

WMO SEA-ICE NOMENCLATURE

ILLUSTRATED GLOSSARY - VOLUME II WMO/OMM/BMO - No.259 • Edition 1970 - 2017 Ice terms arranged by subject

1



0

A.Tyuryakov, Russia, AARI

1.1.2 Drift ice / pack ice (Glace dérivante/banquise [fr])

2



0

Russia, AARI

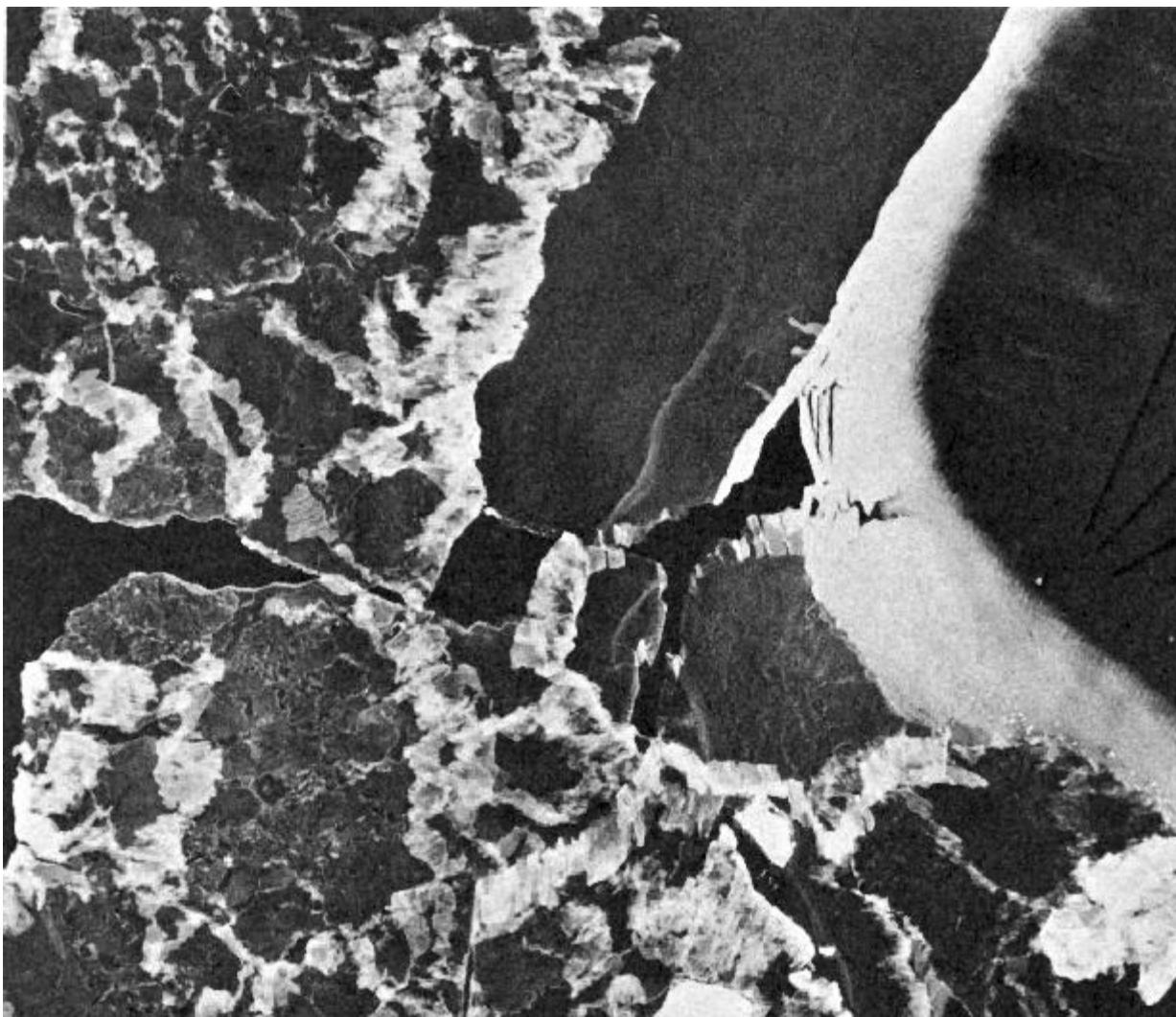
1.2 Ice of land origin (Glace d'origine terrestre [fr])

3



T.Suzuki, Japan

2.1.1 Frazil ice (Frazil [fr])



600

N.M.Shakirov, USSR

2.1.2 Grease ice (Sorbit [fr])



T.C.Pullen,Canada

2.1.2 Grease ice (Sorbit [fr])



100

Yurij Gavrilov, Russia, AARI, Russian Antarctic Expedition

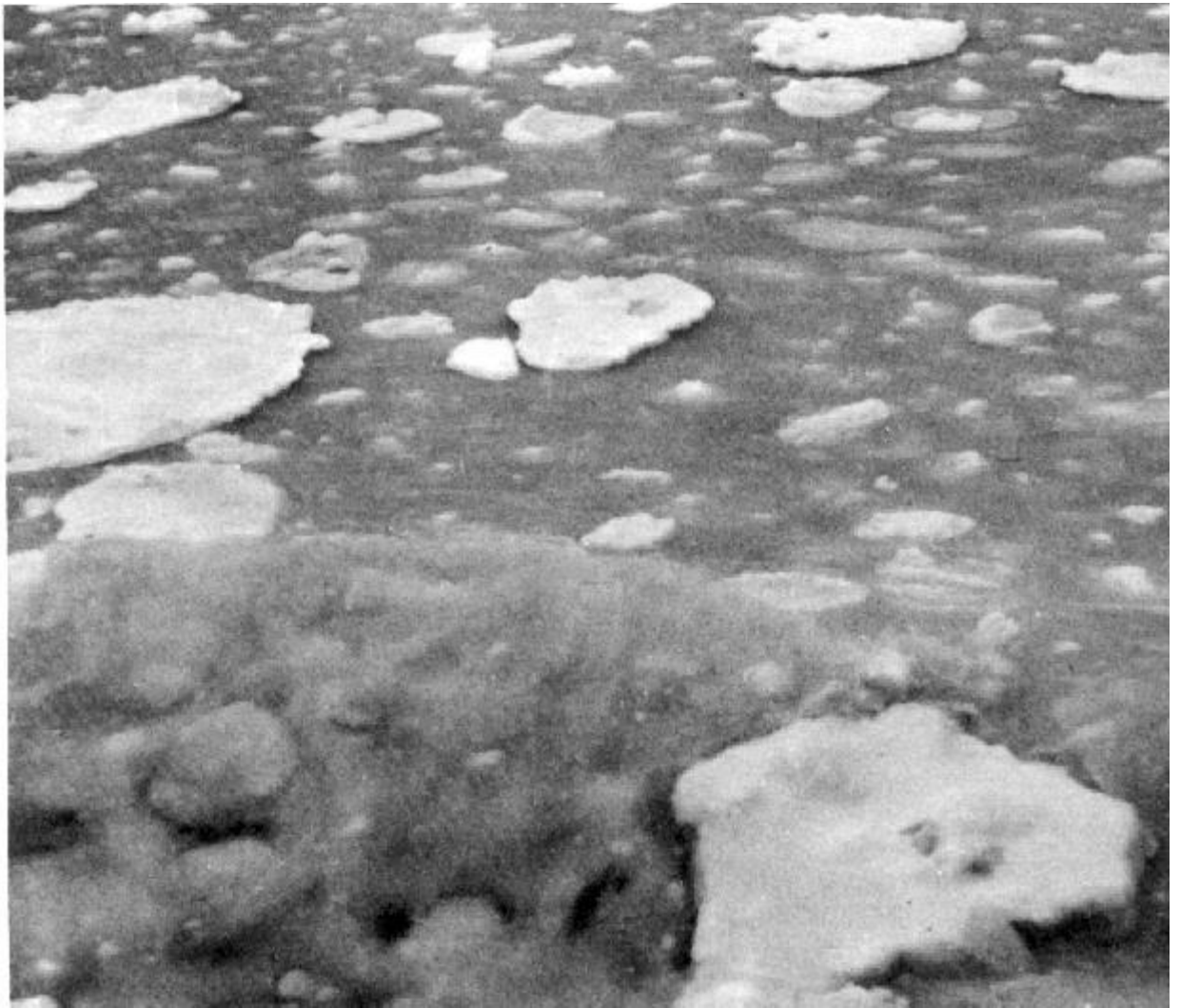
2.1.2 Grease ice (Sorbet [fr])



600

N.M.Shakirov, USSR

2.1.3 Slush (Gadoue [fr])



K.S.Simpson, Canada

2.1.3 Slush (Gadoue [fr])



600

Armed Forces,Canada

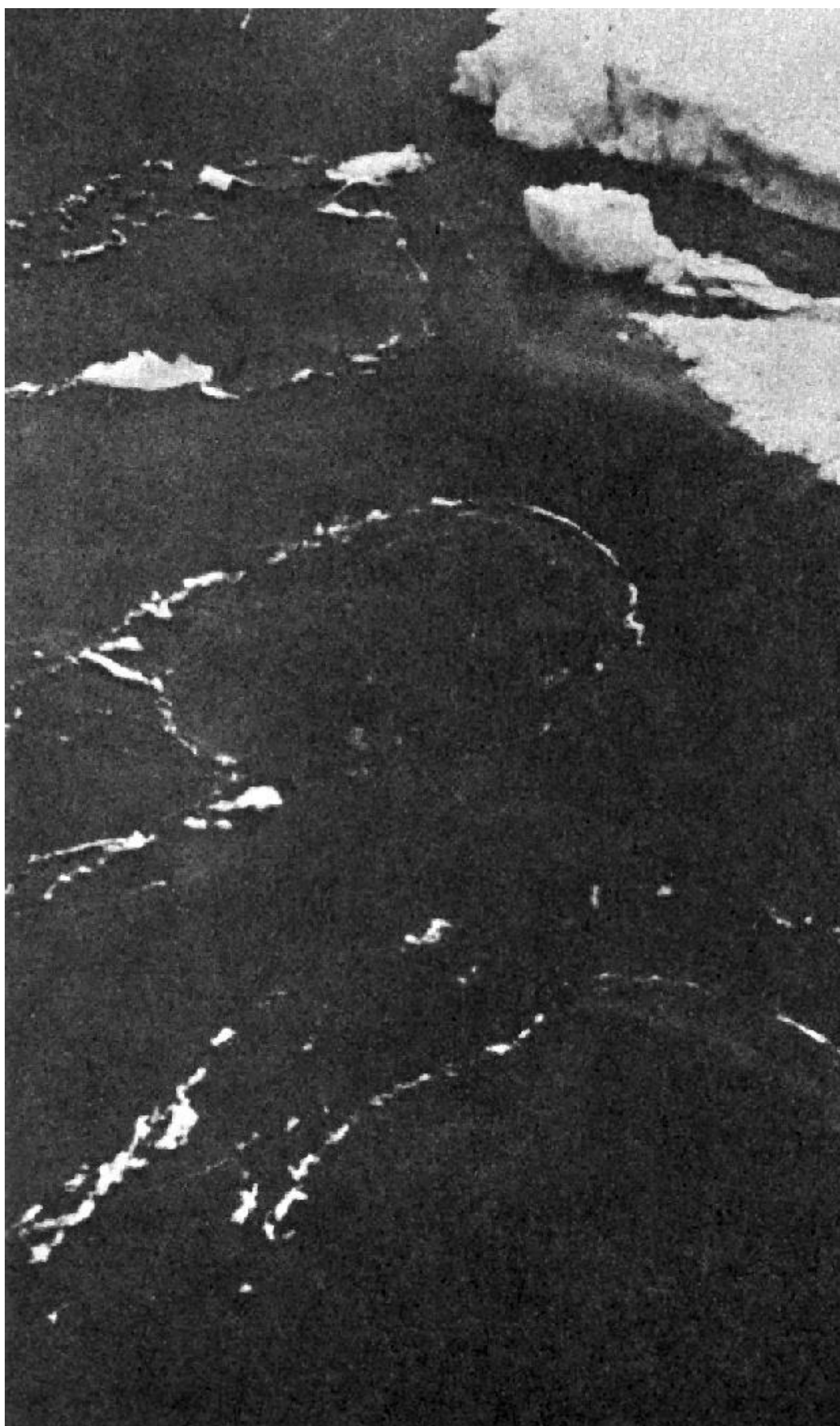
2.1.4 Shuga (Shuga [fr])

10



J.A.Weaver,Canada

2.1.4 Shuga (Shuga [fr])

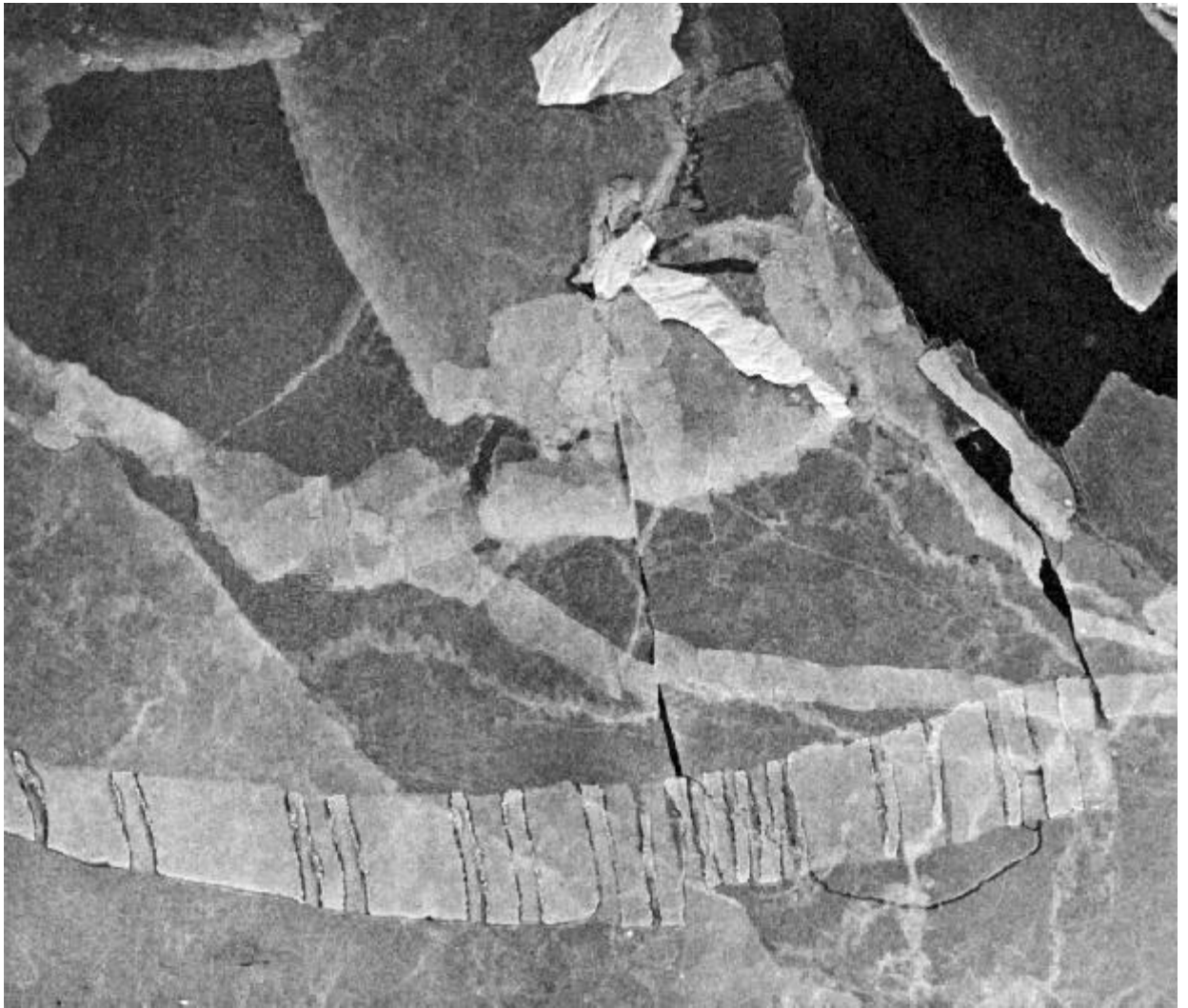




1800

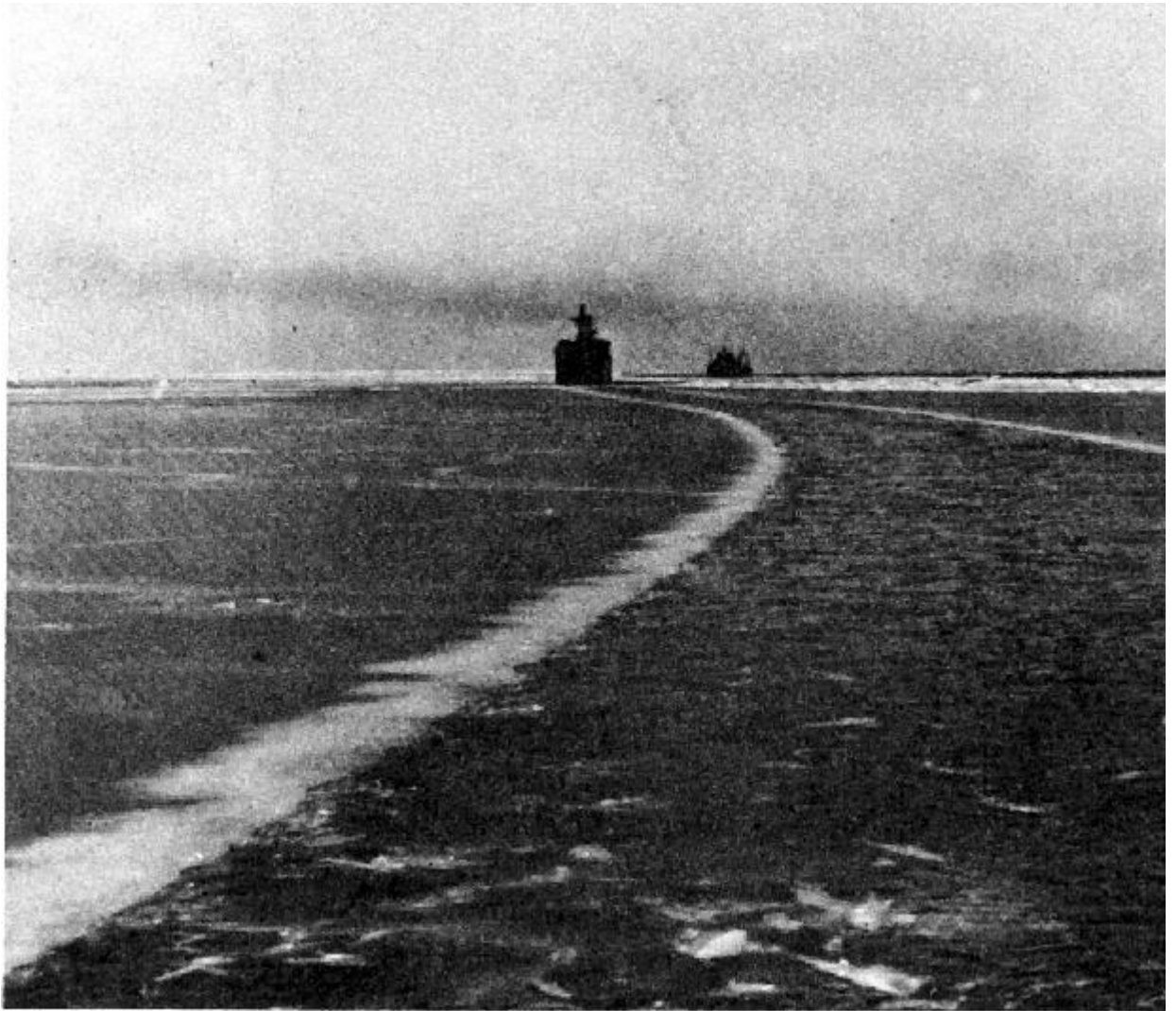
H.H.Valeur, Denmark

2.2.1 Dark nilas (Nilas sombre [fr])



N.M.Shakirov, USSR

2.2.2 Light nilas (Nilas clair [fr])



V.Yanike, USSR

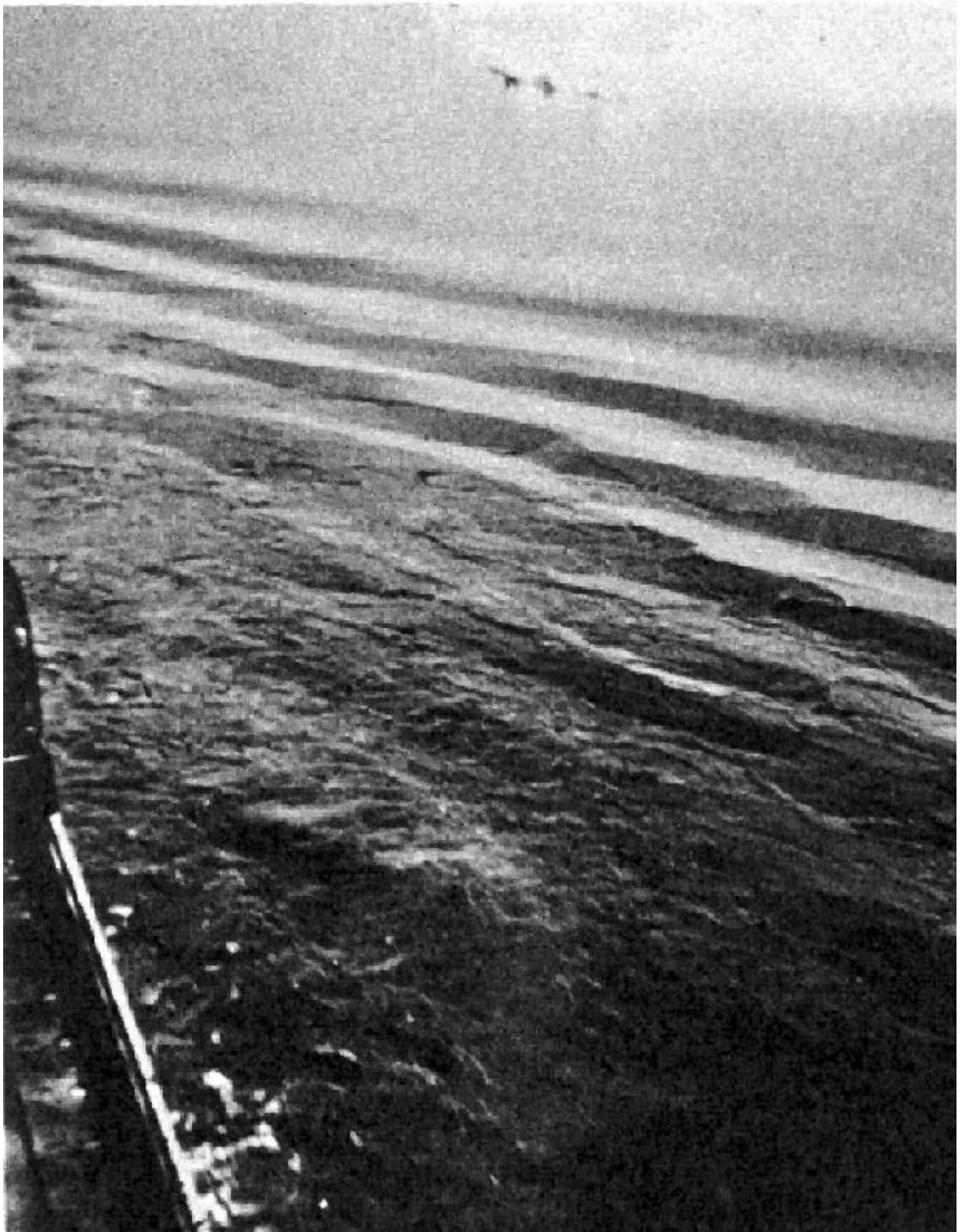
2.2.2 Light nilas (Nilas clair [fr])



1800

H.H.Valeur, Denmark

2.2.3 Ice rind (Glace vitrée [fr])



T.Armstrong, Gt.Britain

2.2.3 Ice rind (Glace vitrée [fr])



750

Armed Forces, Canada

2.4.1 Grey ice (Glace grise [fr])



Defence Research Boat, Canada

2.4.1 Grey ice (Glace grise [fr])



300

A.V.Bushuev, USSR

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



Defence Research Boat, Canada

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



750

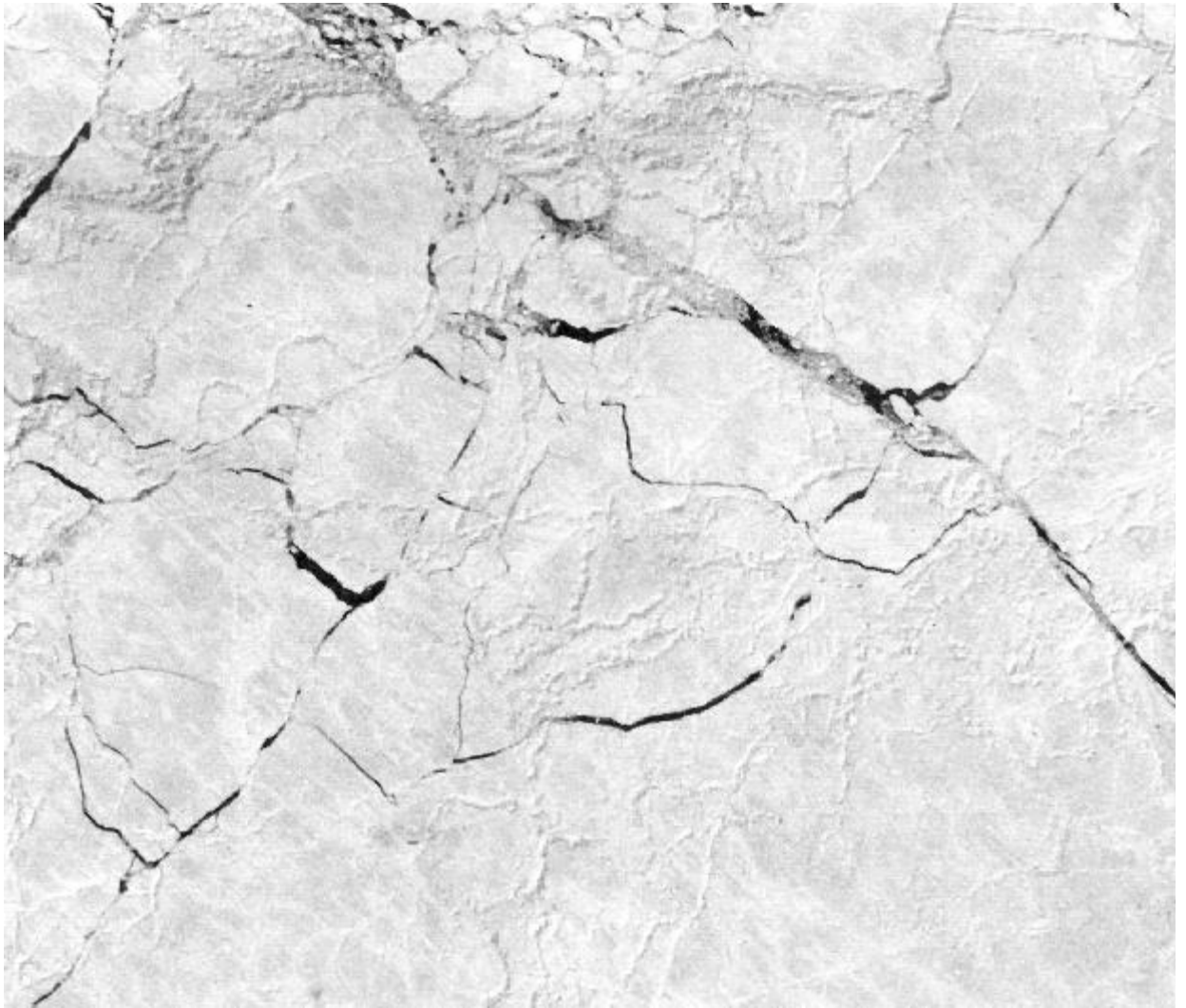
Armed Forces, Canada

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



Defence Research Boat, Canada

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



1350

Armed Forces, Canada

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



A.V.Bushuev, USSR

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



400

V.S.Loshchilov, USSR

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



A.V.Bushuev, USSR

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



10000

N.M.Shakirov, USSR

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



A.V.Bushuev, USSR

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

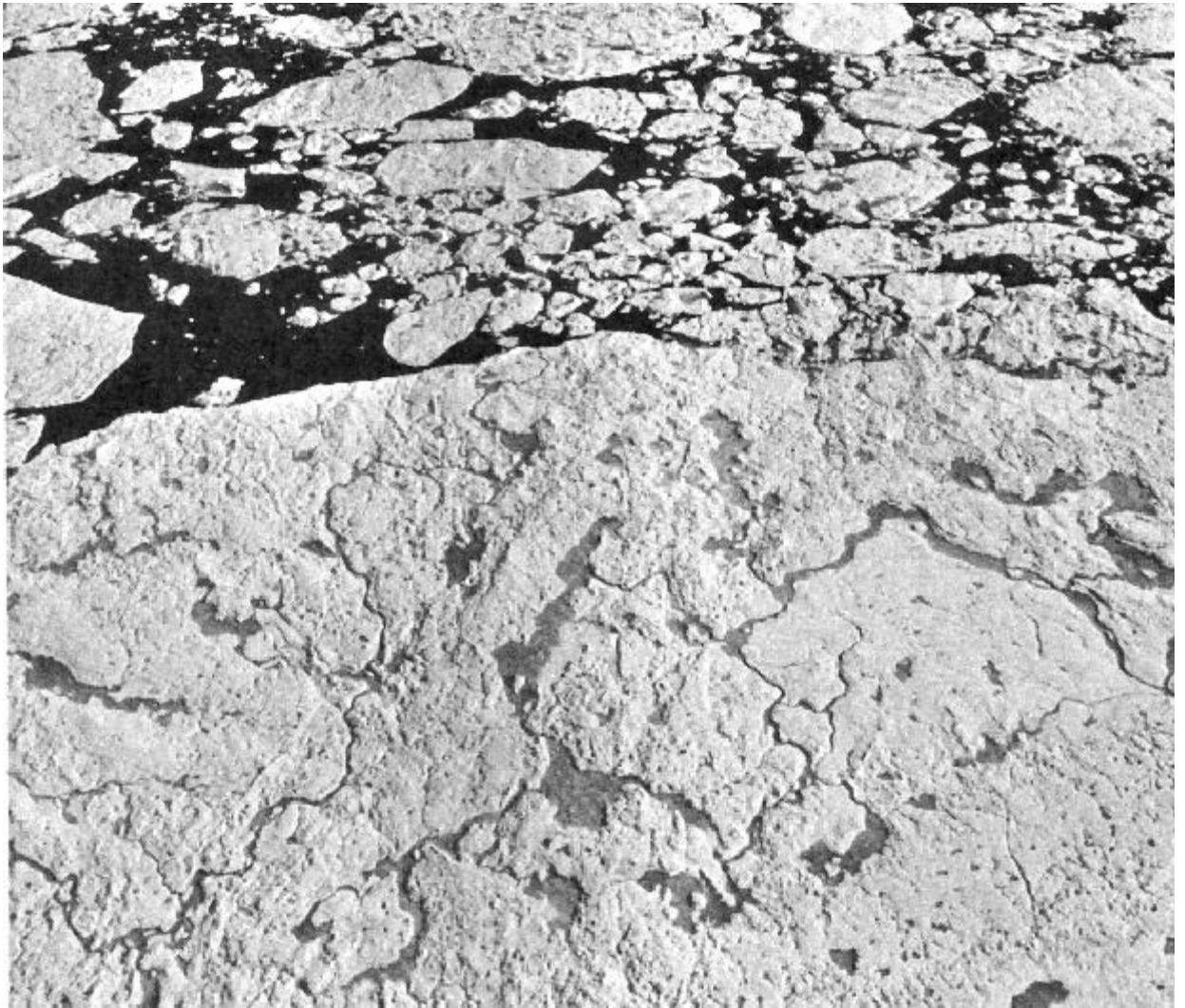


300

R.H.W.Hill, Canada

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

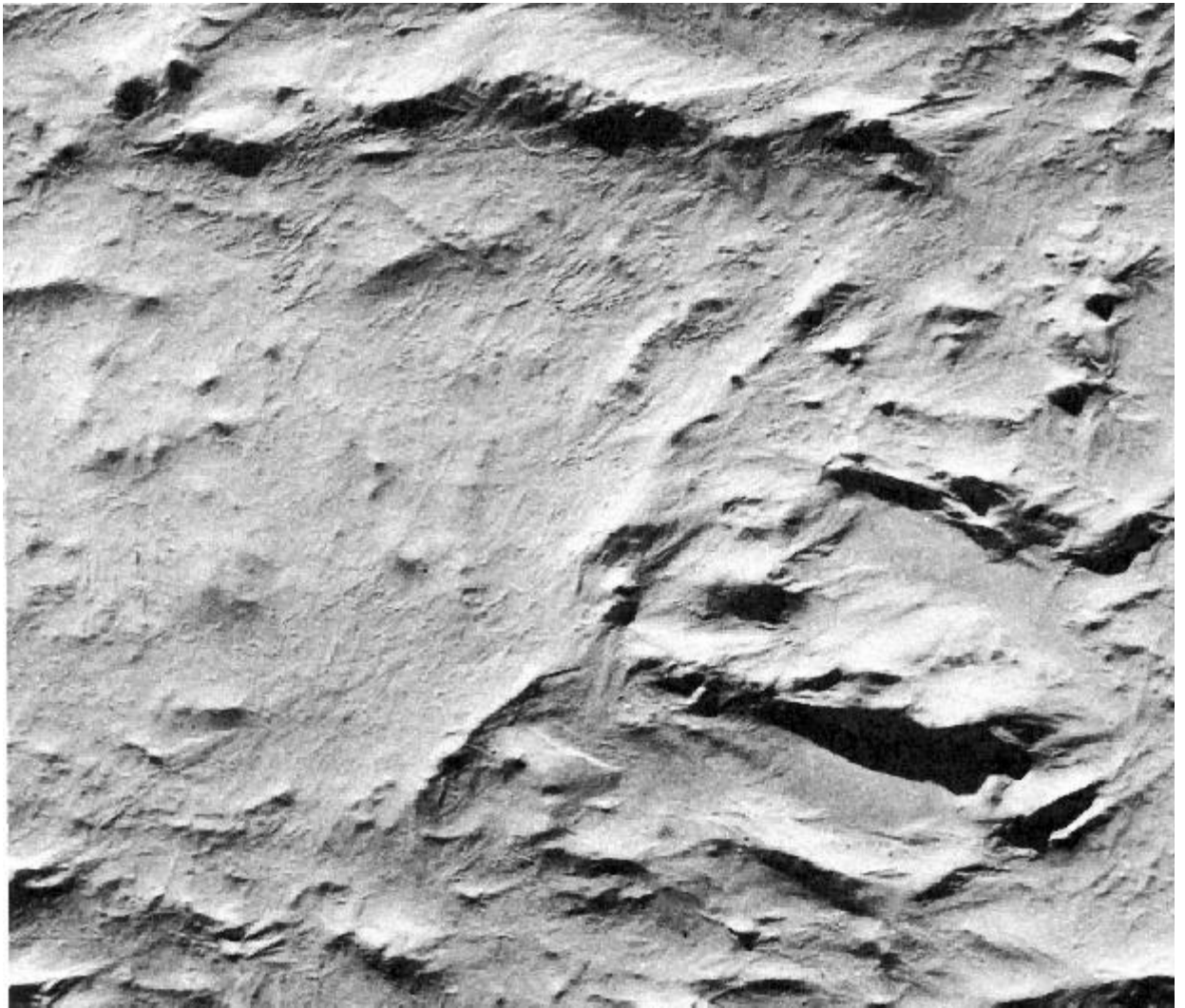
30



600

Armed Forces, Canada

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



2000

N.M.Shakirov, USSR

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



A.V.Bushuev, USSR

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



1500

Armed Forces, Canada

3.1 Fast ice (Banquise côtière [fr])



R.Van Humbeck, Canada

3.1 Fast ice (Banquise côtière [fr])

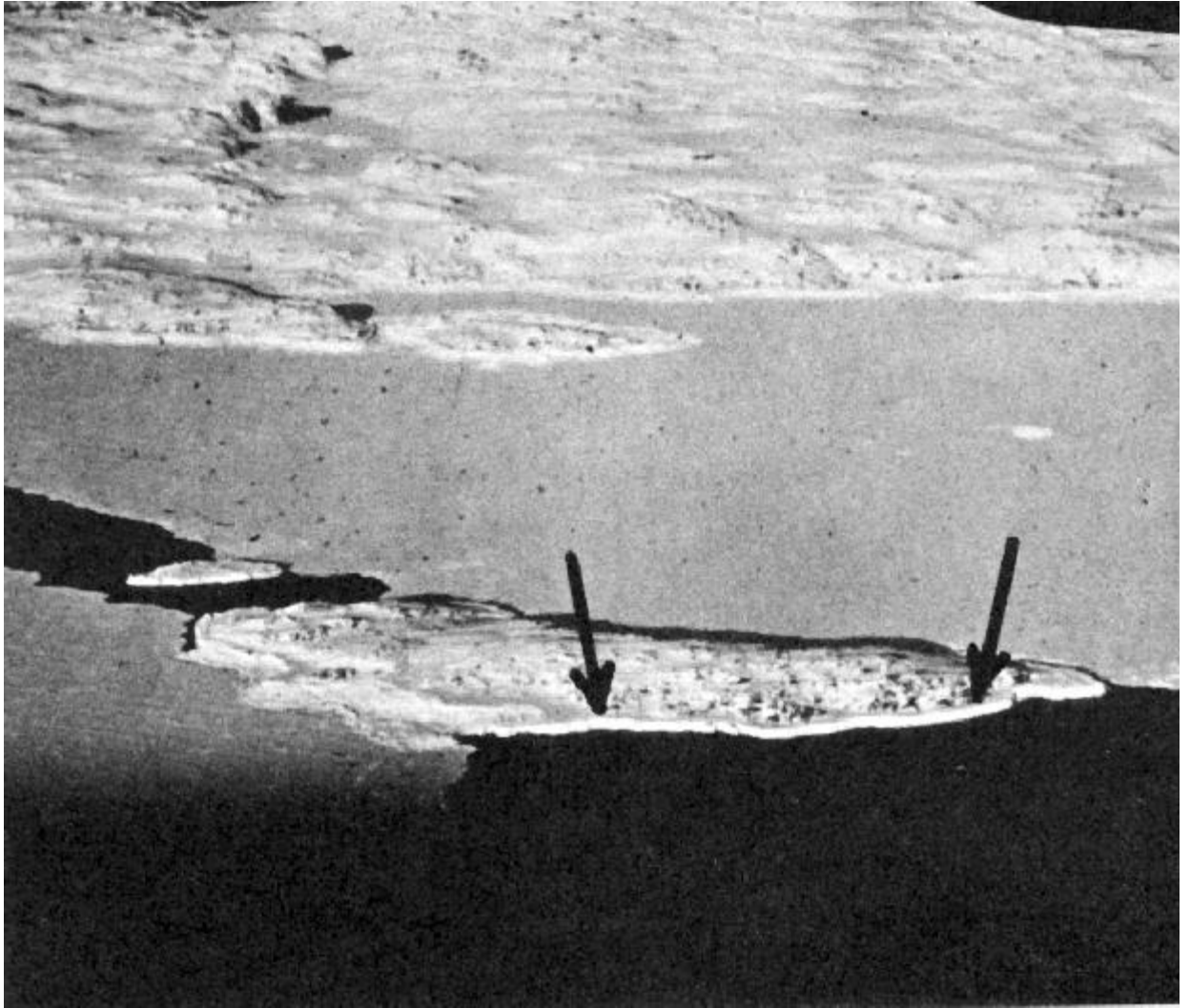


150

U.S.Navy

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





H.H.Valeur, Denmark

3.2 Icefoot (Banquette côtière [fr])



H.H.Valeur, Denmark

3.2 Icefoot (Banquette côtière [fr])



R.H.W.Hill, Canada

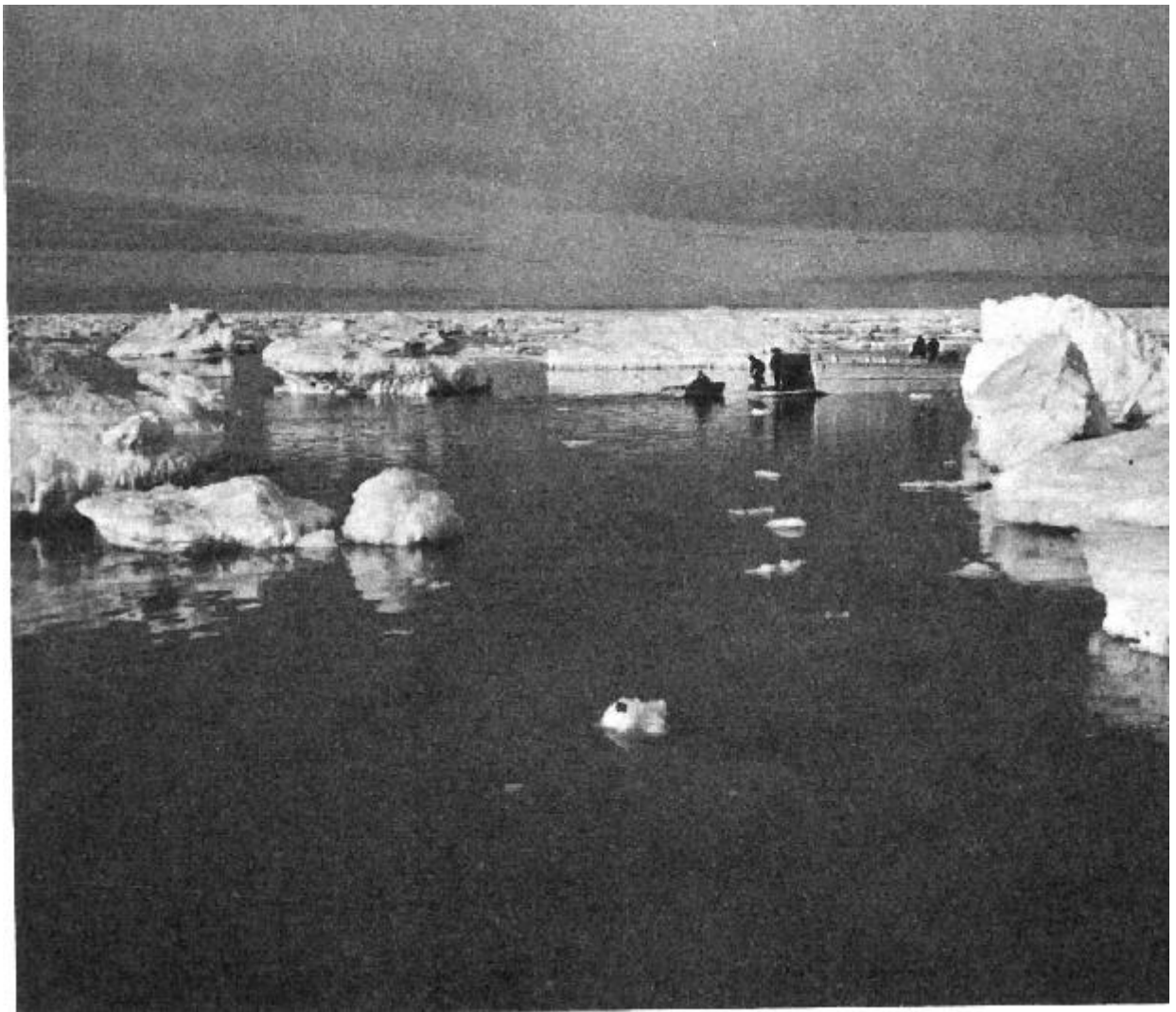
3.3 Anchor ice (Glace de fond [fr])



