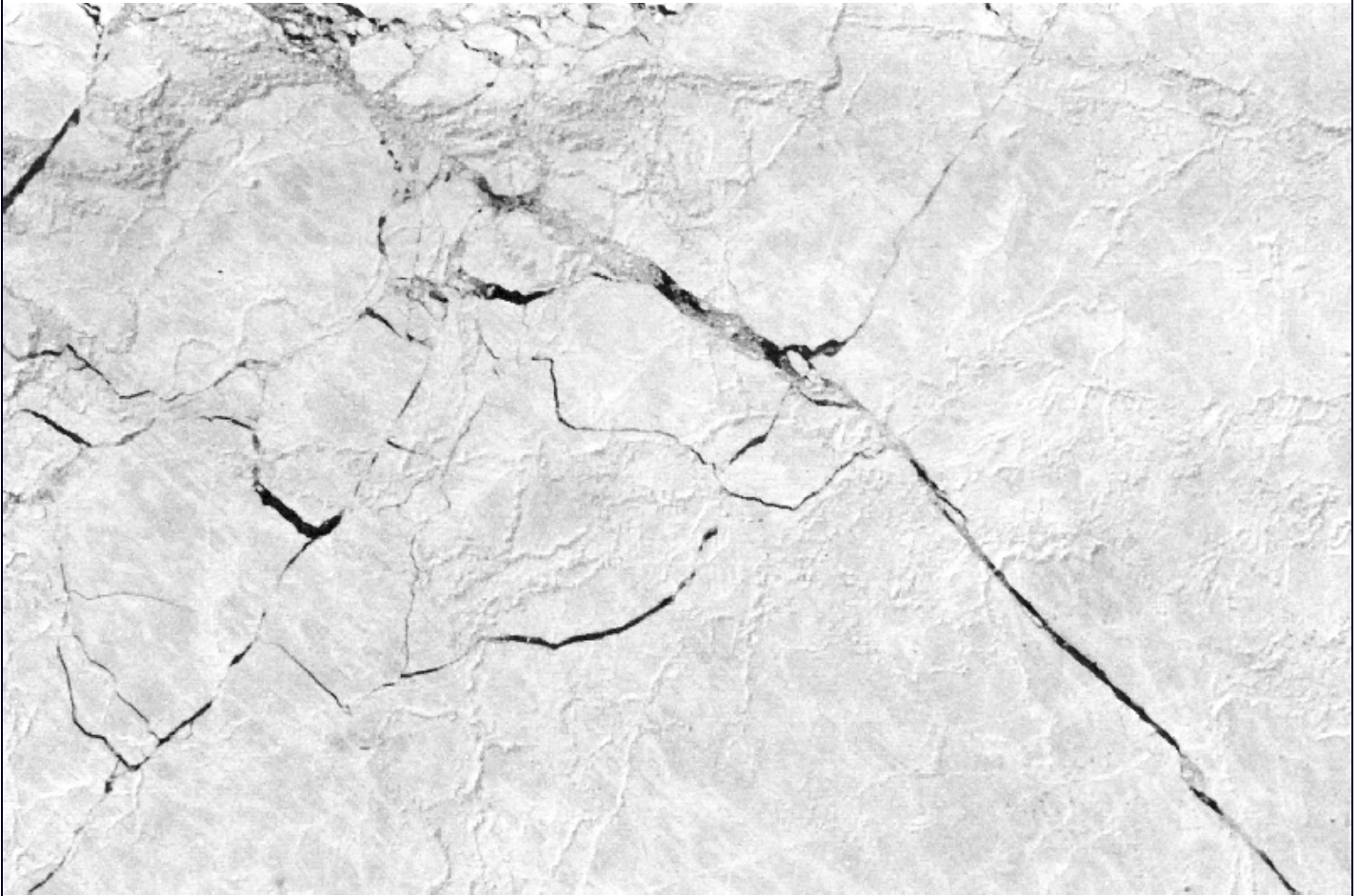


10

4.4.11 Marginal Ice Zone (Marginal Ice Zone [fr])

Prof. Art Baggeroer, MIT

113



1350

Armed Forces,Canada

2.5.2 Medium first-year ice (Glace moyenne de première année [fr])

114

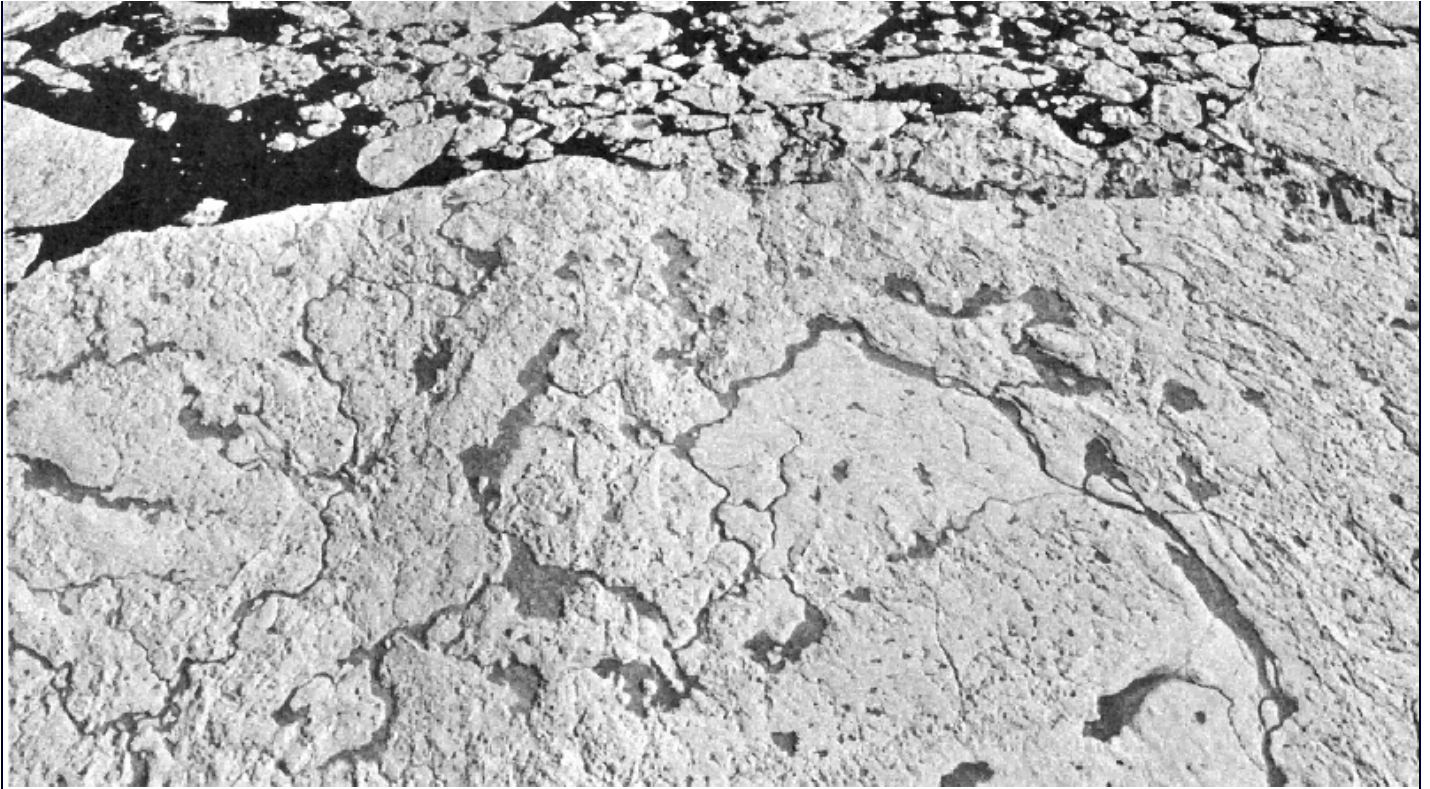


A.V.Bushuev, USSR

2.5.2 Medium first-year ice (Glace moyenne de première année [fr])

115

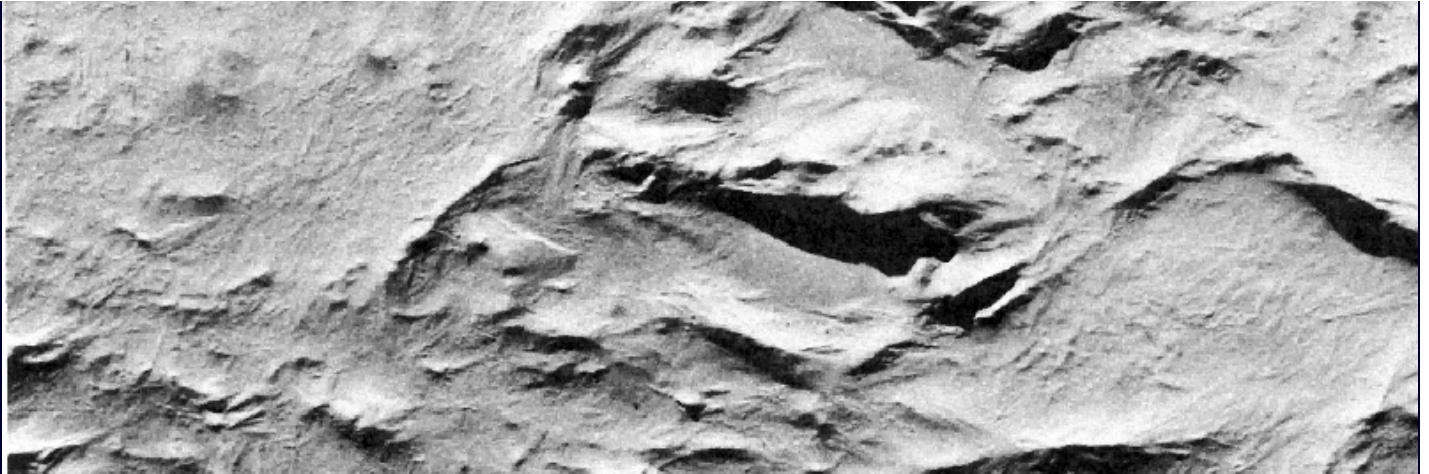




600 Armed Forces,Canada
2.6.3 Multi-year ice (Glace de plusieurs années [fr])

116





2000

N.M.Shakirov, USSR

2.6.3 Multi-year ice (Glacé de plusieurs années [fr])

117

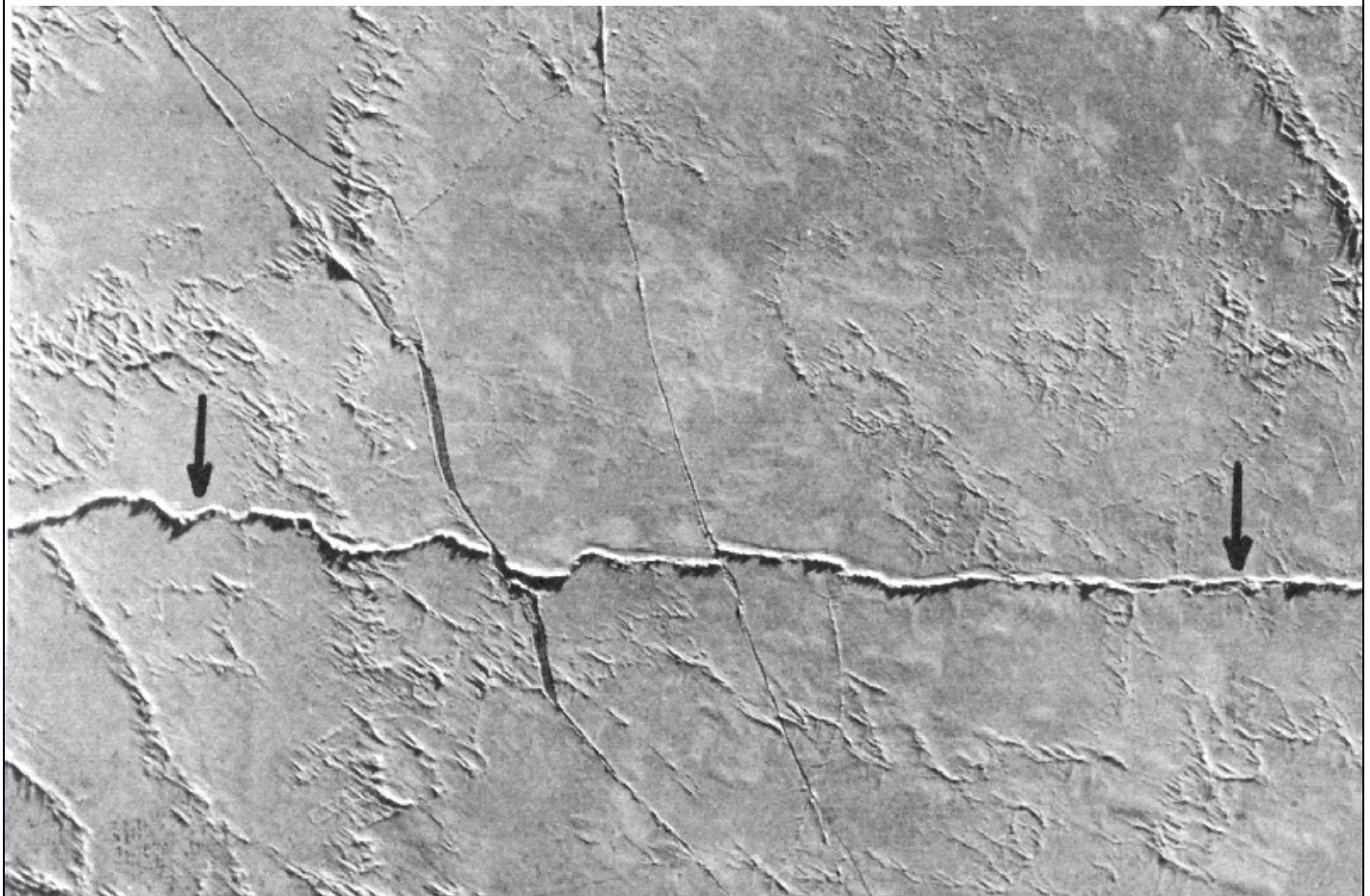




A.V.Bushuev, USSR

2.6.3 Multi-year ice (Glacé de plusieurs années [fr])

118



600

Armed Forces, Canada

8.2.2.1 New ridge (Nouvelle crête [fr])

119



Defence Research Boat, Canada

8.2.2.1 New ridge (Nouvelle crête [fr])

120

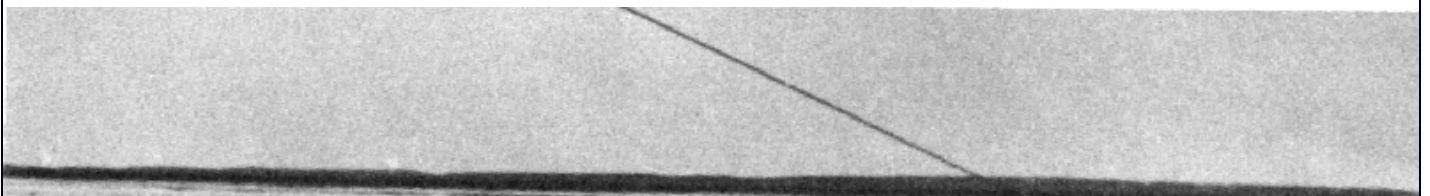


1800