100

Defence Research Boat, Canada

3.4 Grounded ice (Glace échouée [fr])



Armed Forces, Canada

3.4 Grounded ice (Glace échouée [fr])



Hydrographic Service, Canada

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



500

Hydrometeorological Inst., USSR

3.4.2 Grounded hummock (Hummock échoué [fr])



USSR

3.4.2 Grounded hummock (Hummock échoué [fr])



500

Armed Forces, Canada

4.2.1 Compact ice (Glace compacte [fr])



Meteorological Agency, Japan

4.2.1 Compact ice (Glace compacte [fr])



200

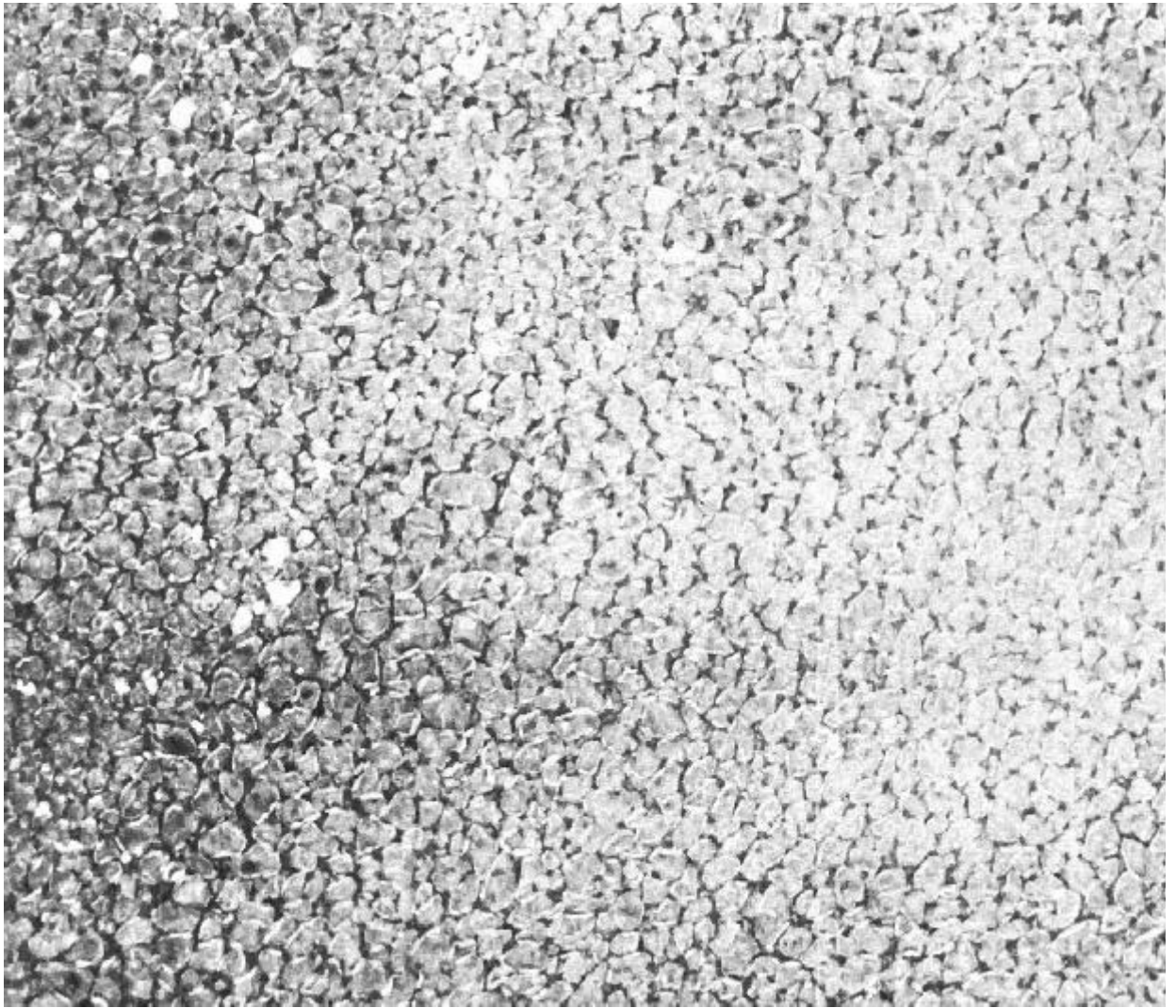
Armed Forces, Canada

4.2.1.1 Consolidated ice (Glace consolidée [fr])



J.F.Hurley, Gt.Britain

4.2.1.1 Consolidated ice (Glace consolidée [fr])



1000

Armed Forces, Canada

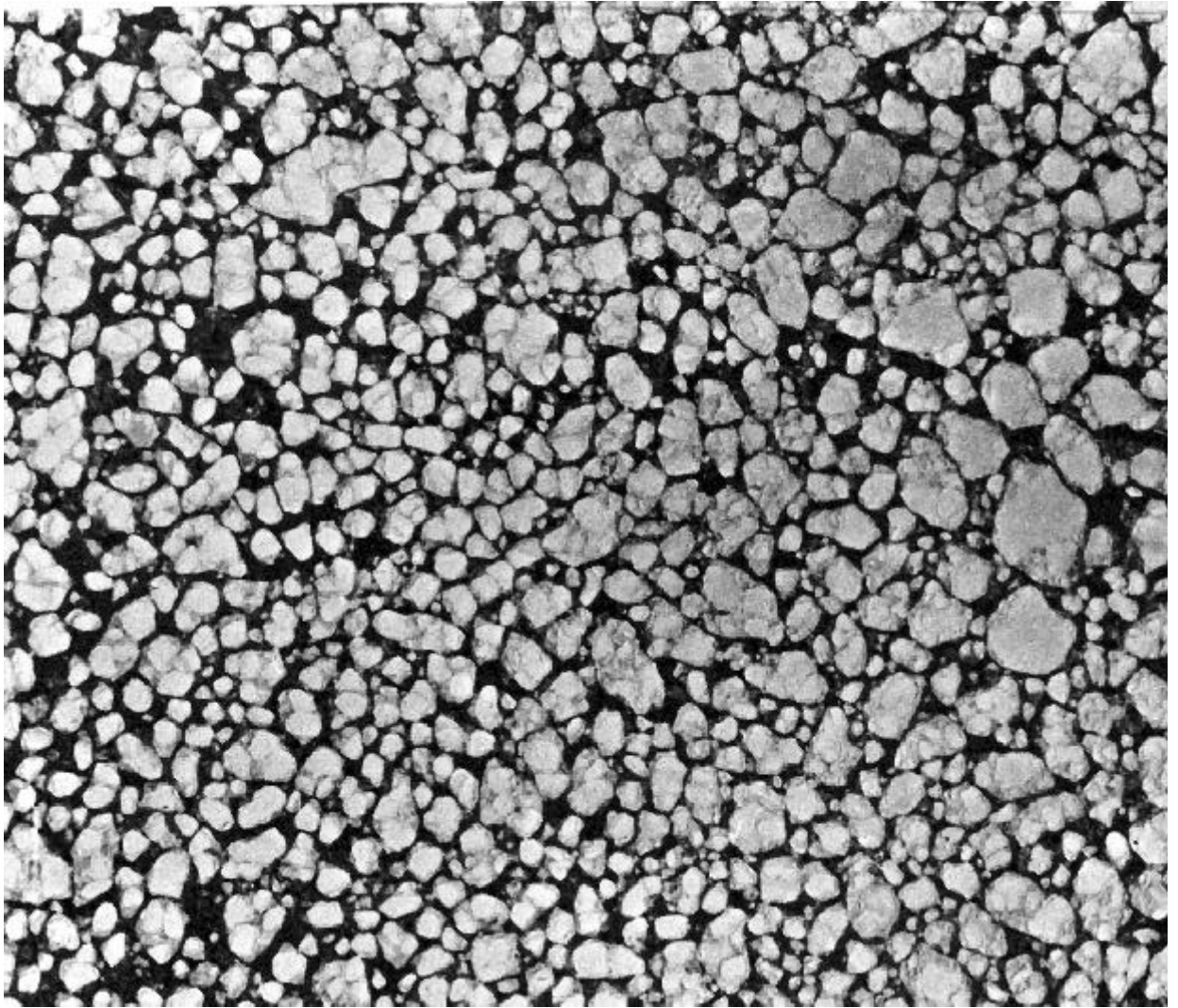
4.2.2 Very close ice (Glace très serrée [fr])

50



Hamburg, Germany (fed. Rep)

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



300

USSR

4.2.3 Close ice (Glace serrée [fr])

52



R. Van Humbeck, Canada

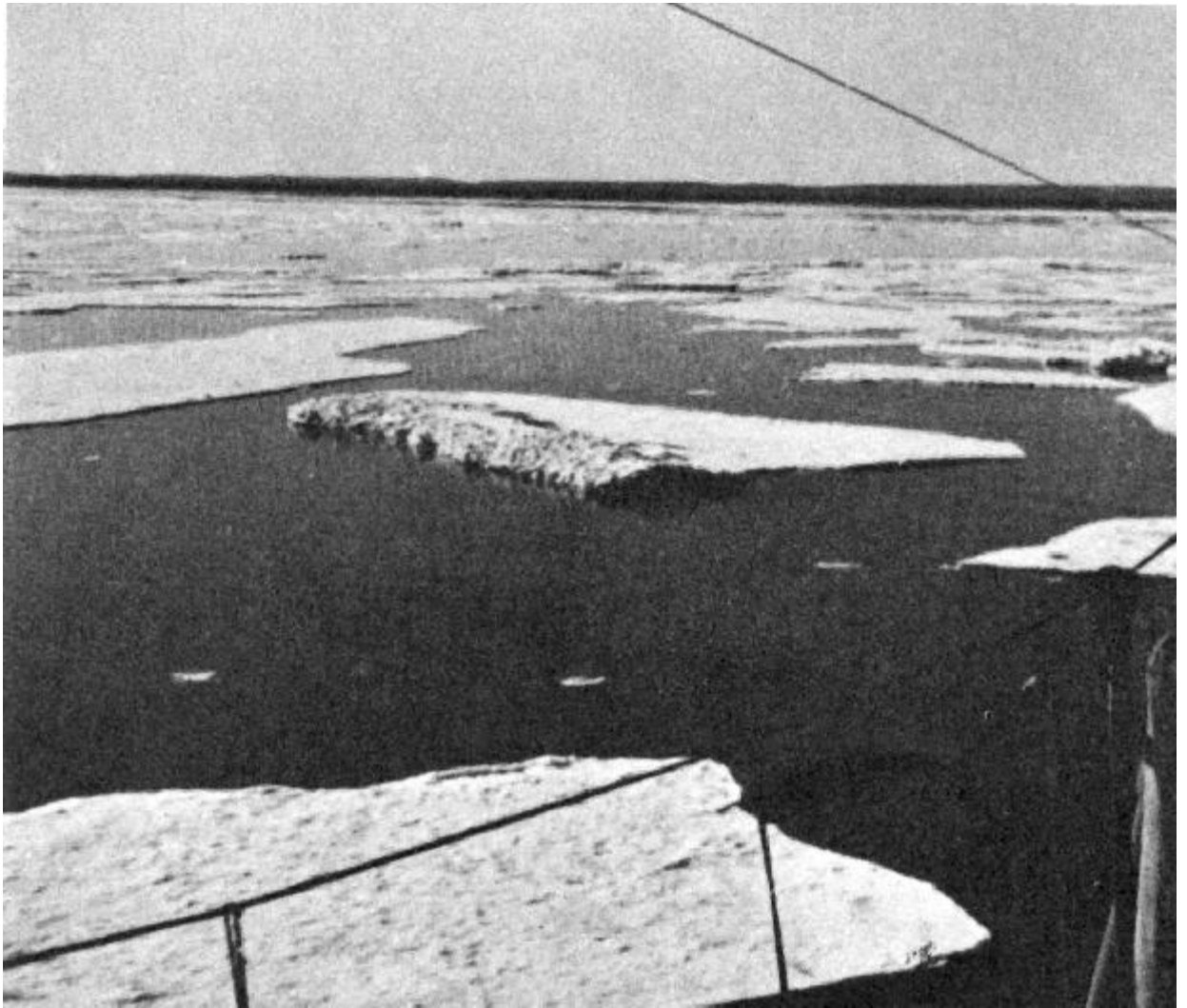
4.2.3 Close ice (Glace serrée [fr])



1800

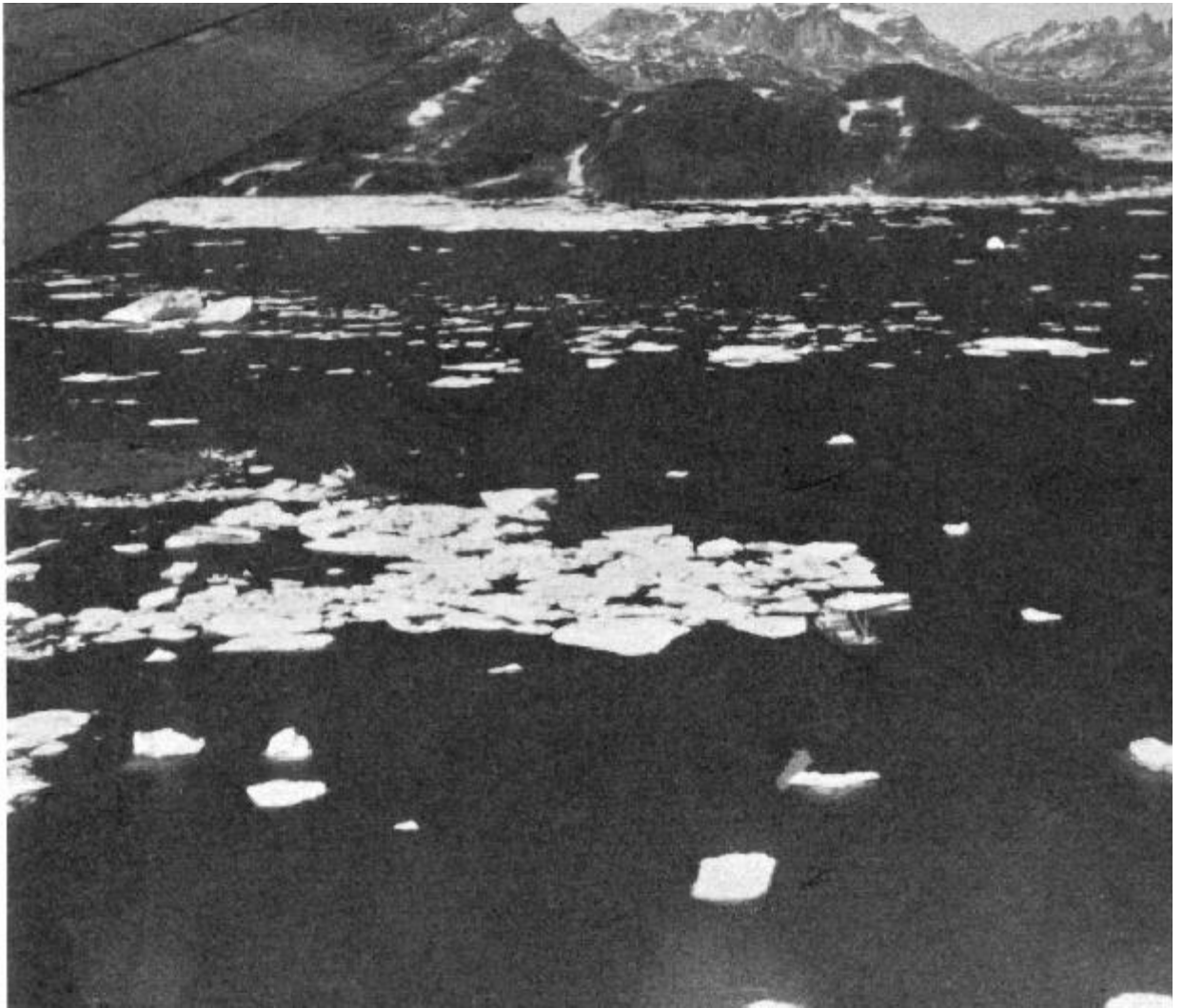
H.H.Valeur, Denmark

4.2.4 Open ice (Glace lâche [fr])



B.Rodhe, Sweden

4.2.4 Open ice (Glacé lâche [fr])



1800

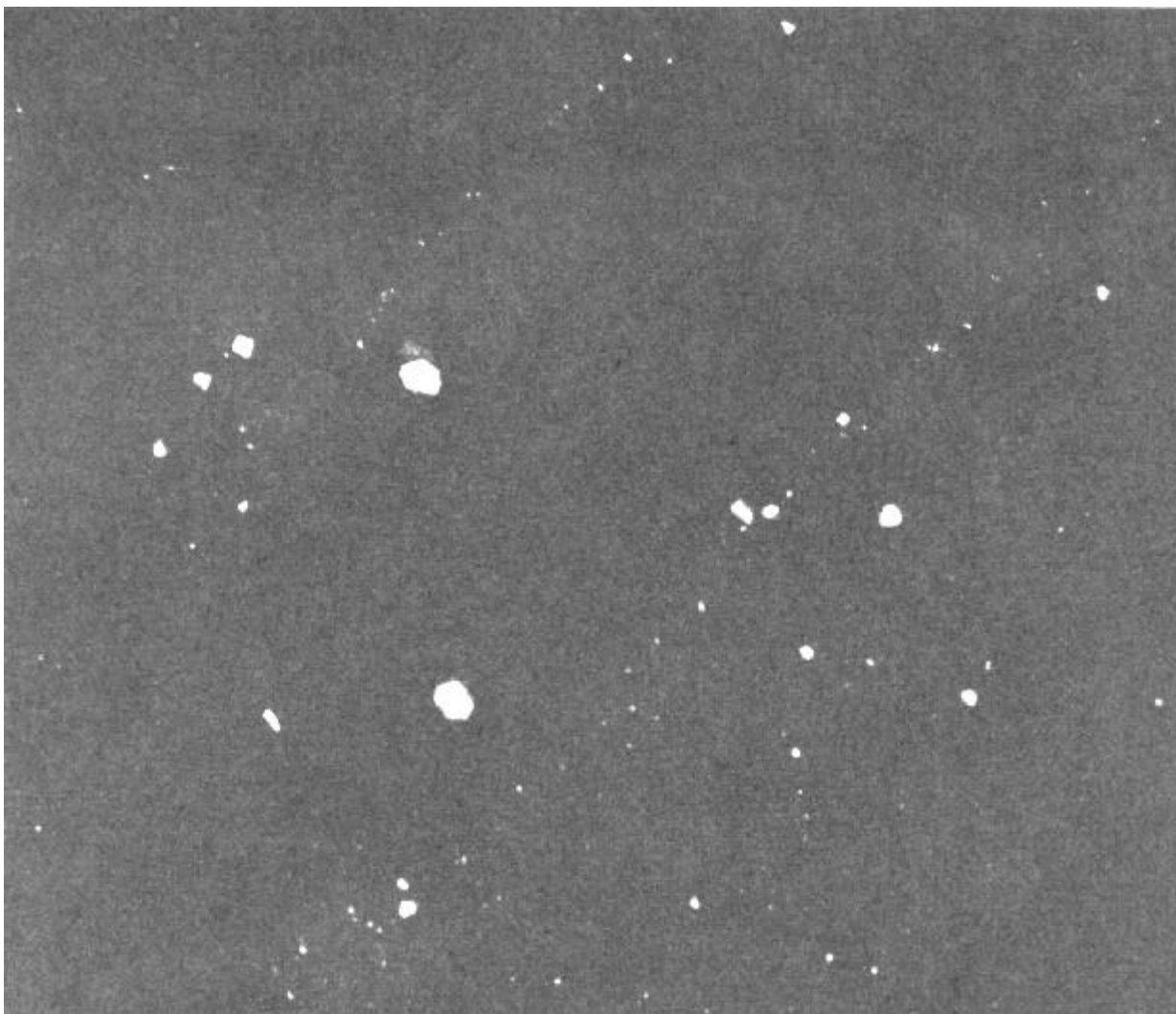
H.H.Valeur, Denmark

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



F.Krugler, Germany (Fed. Rep)

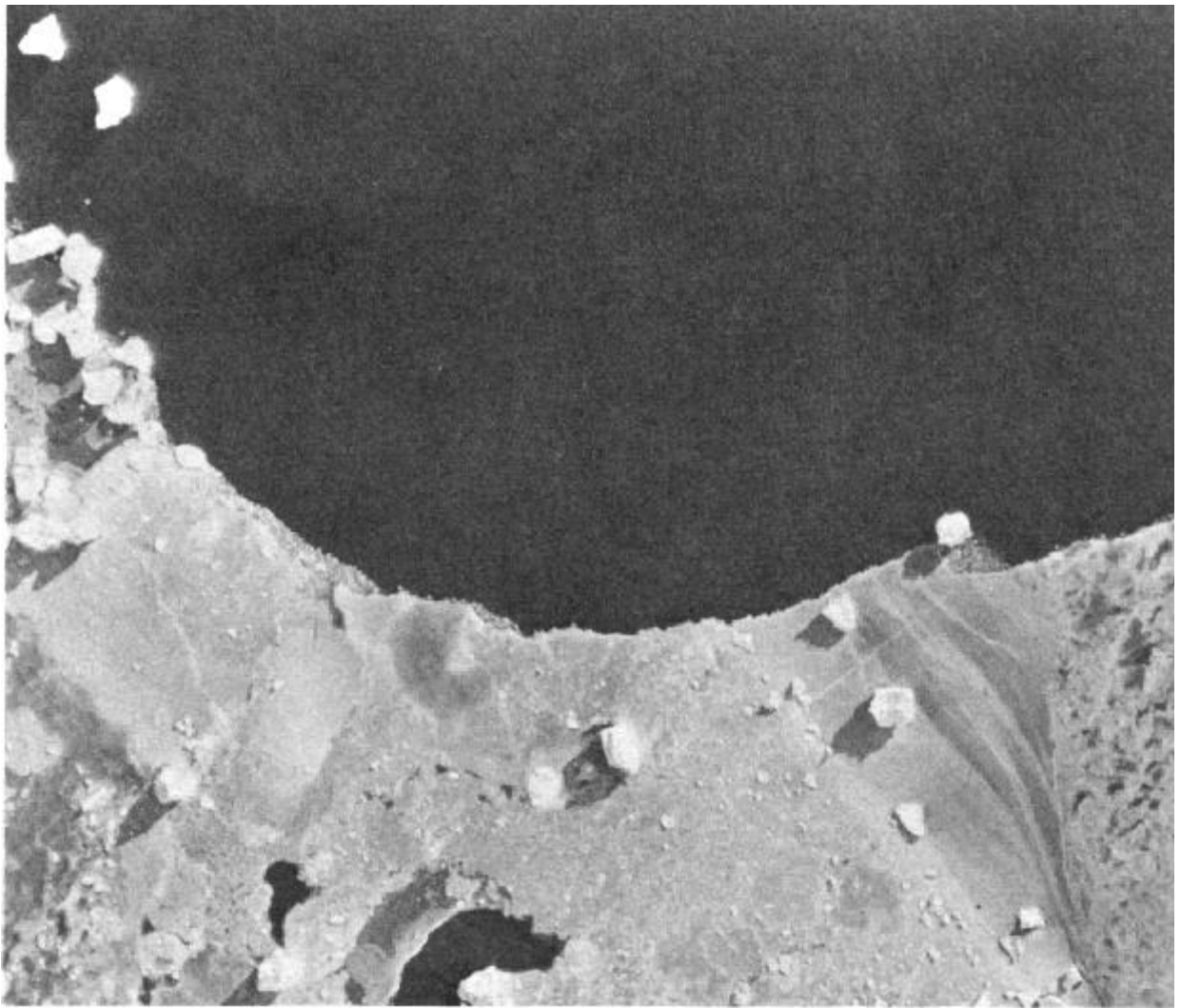
4.2.5 Very open ice (Glace très lâche [fr])



600

Armed Forces, Canada

4.2.6 Open water (Eau libre [fr])



600

Hydrometeorological Inst., USSR

4.2.7 Bergy water (Bergy water [fr])

59



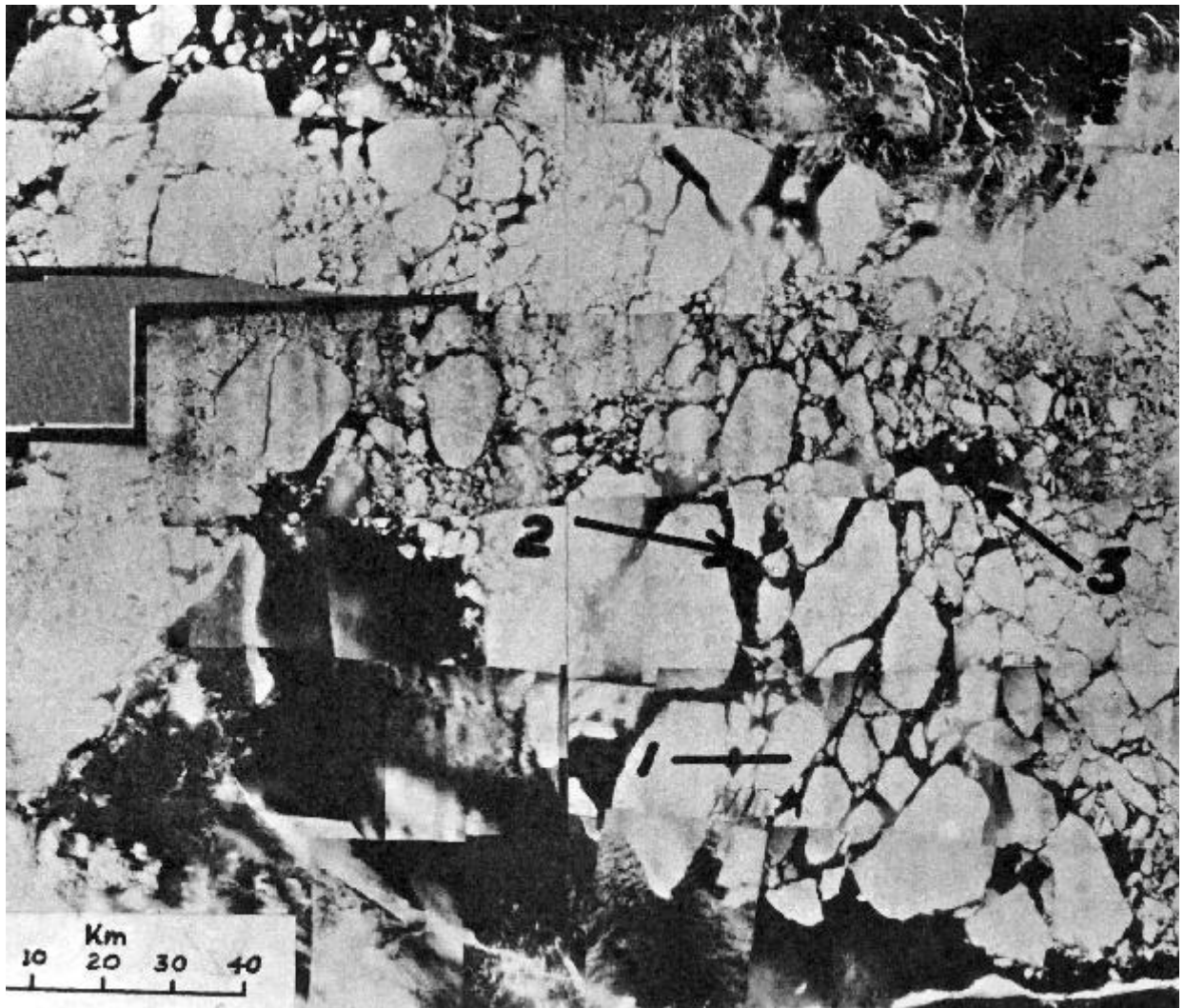
Inst. Low Temperature Science, Japan

4.3.1 Pancake ice (Glace en crêpes [fr])



Antarctic Inst., Argentina

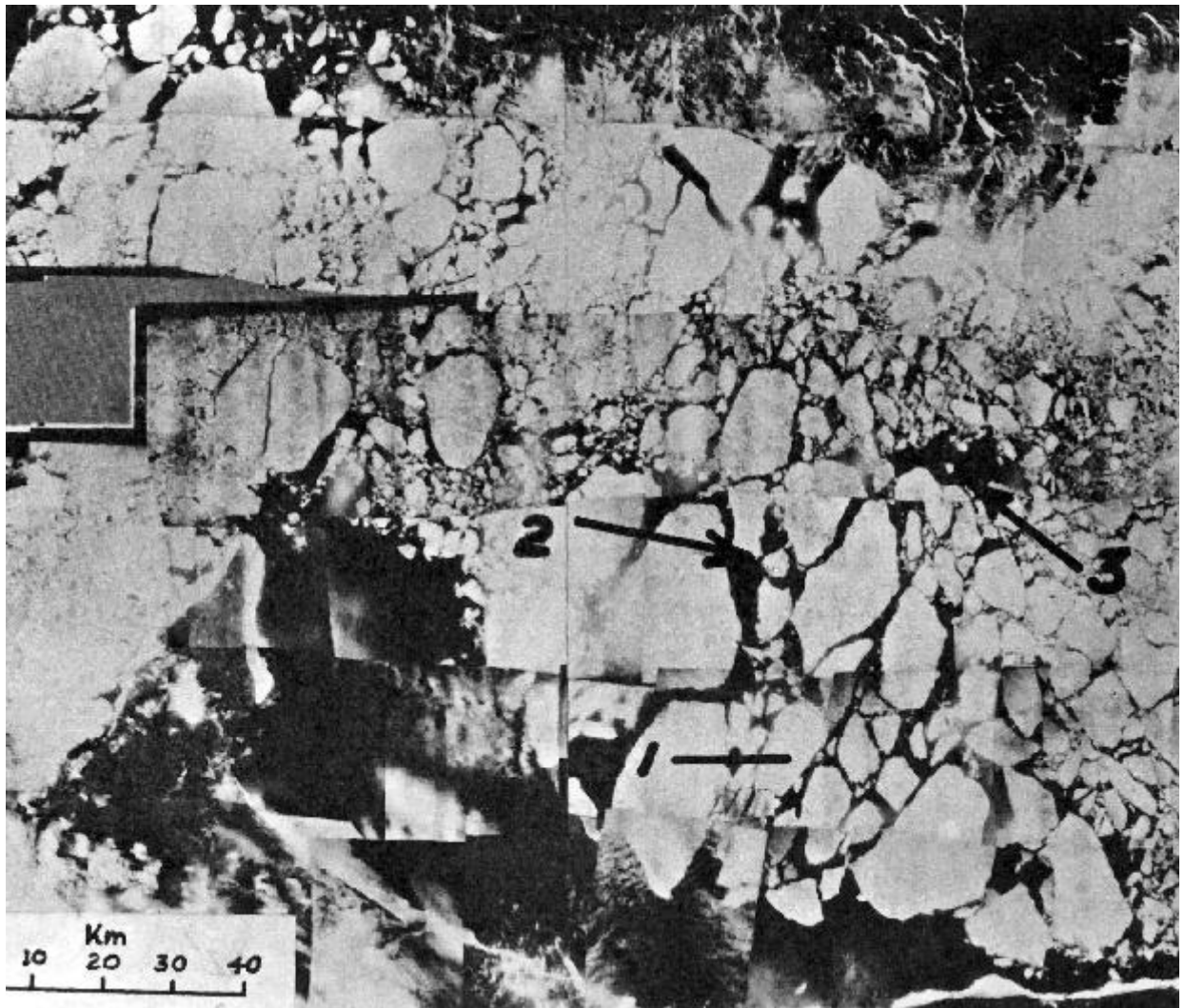
4.3.1 Pancake ice (Glace en crêpes [fr])