H.H.Valeur, Denmark

4.2.4 Open ice (Glace lâche [fr])

121

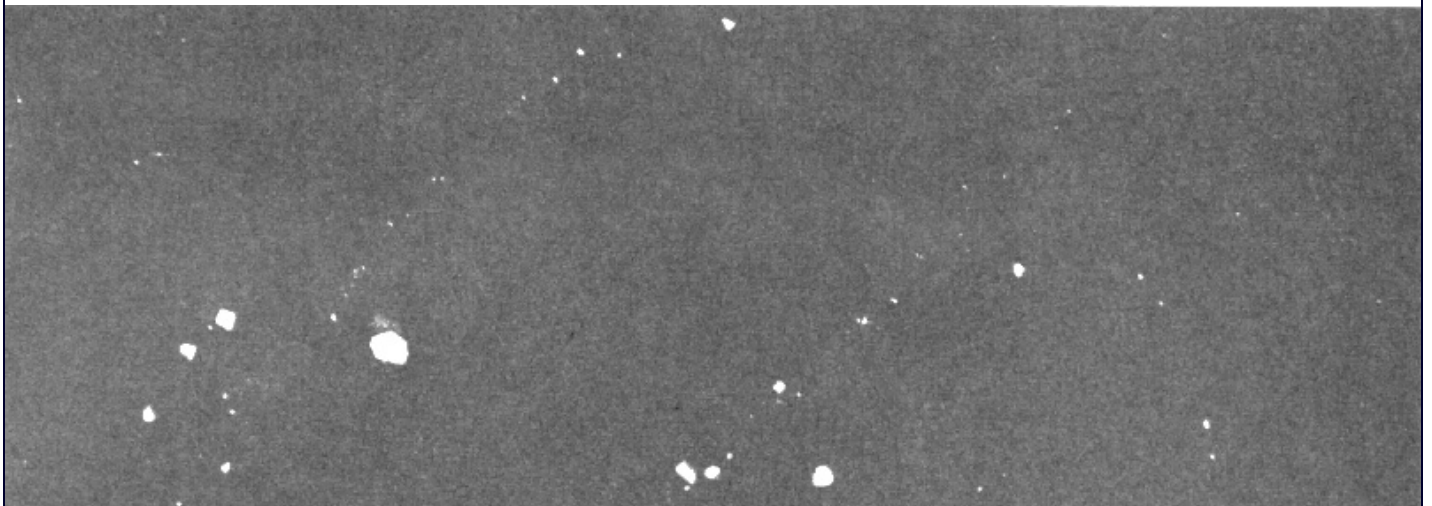


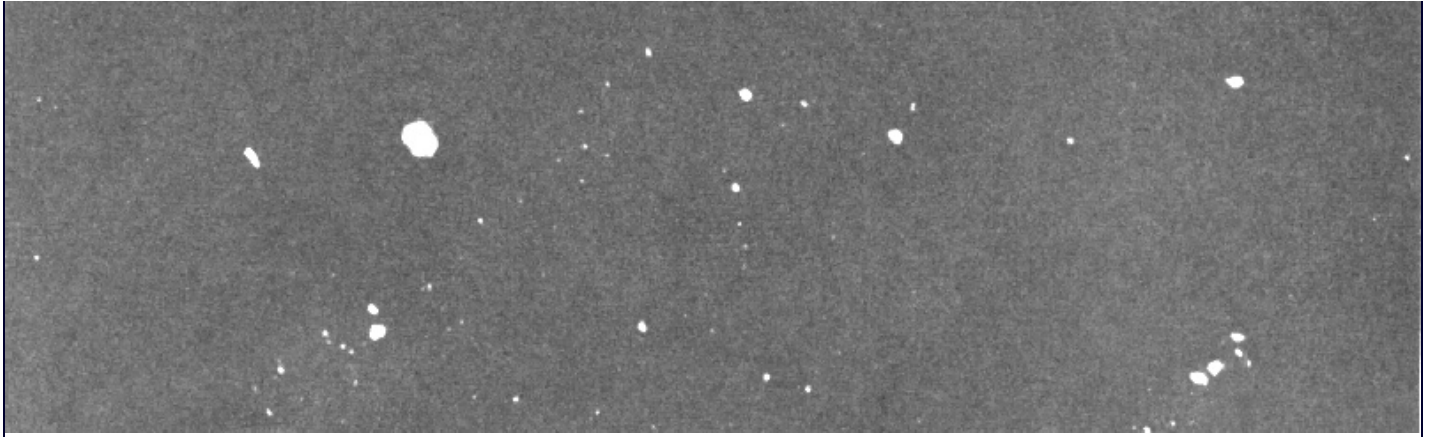


B.Rodhe, Sweden

4.2.4 Open ice (Glace lâche [fr])

122

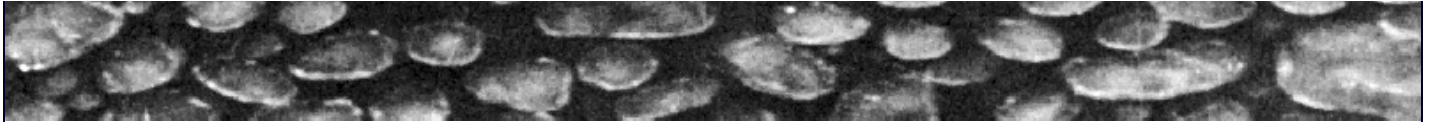




600 Armed Forces,Canada
4.2.6 Open water (Eau libre [fr])

123





4.3.1 Pancake ice (Glace en crêpes [fr])

Inst. Low Temperature Science, Japan

124



4.3.1 Pancake ice (Glace en crêpes [fr])

Antarctic Inst., Argentina

125



U.S.Navy

9.1 Puddle (Mare [fr])

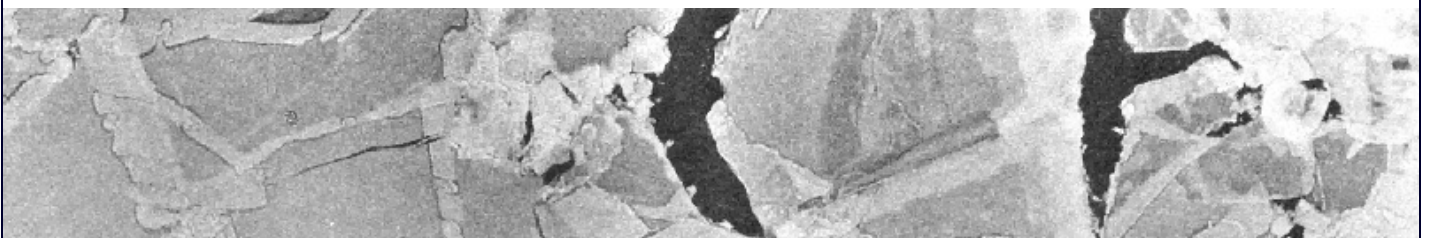
126

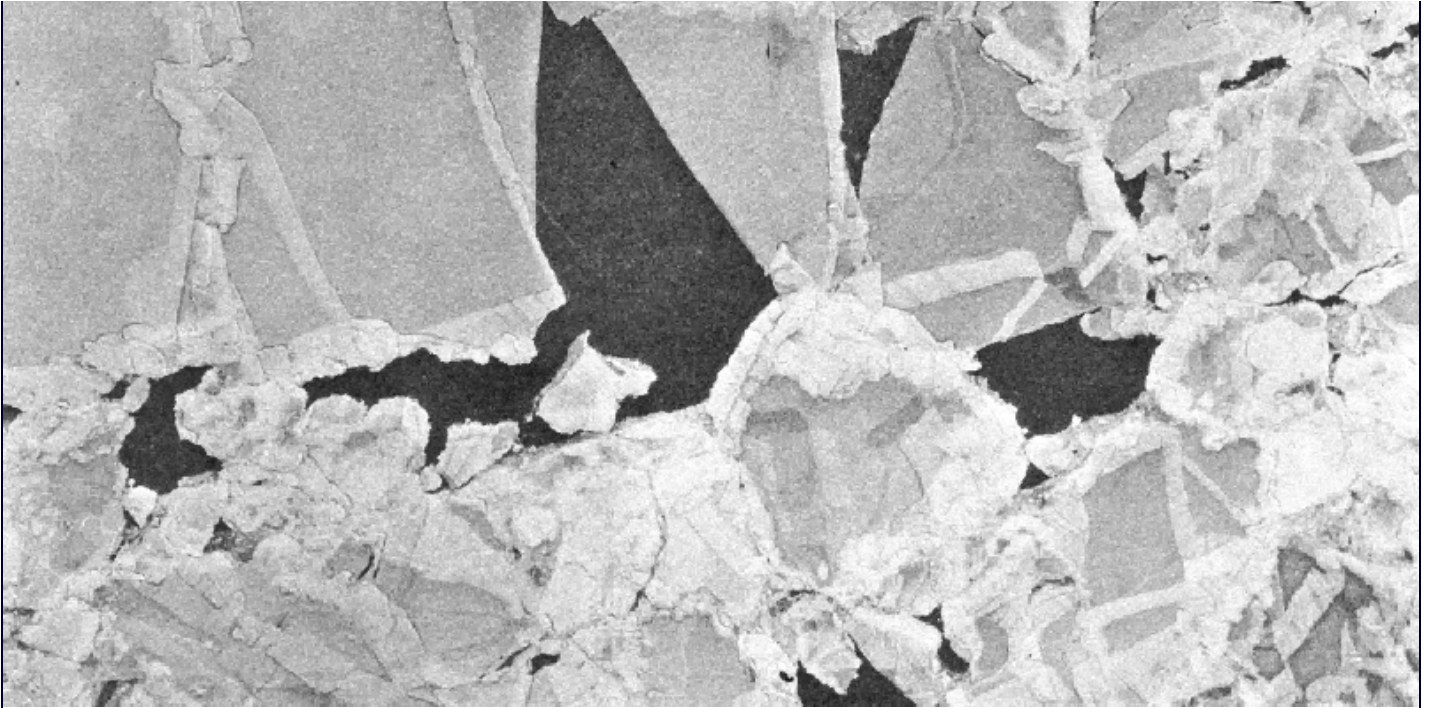


U.S.Navy

9.1 Puddle (Mare [fr])

127



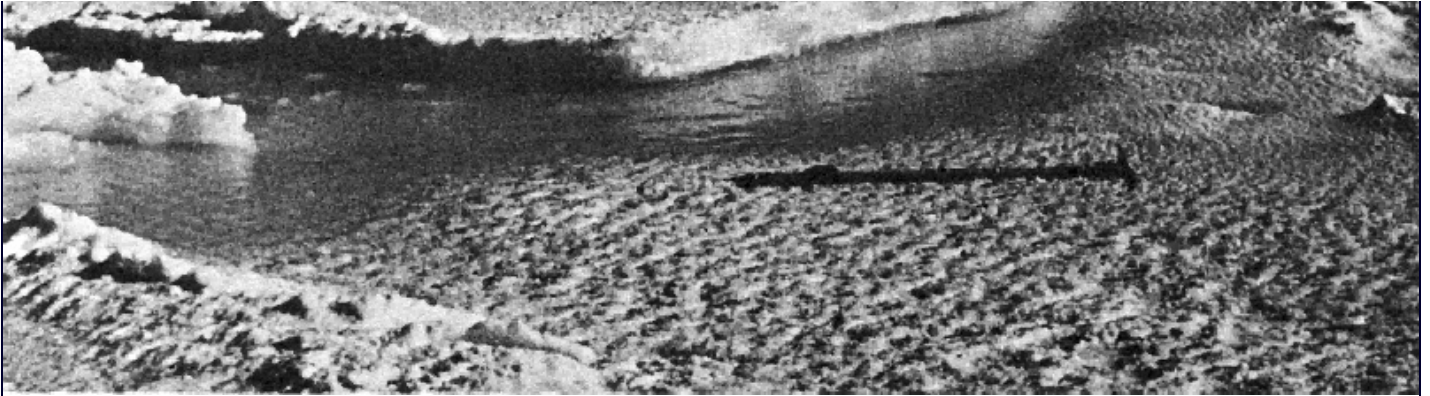


USSR

8.2.1 Rafted ice (Glace empilée ou entassée [fr])

128

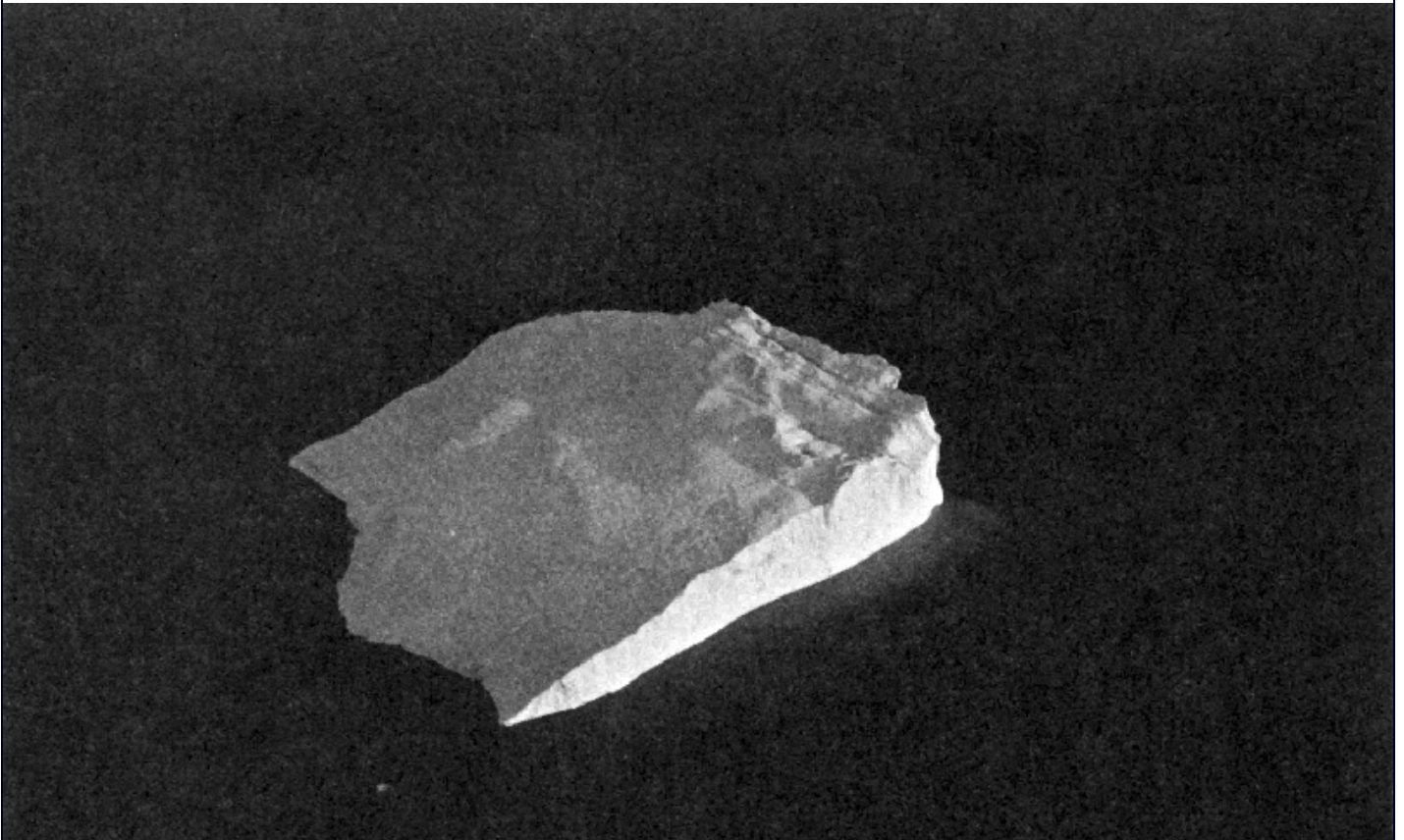




Defence Research Boat, Canada

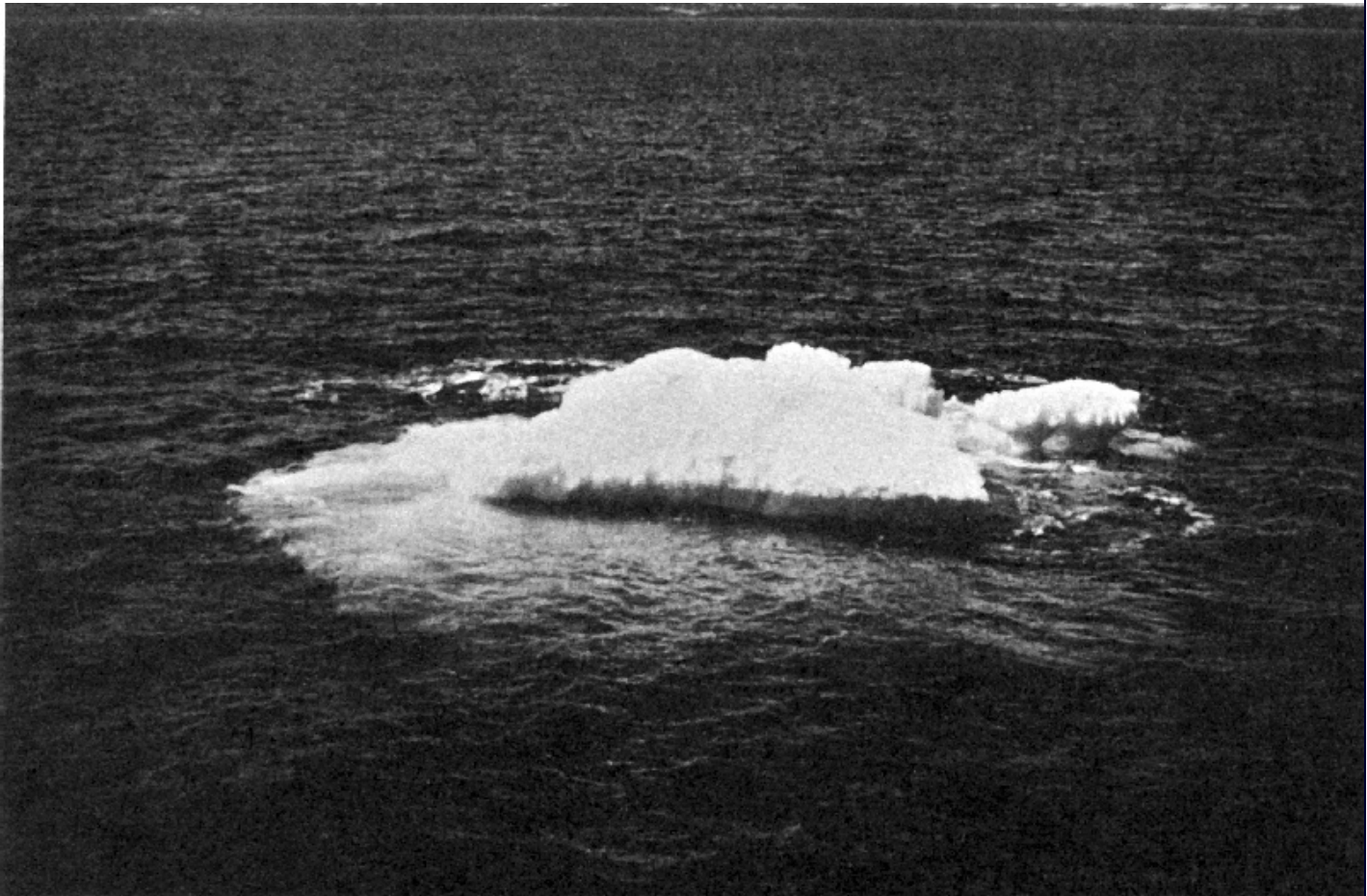
8.2.1 Rafted ice (Glace empilée ou entassée [fr])

129



8.4 Ram (Eperon [fr]) U.S.Coast Guard

130



8.4 Ram (Eperon [fr]) H.H.Valeur, Denmark

131



600 Armed Forces, Canada
8.2.2.6 Ridged ice (Glace tourmentée [fr])

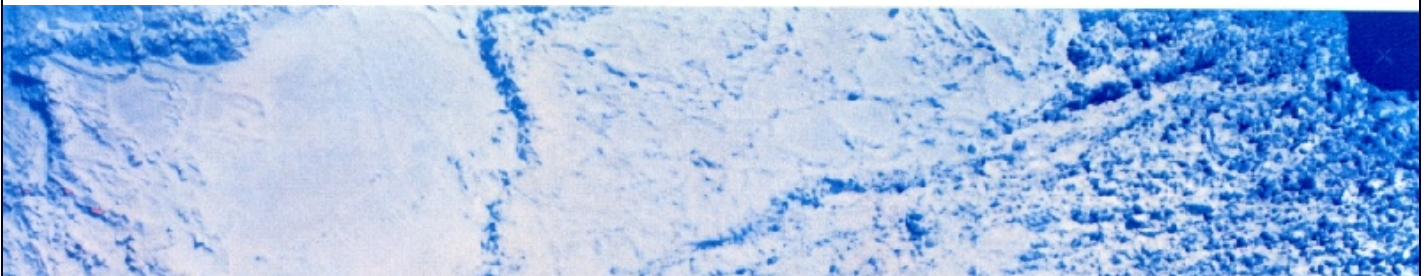
132

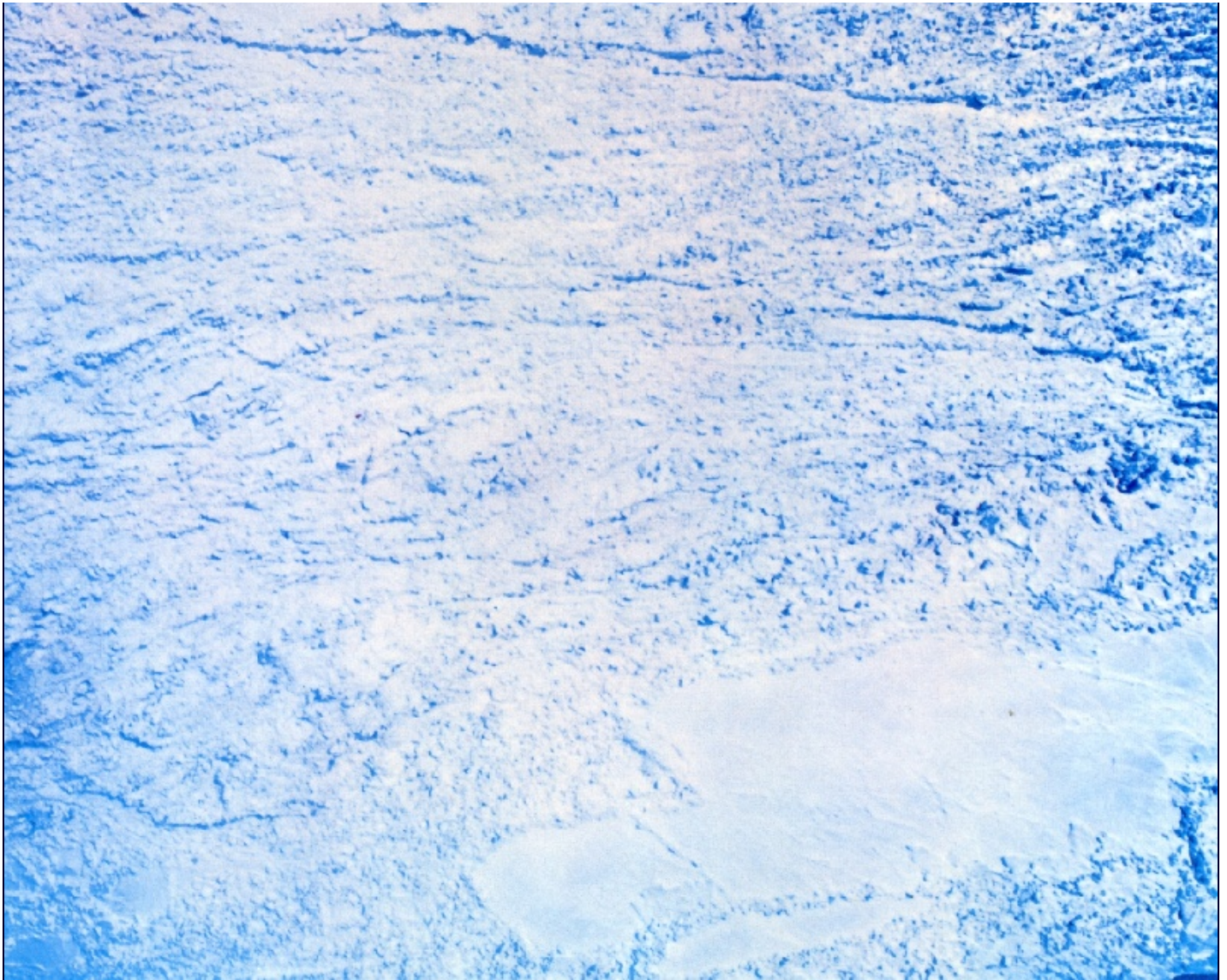


H.G.Ponting, Gt.Britain

8.2.2.6 Ridged ice (Glace tourmentée [fr])

133



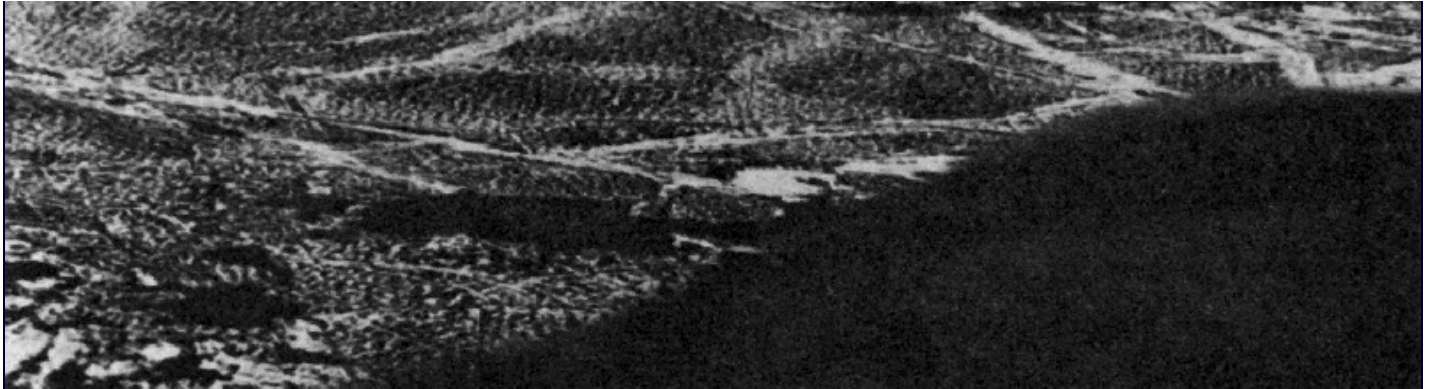


U.S.Navy

8.2.2.6.1 Ridged ice zone (Zone de glace tourmentée [fr])

134





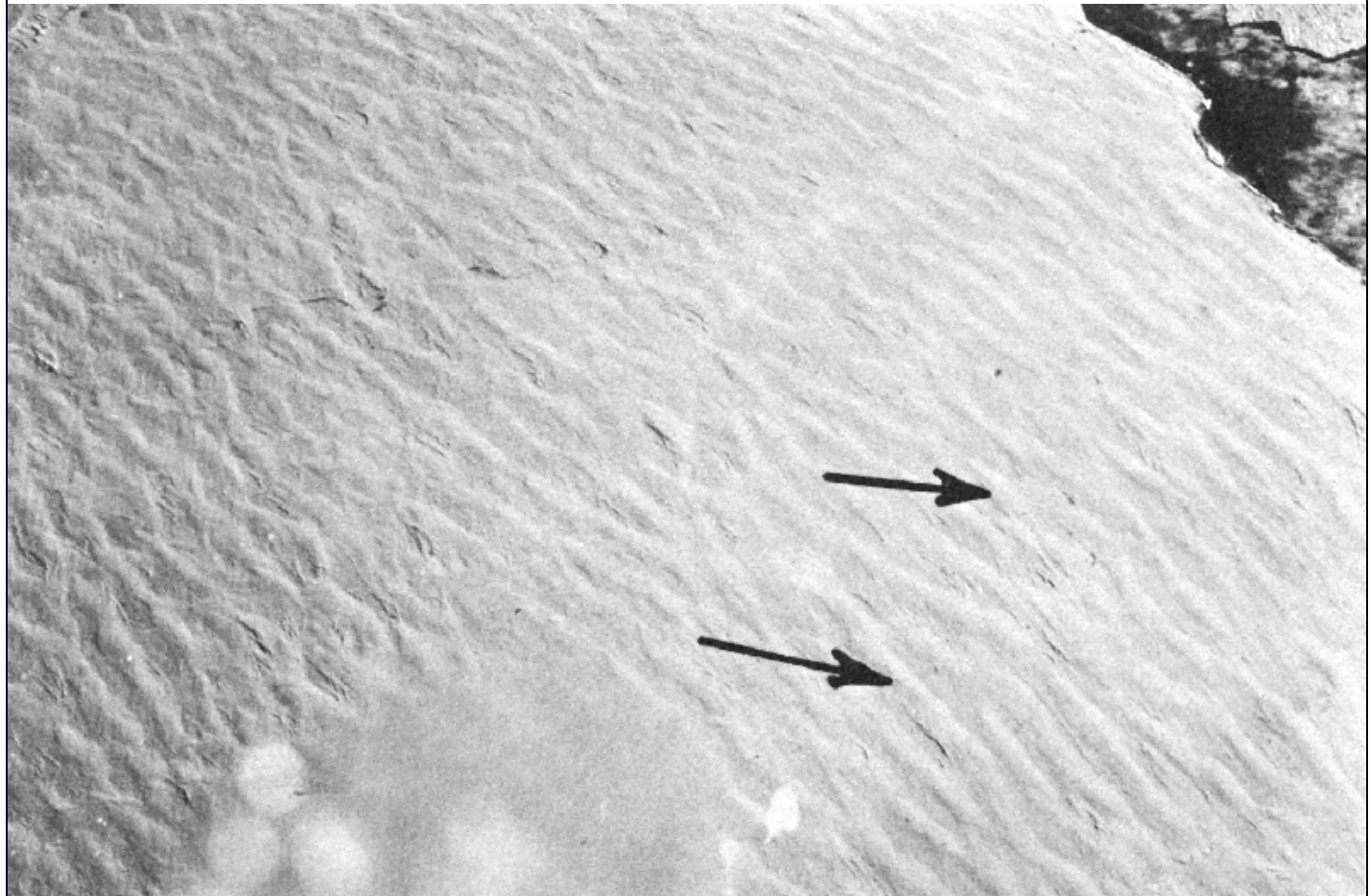
400 U.S.Navy
9.4 Rotten ice (Glace pourrie [fr])