12000

Armed Forces, Canada

4.3.2.1 Floe giant (Géant [fr])



12000

Armed Forces, Canada

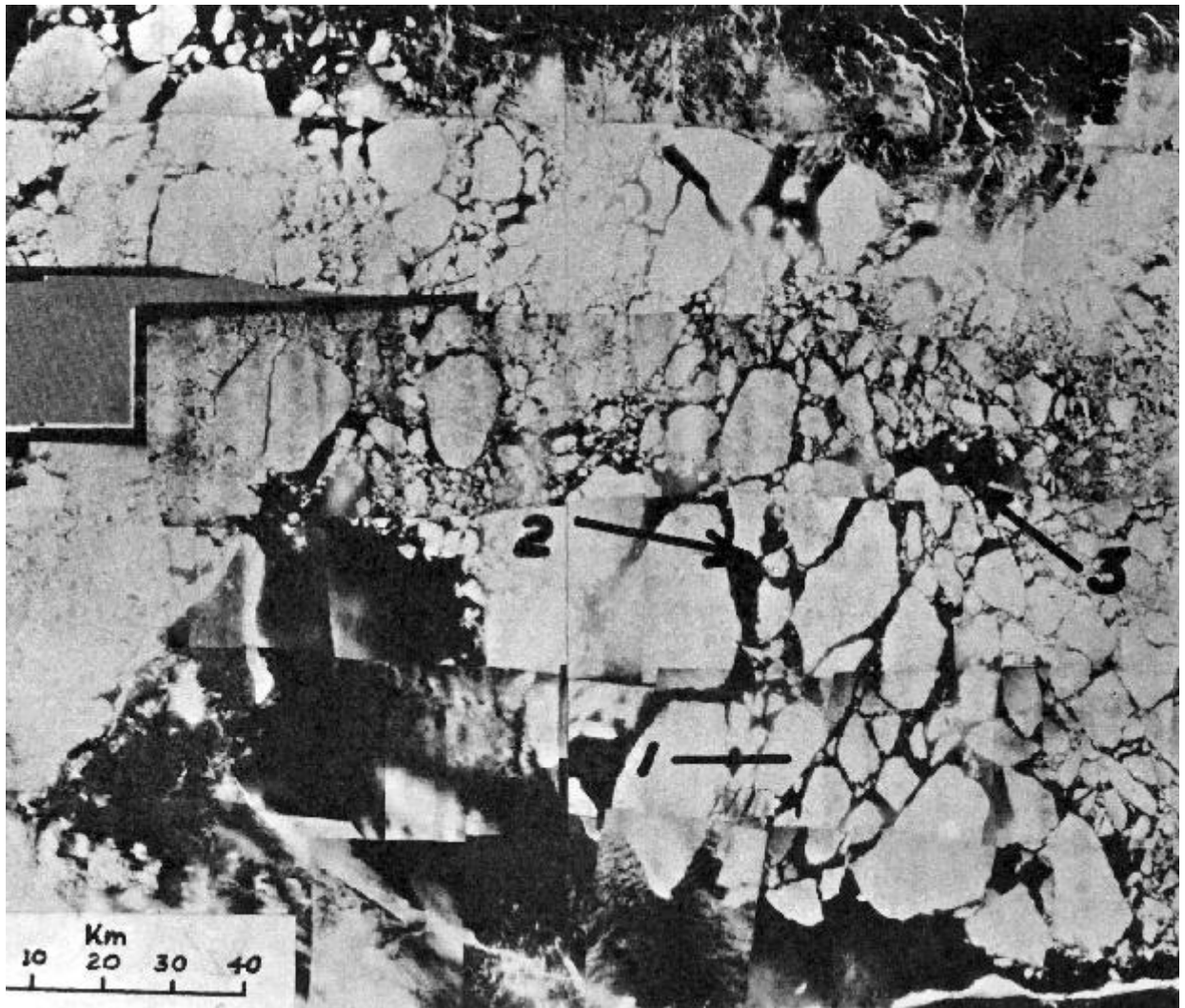
4.3.2.2 Floe vast (Immense [fr])



1800

H.H.Valeur, Denmark

4.3.2.2 Floe vast (Immense [fr])



12000

Armed Forces, Canada

4.3.2.3 Floe big (Grand [fr])

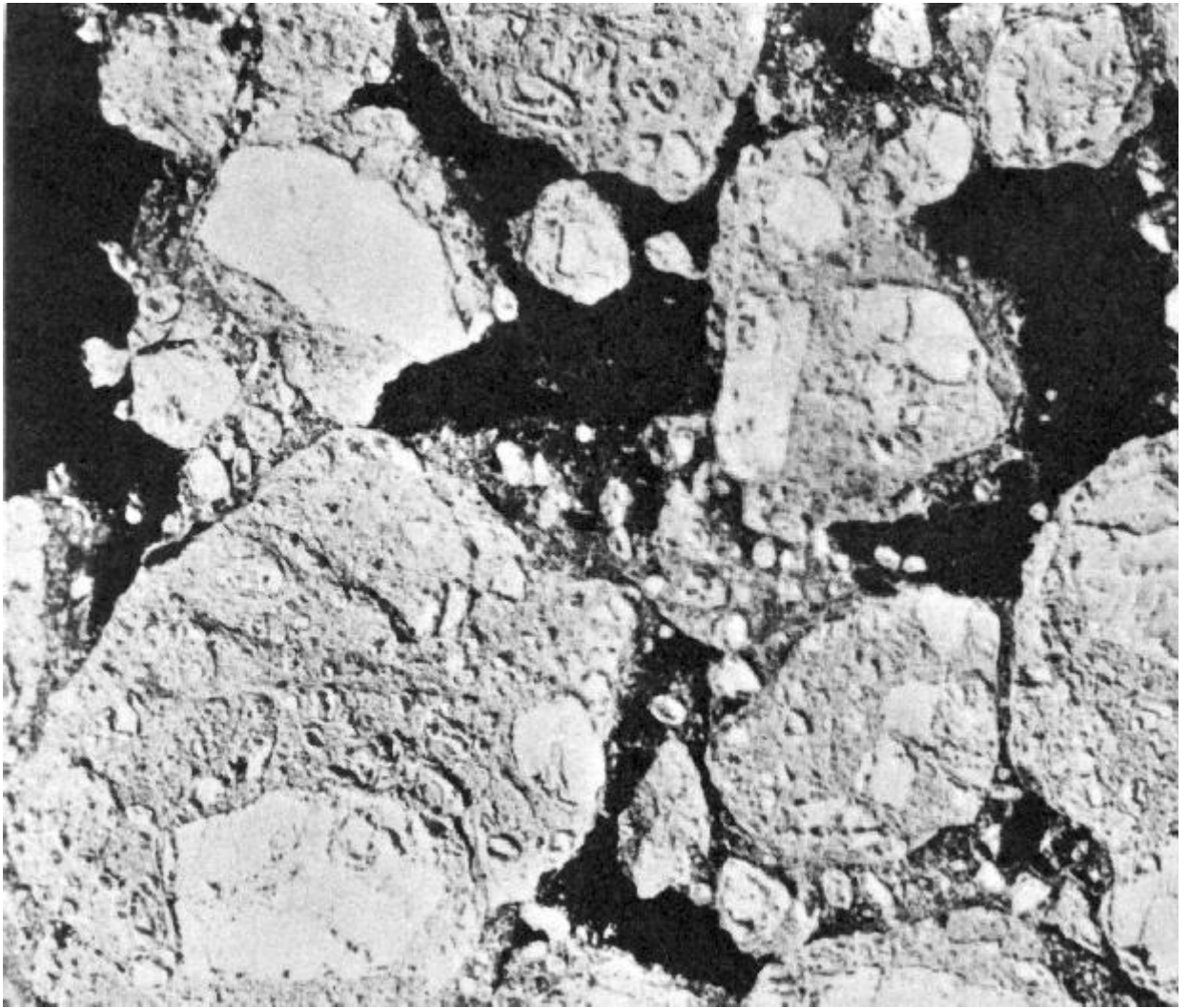


600

Armed Forces, Canada

4.3.2.3 Floe big (Grand [fr])

66



500

Hydrometeorological Inst., USSR

4.3.2.4 Floe medium (Moyen [fr])



Hakodate Marine Observatory(JMA), Japan

4.3.2.4 Floe medium (Moyen [fr])



100

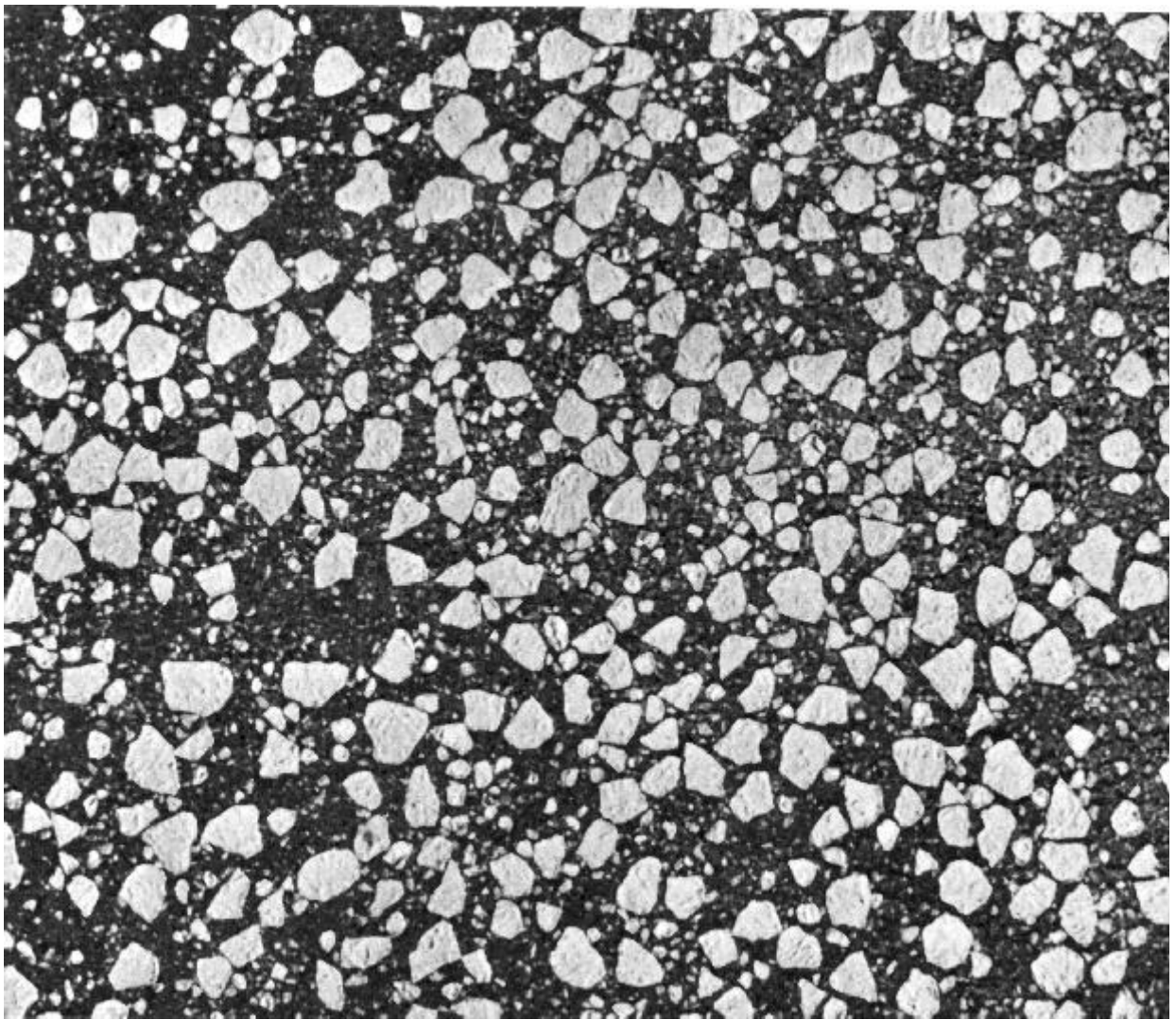
Armed Forces, Canada

4.3.2.5 Floe small (Petit [fr])



Meteorological Agency, Japan

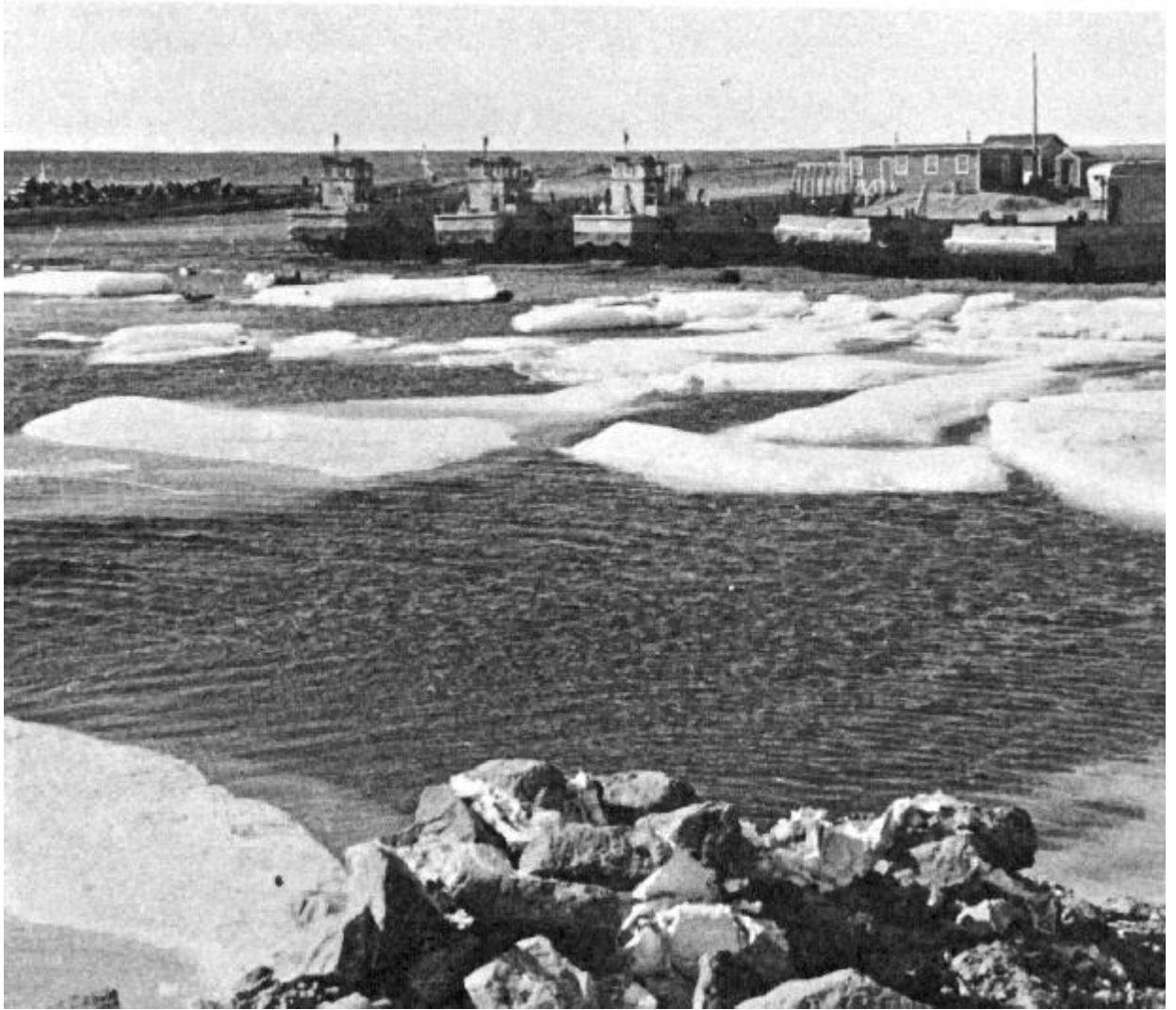
4.3.2.5 Floe small (Petit [fr])



250

Hamburg, Germany (fed. Rep)

4.3.2.6 Ice cake (Glaçon [fr])



Hydrographic Service, Canada

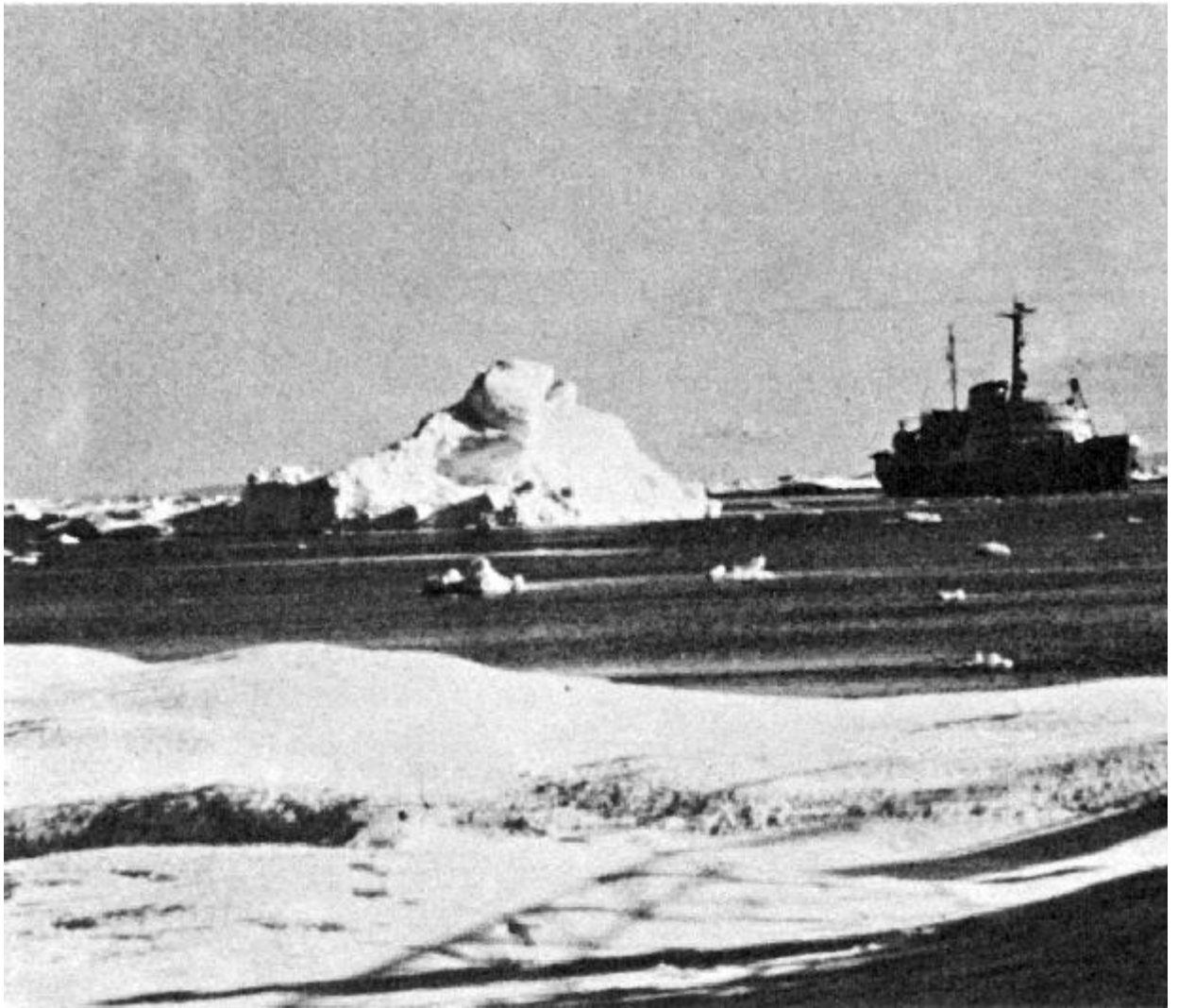
4.3.2.6 Ice cake (Glaçon [fr])



600

ARmed Forces, Canada

4.3.4 Floeberg (Floeberg [fr])



Defence Research Boat, Canada

4.3.4 Floeberg (Floeberg [fr])



500

USSR

4.3.5 Ice breccia (Mosaïque de glace [fr])

75



600

N.M.Shakirov, USSR

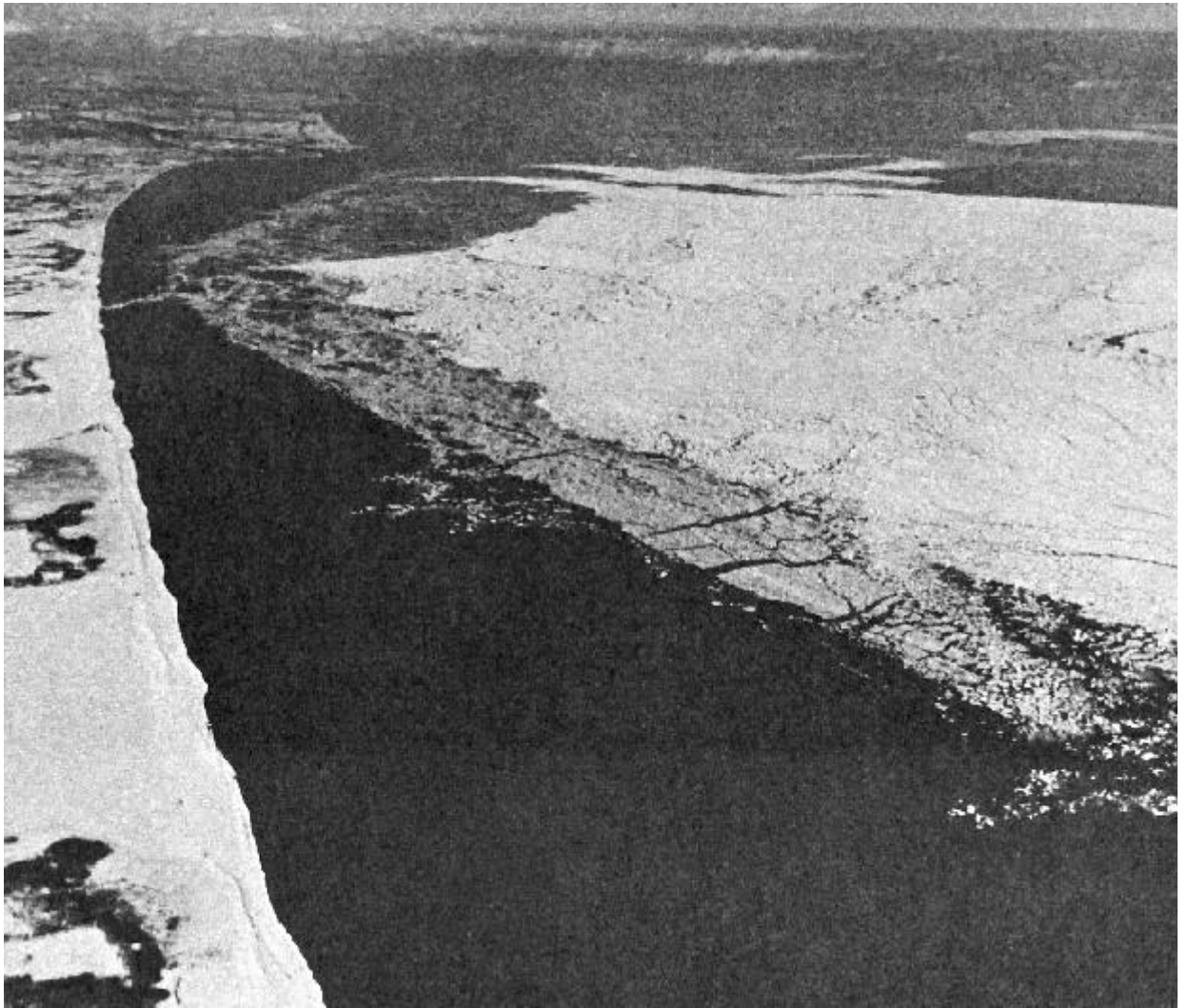
4.3.6 Brash ice (Brash [fr])

76



Meteorological Agency, Japan

4.3.6 Brash ice (Brash [fr])



1800

Hakodate Marine Observatory(JMA), Japan

4.4.1 Ice field (Champ de glace [fr])



1800

H.H.Valeur, Denmark

4.4.1.4 Ice patch (Banc de glace [fr])

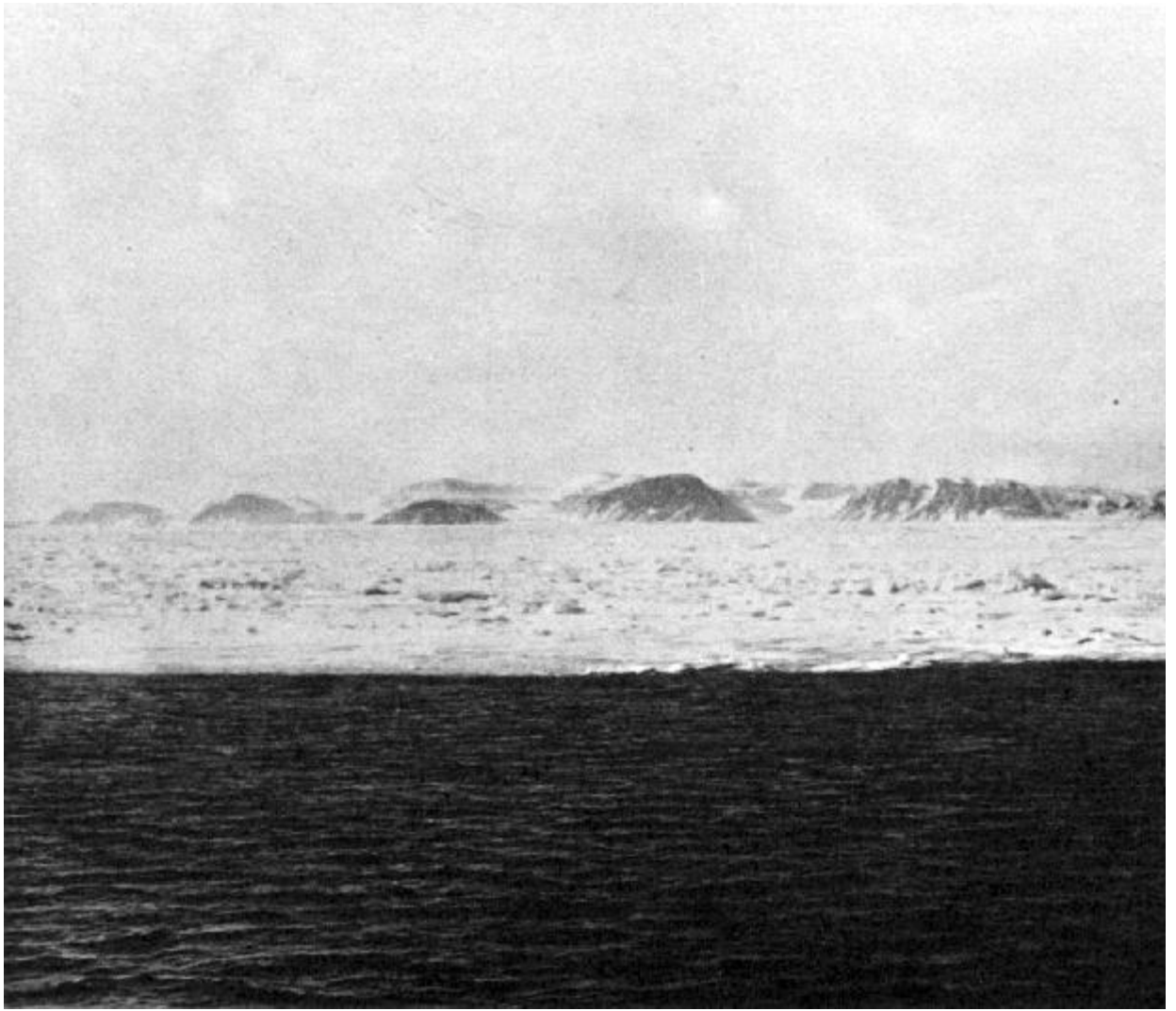


500

Air Force, Finland

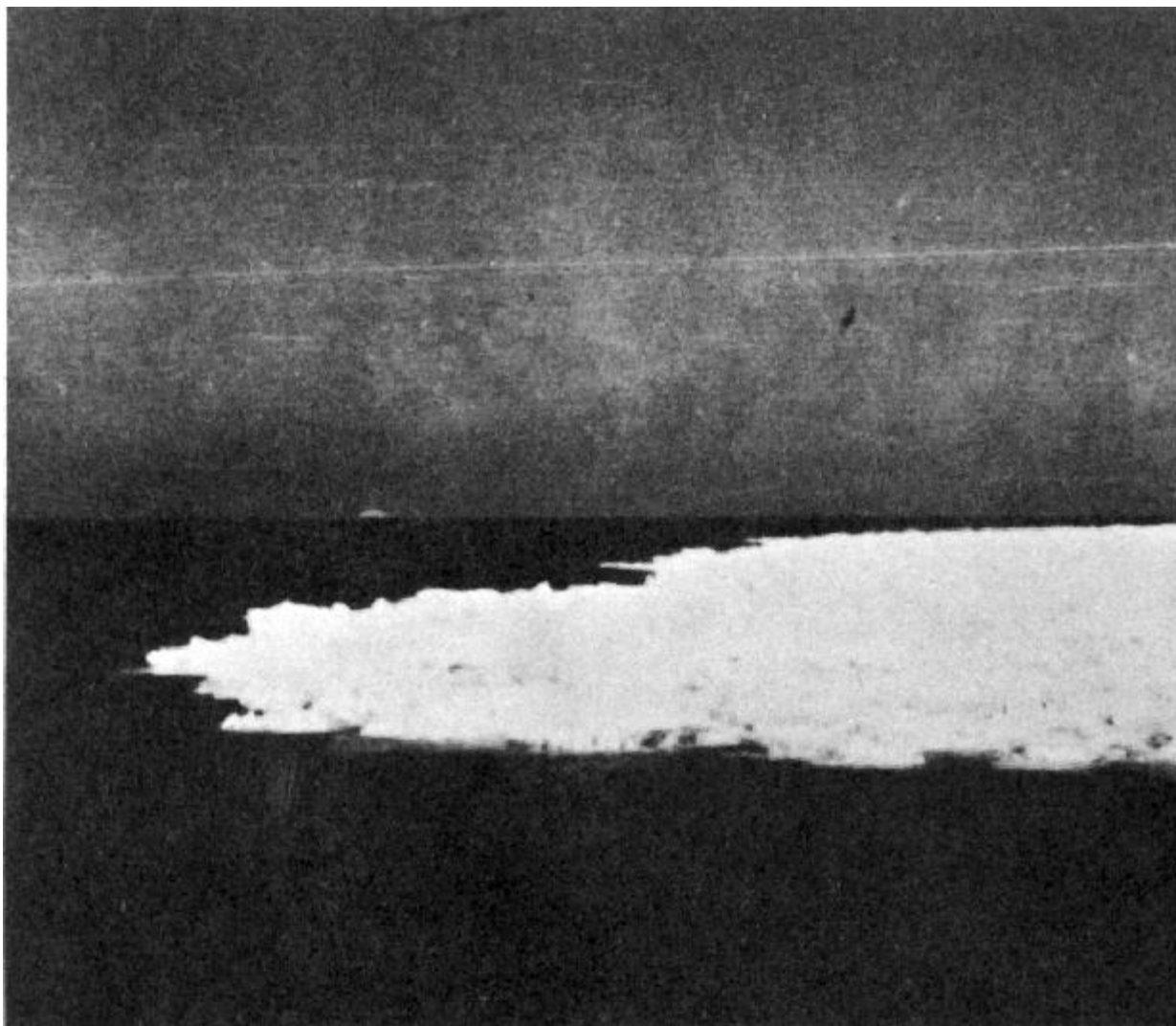
4.4.3 Belt (Ceinture (de glace) [fr])

80



Hamburg, Germany (fed. Rep)

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



USSR

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



1500

H.H.Valeur, Denmark

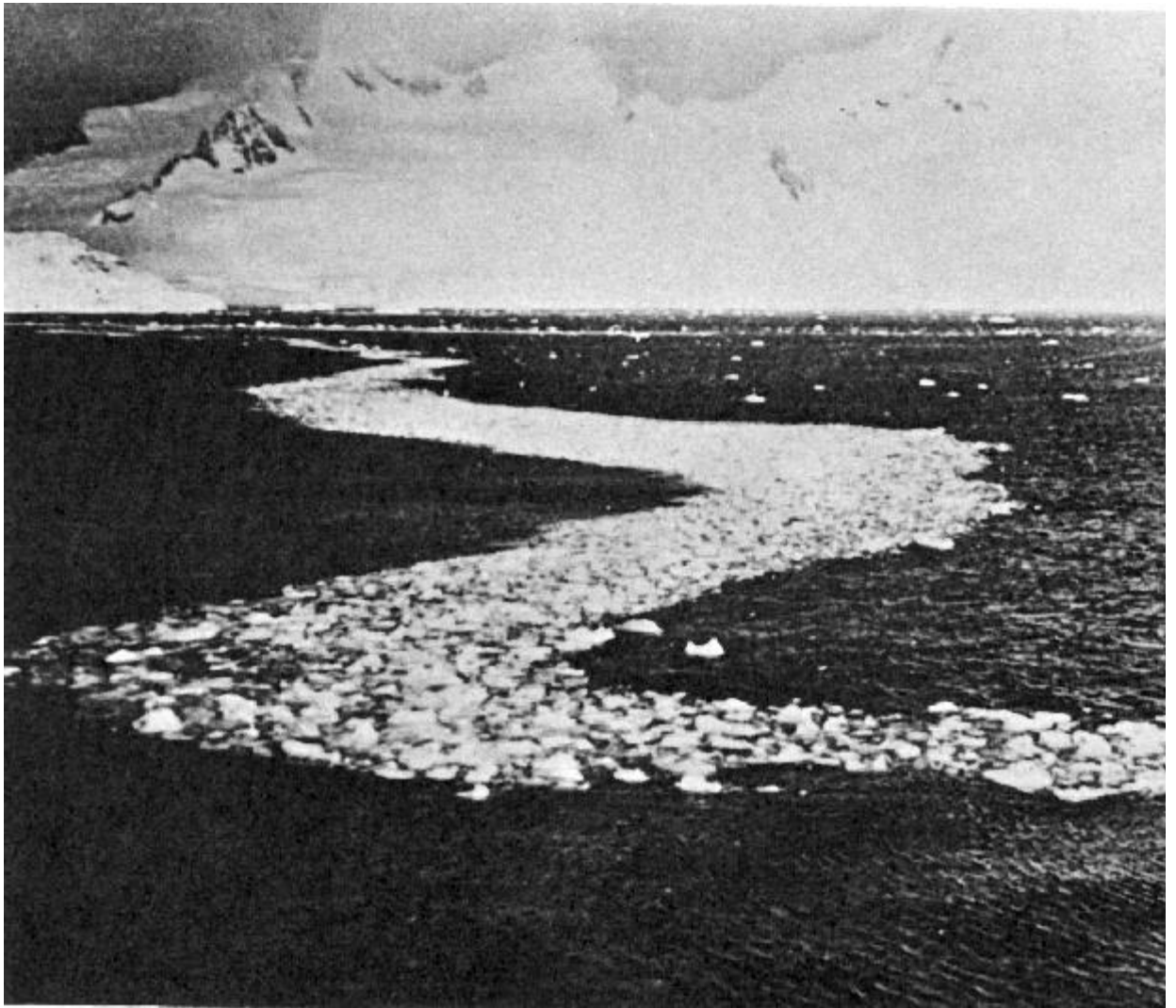
4.4.4 Tongue (Langue (de glace) [fr])



300

Armed Forces, Canada

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



R.N.Panzarini, Argentina

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



1500

H.H.Valeur, Denmark

4.4.6 Bight (Baie [fr])



USSR

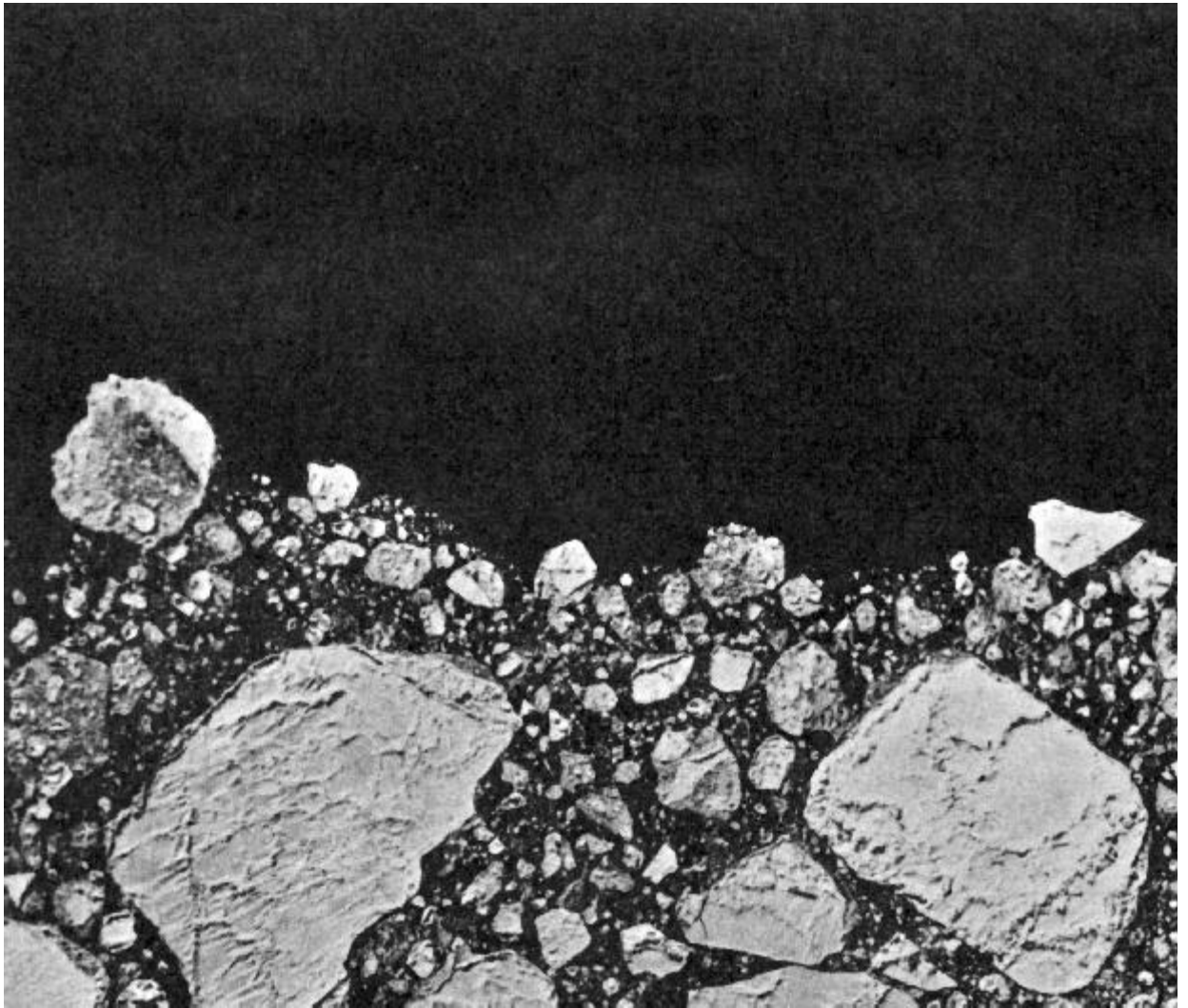
4.4.6 Bight (Baie [fr])