135



9.4 Rotten ice (Glacé pourrie [fr]) J.S.Fabricsius, Denmark

136



300 **8.6.2 Sastrugi (Sastrugi [fr])** Armed Forces,Canada

137



8.6.2 Sastrugi (Sastrugi [fr])

H.G.Ponting, Gt.Britain

138



10000

N.M.Shakirov, USSR

2.6.2 Second-year ice (Glacé de deuxième année [fr])

139





A.V.Bushuev, USSR

2.6.2 Second-year ice (Glace de deuxième année [fr])

140





300
2.6.2 Second-year ice (Glace de deuxième année [fr]) R.H.W.Hill, Canada

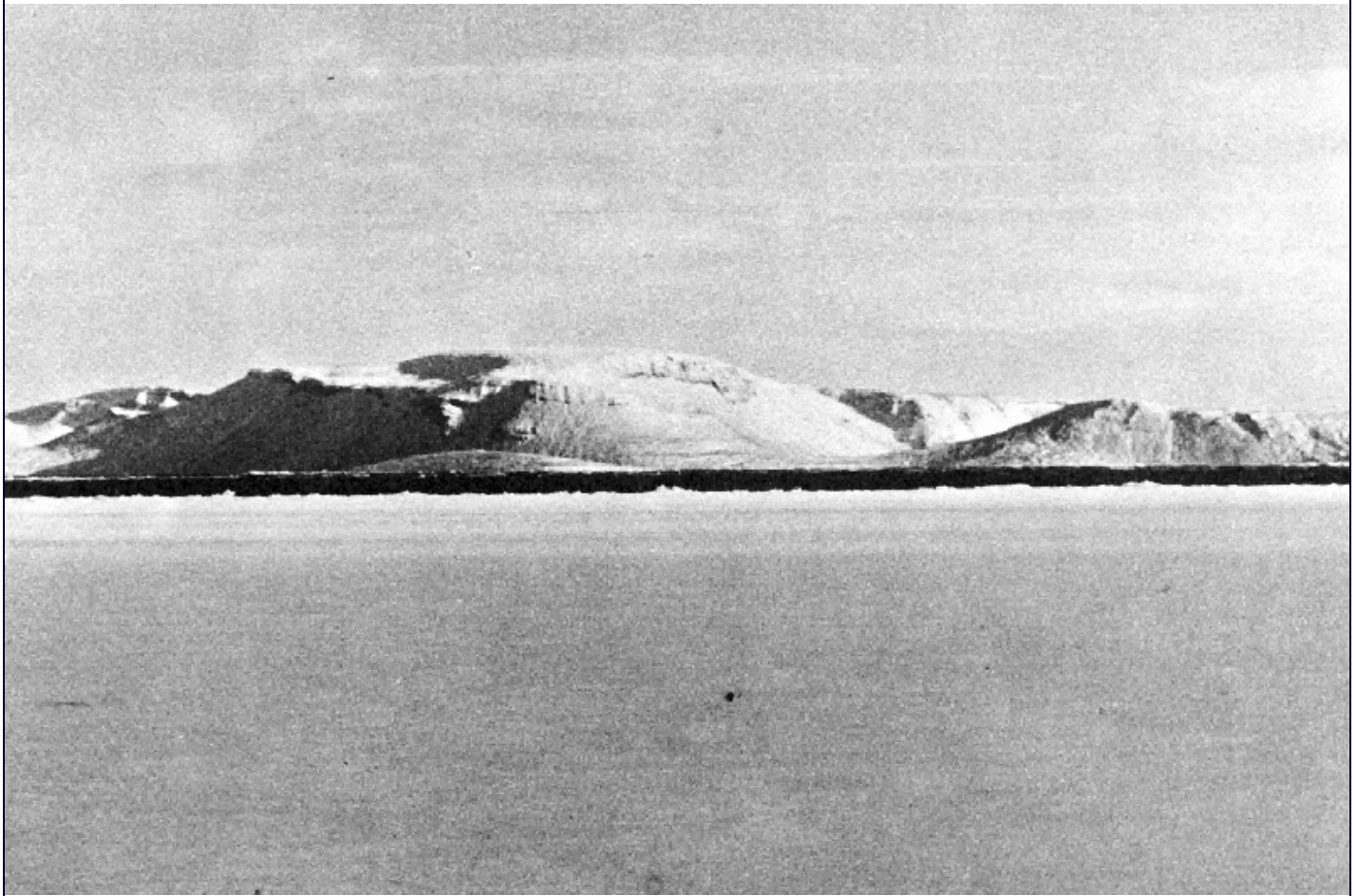
141



600 Trans-Antarctic Expedition, Gt. Britain

7.3.1 Shore lead (Chenal côtier [fr])

142



7.3.1 Shore lead (Chenal côtier [fr])

Defence Research Boat, Canada

143



Defence Research Boat, Canada

7.4.1 Shore polynya (Polynie côtière [fr])

144



600 Armed Forces,Canada
2.1.4 Shuga (Shuga [fr])

145

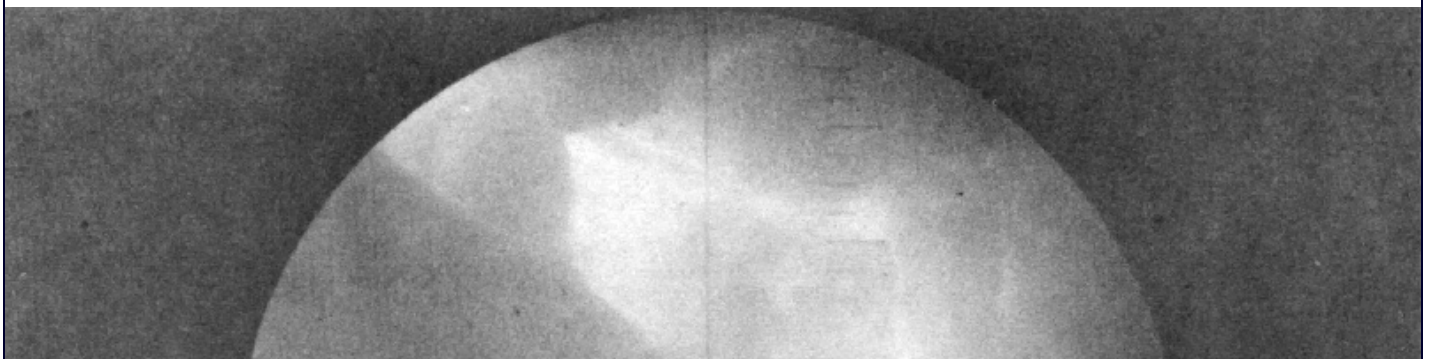


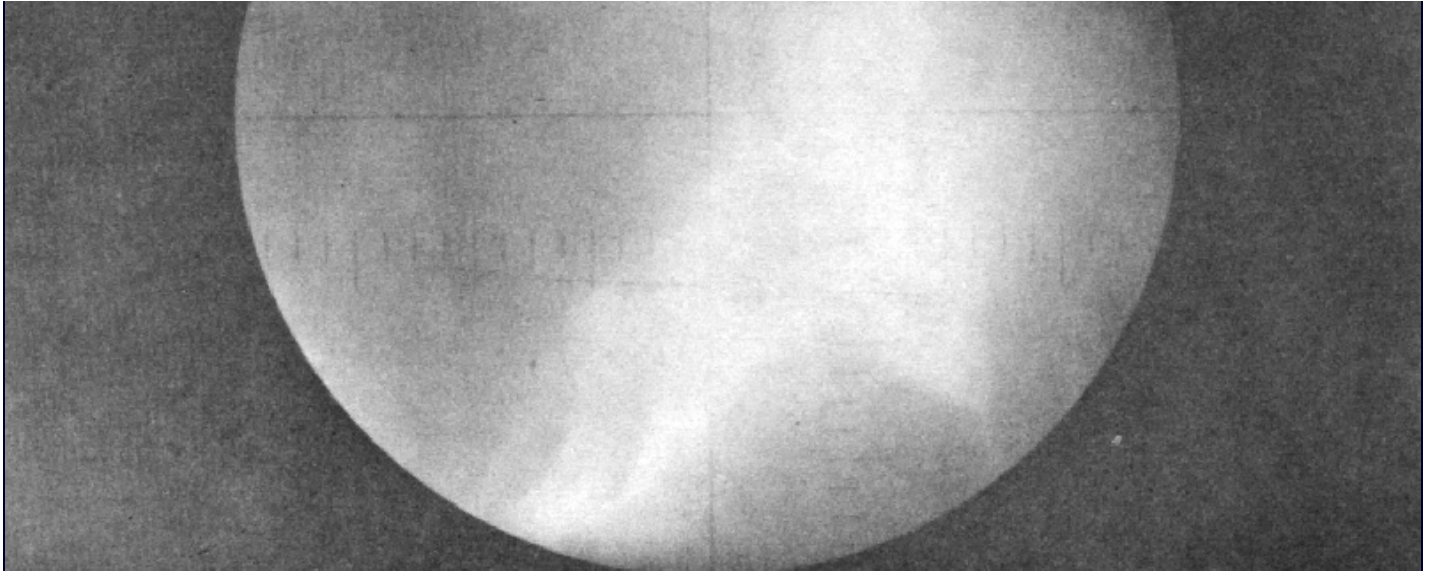


J.A.Weaver,Canada

2.1.4 Shuga (Shuga [fr])

146





13.6 Skylight (Claire-voie [fr])

U.S.Navy

147





600 N.M.Shakirov, USSR
2.1.3 Slush (Gadoue [fr])

148

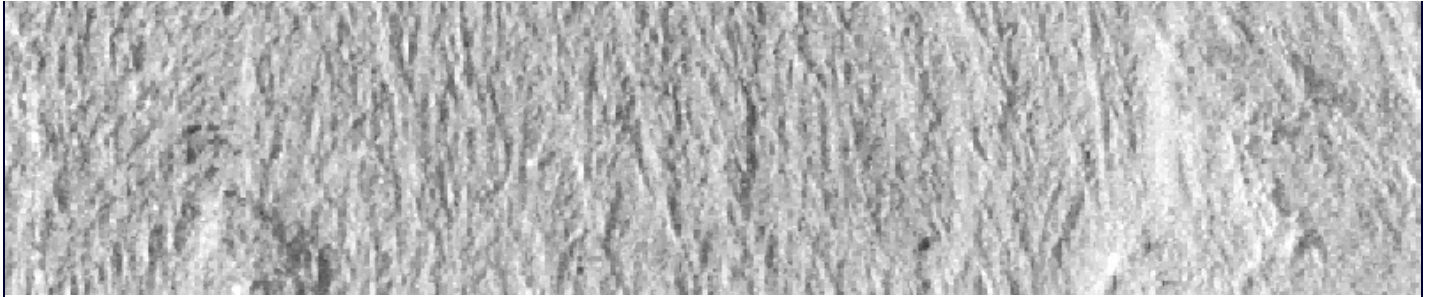


2.1.3 Slush (Gadoue [fr]) K.S.Simpson,Canada

2.1.5 515311 (000000 [1])