300

Armed Forces, Canada

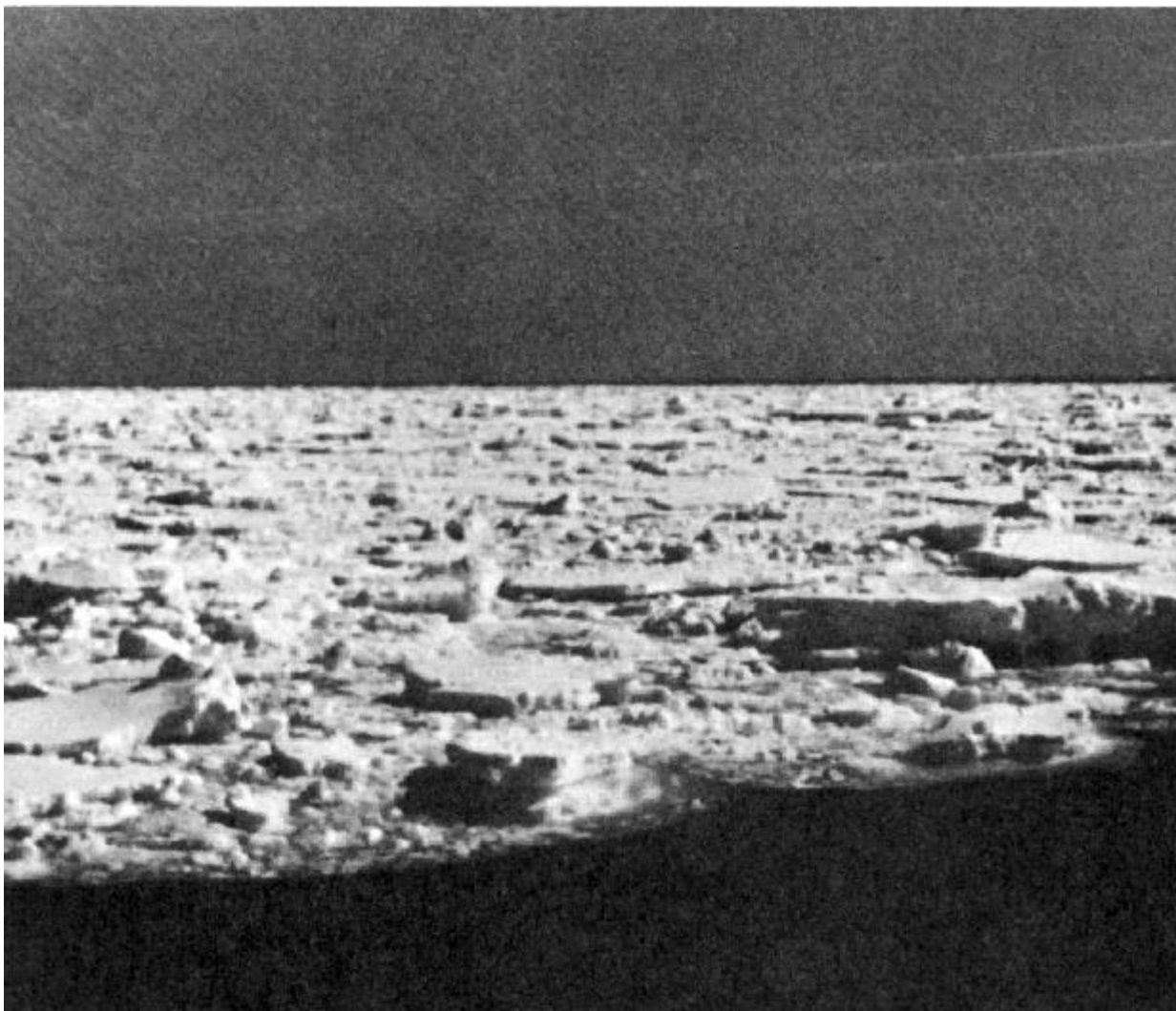
4.4.7 Ice jam (Embâcle [fr])



500

G.Tauber, USSR

4.4.8.1 Compacted ice edge (Lisière serrée [fr])



U.S.Navy

4.4.8.1 Compacted ice edge (Lisière serrée [fr])



100

N.M.Shakirov, USSR

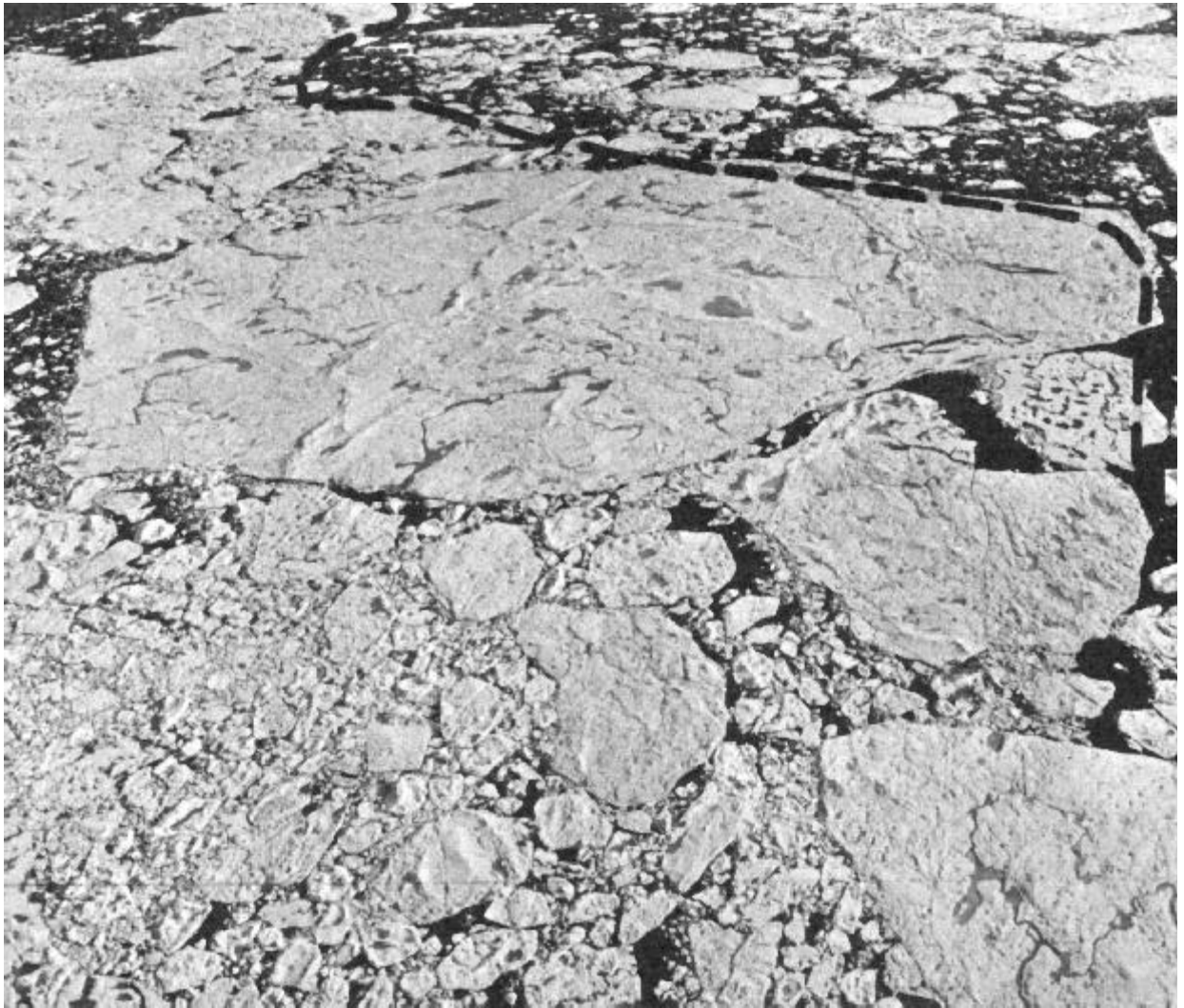
4.4.8.2 Diffuse ice edge (Lisière lâche [fr])



300

USSR

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



600

Armed Forces, Canada

4.4.9.2 Concentration boundary (Ligne de démarcation de concentrations [fr])



10

Prof. Art Baggeroer, MIT

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

94



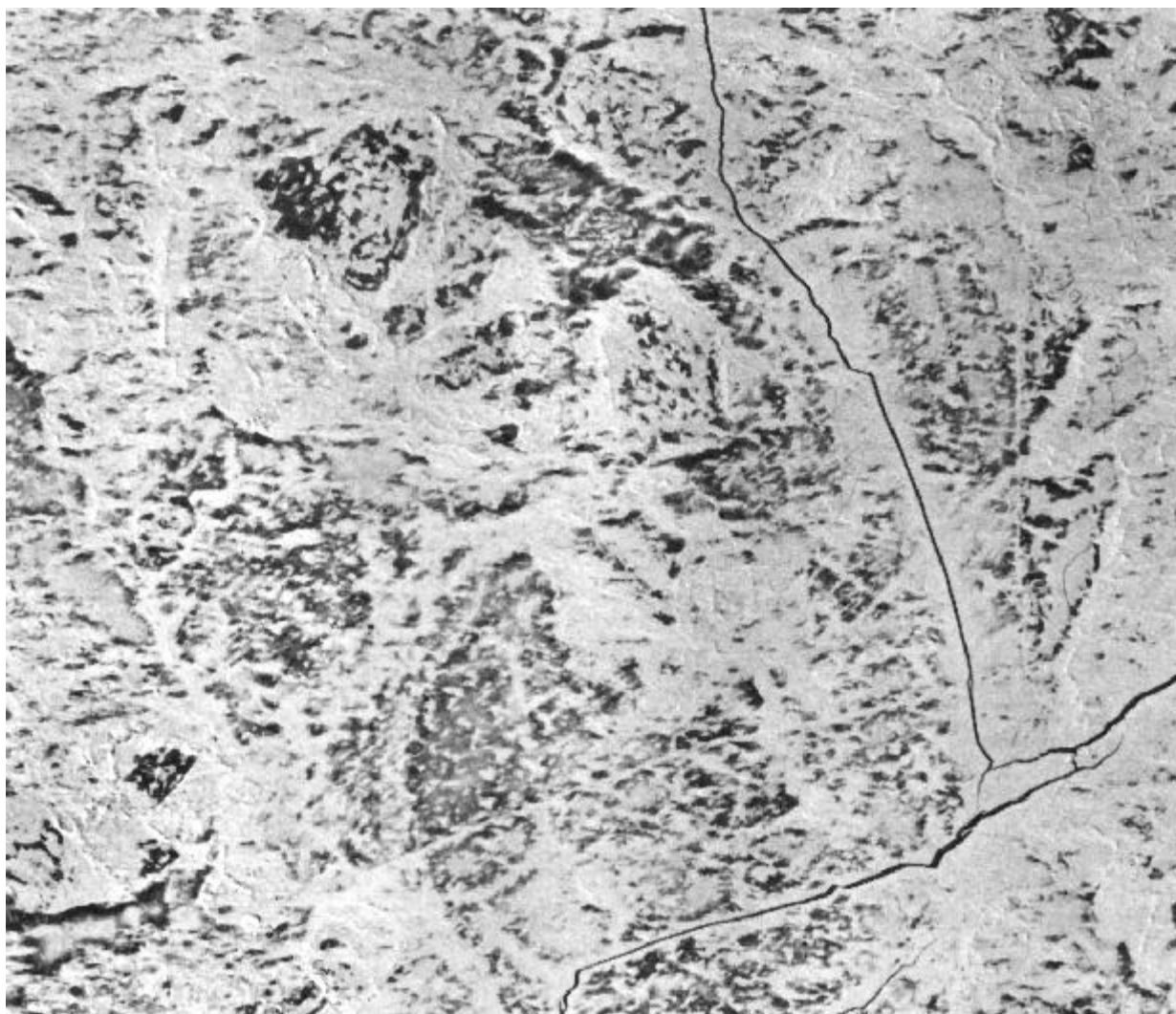
200

N.M.Shakirov, USSR

7.1 Fracture (Fracture [fr])

95





600

Armed Forces, Canada

7.1.1 Crack (Fissure [fr])



Defence Research Boat, Canada

7.1.1 Crack (Fissure [fr])



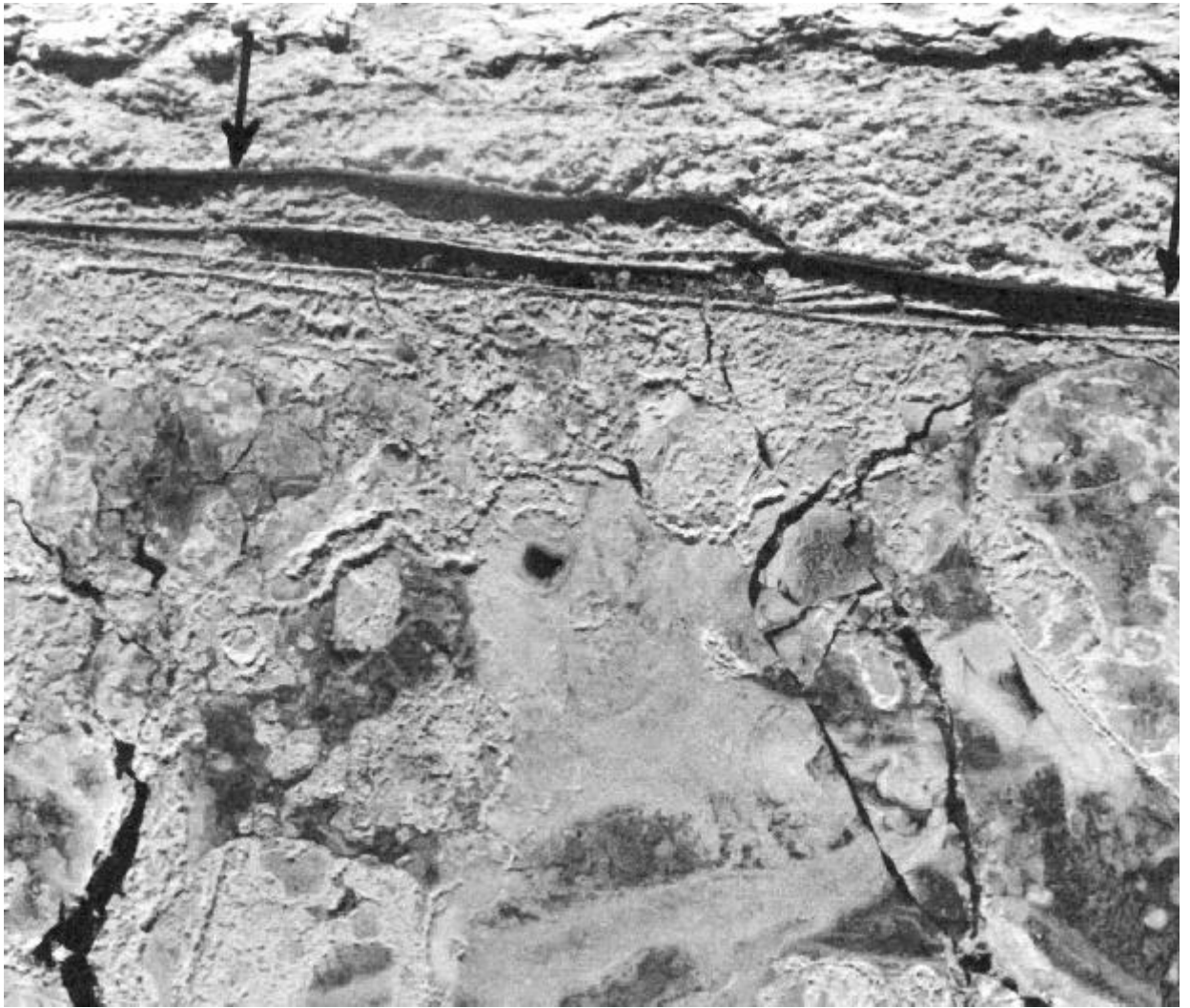
U.S.Navy

7.1.1.1 Tide crack (Fissure de marée [fr])



G.Taylor, Gt.Britain

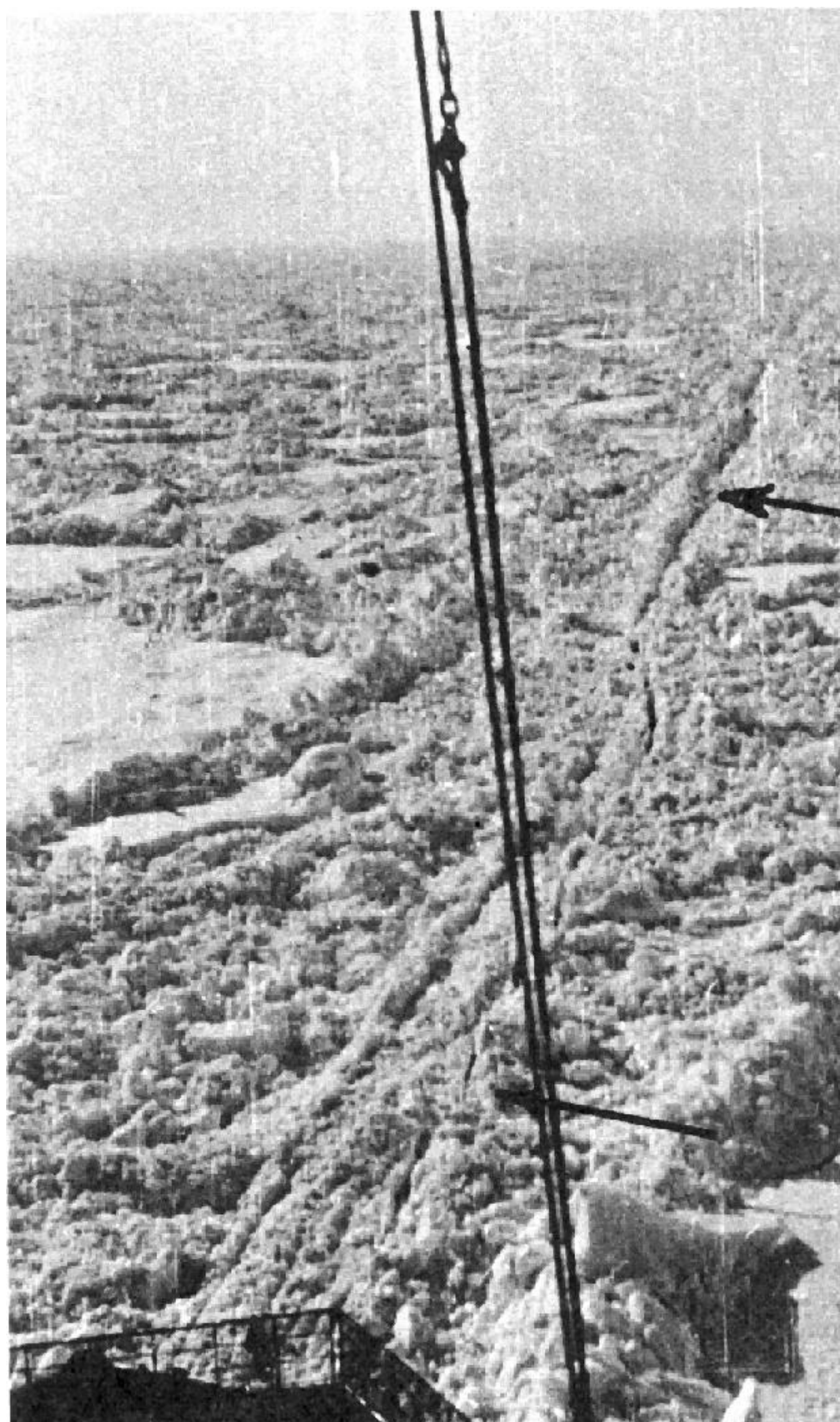
7.1.1.1 Tide crack (Fissure de marée [fr])



550

Armed Forces, Canada

7.1.1.2 Flaw (Brèche de séparation [fr])

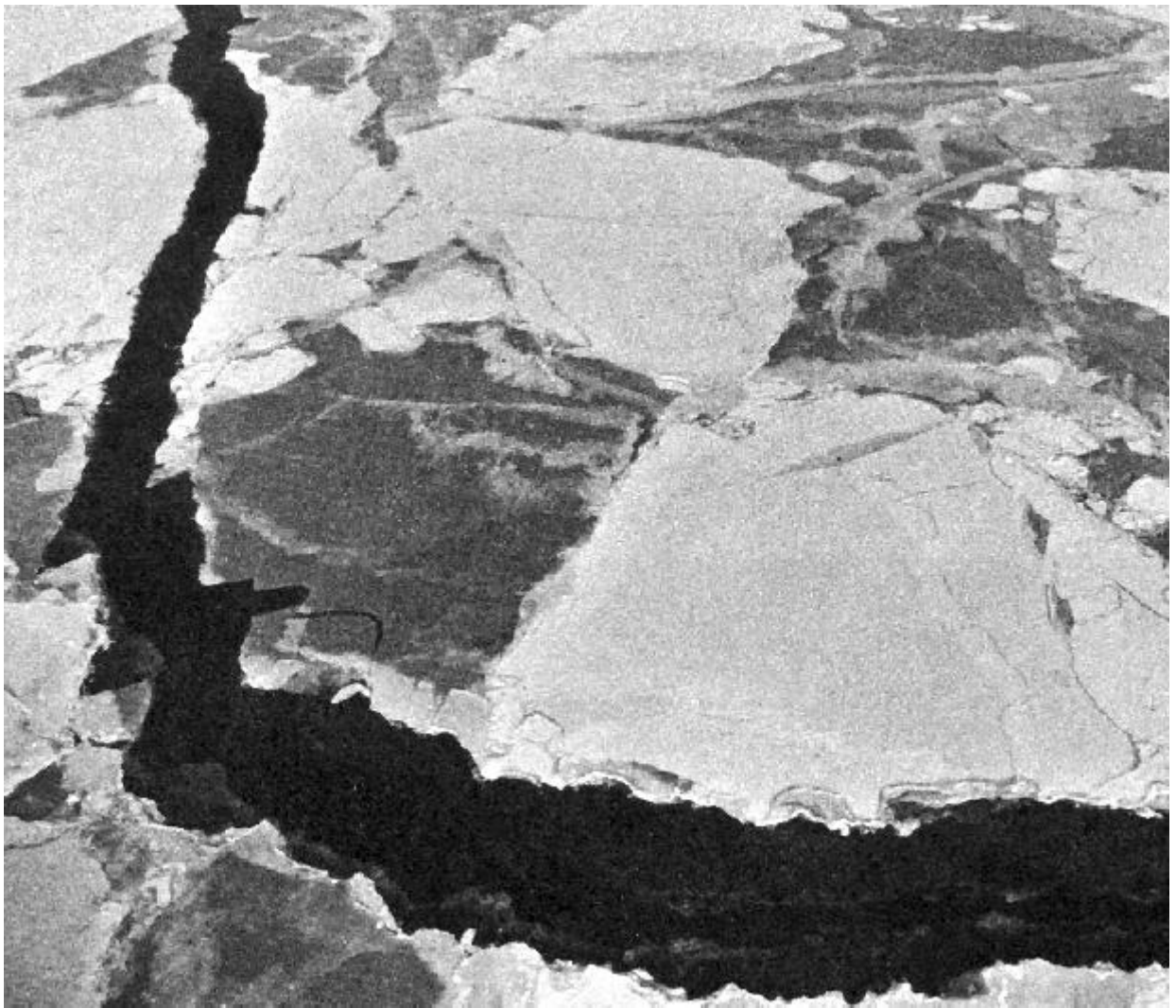




1800

Meteorological Agency, Japan

7.2 Fracture zone (Zone de fractures [fr])

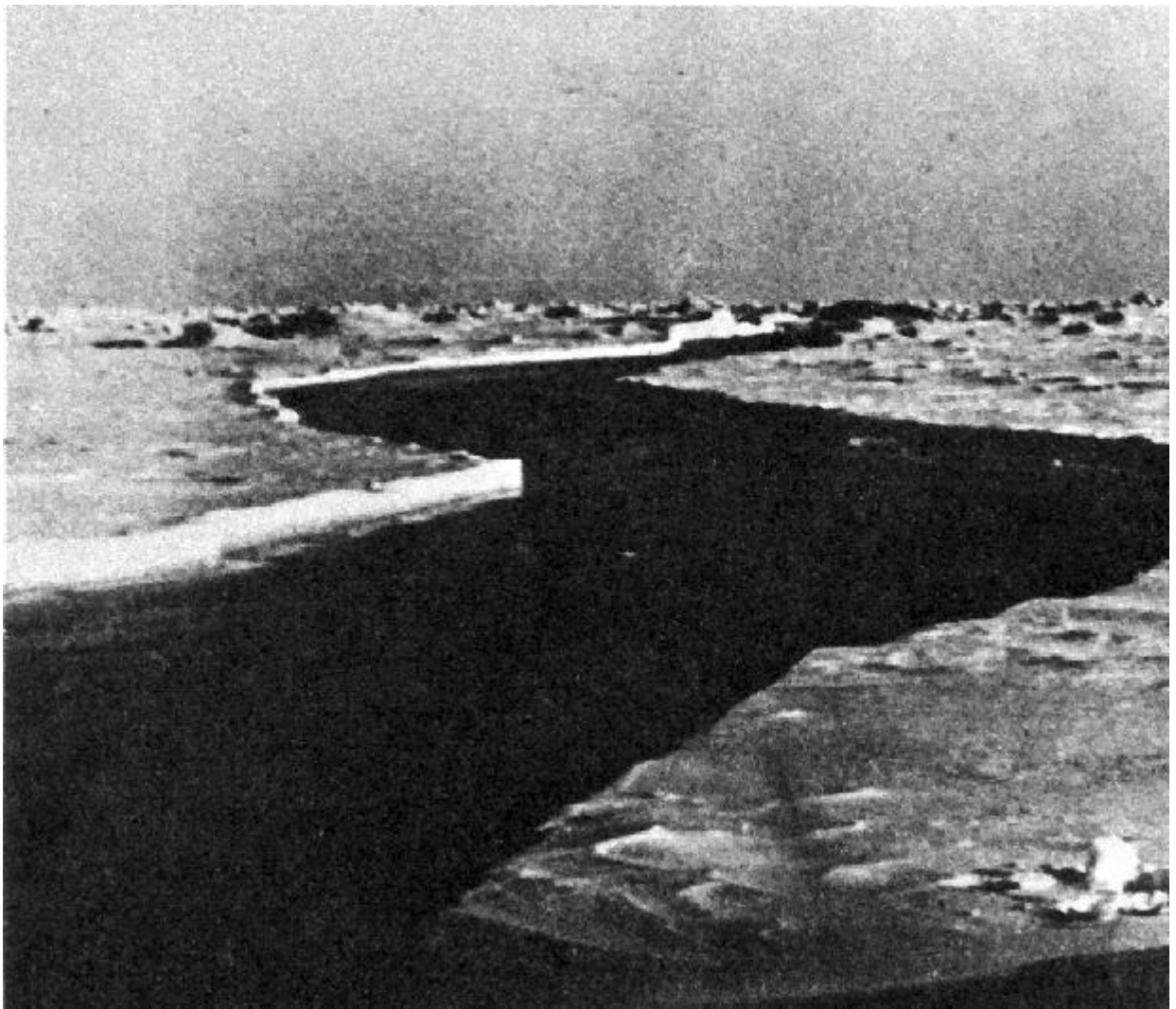


600

Armed Forces,Canada

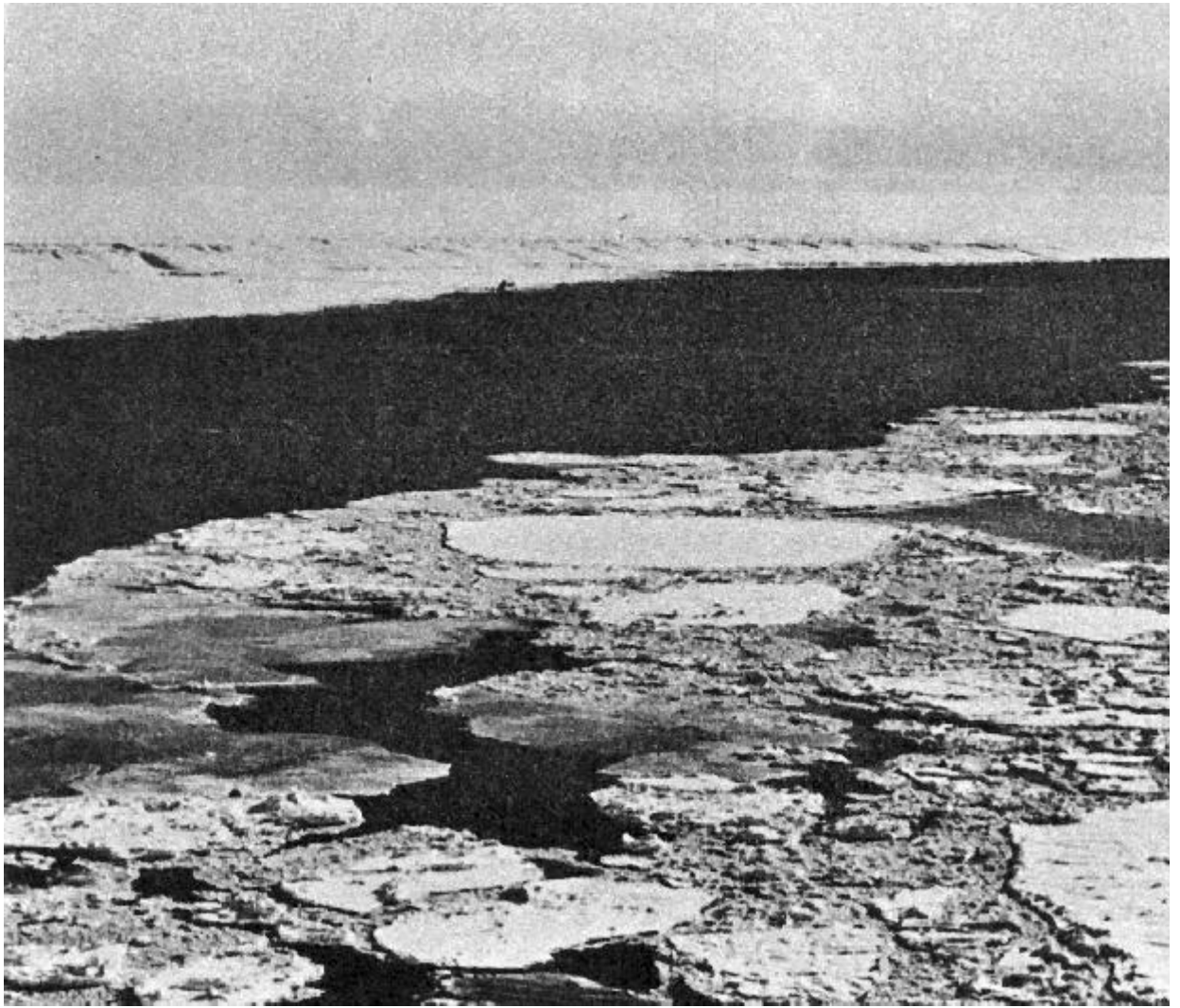
7.3 Lead (Chenal [fr])

104



N.M.Shakirov, USSR

7.3 Lead (Chenal [fr])

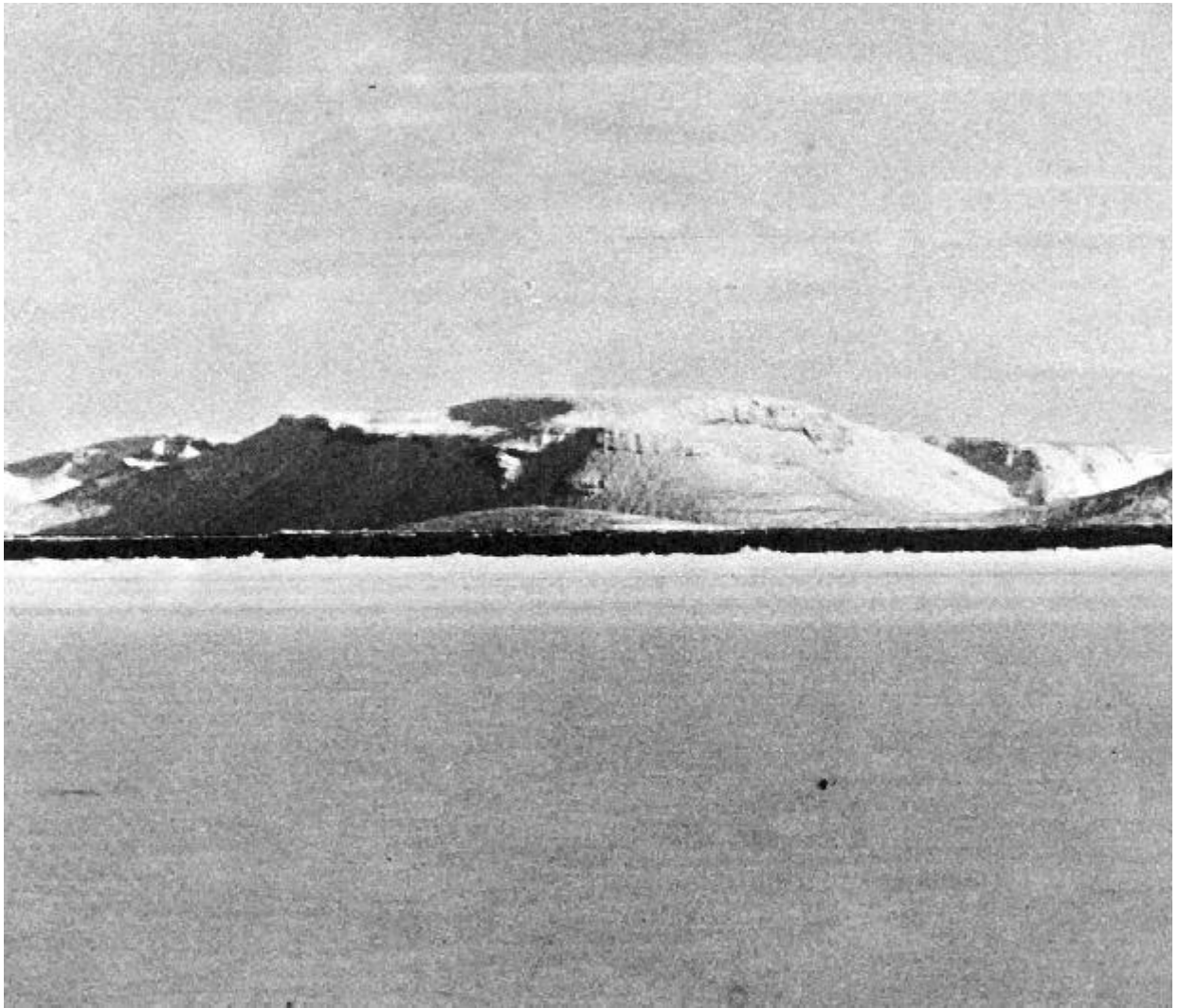


600

Trans-Antarctig Expedition, Gt. Britain

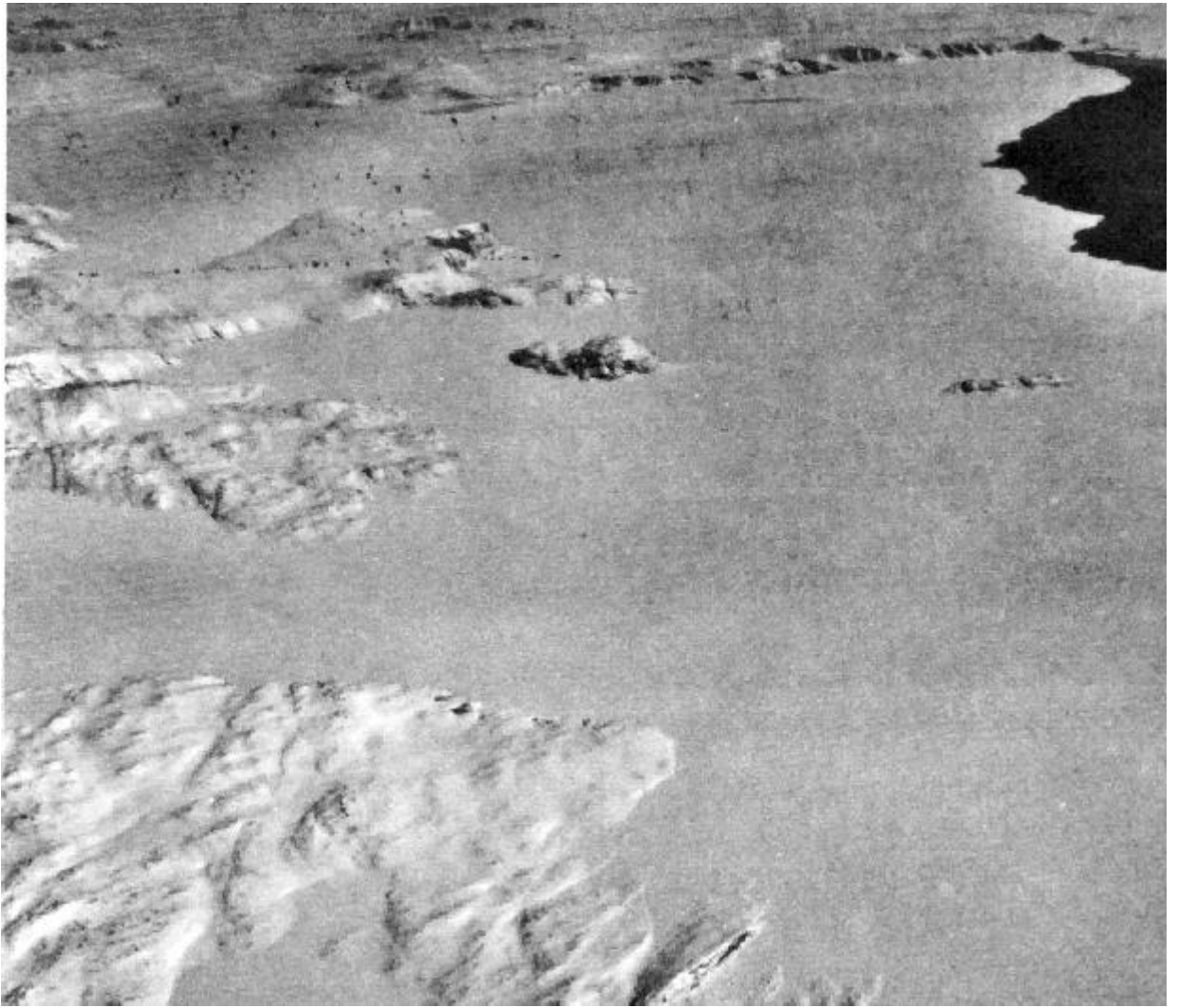
7.3.1 Shore lead (Chenal côtier [fr])

106



Defence Research Boat, Canada

7.3.1 Shore lead (Chenal côtier [fr])



Armed Forces,Canada

7.3.2 Flaw lead (Chenal de séparation [fr])



V.A.Voevodin, USSR

7.3.2 Flaw lead (Chenal de séparation [fr])

109

Defence Research Boat, Canada

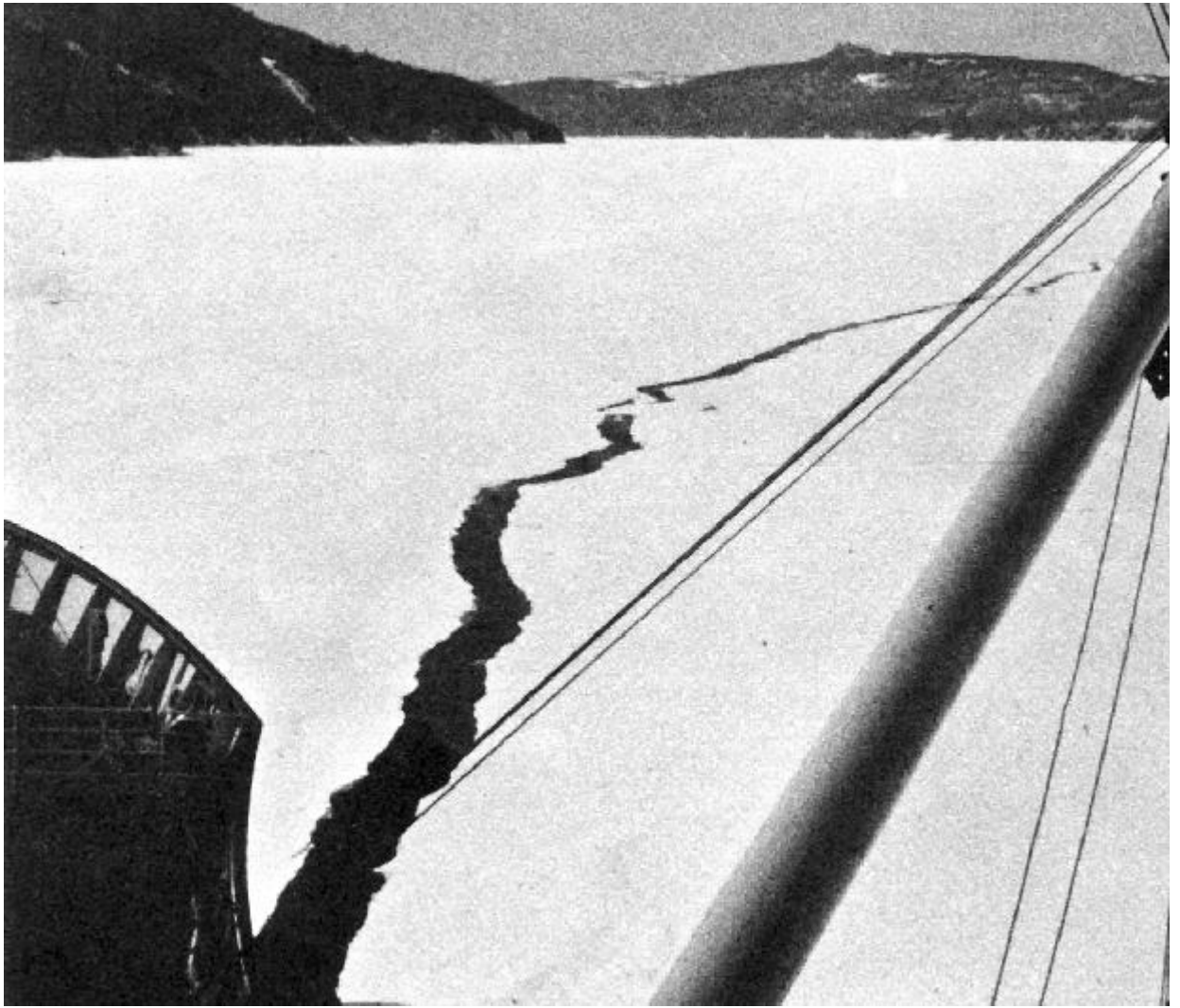
7.4.1 Shore polynya (Polynie côtière [fr])

110

U.S.Navy

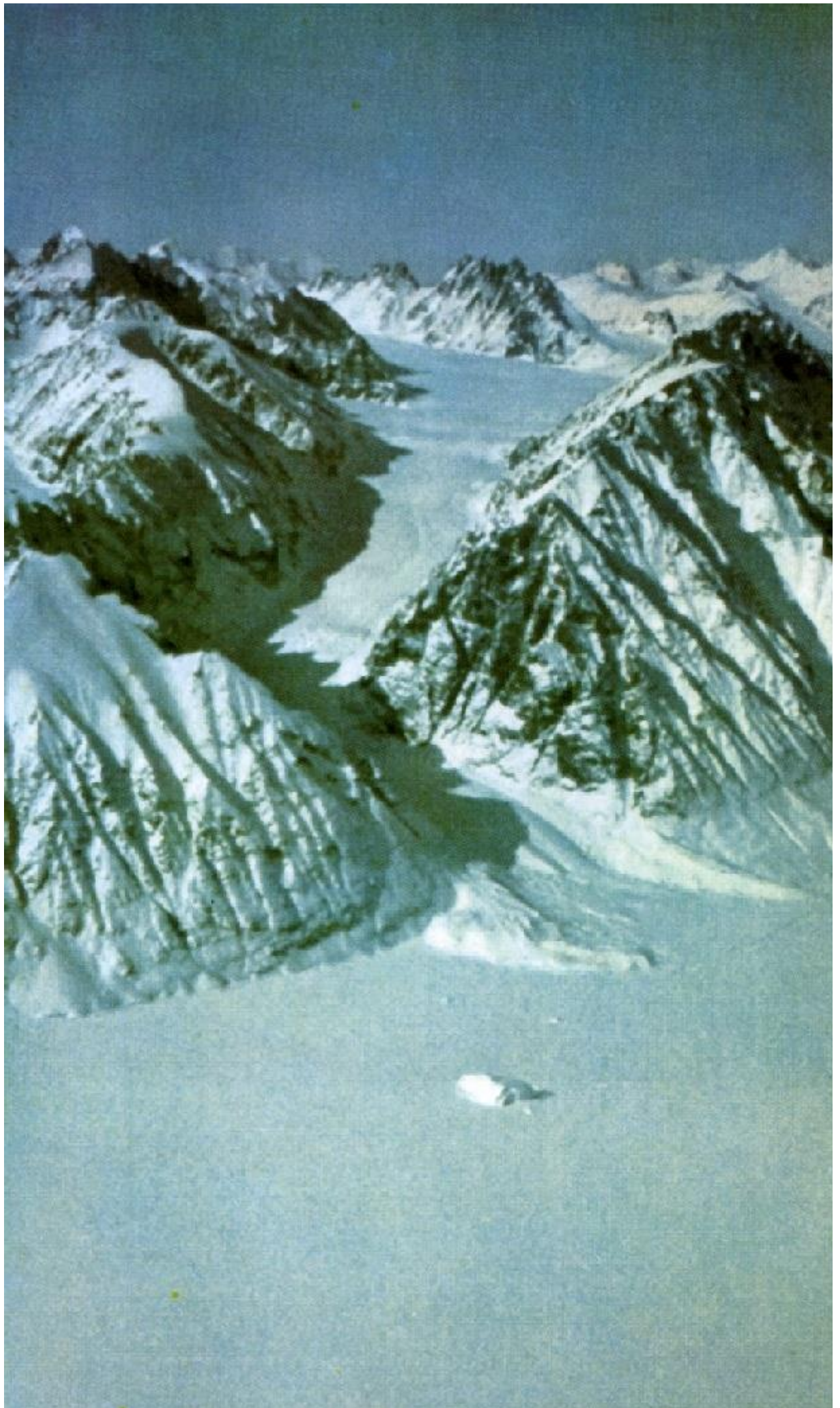
7.4.2 Flaw polynya (Polynie de séparation [fr])

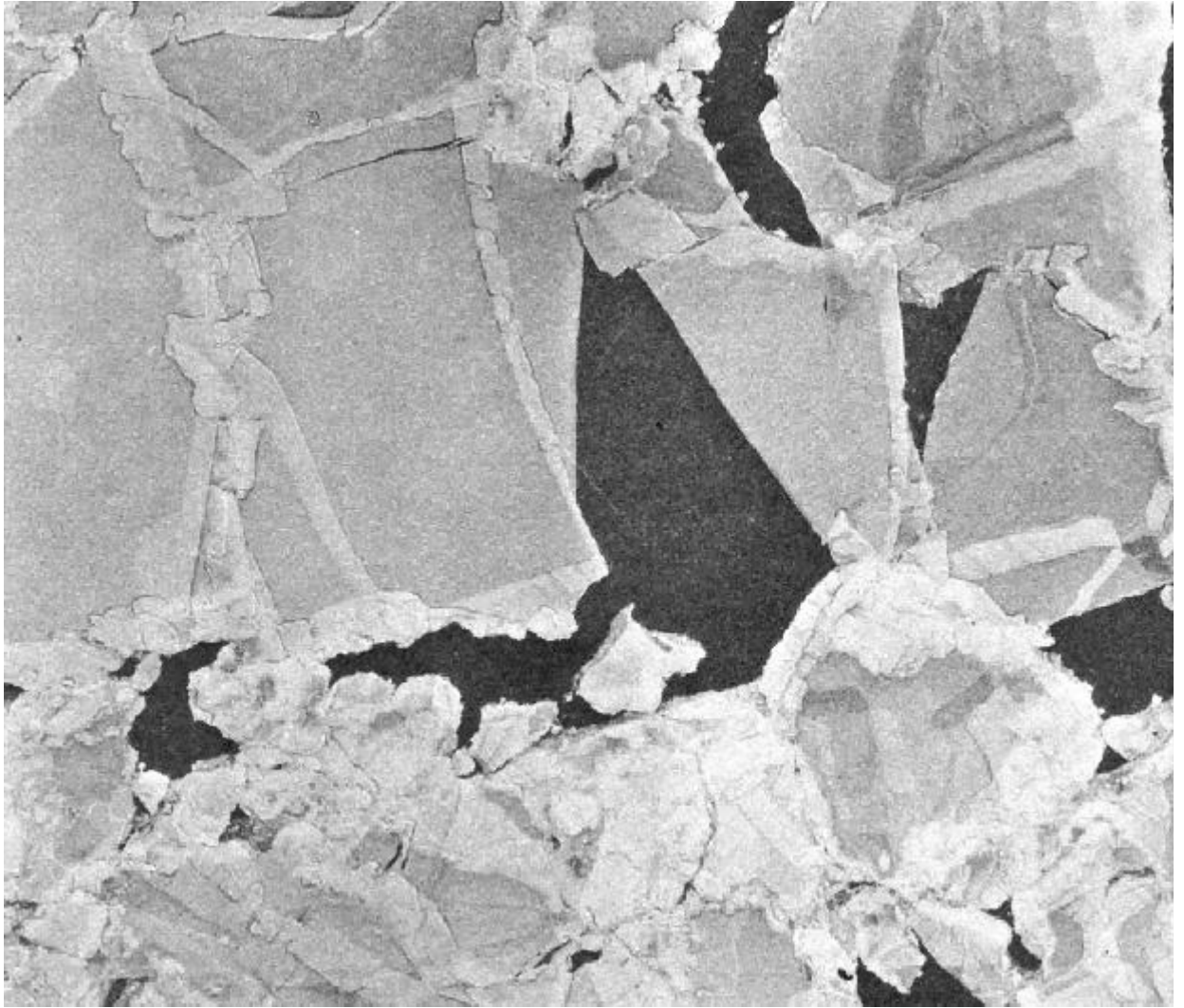
111



J.S.Fabricsius, Denmark

8.1 Level ice (Glacé plane [fr])





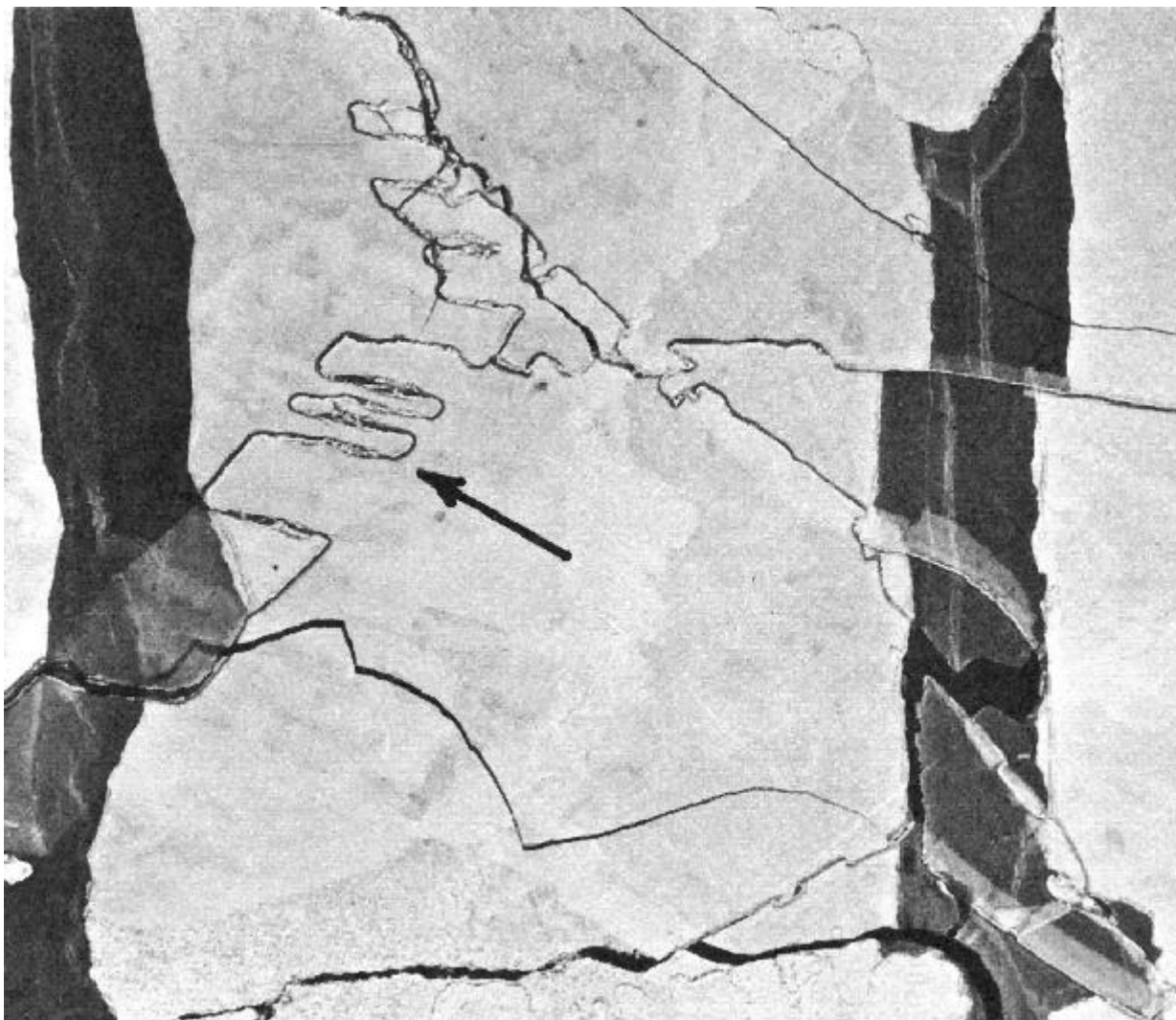
USSR

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



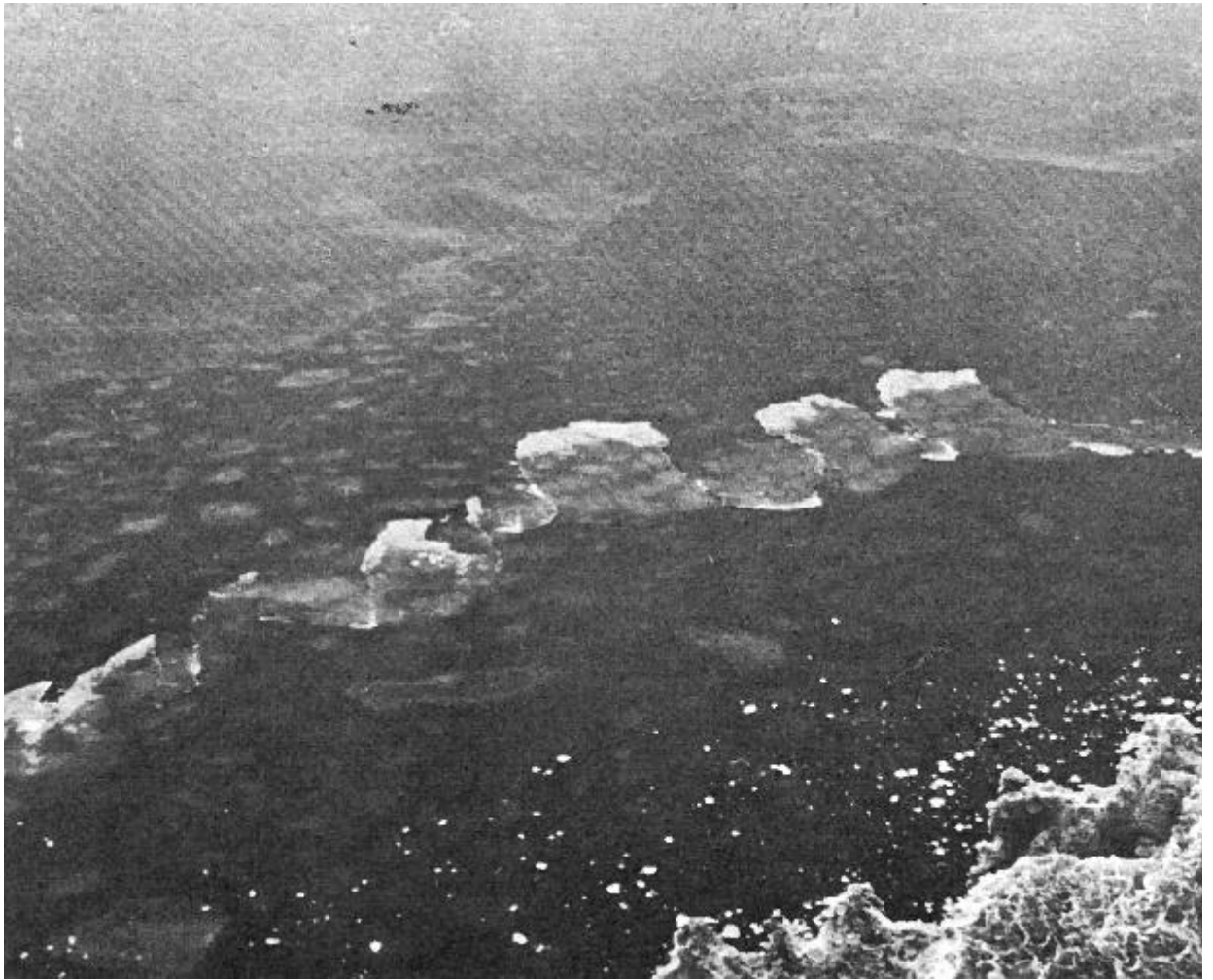
Defence Research Boat, Canada

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



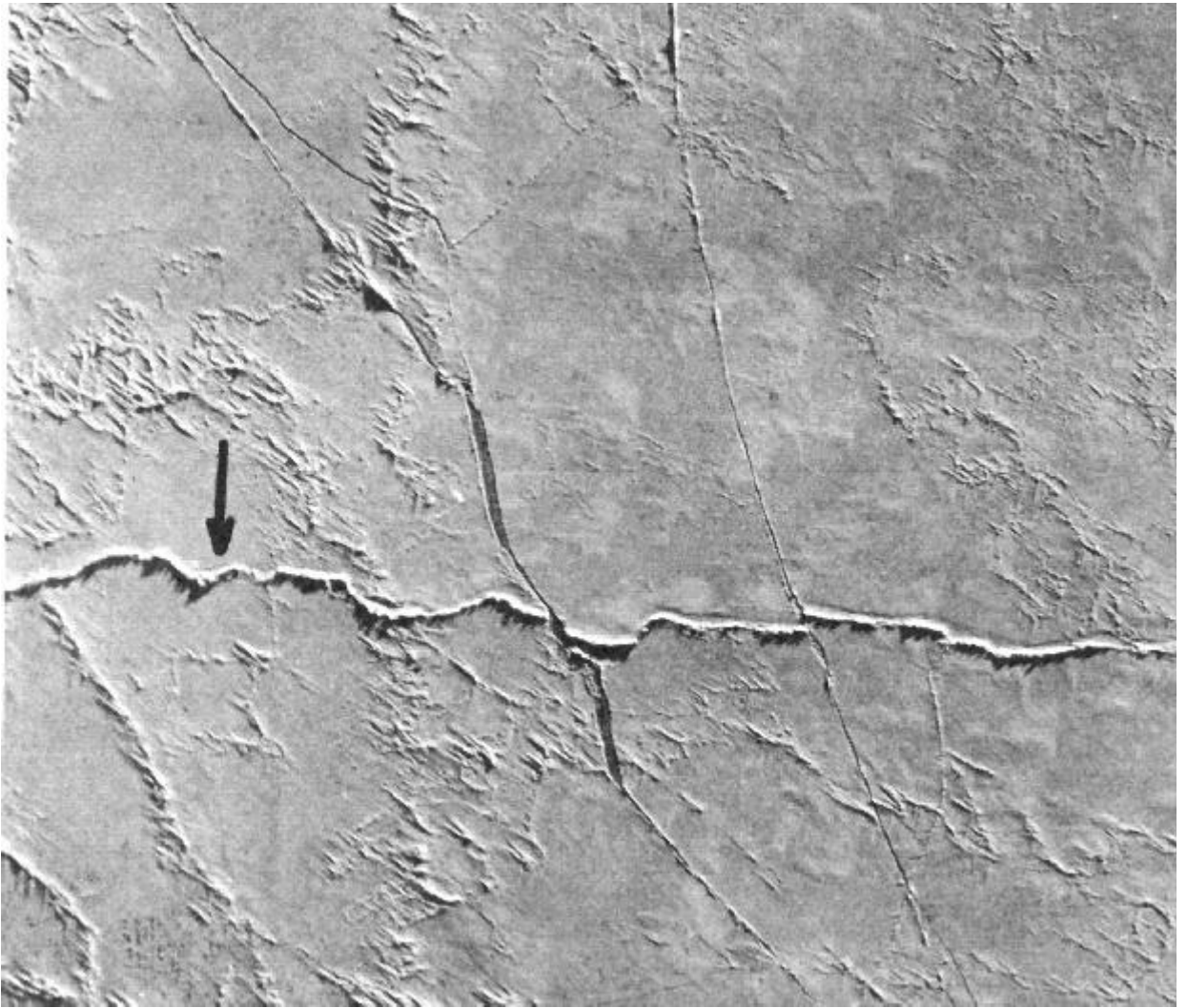
USSR

8.2.1.1 Ice rafting concentration (Concentration de chevauchement de glace [fr])



Defence Research Boat, Canada

8.2.1.1 Ice rafting concentration (Concentration de chevauchement de glace [fr])



600

Armed Forces, Canada

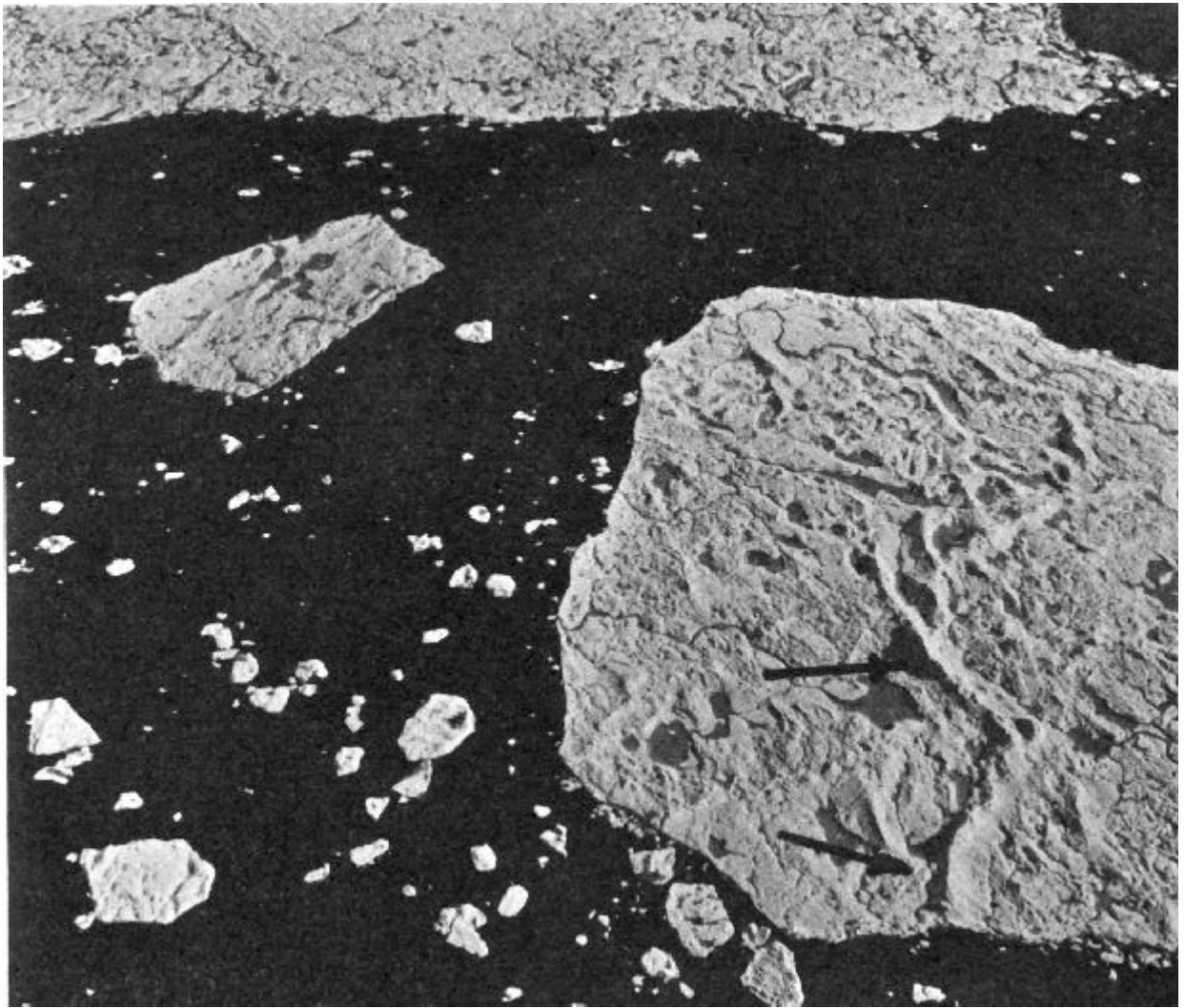
8.2.2.1 New ridge (Nouvelle crête [fr])

118



Defence Research Boat, Canada

8.2.2.1 New ridge (Nouvelle crête [fr])

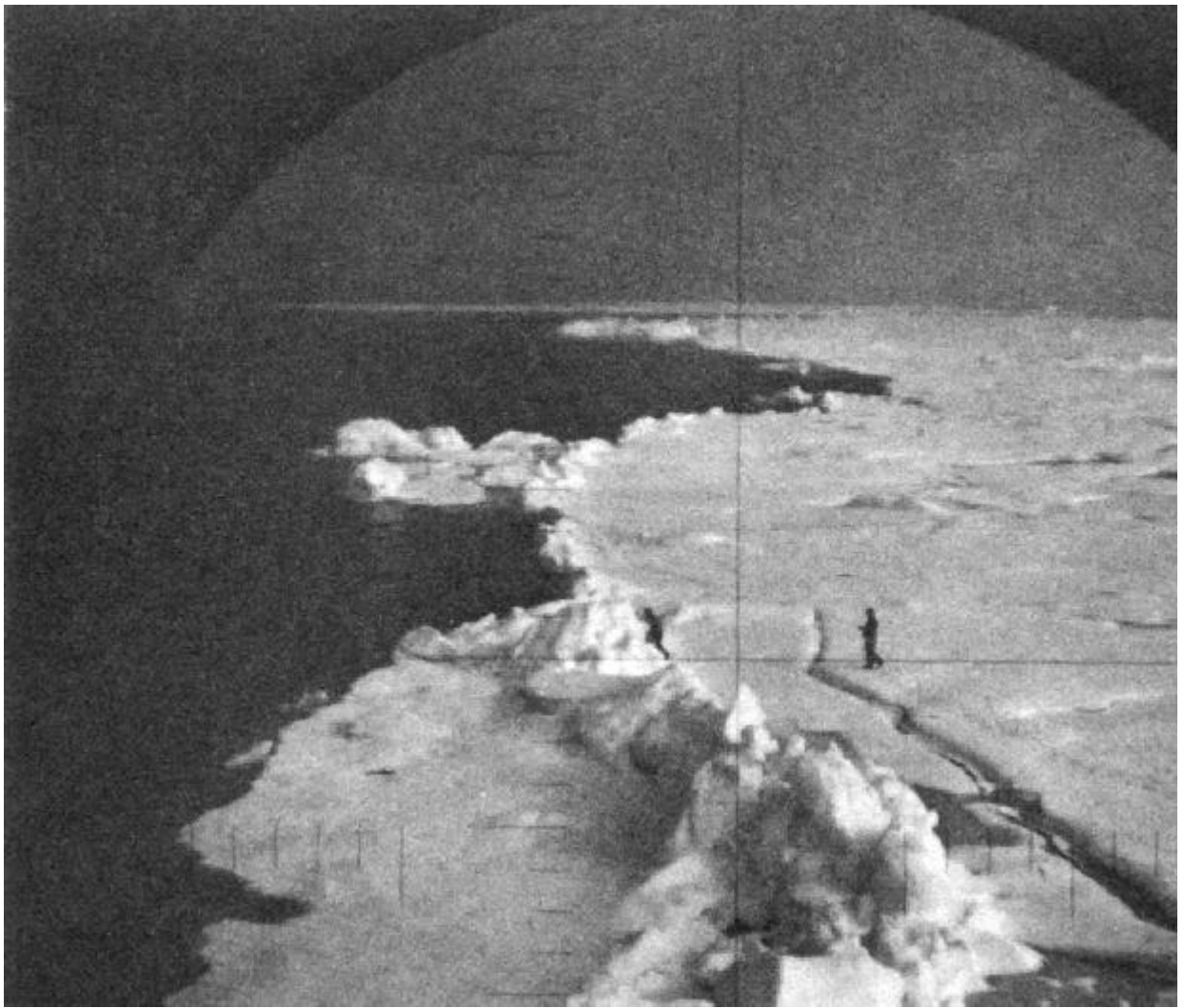


600

Armed Forces, Canada

8.2.2.2 Weathered ridge (Crête érodée [fr])

120



U.S.Navy

8.2.2.2 Weathered ridge (Crête érodée [fr])



600

Armed Forces, Canada

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



A.V.Bushuev, USSR

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



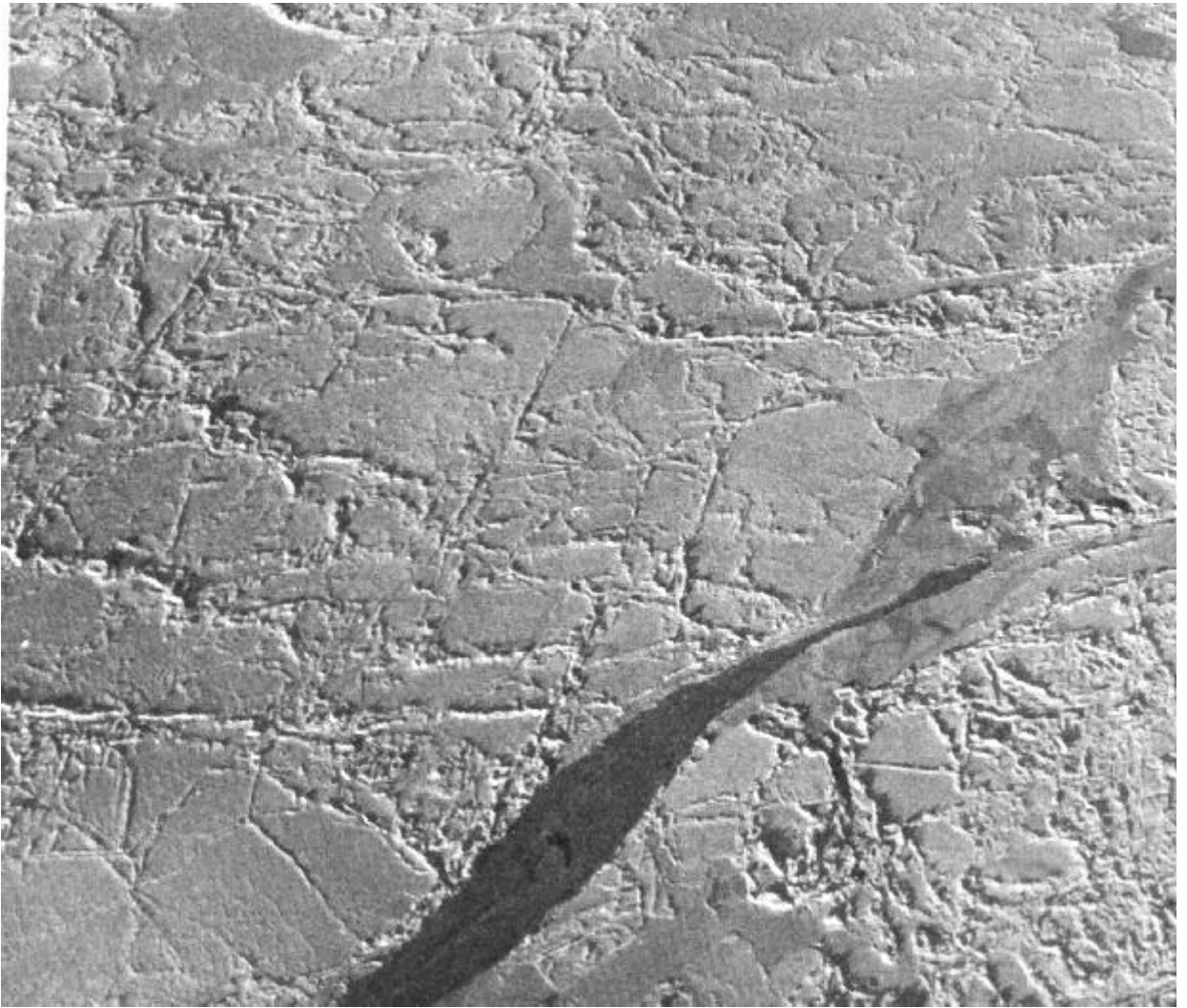
U.S.Navy

8.2.2.4 Aged ridge (Vieille crête [fr])



U.S.Navy

8.2.2.4 Aged ridge (Vieille crête [fr])

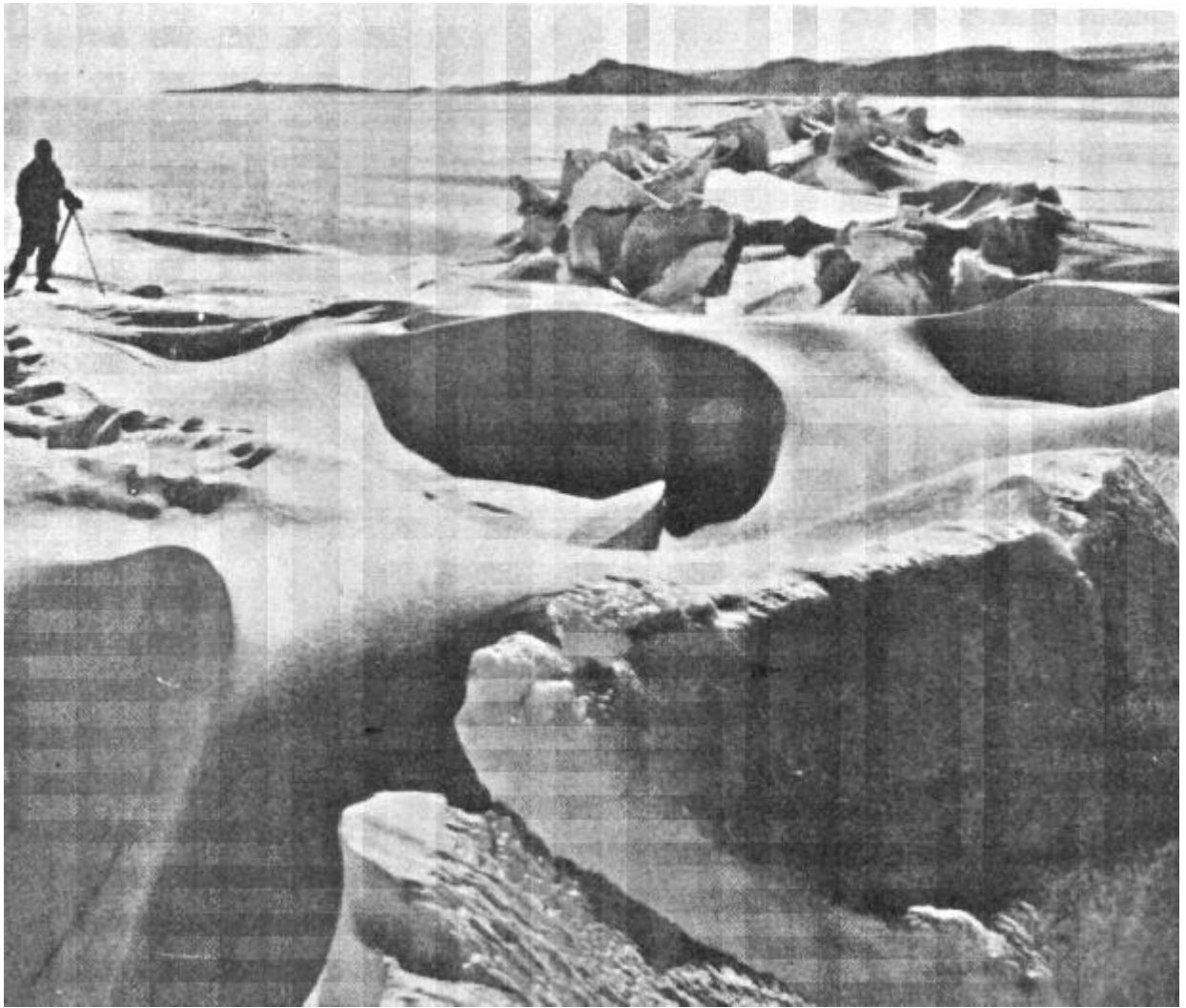


600

Armed Forces, Canada

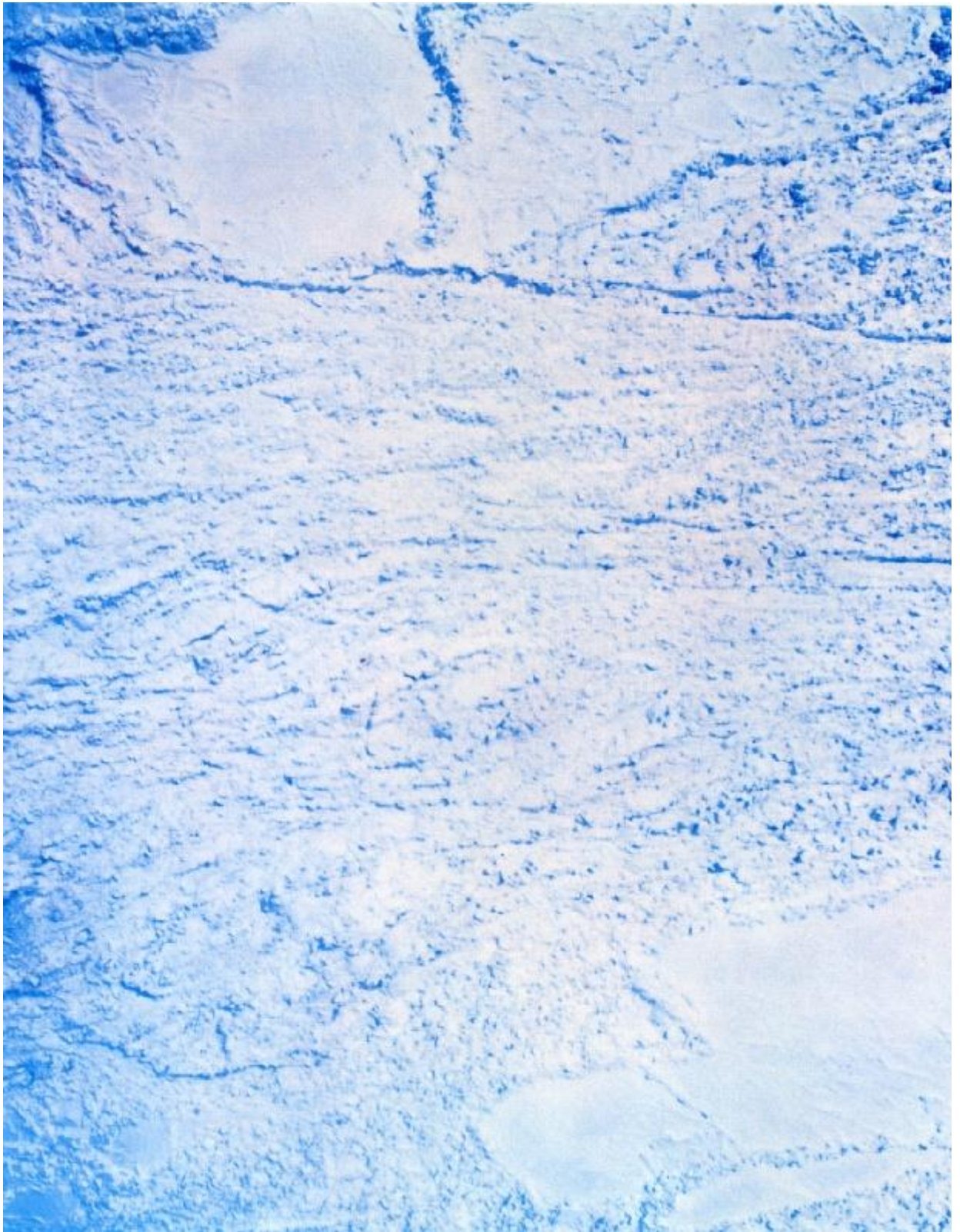
8.2.2.6 Ridged ice (Glace tourmentée [fr])