149





1000

Armed Forces, Canada

8.6.1 Snow cover concentration (Snow cover concentration [fr])

150

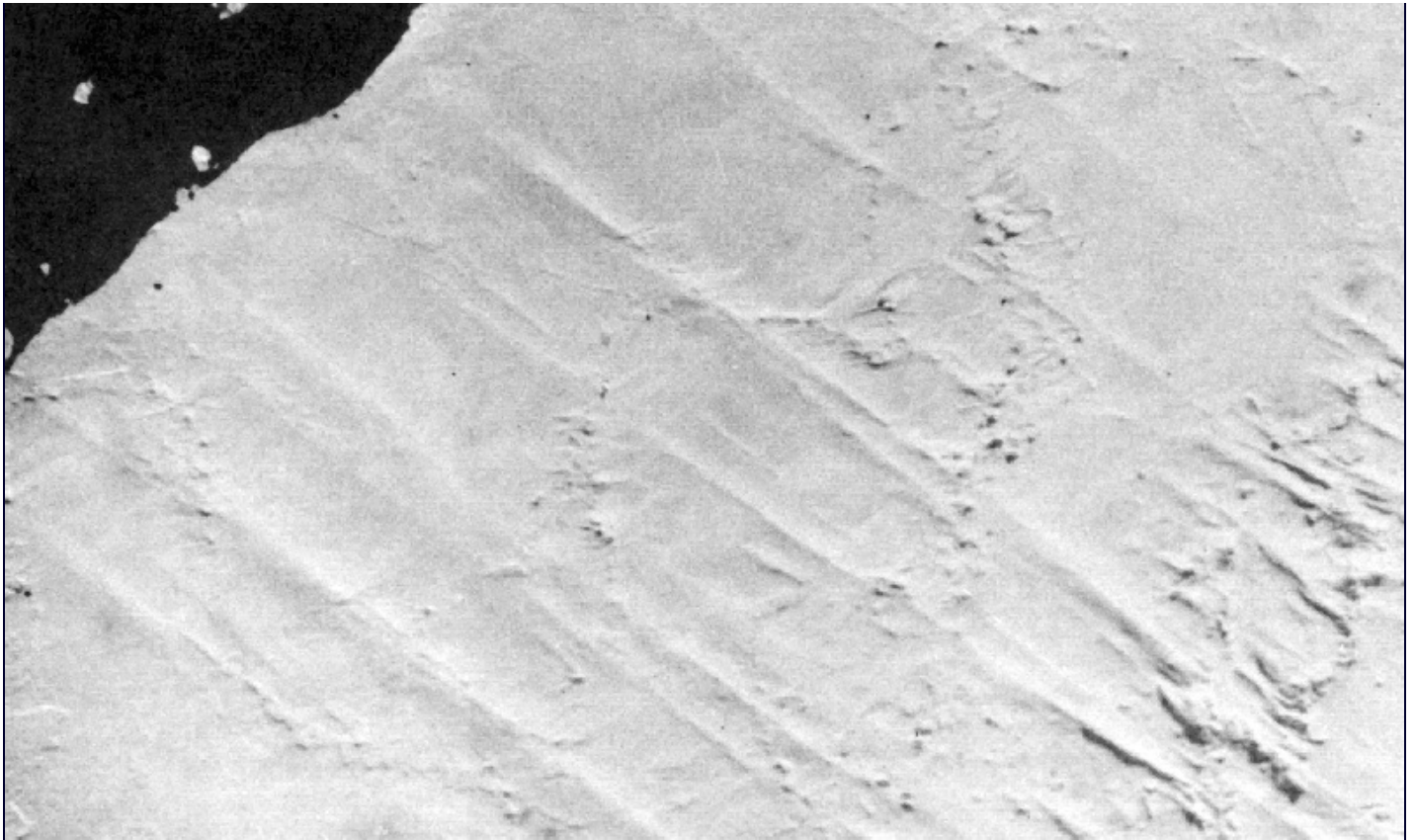


B.Fristrup, Denmark

8.6.1 Snow cover concentration (Snow cover concentration [fr])

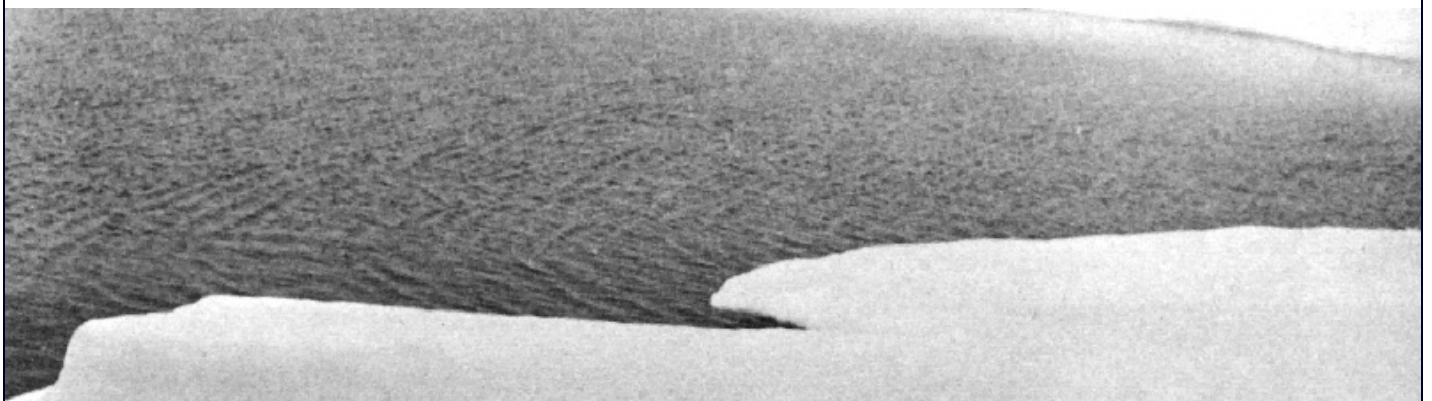
151

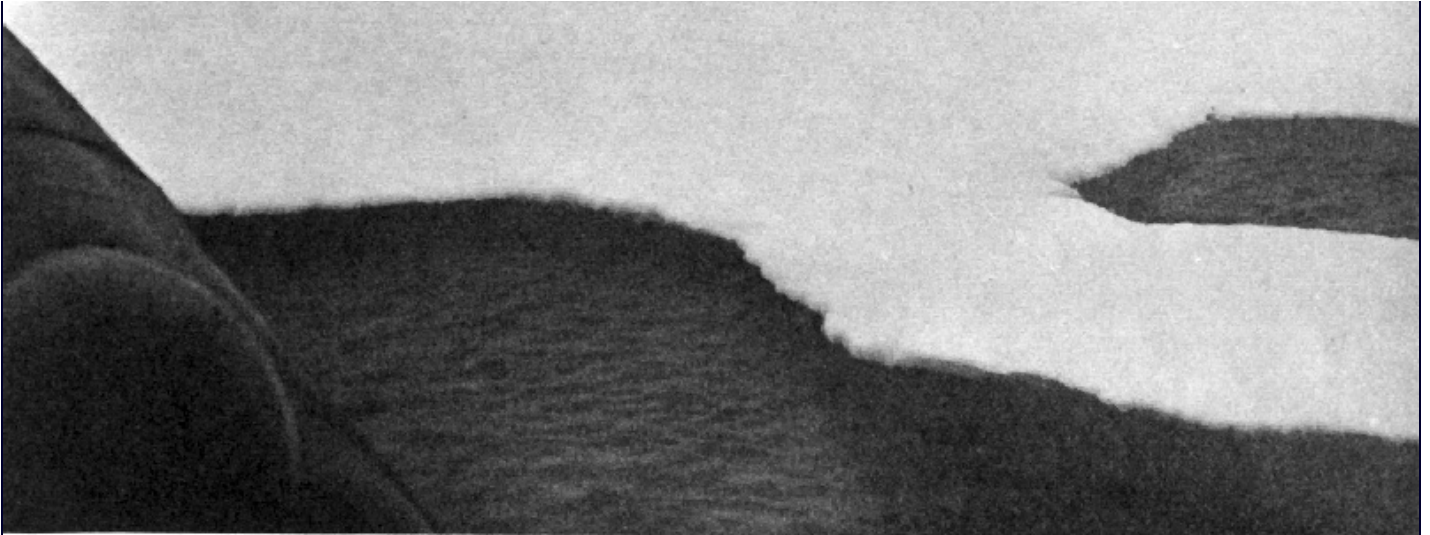




300 Armed Forces,Canada
8.6 Snow-covered ice (Glacé recouverte de neige [fr])

152

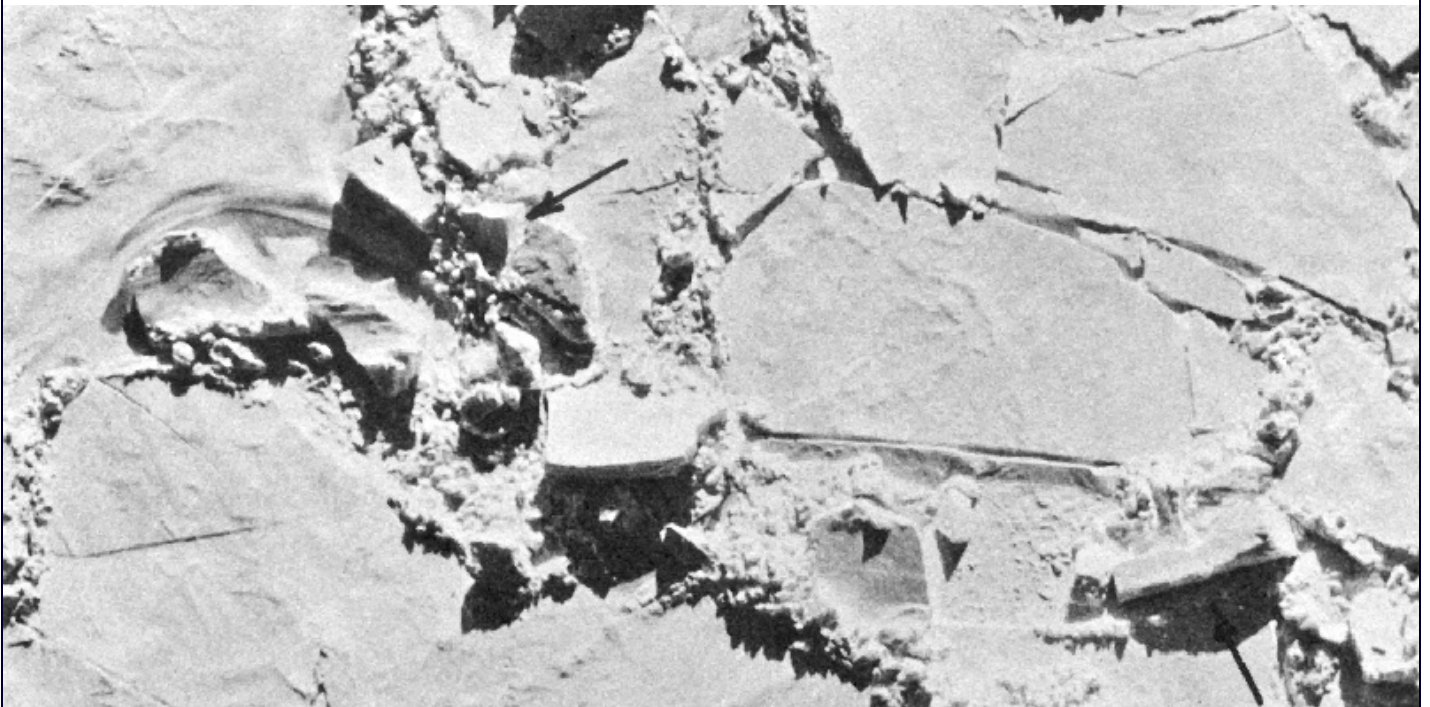


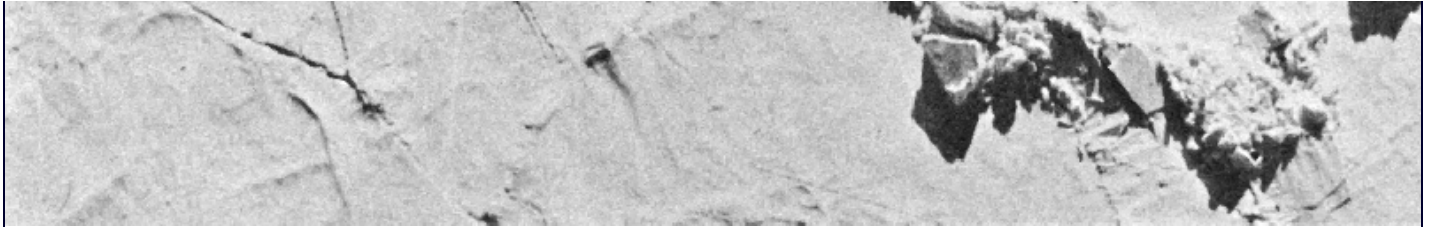


8.6 Snow-covered ice (Glace recouverte de neige [fr])

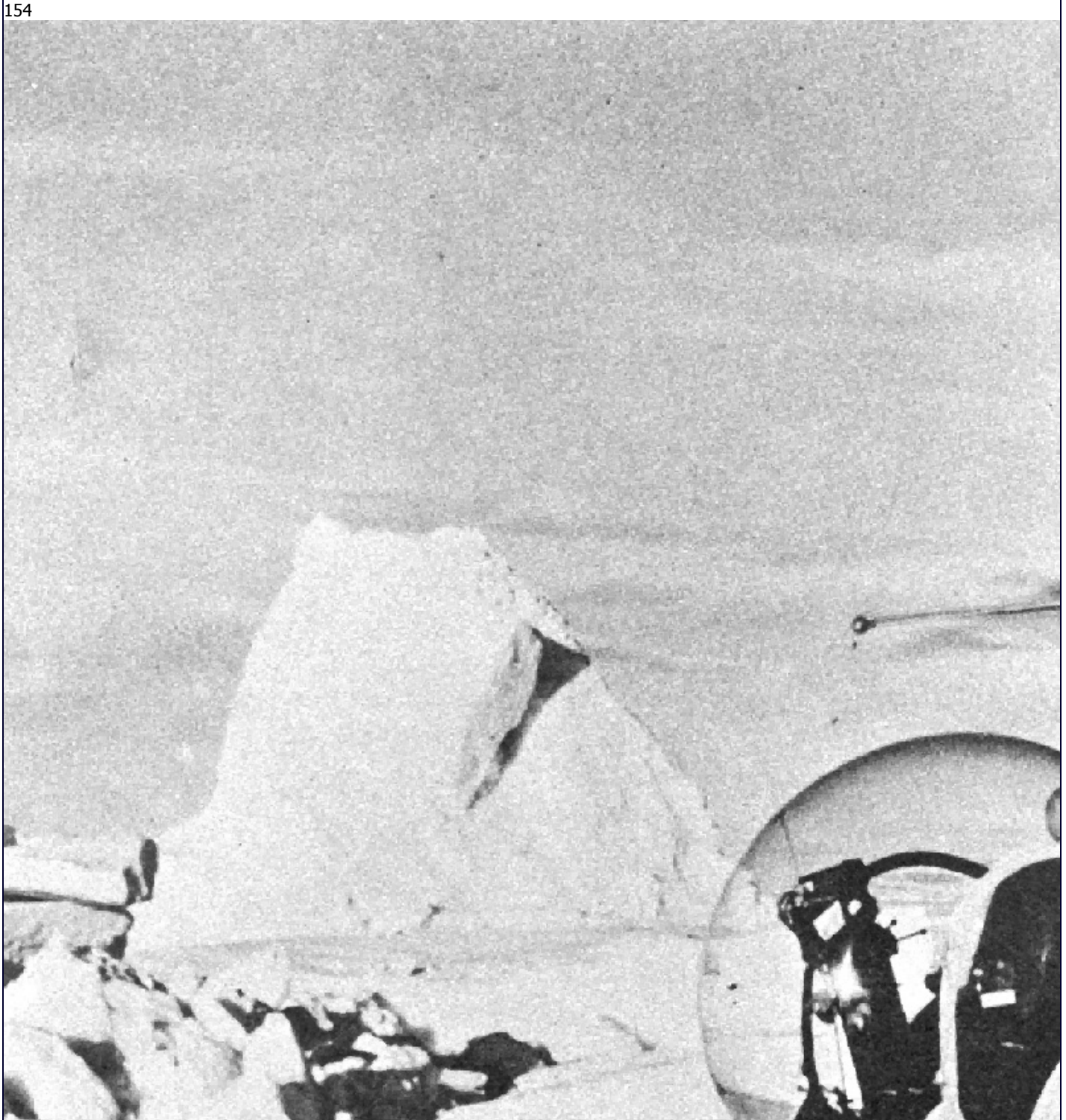
U.S.Navy

153

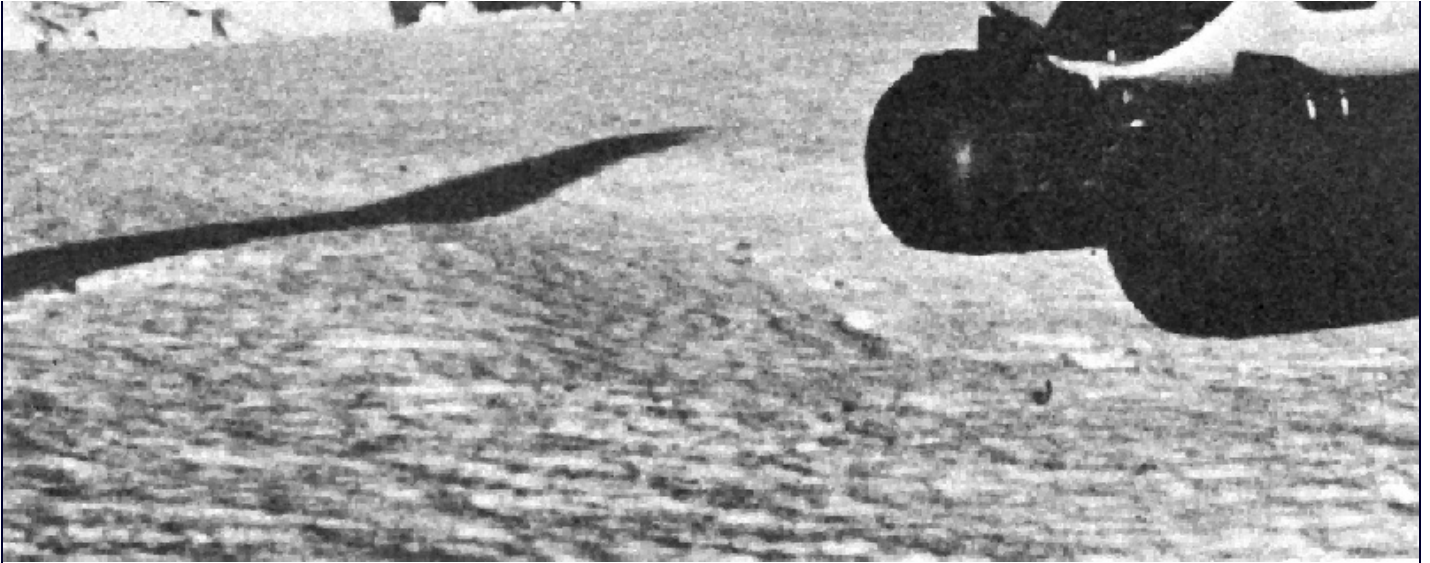




225
8.3 Standing floe (Floe dressé [fr]) A.V.Bushuev, USSR



154



Defence Research Boat, Canada

8.3 Standing floe (Floe dressé [fr])

155



Hydrographic Service, Canada

3.4.1 Stranded ice (Glace jetée en côte [fr])

156



300 Armed Forces, Canada
4.4.5 Strip (Cordon (de glace) [fr])

157





R.N.Panzarini, Argentina

4.4.5 Strip (Cordon (de glace) [fr])

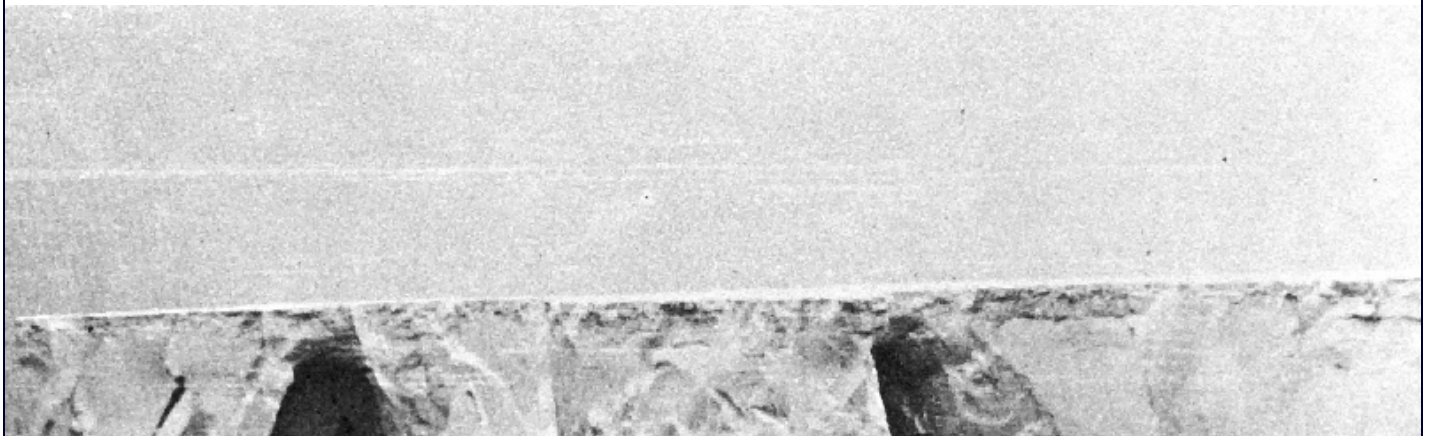
158

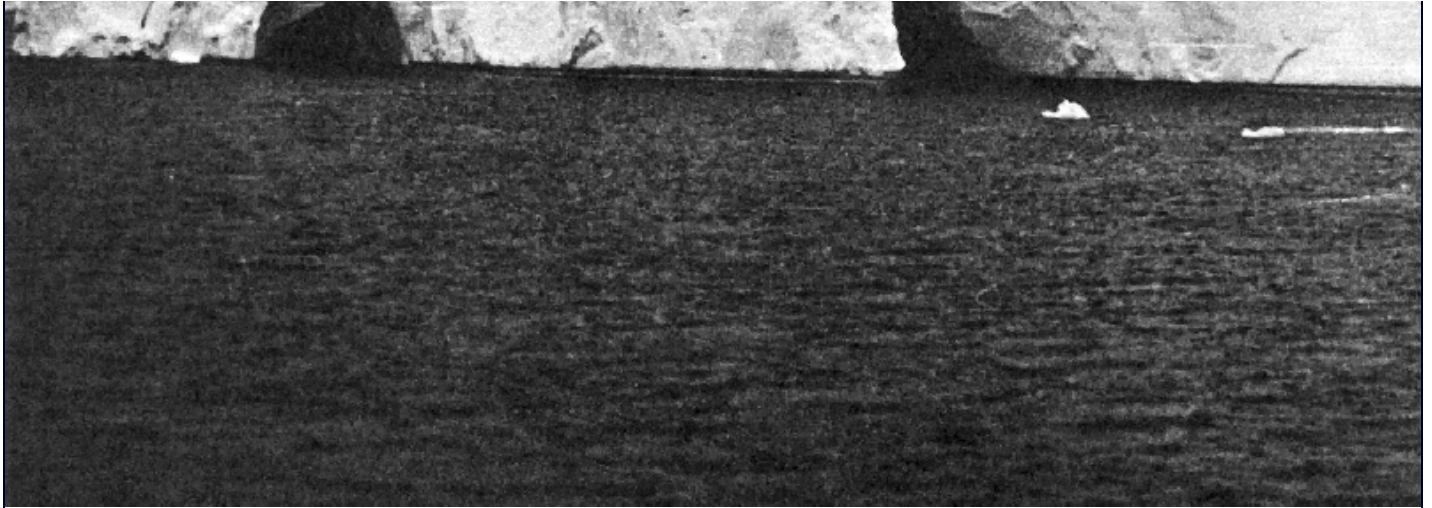


U.S.Navy

10.4.2.2 Tabular berg (Iceberg tabulaire [fr])

159



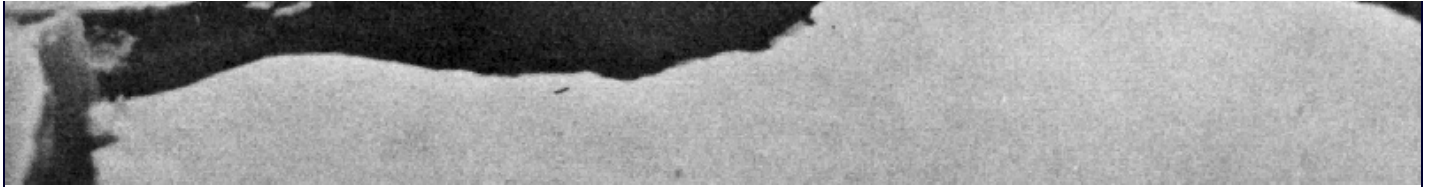


R.N.Panzarini, Argentina

10.4.2.2 Tabular berg (Iceberg tabulaire [fr])

160

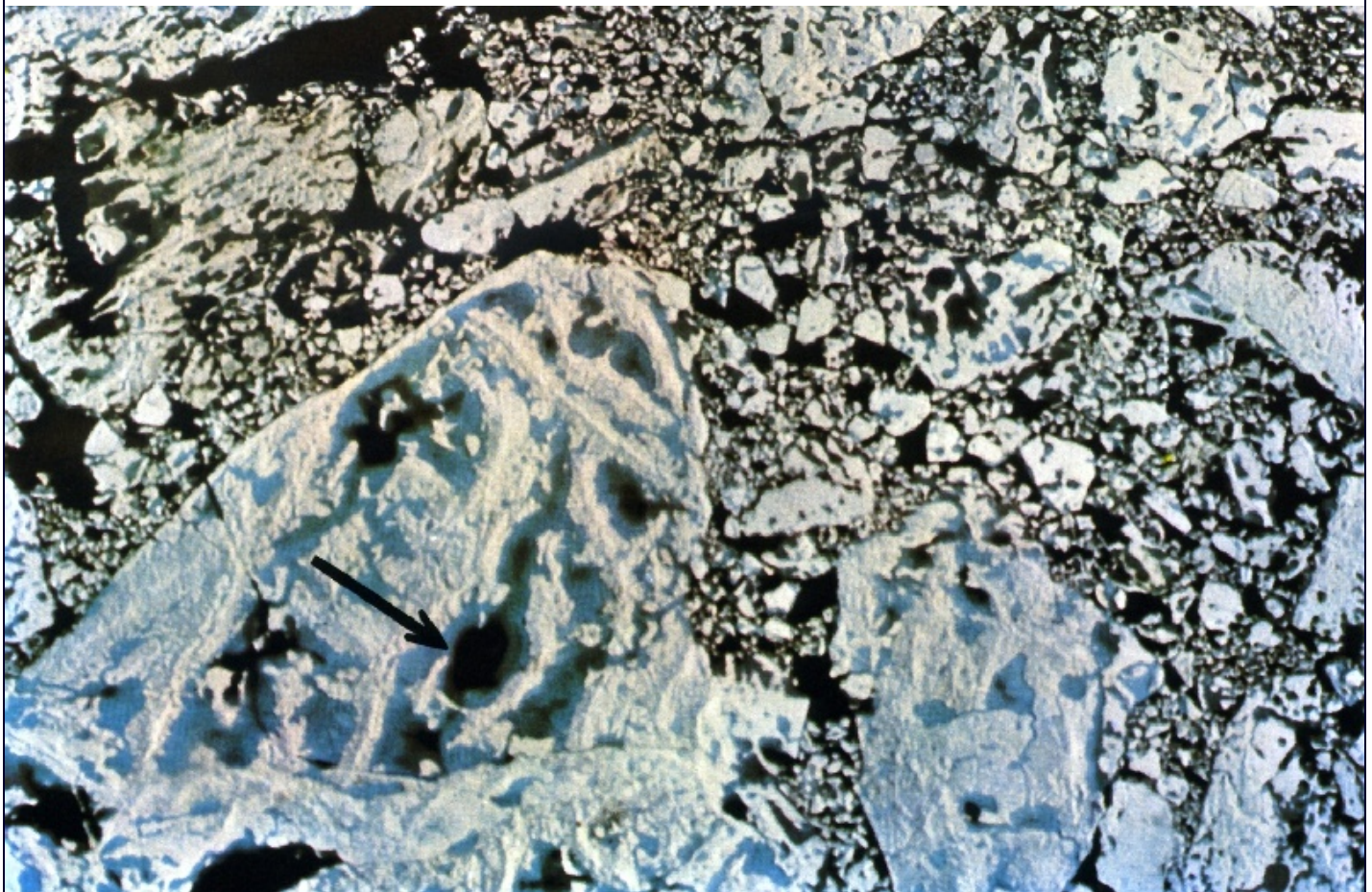




M.Dunbar, Canada

9.2 Thaw holes (Trous de fonte [fr])

161



450

R.Van Humbeck, Canada

9.2 Thaw holes (Trous de fonte [fr])

162



400 V.S.Loshchilov, USSR
2.5.3 Thick first-year ice (Glacé épaisse de première année [fr])

163

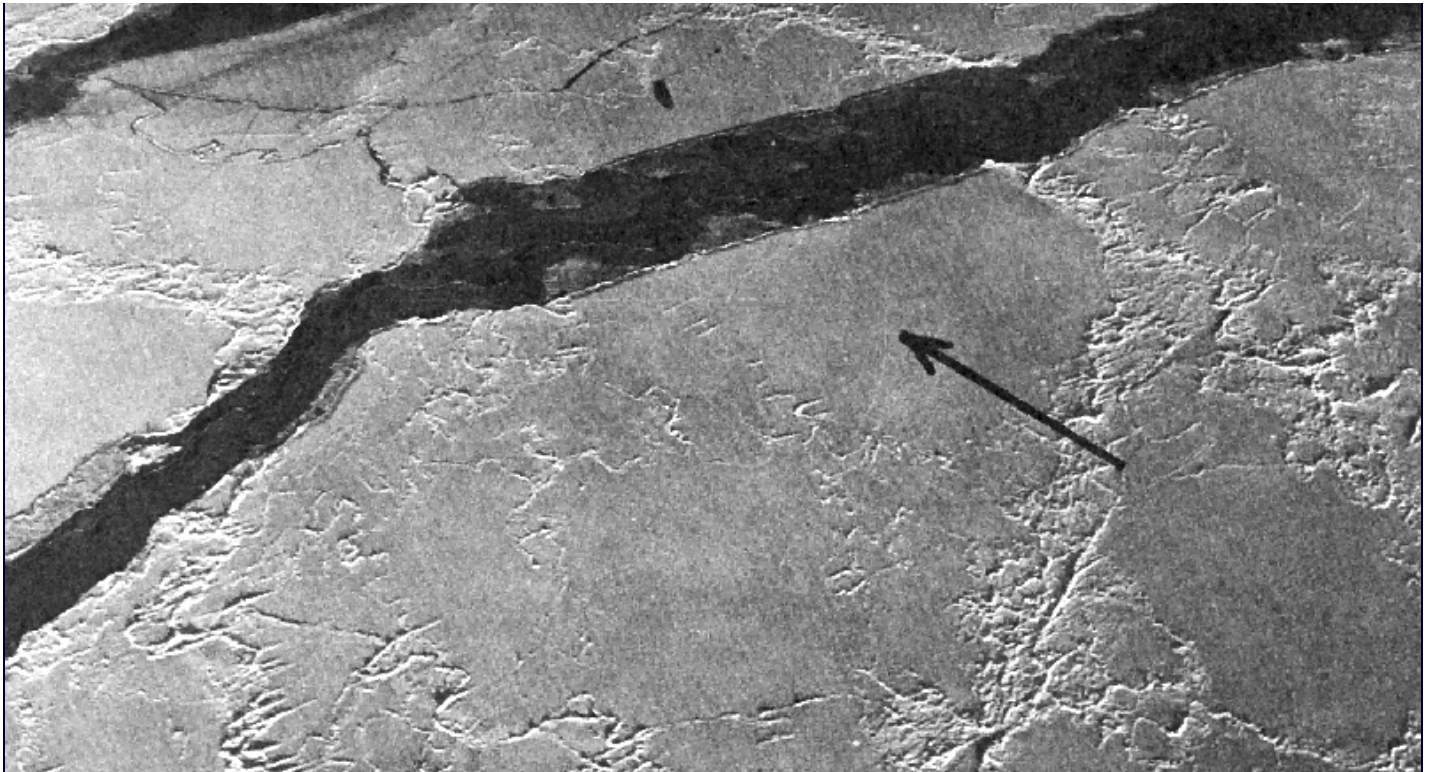