126



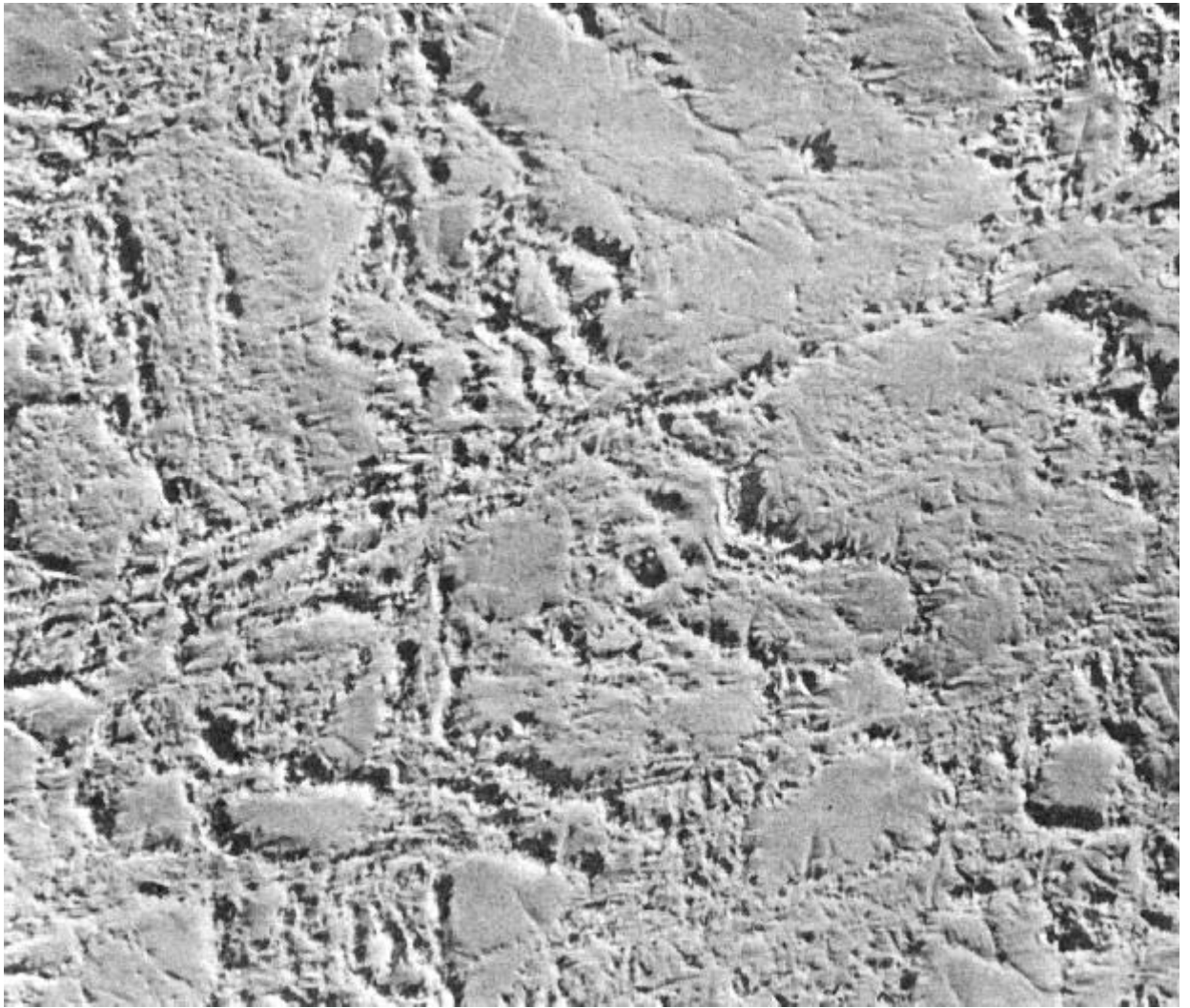
H.G.Ponting, Gt.Britain

8.2.2.6 Ridged ice (Glacé tourmentée [fr])



U.S.Navy

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



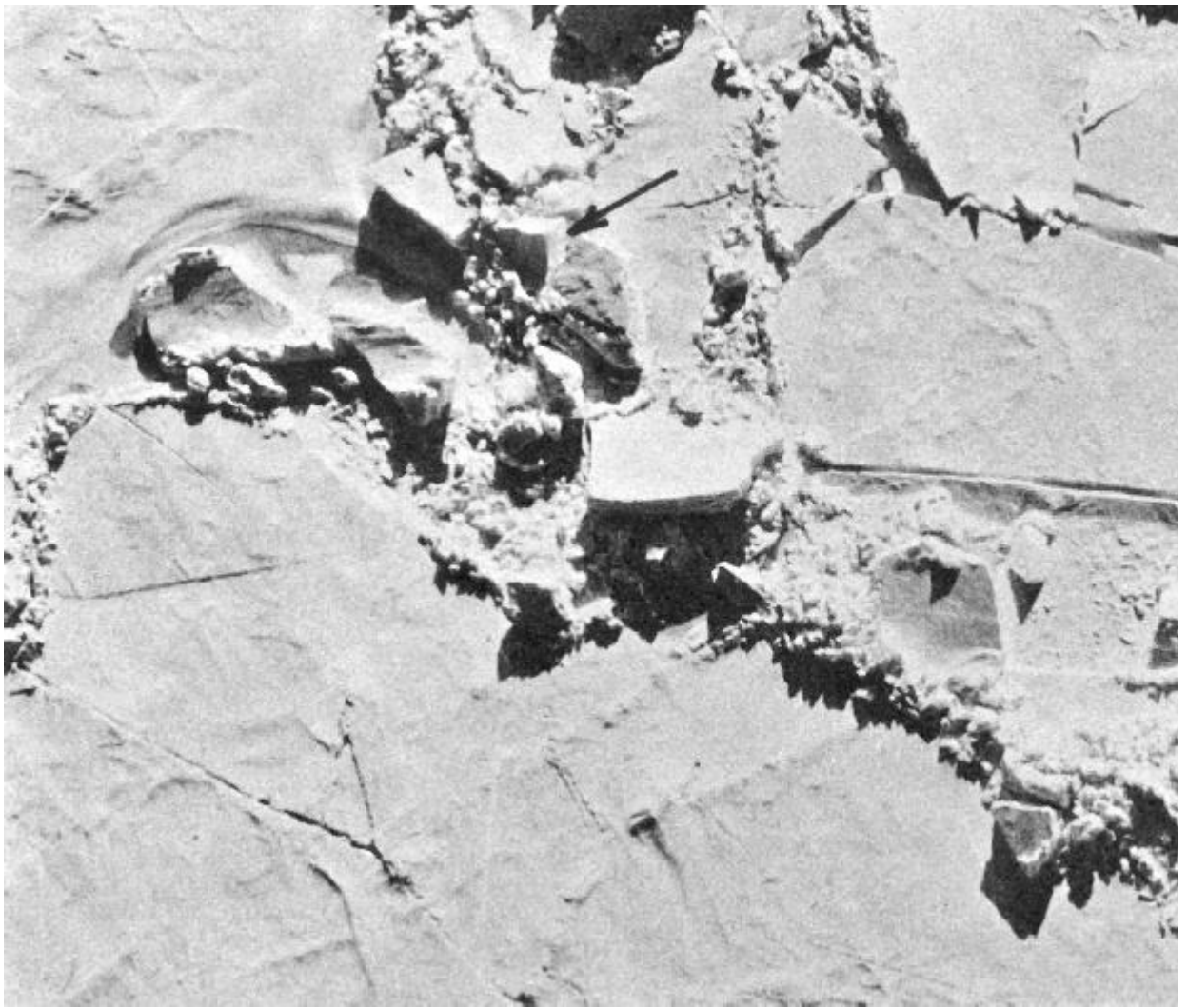
USSR

8.2.3.1 Ice ridge concentration (Concentration de crête glaciels [fr])



Meteorological Agency, Japan

8.2.3.1 Ice ridge concentration (Concentration de crête glaciels [fr])



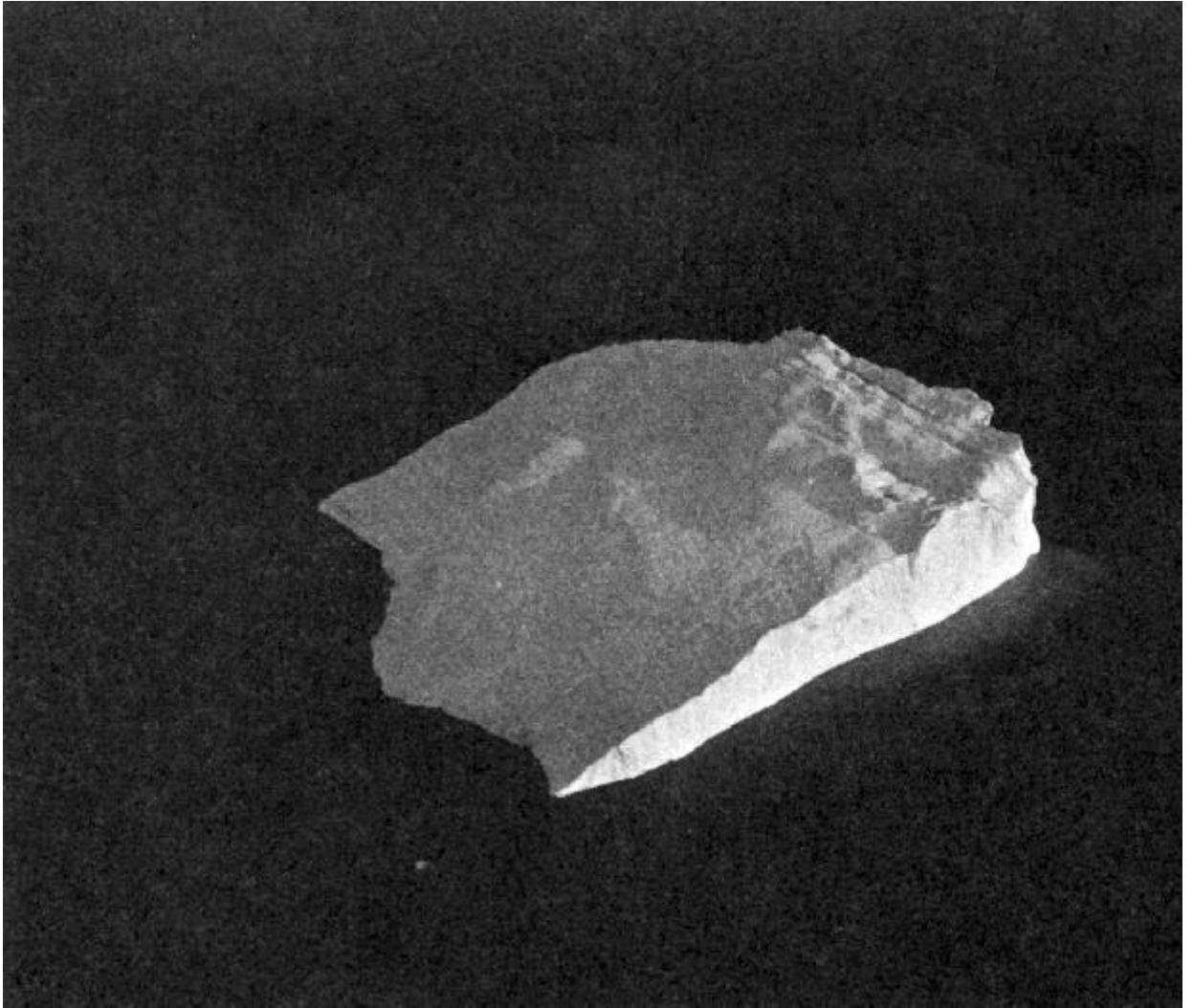
225

A.V.Bushuev, USSR

8.3 Standing floe (Floe dressé [fr])

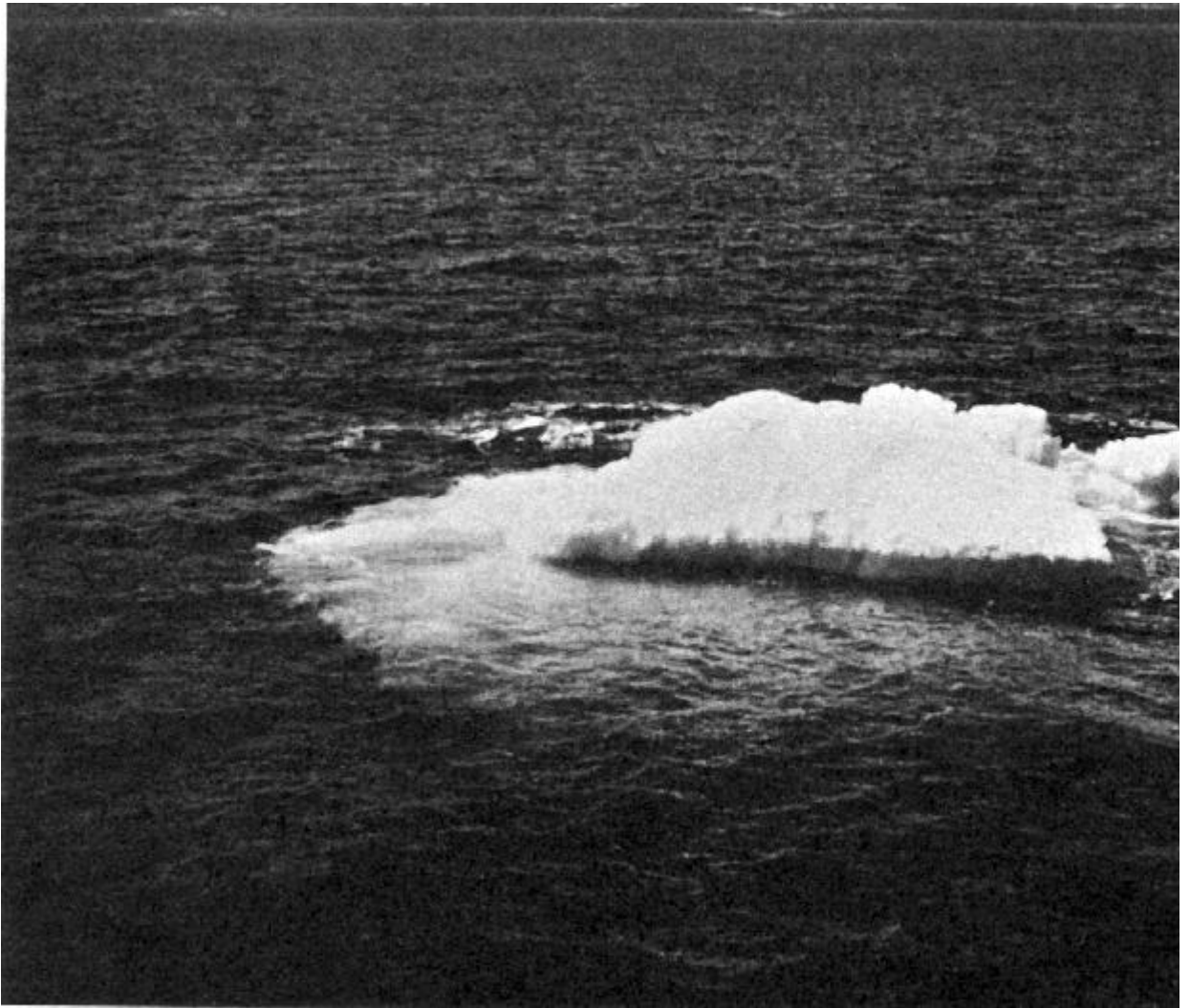
131





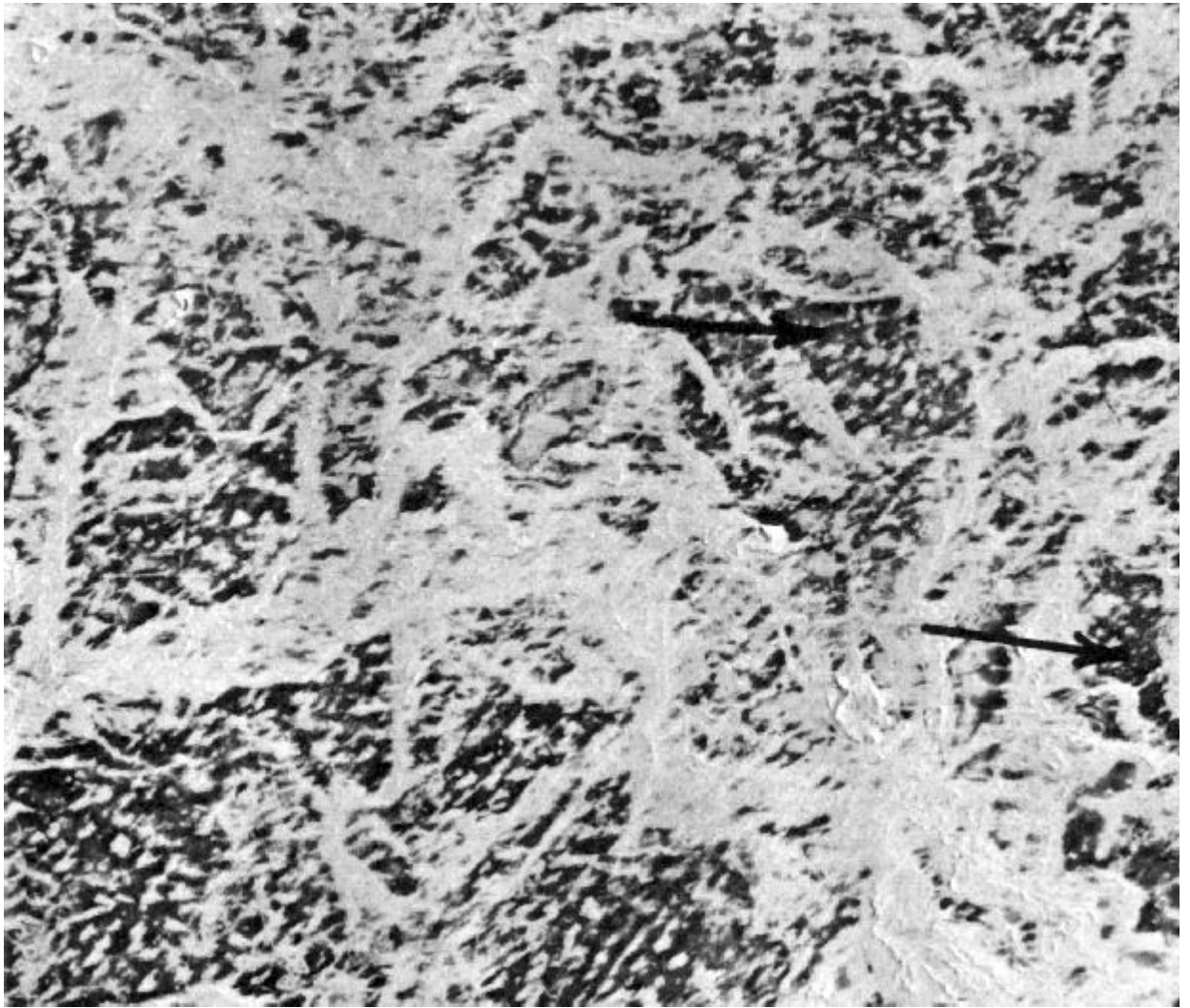
U.S.Coast Guard

8.4 Ram (Eperon [fr])



H.H.Valeur, Denmark

8.4 Ram (Eperon [fr])



600

Armed Forces, Canada

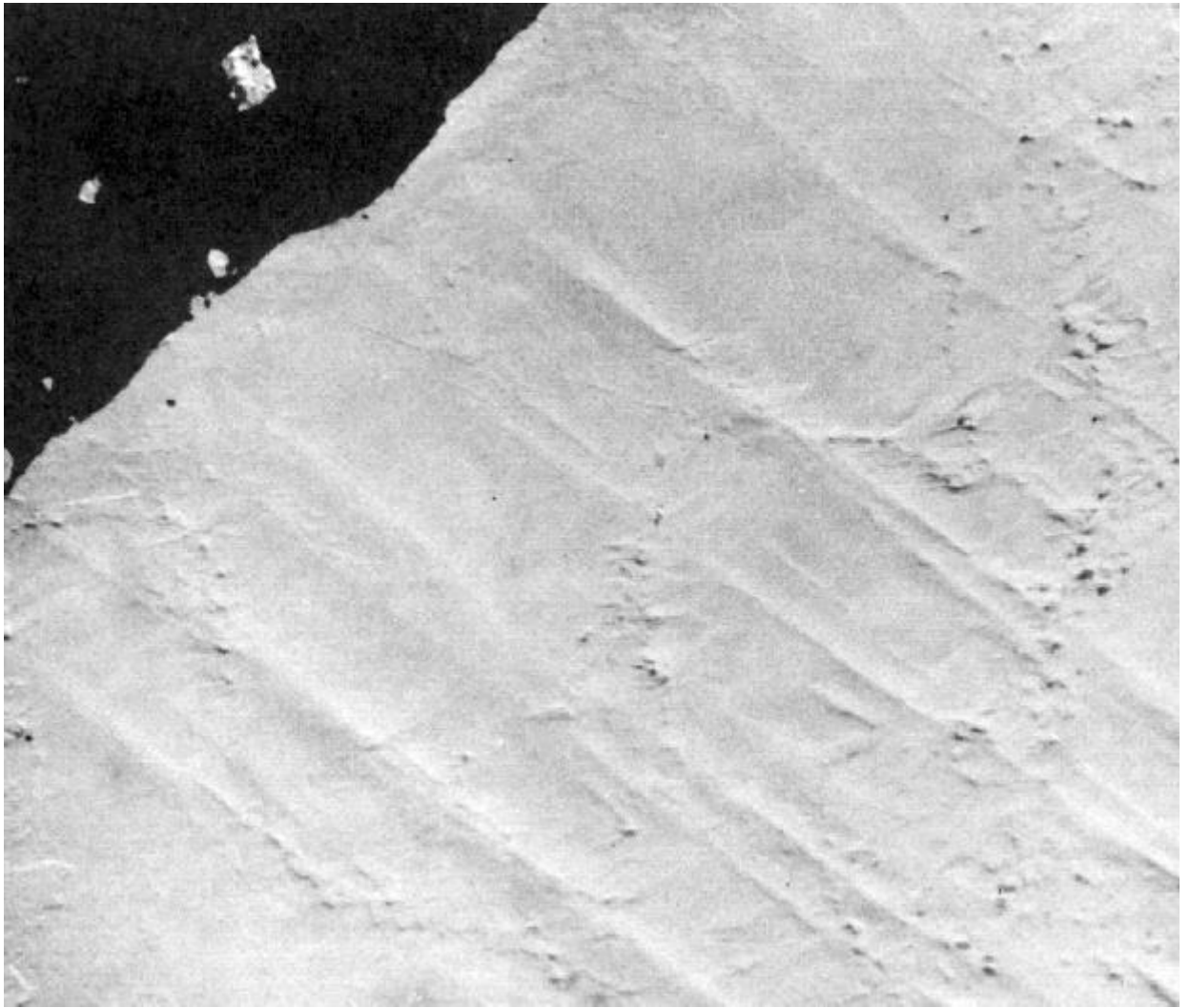
8.5 Bare ice (Glace vive [fr])

135



National Film Board, Canada

8.5 Bare ice (Glace vive [fr])

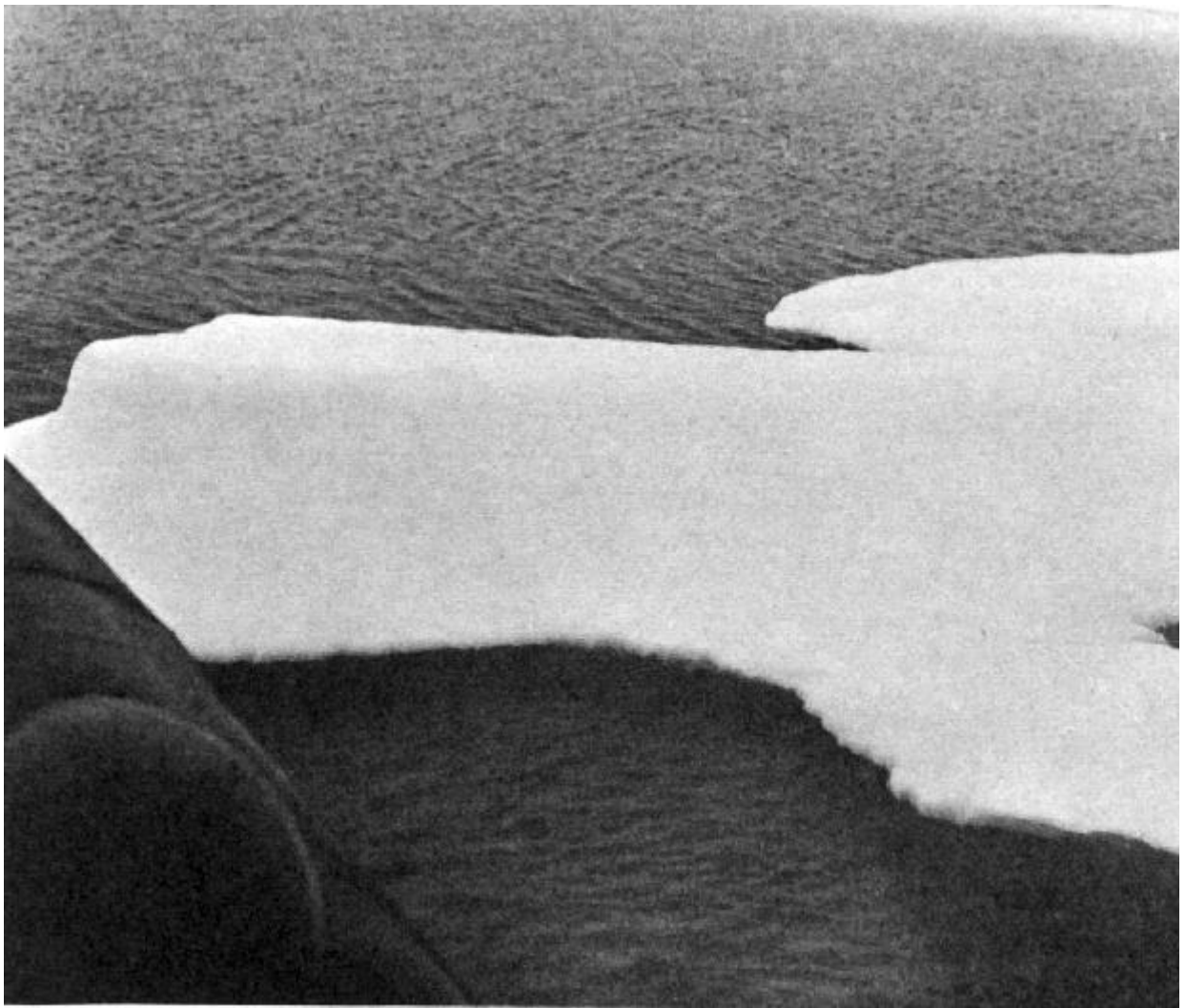


300

Armed Forces, Canada

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

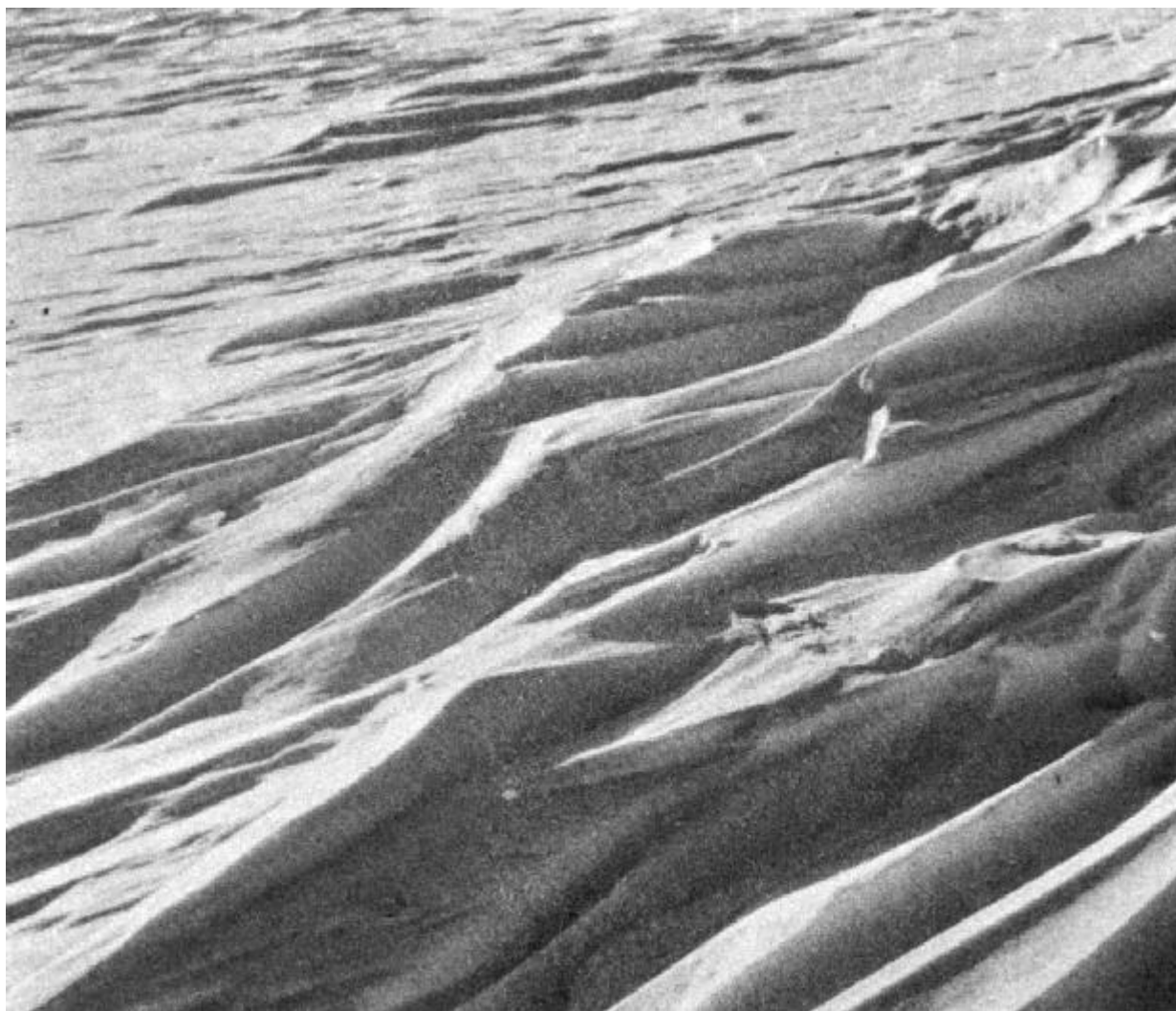
137



U.S.Navy

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





B.Fristrup, Denmark

8.6.1 Snow cover concentration (Concentration de glace recouverte de neige [fr])

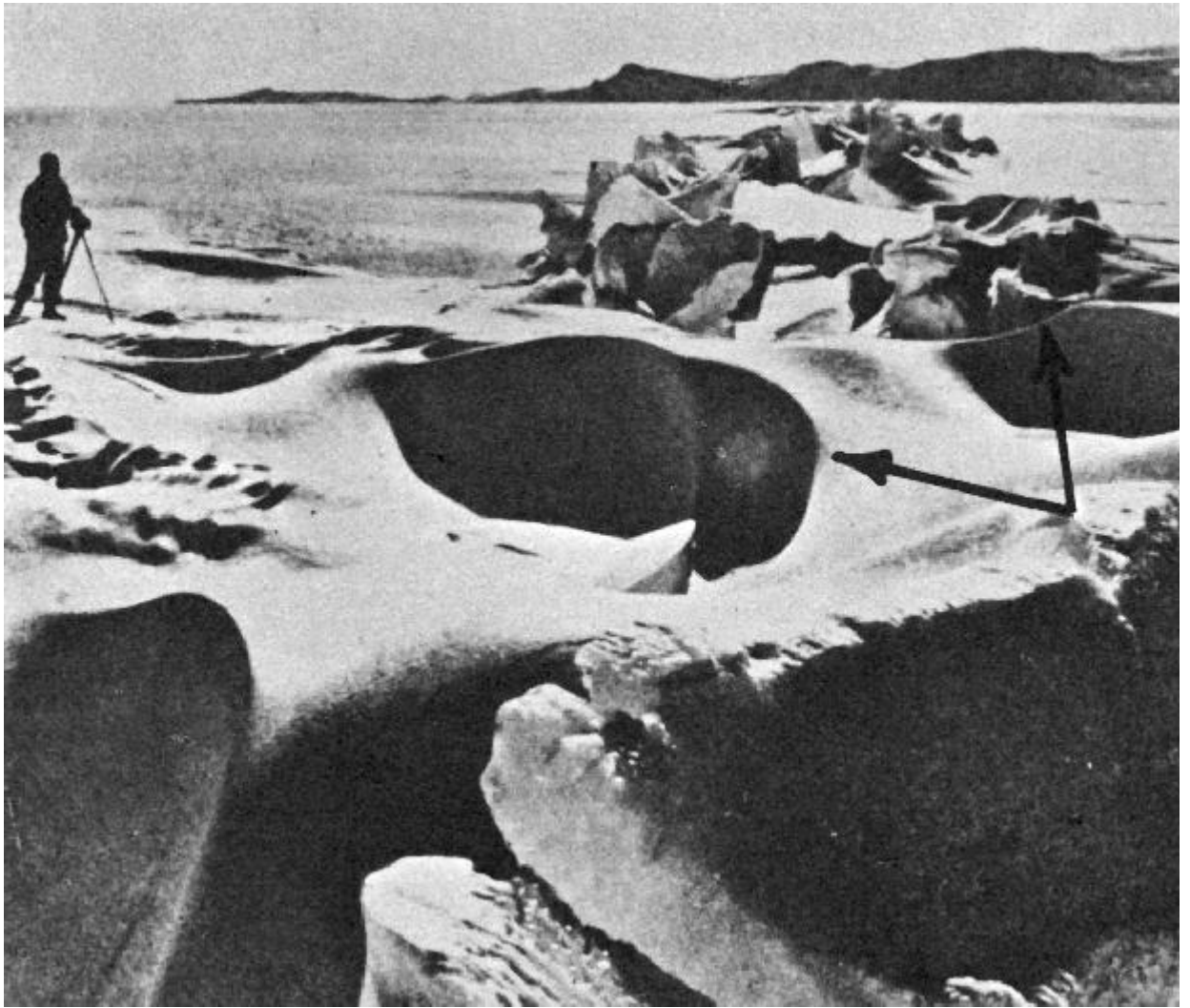


300

Armed Forces,Canada

8.6.2 Sastrugi (Sastrugi [fr])

141



H.G.Ponting, Gt.Britain

8.6.2 Sastrugi (Sastrugi [fr])



10

V.M.Smolyanitsky, Russia

8.7 Dirty ice (Glace sale [fr])

143



10

Matthias Wietz

8.8 Frost flowers (Fleurs de givre [fr])

144



U.S.Navy

9.1 Puddle (Mare [fr])



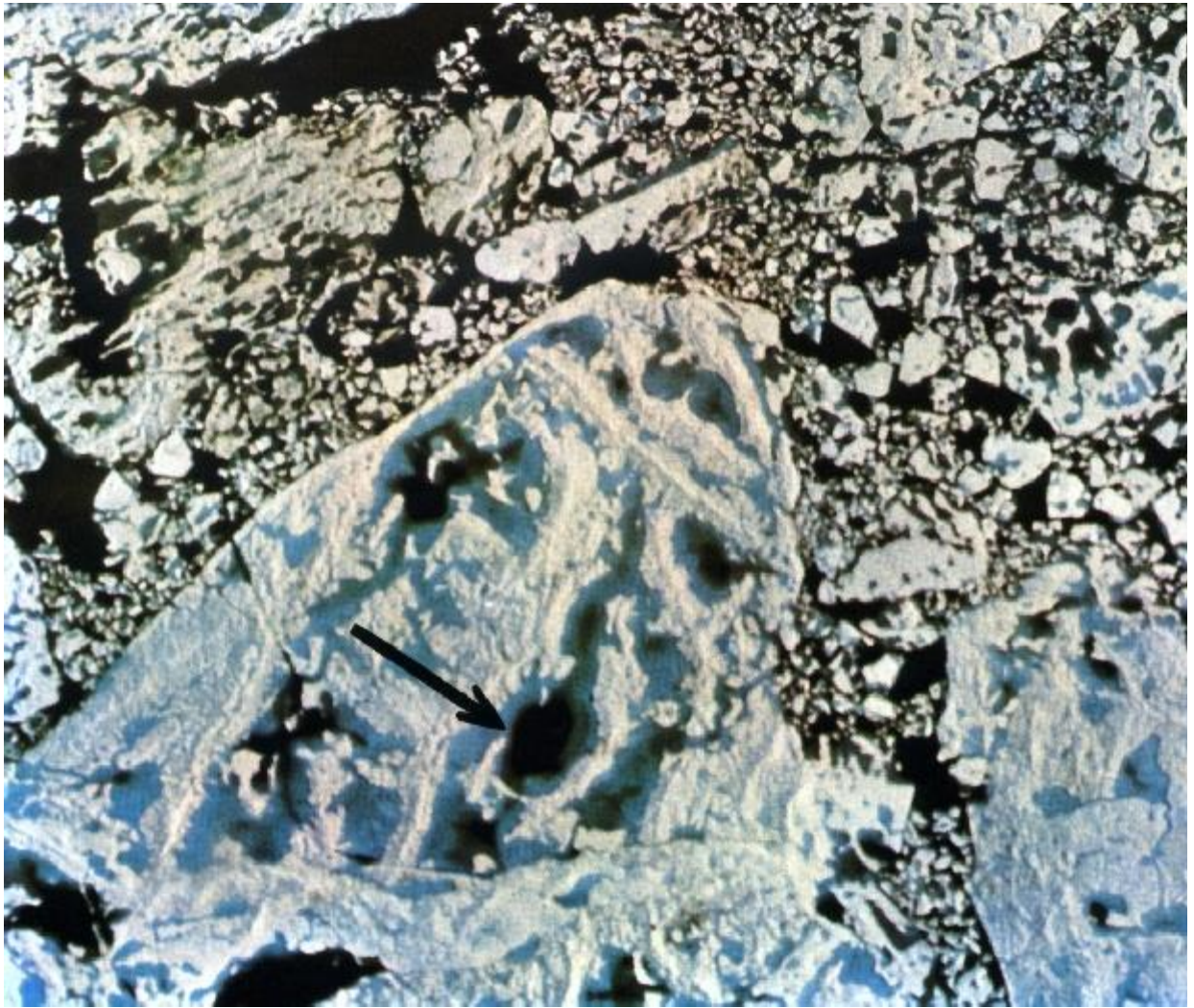
U.S.Navy

9.1 Puddle (Mare [fr])



M.Dunbar, Canada

9.2 Thaw holes (Trous de fonte [fr])

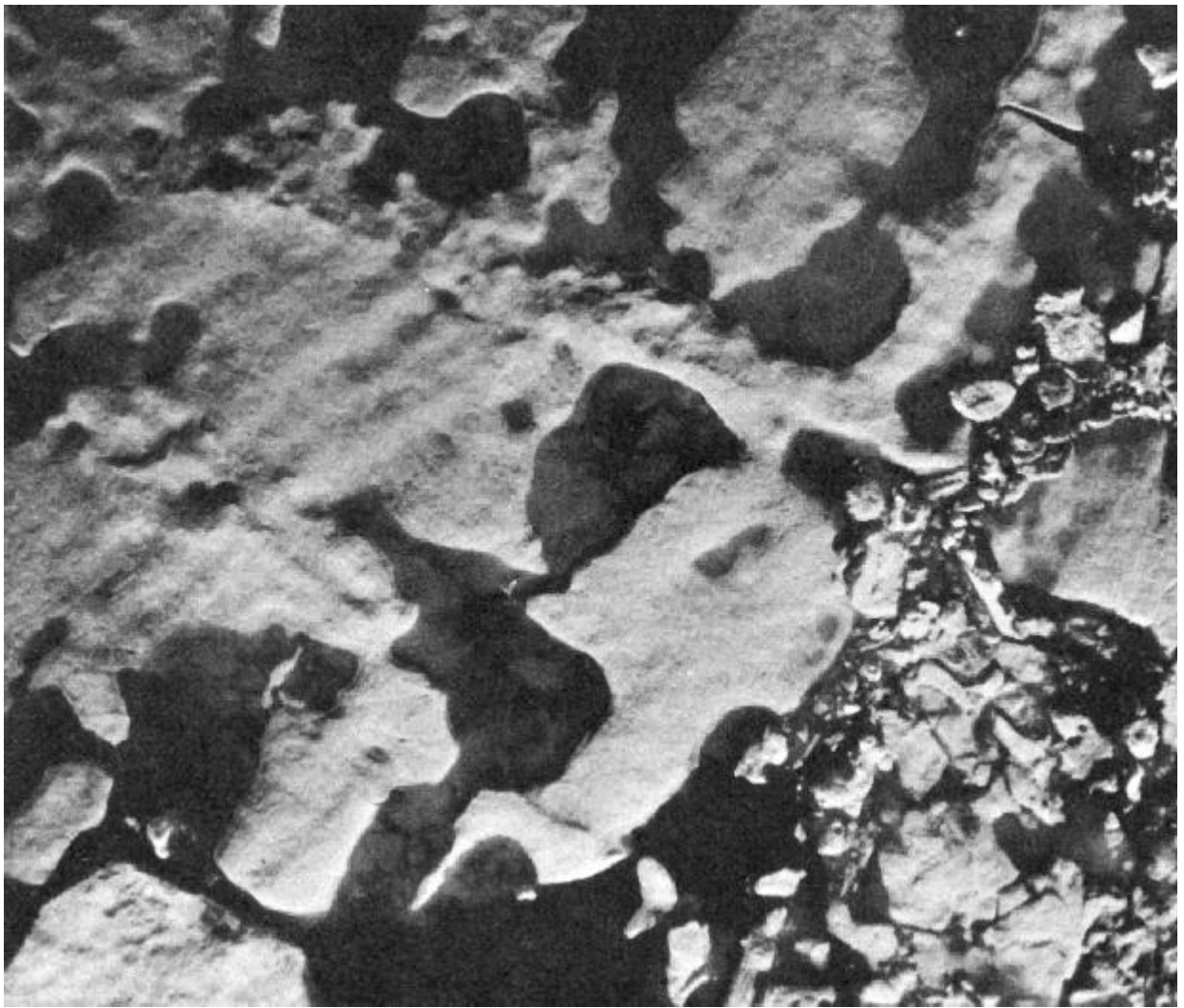


450

R. Van Humbeck, Canada

9.2 Thaw holes (Trous de fonte [fr])

148



300

N.M.Shakirov, USSR

9.3 Dried ice (Glace asséchée [fr])

149



E.M.Bartashevich, USSR

9.3 Dried ice (Glace asséchée [fr])

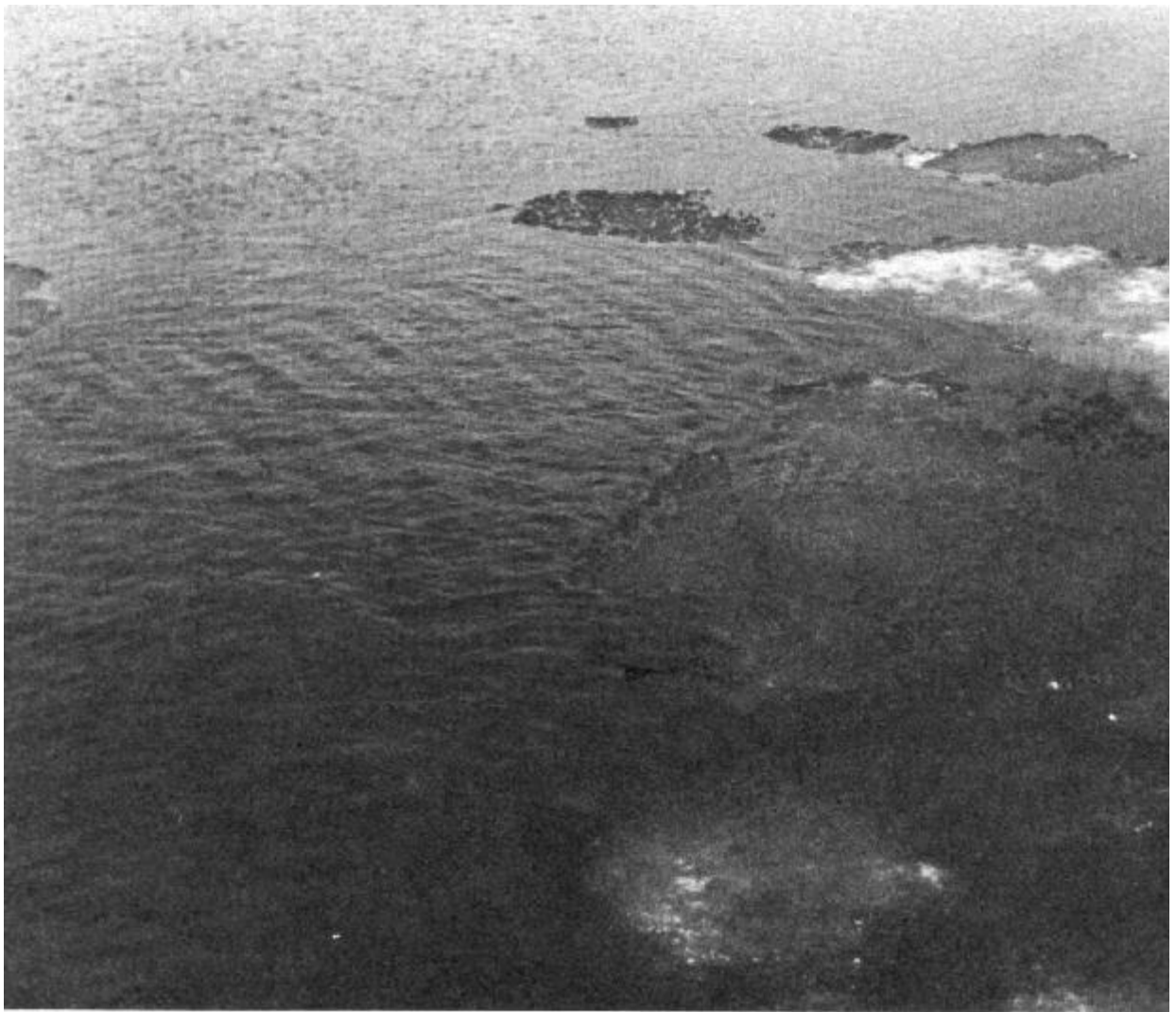


400

U.S.Navy

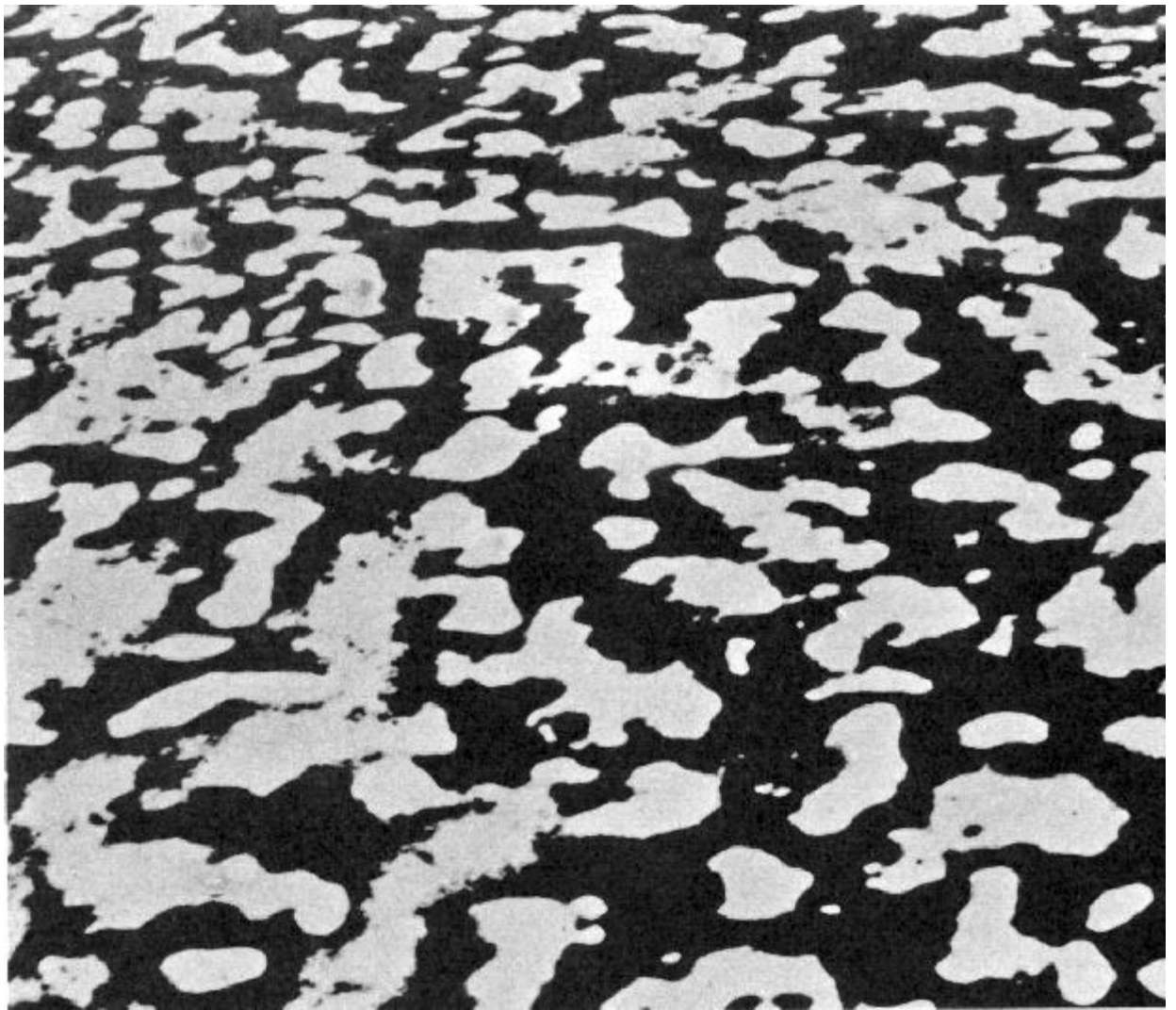
9.4 Rotten ice (Glace pourrie [fr])

151



J.S.Fabricsius, Denmark

9.4 Rotten ice (Glace pourrie [fr])



200

Defence Research Boat, Canada

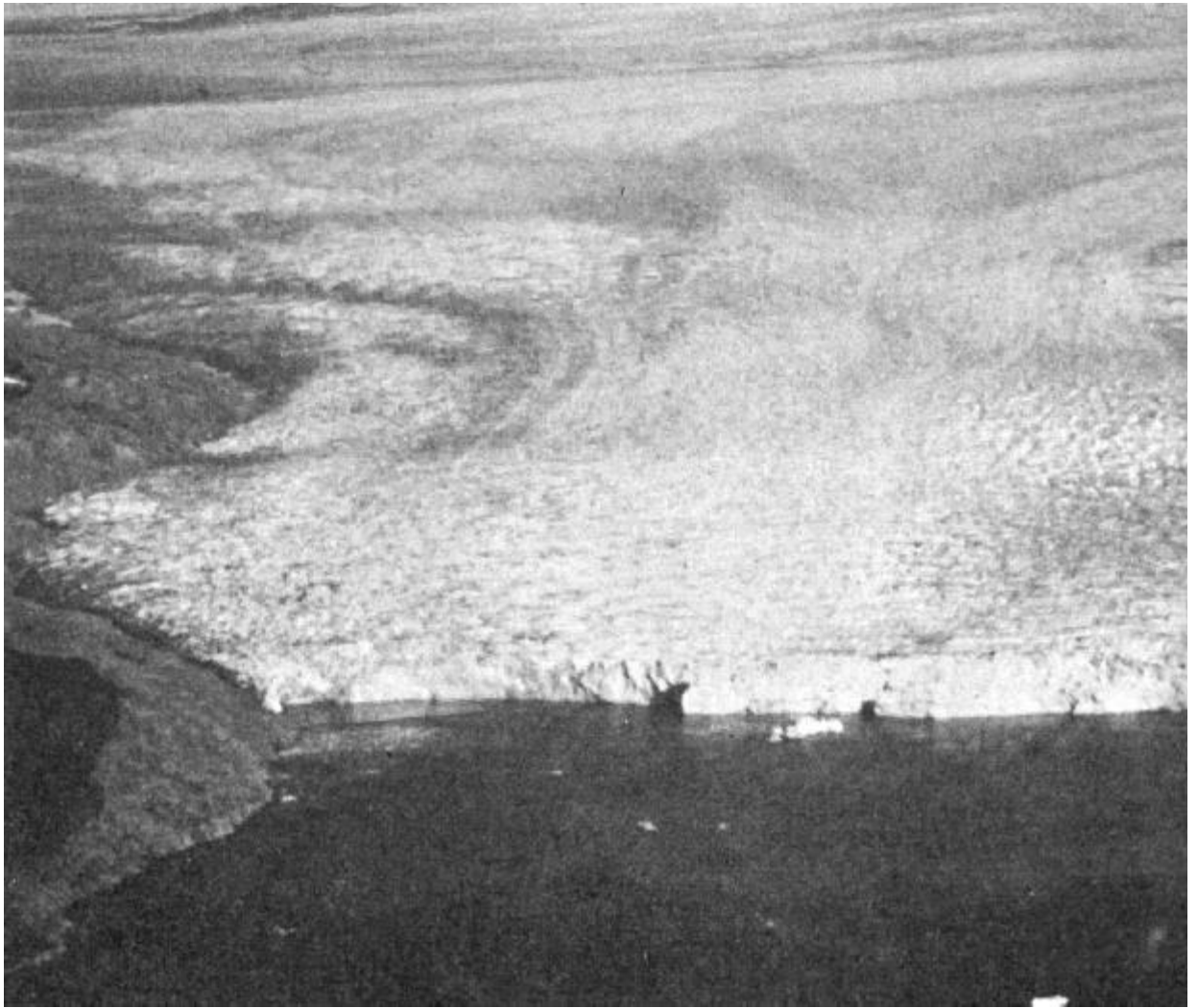
9.5 Flooded ice (Glace inondée [fr])

153



Defence Research Boat, Canada

9.5 Flooded ice (Glace inondée [fr])

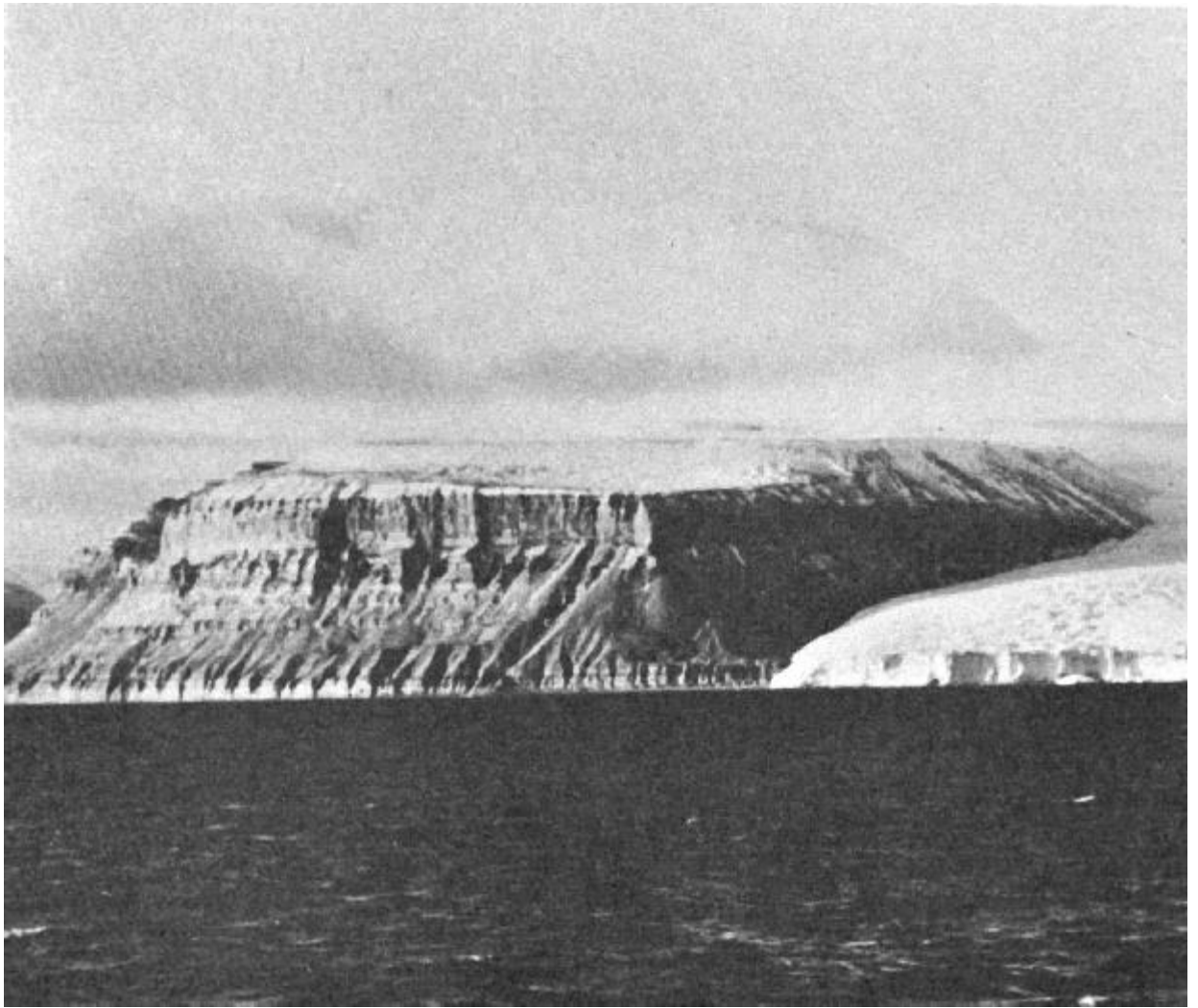


1500

H.H.Valeur, Denmark

10.2.1 Glacier (Glacier [fr])

155



Defence Research Boat, Canada

10.2.1 Glacier (Glacier [fr])



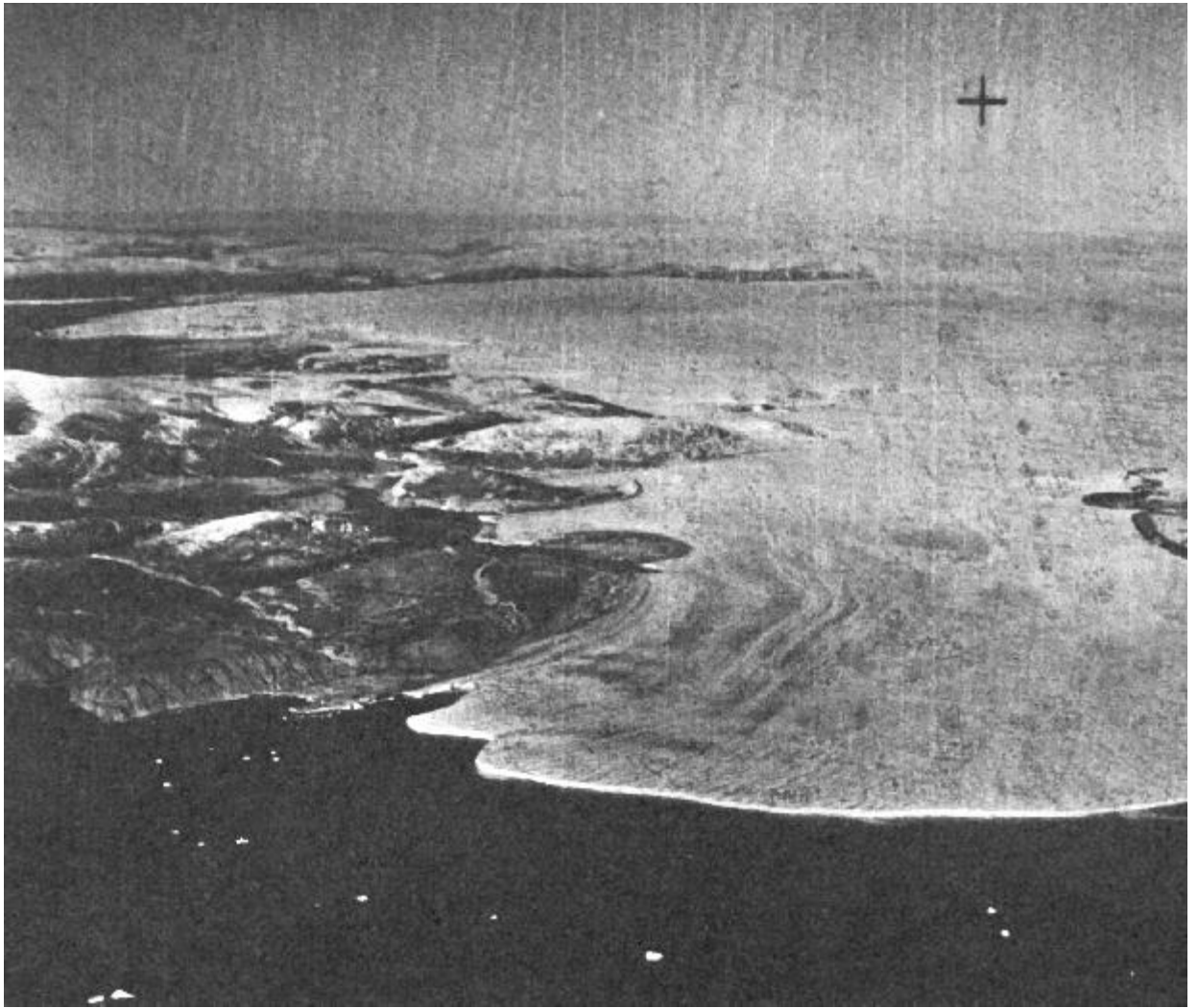
R.N.Panzarini, Argentina

10.2.2 Ice wall (Mur de glace [fr])



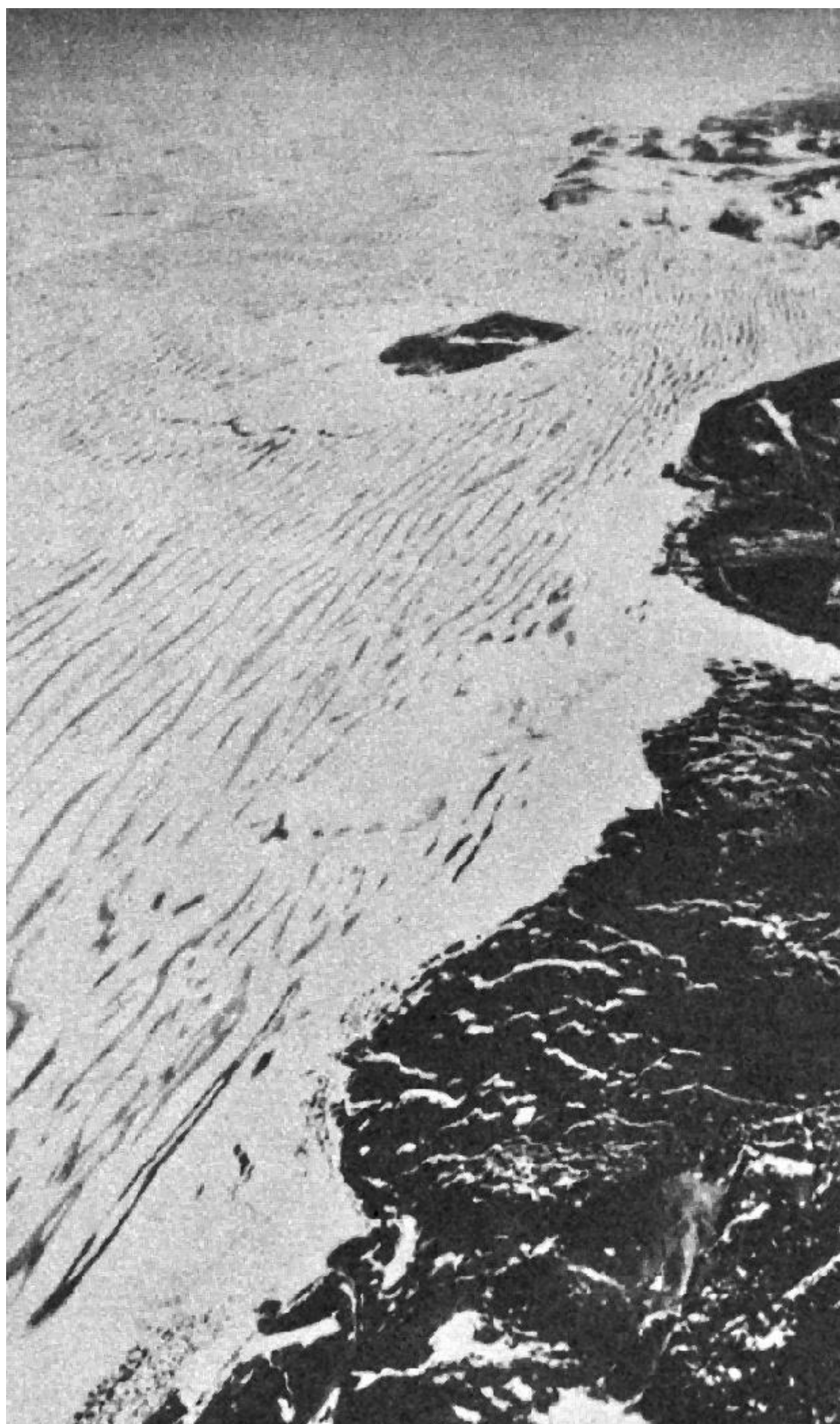
Geodetic Institute, Denmark Permit A 298/69

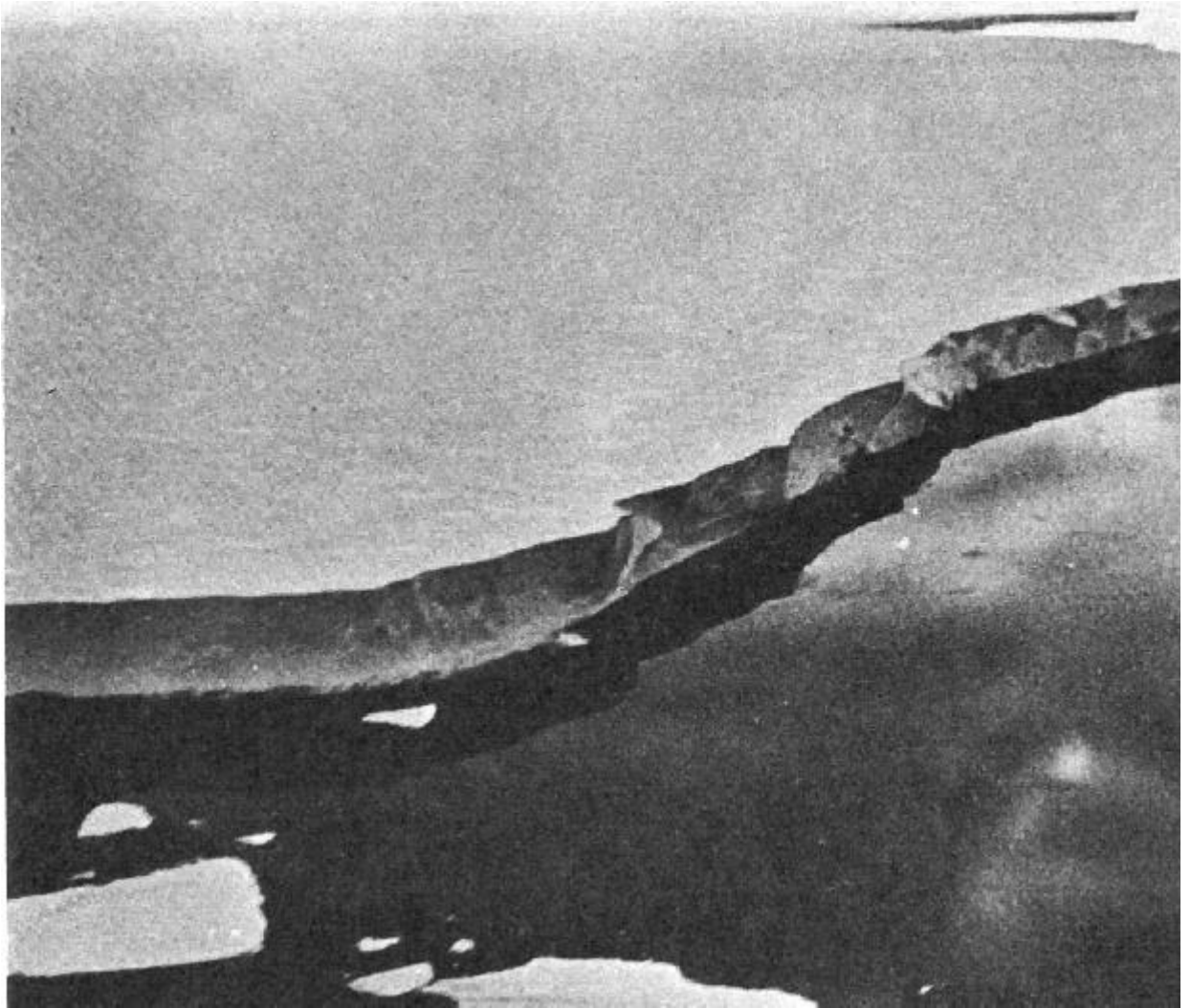
10.2.3 Ice stream (Coulée de glace [fr])



Geodetic Institute, Denmark Permit A 298/69

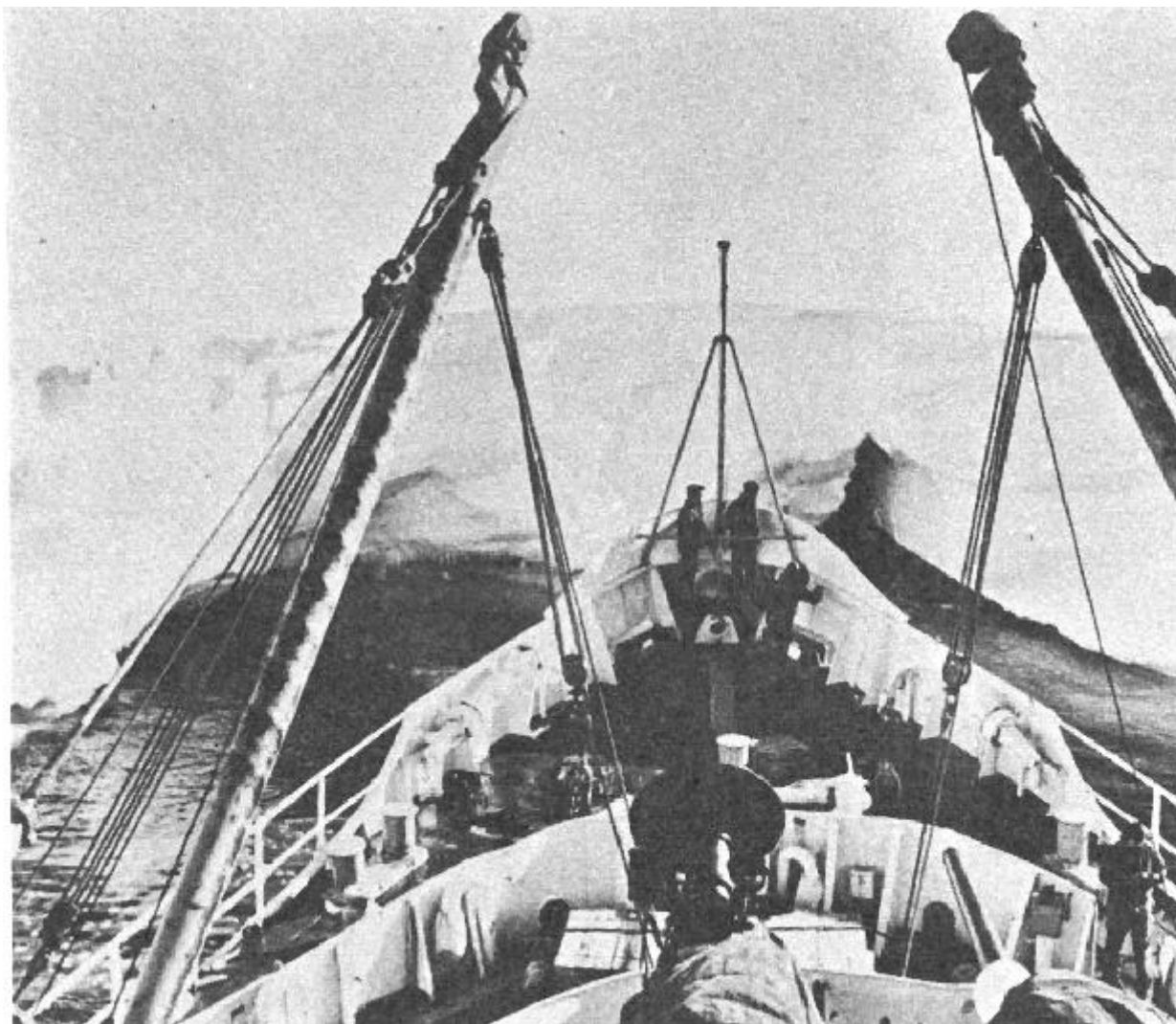
10.2.4 Glacier tongue (Langue de glacier [fr])