A.V.Bushuev, USSR

2.5.3 Thick first-year ice (Glace épaisse de première année [fr])

164





750 Armed Forces, Canada
2.5.1 Thin first-year ice / white ice (Glace mince de première année/glace blanche [fr])

165





Defence Research Boat, Canada

2.5.1 Thin first-year ice / white ice (Glace mince de première année/glace blanche [fr])

166





U.S.Navy

7.1.1.1 Tide crack (Fissure de marée [fr])

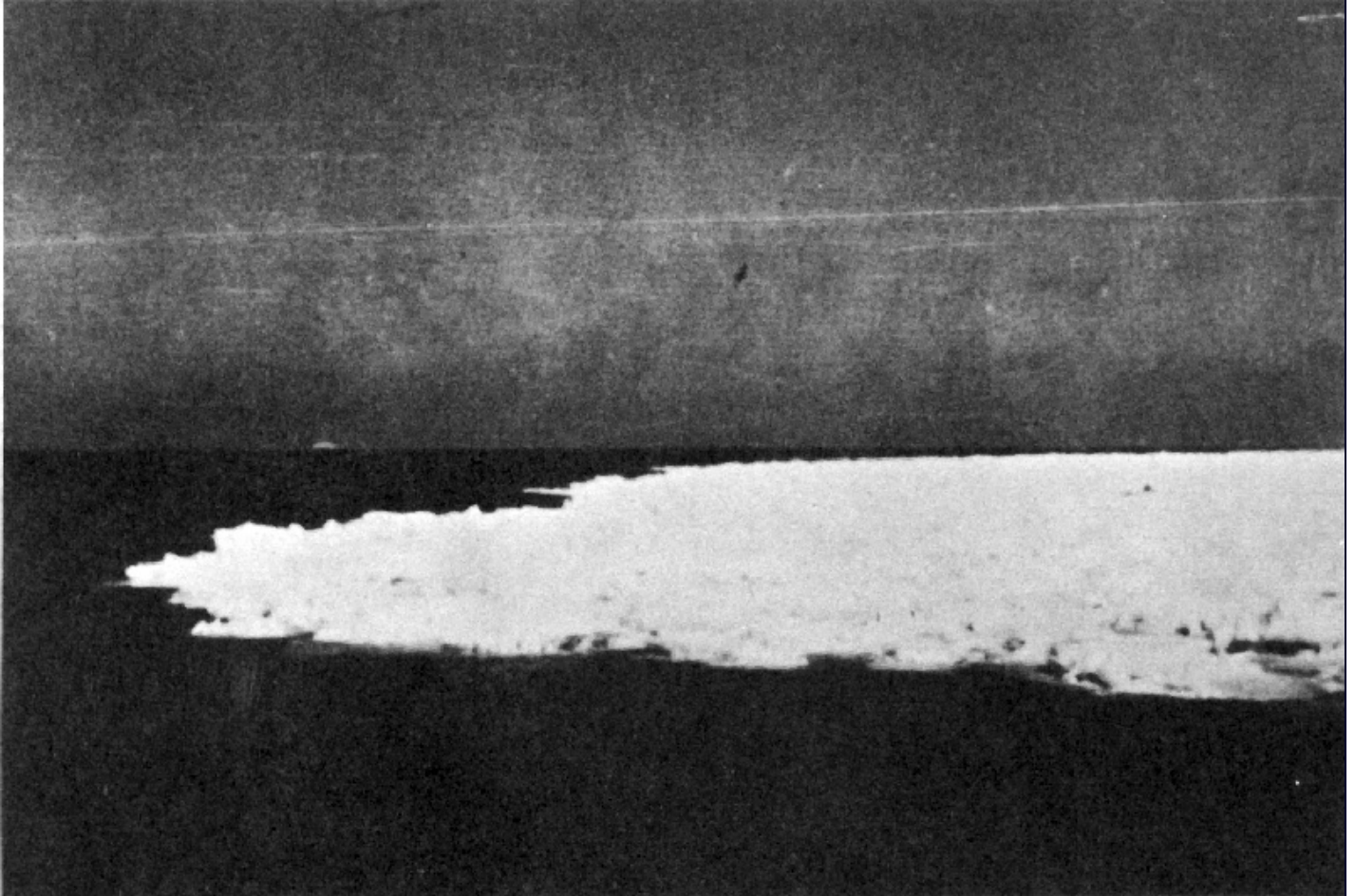
167



G.Taylor, Gt.Britain

7.1.1.1 Tide crack (Fissure de marée [fr])

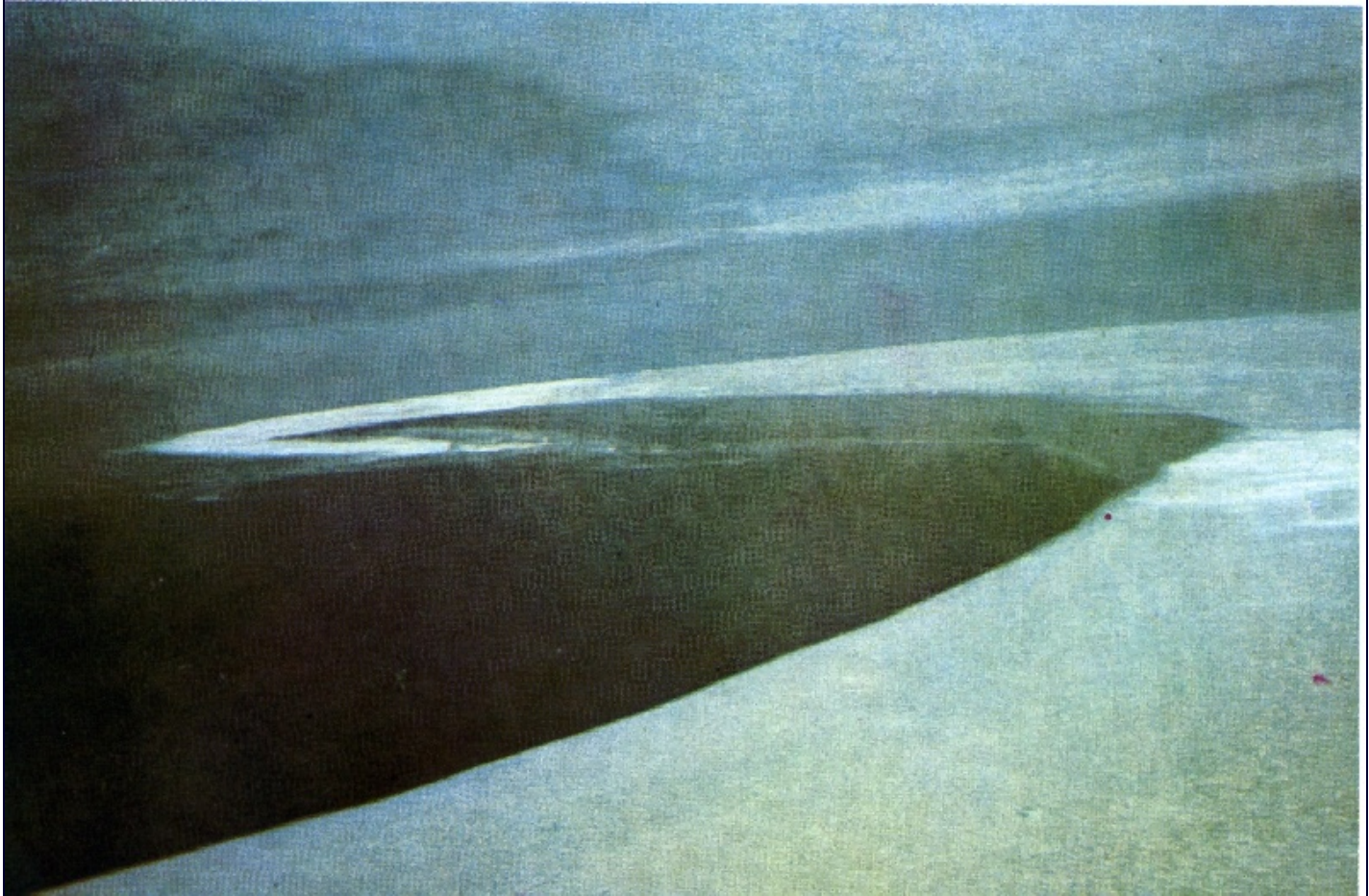
168



4.4.4 Tongue (Langue (de glace) [fr])

USSR

169

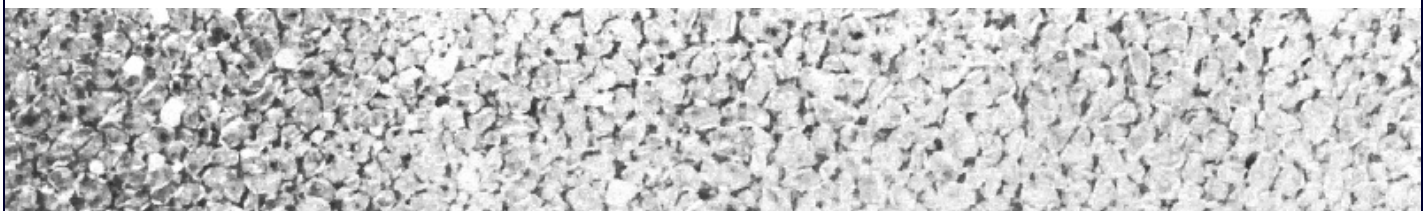


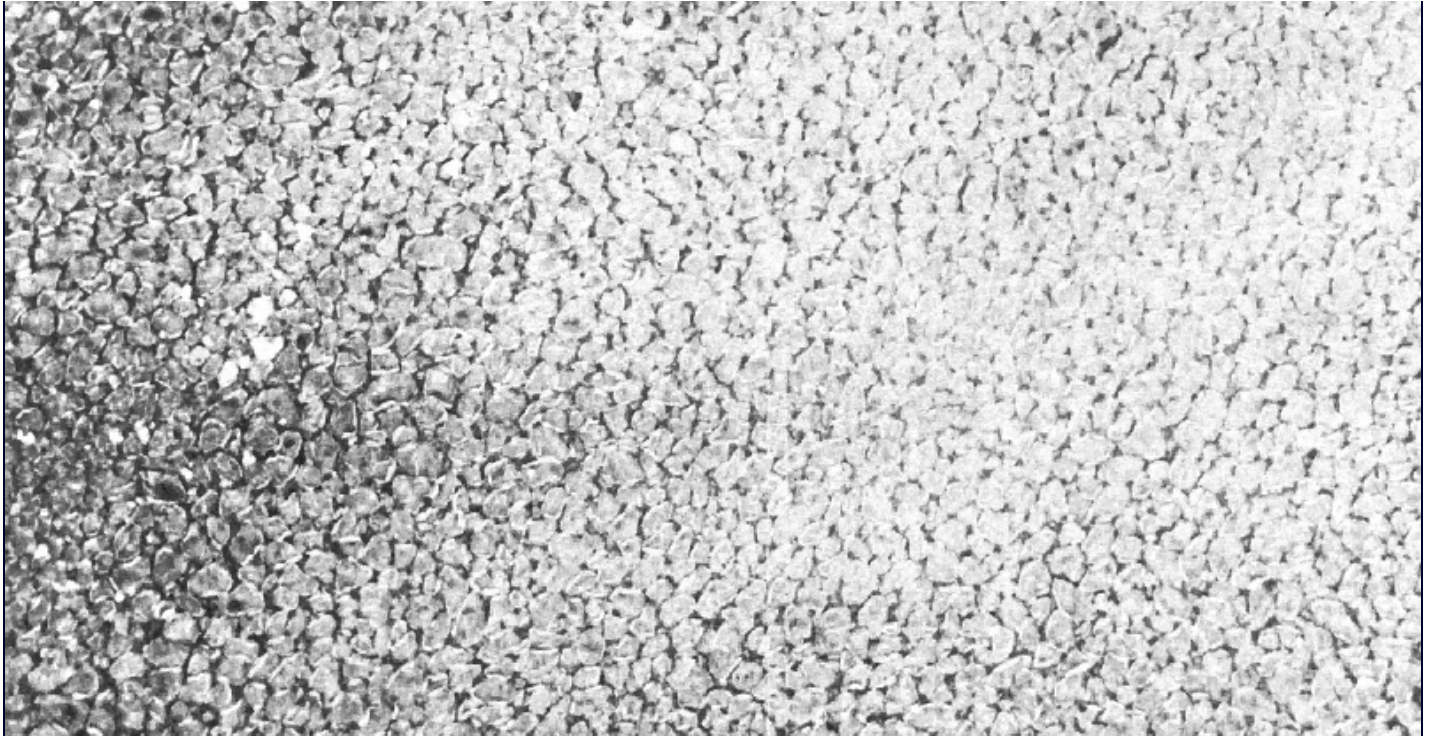
1500

H.H.Valeur, Denmark

4.4.4 Tongue (Langue (de glace) [fr])

170





1000

Armed Forces, Canada