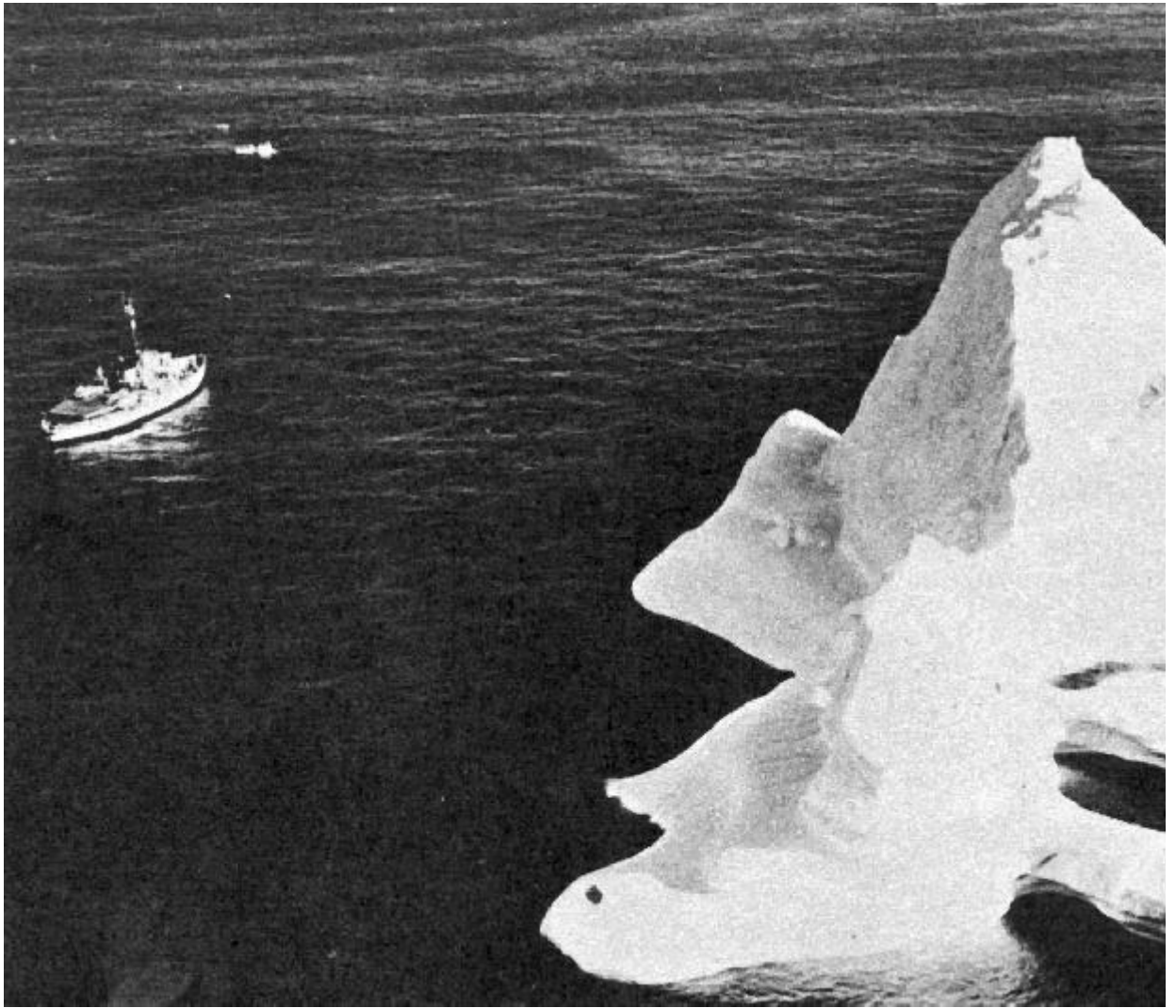
Antarctic Inst., Argentina

10.3.1 Ice front (Falaise de glace [fr])



U.S.Coast Guard

10.3.1 Ice front (Falaise de glace [fr])



U.S.Coast Guard

10.4.2 Iceberg (Iceberg [fr])



National Inst. Of Oceanography, Gt.Britain

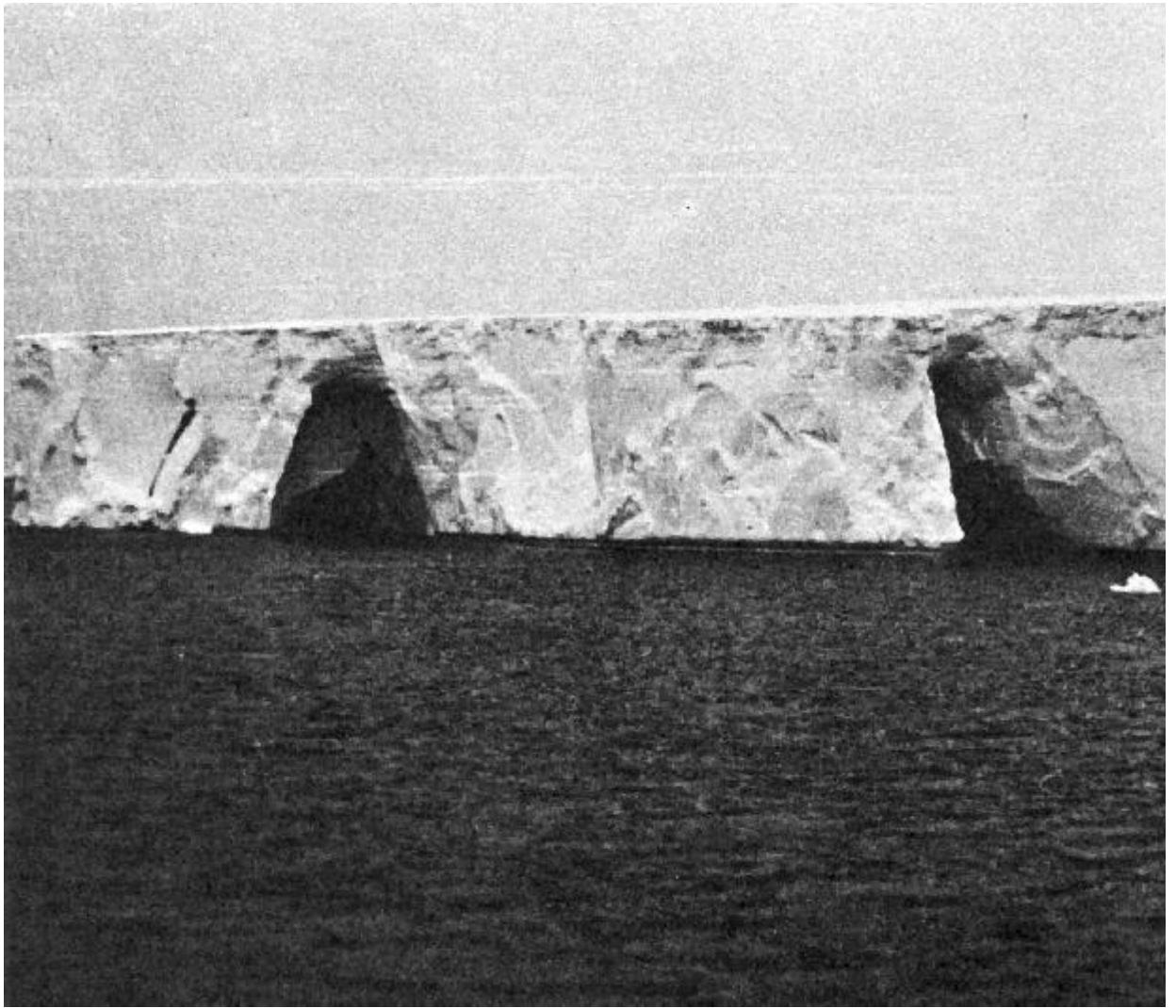
10.4.2 Iceberg (Iceberg [fr])

164

U.S.Navy

10.4.2.2 Tabular berg (Iceberg tabulaire [fr])

165



R.N.Panzarini, Argentina

10.4.2.2 Tabular berg (Iceberg tabulaire [fr])



1000

J.A.Weaver,Canada

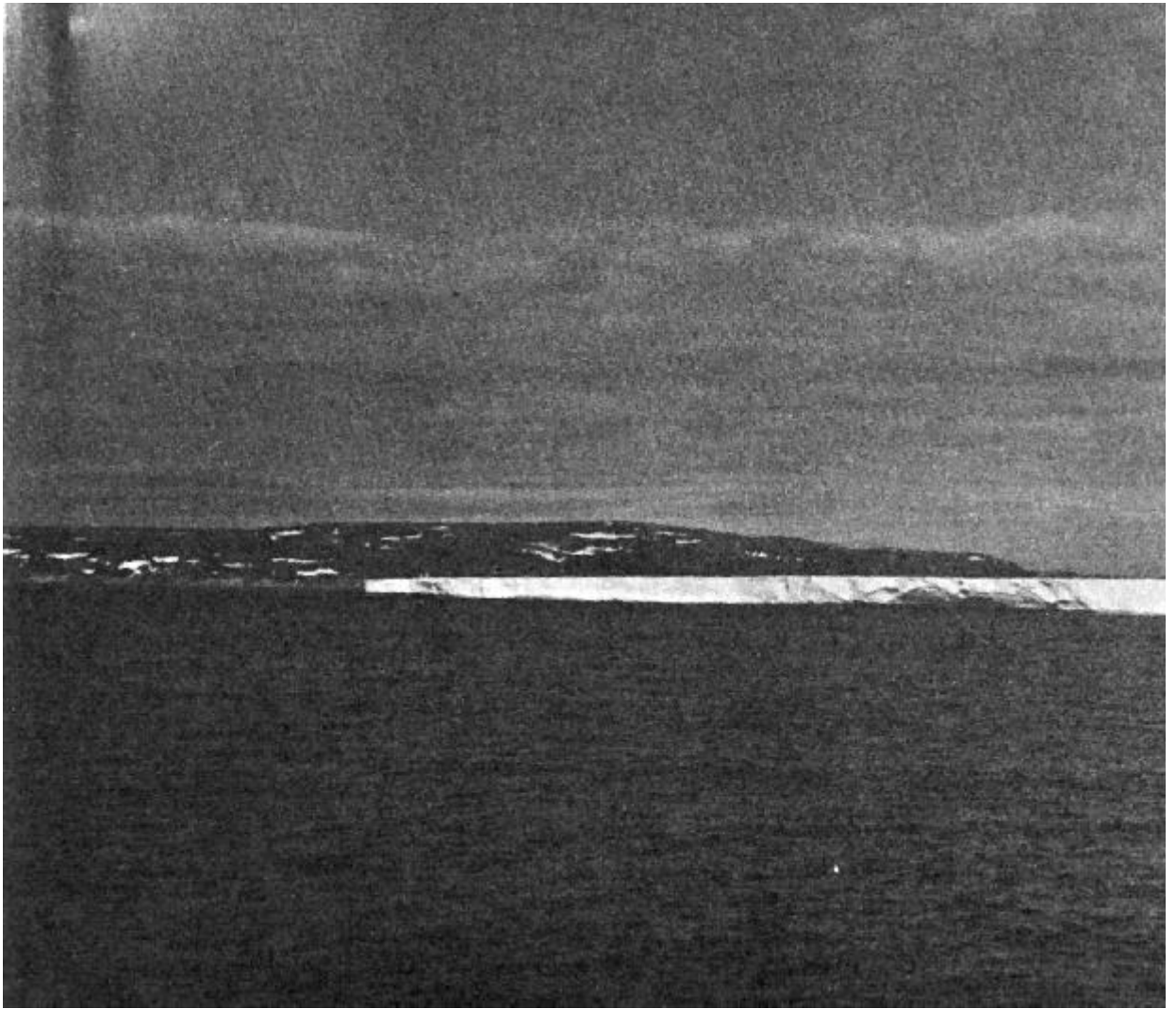
10.4.2.3 Iceberg tongue (Champ d'icebergs échoués [fr])



6000

Armed Forces, Canada

10.4.3 Ice island (Ile de glace [fr])



R.H.W.Hill, Canada

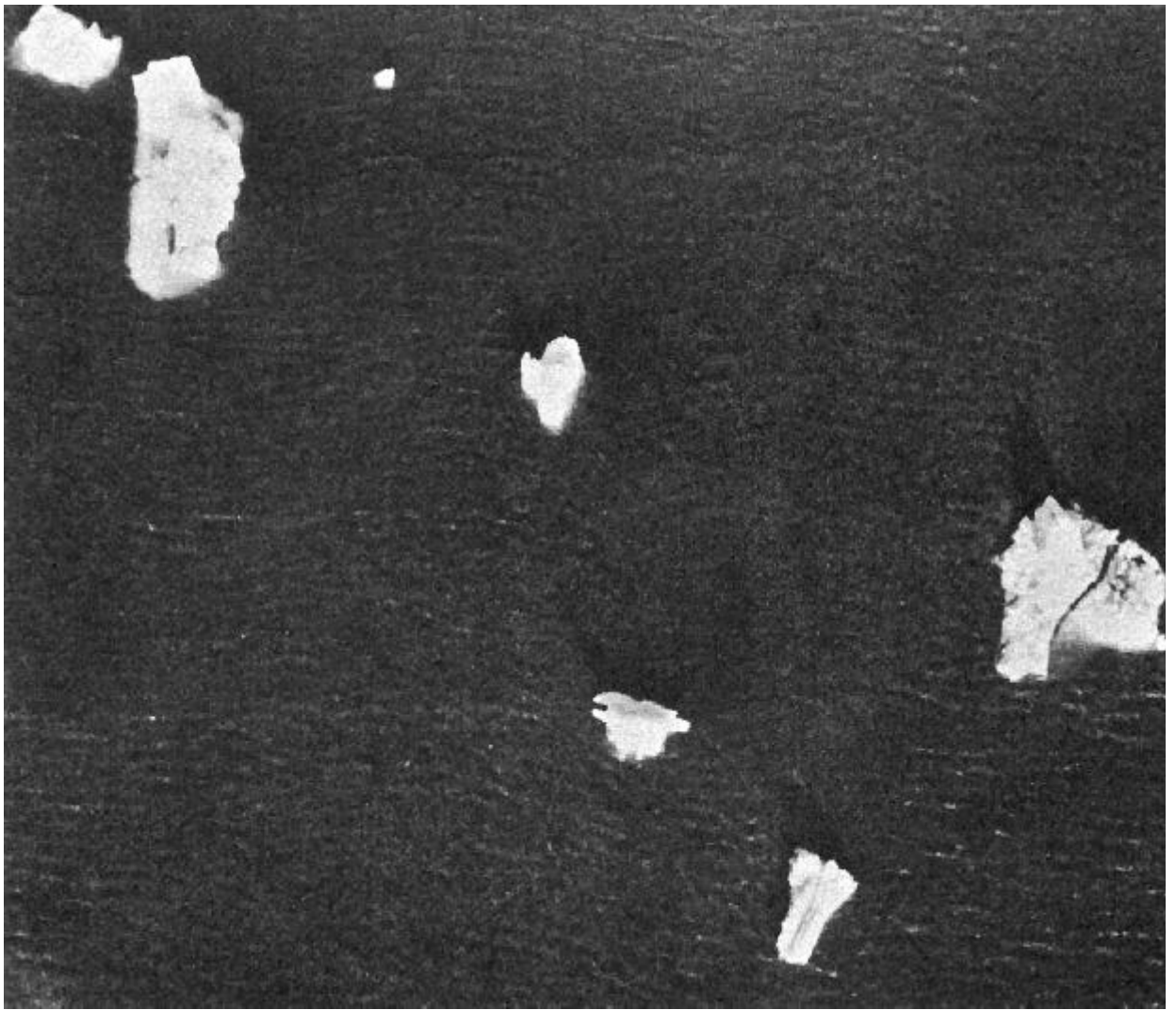
10.4.3 Ice island (Ile de glace [fr])





R. Van Humbeck, Canada

10.4.3 Ice island (Ile de glace [fr])

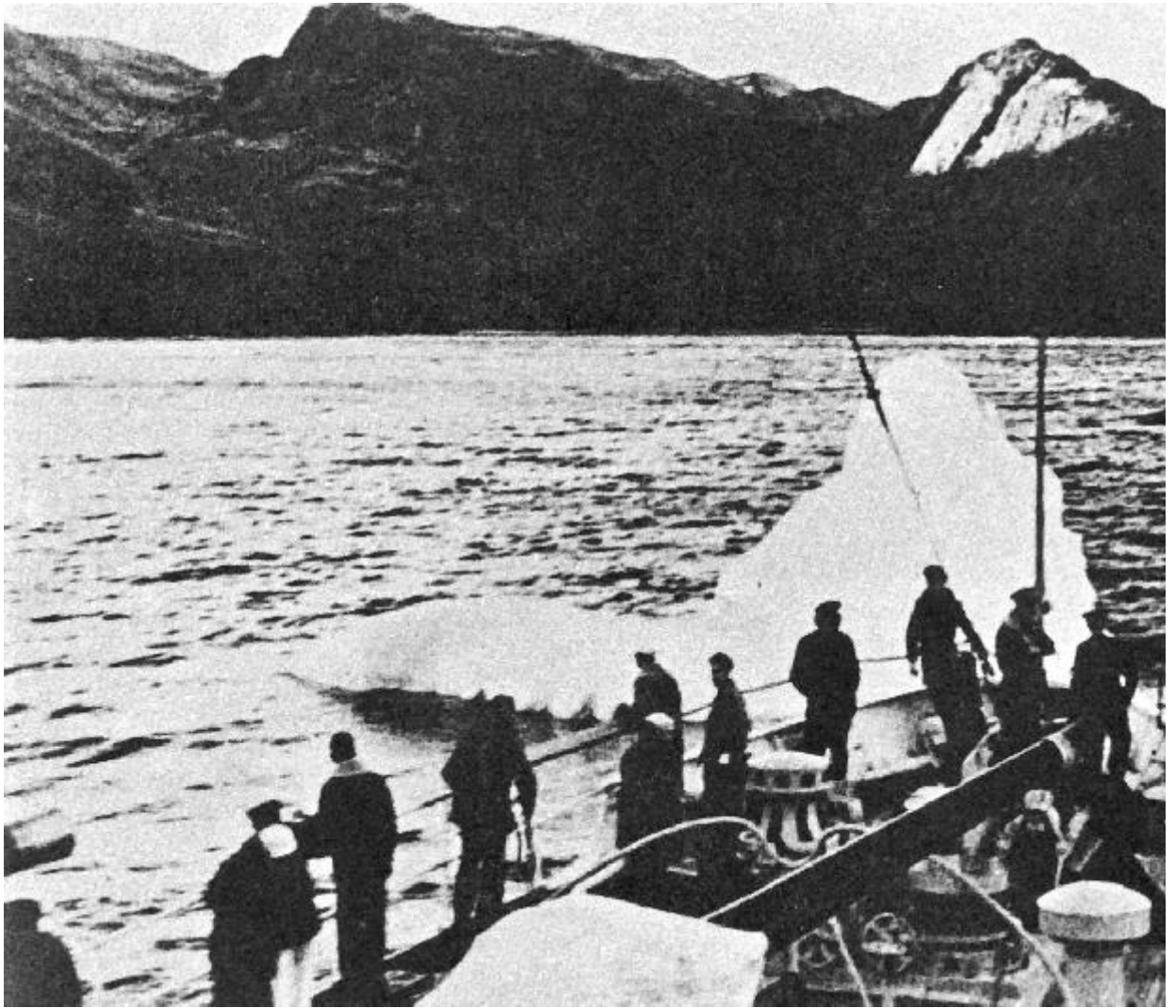


160

Kenting Aviation, Canada

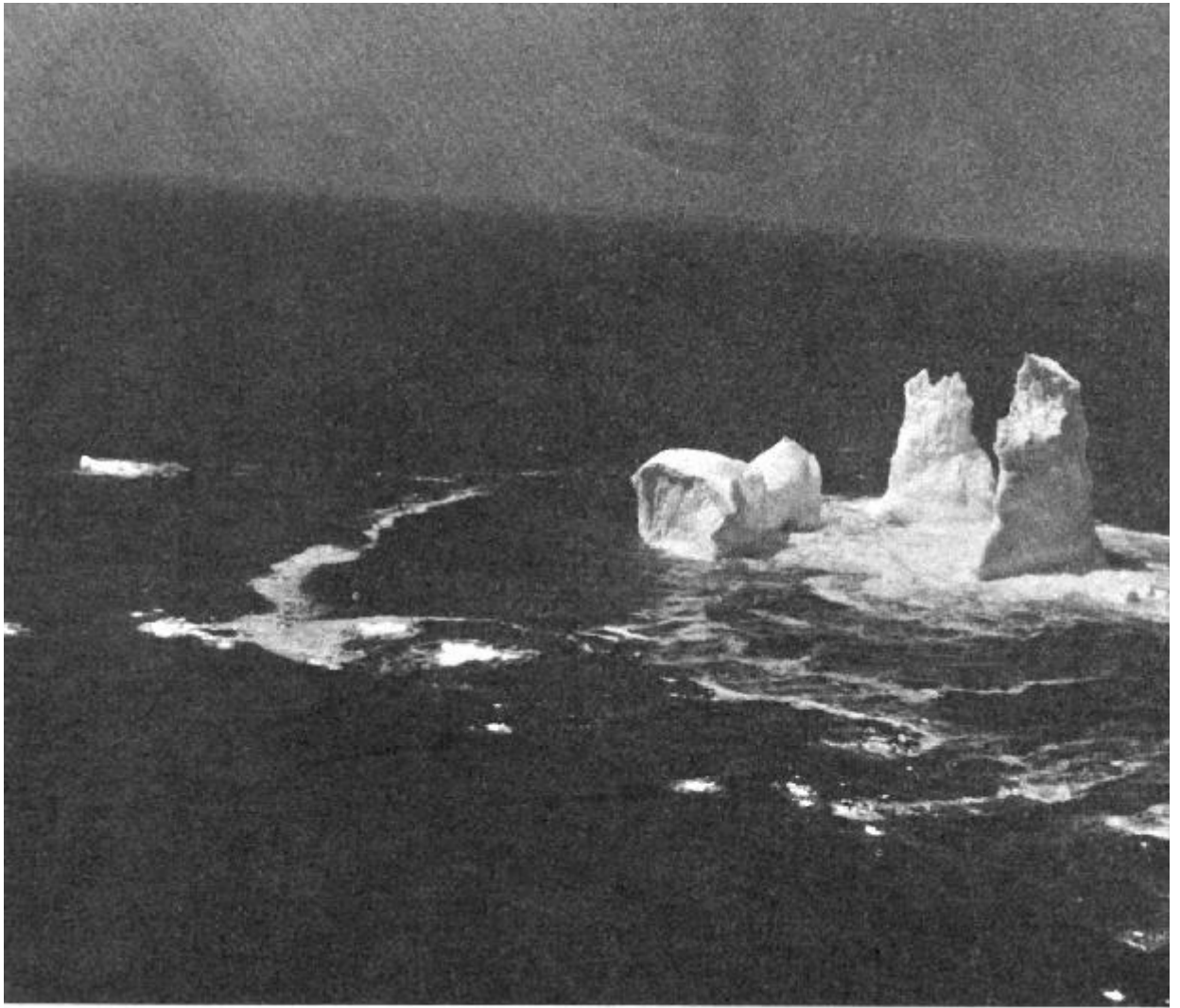
10.4.4 Bergy bit (Fragment d'iceberg [fr])

172



U.S.Coast Guard

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



U.S.Coast Guard

10.4.5 Growler (Bourguignon [fr])



R.Van Humbeck, Canada

10.4.5 Growler (Bourguignon [fr])



Defence Research Boat, Canada

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



Y.Y.Gakkel, USSR

11.2 Ice blink (Halo glacaire [fr])

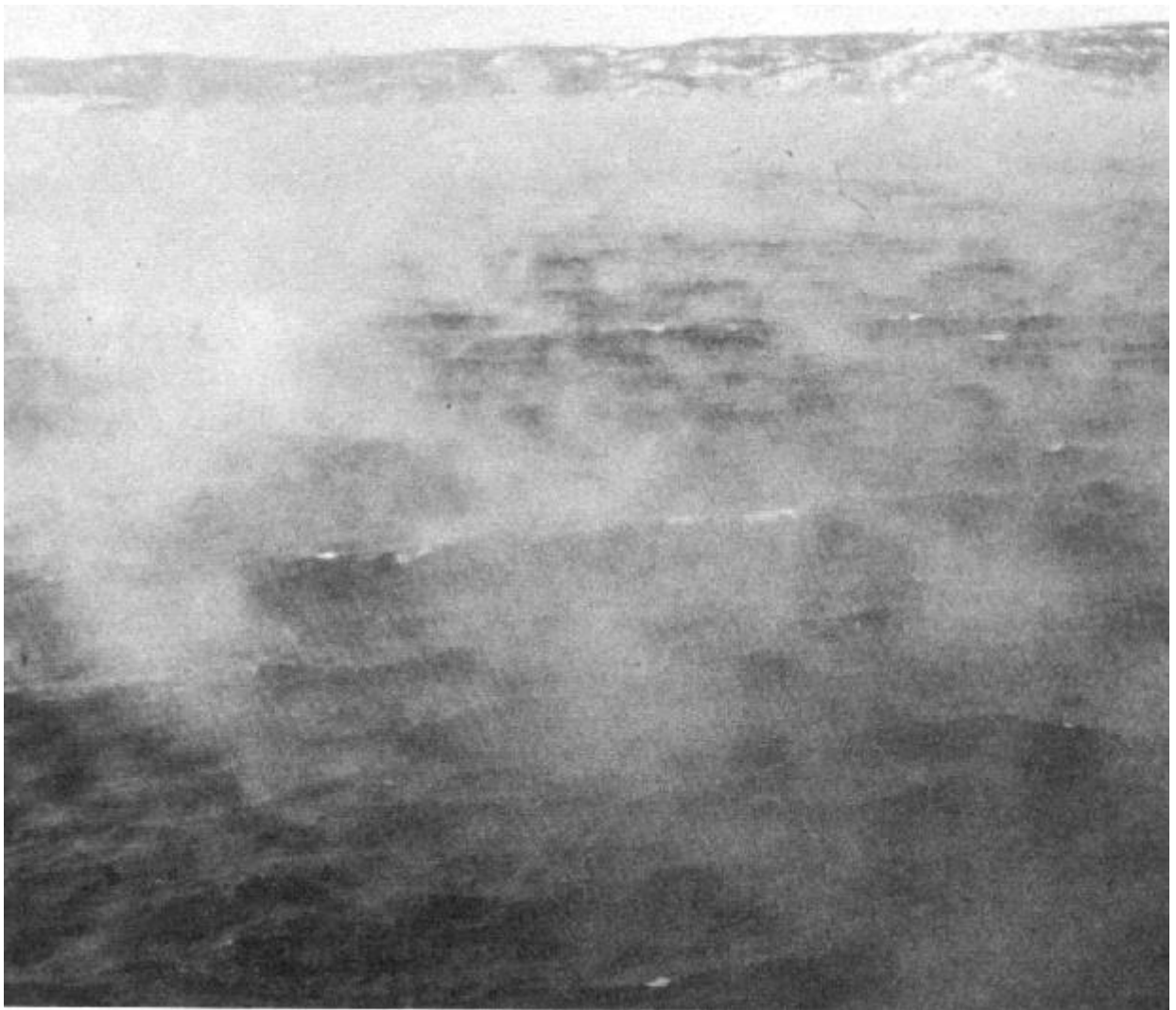


200

H.H.Valeur, Denmark

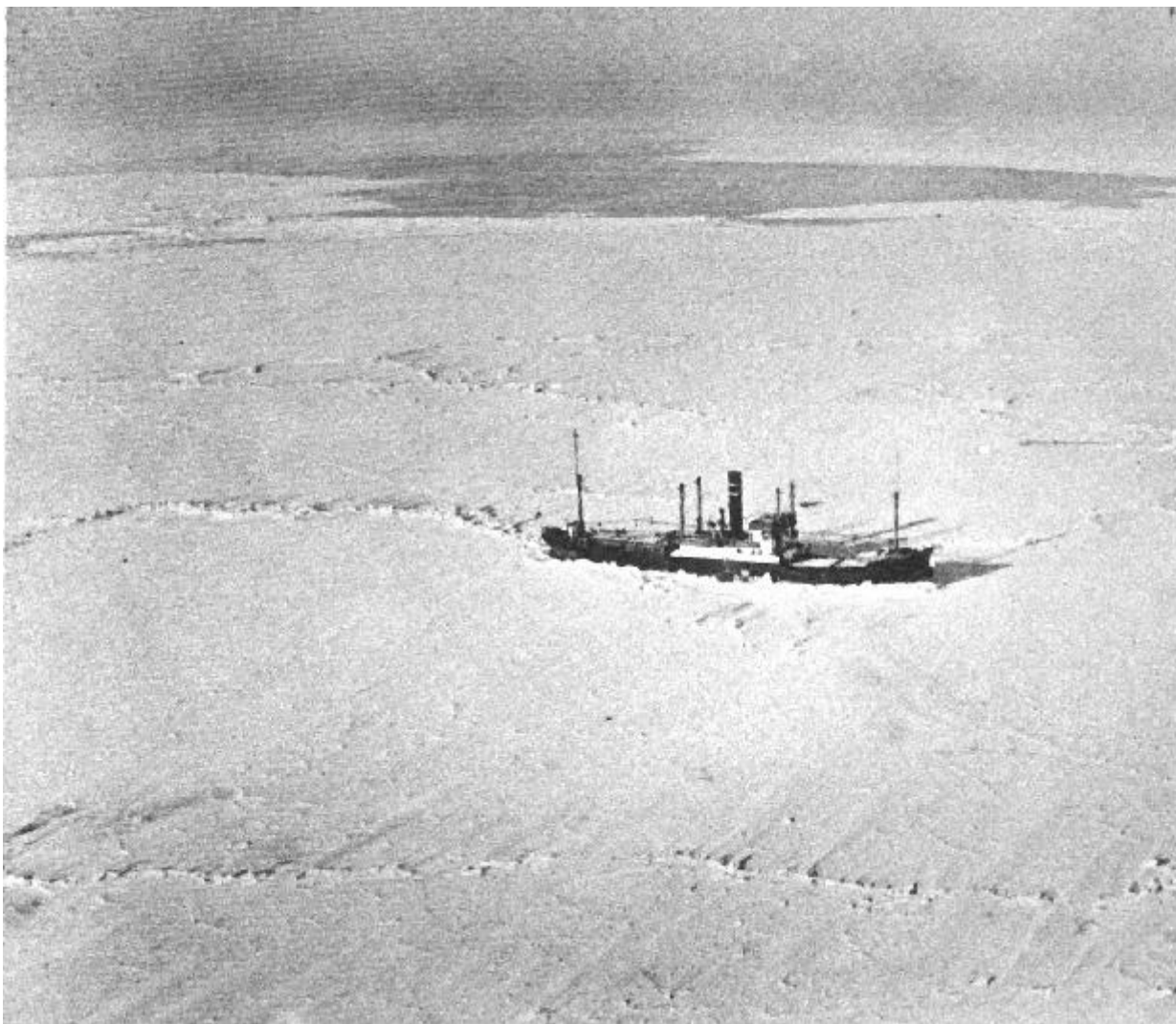
11.3 Frost smoke (Brume d'évaporation [fr])

178



R. Van Humbeck, Canada

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



100

Air Force, Finland

12.1 Beset (Coincé [fr])

180

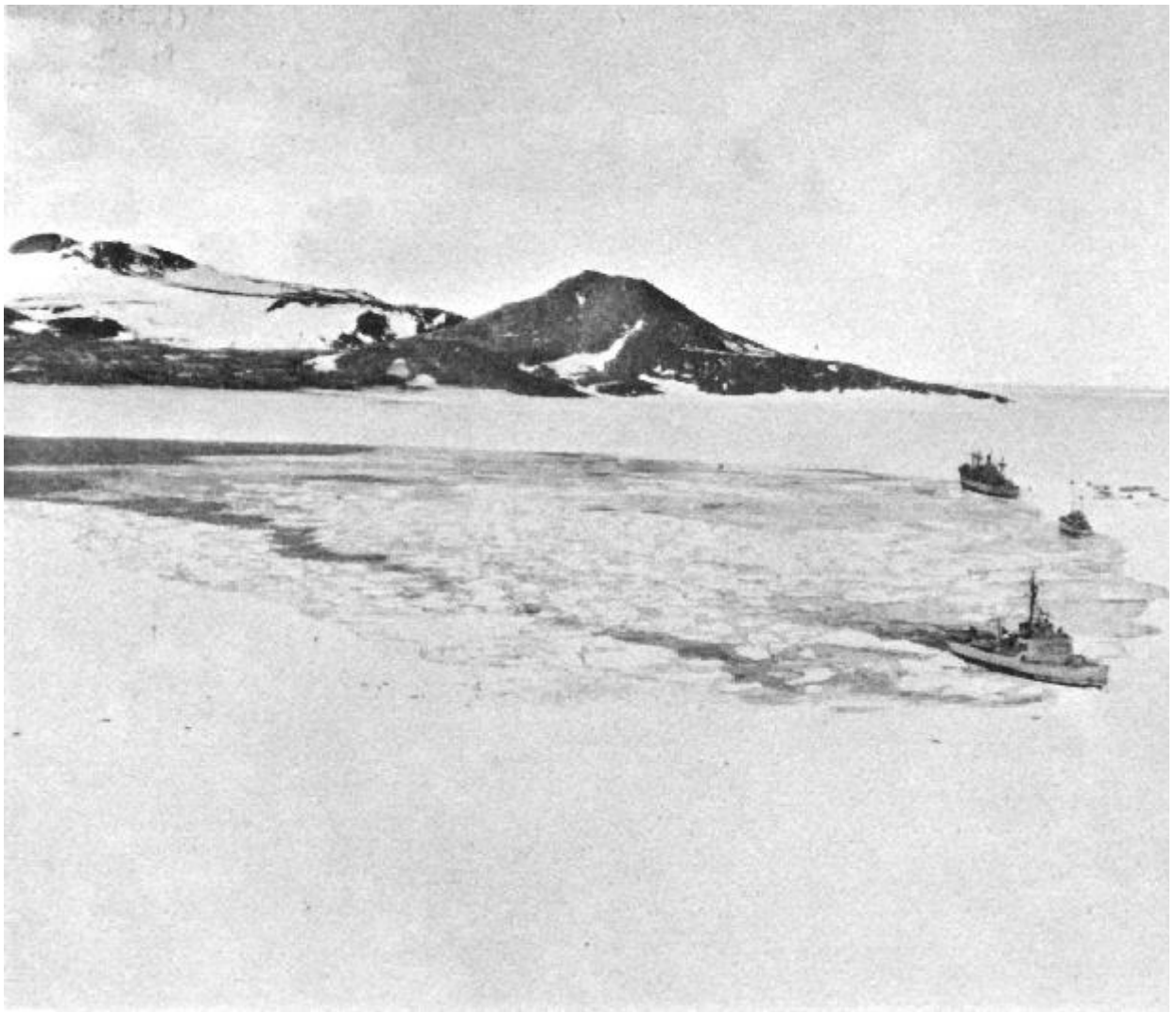


550

Armed Forces, Canada

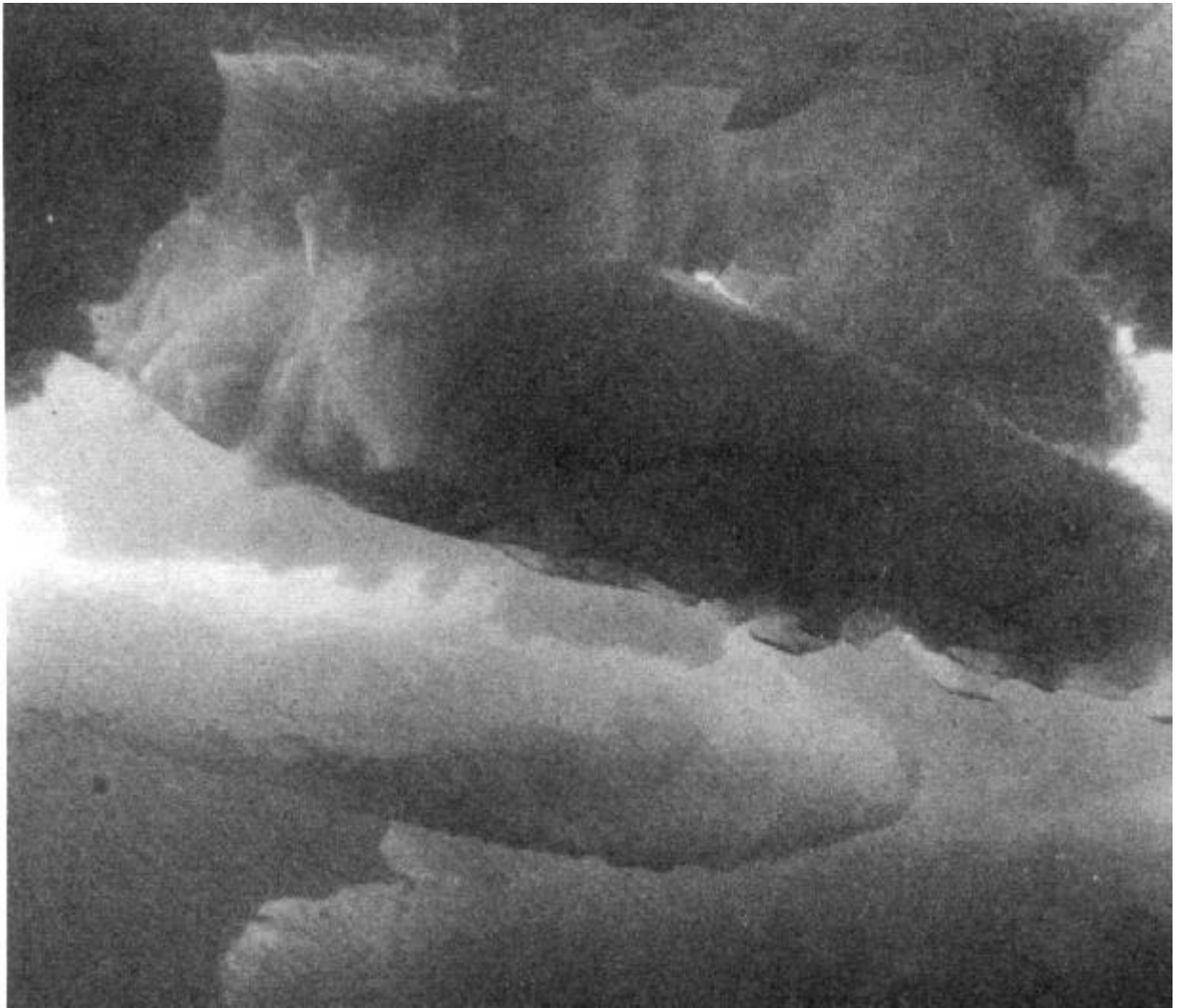
12.2 Ice-bound (Bloqué par les glaces [fr])

181



U.S.Navy

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



U.S.Navy

13.4 Bummock (Bummock [fr])