4.2.2 Very close ice (Glacé très serrée [fr])

171





Hamburg, Germany (fed. Rep)

4.2.2 Very close ice (Glacé très serrée [fr])

172





1800

H.H.Valeur, Denmark

4.2.5 Very open ice (Glace très lâche [fr])

173



F.Krugler, Germany (Fed. Rep)

4.2.5 Very open ice (Glace très lâche [fr])

174



600 Armed Forces,Canada

8.2.2.3 Very weathered ridge (Crête très érodée [fr])

175



A.V.Bushuev, USSR

8.2.2.3 Very weathered ridge (Crête très érodée [fr])

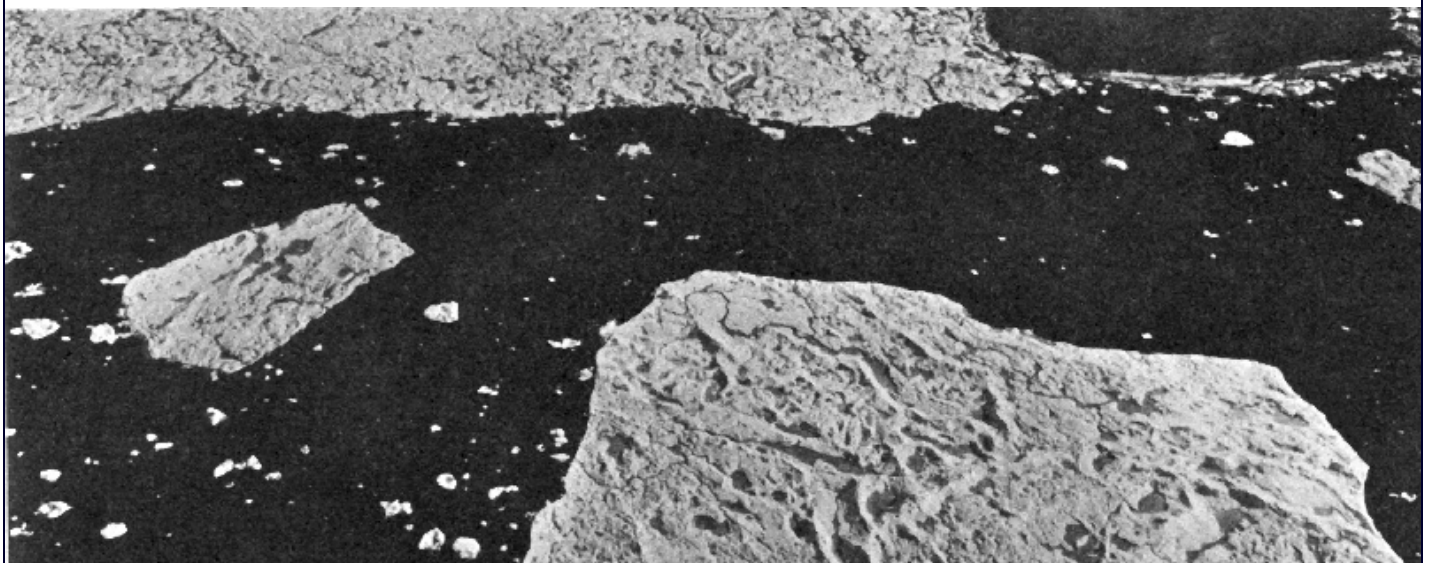
176



11.1 Water sky (Ciel d'eau [fr])

Defence Research Boat, Canada

177





600
8.2.2.2 Weathered ridge (Crête érodée [fr]) Armed Forces, Canada

178





U.S.Navy

8.2.2.2 Weathered ridge (Crête érodée [fr])

179



150

3.1.1 Young coastal ice (Jeune glace côtière [fr])

U.S.Navy

