

# **ICE INFORMATION FOR ELECTRONIC NAVIGATION CHARTS (ENC)**

## **DATA FILE NAMING CONVENTION AND STRUCTURE PRESENTATION SCHEMES FOR ICE OBJECTS**

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## Content

<b>File naming convention .....</b>	<b>3</b>
Table 1 – Naming conventions for ice chart purpose.....	3
Table 2 – Naming conventions for Region, Month, Day, Hour and Forcastal time of ice chart.....	4
<b>Data file structure .....</b>	<b>5</b>
<b>Presentation Schemes for Ice Objects .....</b>	<b>7</b>
Appendix A - Colour Scheme for Ice Objects.....	7
Appendix B - Detailed list of the Colour Scheme .....	8
Appendix C - Hatching Scheme for Ice Objects.....	9
Appendix D - Cartographic presentation of linear ice objects .....	12
Appendix E - Cartographic presentation of point sea ice objects.....	17
Appendix F – PressLib library .....	19
Appendix G – PressLib library for Russian national coding .....	29

# File naming convention

Ice chart data file naming convention in S-57 format should be based on the following scheme: SSPRMDHF.000, where

**SS** – code of issuing service (TBD in cooperation with the OGC);

**(P)**urpose in accordance with table 1;

**(R)**egion, **(M)**onth, **(D)**ay, **(H)**our and **(F)**orcastal time of ice chart in accordance with table 2.

**Table 1 – Naming conventions for ice chart purpose**

Symbol		ice chart specification	Type of chart
in file name	code		
V	100	overview	diagnostic ice chart
D	101	detailed	
S	102	special	
C	103	concentration	prognostic ice chart
H	104	hummocking	
P	105	compacting	
W	106	waves height of 3% significance	prognostic hydrometeorological chart
U	107	waves predominant direction	
L	108	sea level denivelation	
A	109	Icing (ice accretion)	

**Table 2 – Naming conventions for Region, Month, Day, Hour and Forcastal time of ice chart**

Symbol	R (region)	M (month)	D (day)	H (hour)	F (forecastal time in hours)
1	Baltic Sea	1	1	00	00
2	Northern Sea	2	2	01	03
3	Greenland Sea	3	3	02	06
4	Norwegian Sea	4	4	03	09
5	Barents Sea	5	5	04	12
6	White Sea	6	6	05	15
7	Kara Sea	7	7	06	18
8	Laptev Sea	8	8	07	21
9	East Siberian Sea	9	9	08	24
0	Chukchi Sea	10	10	09	48
A	Beaufort Sea	11	11	10	72
B	Canadian Archipelago	12	12	11	96
C	Baffin Sea		13	12	120
D	Devis-Labrador		14	13	
E	Hudson Bay		15	14	
F	St.Lawrence Gulf		16	15	
G	Great Lakes		17	16	
H	Arctic Basin		18	17	
I	Black - Azov Seas		19	18	
J	Caspian Sea		20	19	
K	Japan Sea		21	20	
L	Okhotsk Sea		22	21	
M	Bering Sea - Alaska Gulf		23	22	
N	Weddell Sea		24	23	
O	Atlantic sector (of Antarctic)		25		
P	Indian sector (of Antarctic)		26		
Q	Pacific sector (of Antarctic)		27		
R	Ross Sea		28		
S	Amundsen Sea		29		
T	Bellingsgauzen Sea		30		
U	Drake Strait		31		
V	Western Antarctic sector				
W	Eastern Antarctic sector				
X-Z	optional				

**Note:** Region indexes V - Z may be used by the issuing services for preparation of the products for areas not specified by A - U or for lower order and mixed type areas

# Data file structure

## DDR

Leader	
Directory	
Field Area	Fields enumeration
	Detailed description of fields

## DR 1

Leader	
Directory	
Field Area	Record number (1) (0)
	DSID
	DSSI – number of objects

## DR 2

Leader	
Directory	
Field Area	Record number (2) (0)
	DSPM

## DR 3 – Enumeration of all nodes (points)

Leader	
Directory	
Field Area	Record number
	VRID
	SG2D – single coordinate ( Y – X )

## DR 4 – Enumeration of all ice zones (polygons)

Leader	
Directory	
Field Area	Record number
	VRID
	VRPT – pointer to initial (parent) node of the polygone
	VRPT – pointer to final node of the polygone
	SG2D – enumeration of coordinates ( Y – X )

## DR 5 – Description of all ice zones (polygons)

Leader	
Directory	
Field Area	Record number
	FRID – class of ice object
	ATTF – enumeration of attributes and their values
	FSPT – internal or external polygone

### **For DDR**

0001 DSID DSSI  
0001 DSPM  
0001 VRID VRPT SG2D  
0001 FRID ATTF FSPT

### **For DSID**

[ EXPP ] = {1} – always new data set  
[ INTU ] – (Intended usage) – Navigational purpose is

100	V	overview	Diagnostic ice charts
101	D	detailed	
102	S	special	
103	C	concentration	Prognostic ice charts
104	H	hummocking	
105	P	compacting	

[ PRSP ] – (Product Specification) – {100} – Ice Chart

[ PROF ] – (Application profile identification):

100	Diagnostic ice chart
101	Prognostic ice chart

# Presentation Schemes for Ice Objects

## Appendix A - Colour Scheme for Ice Objects

Token	Colour	Usage
ICERA	light blue	Ice free [R]
ICERB	blue	Less than 1/10 (open water), New ice, Nilas [R]; Ice free [I]
ICERC	light green	1/10 - 3/10 (very open ice), FY thin ice [R]
ICERD	green	4/10 - 6/10 (open ice), FY thick ice [R]
ICERE	orange	7/10 - 8/10 (close ice), Second-year ice [R]
ICERF	brown	9/10 - 10/10 (very close ice) [R]
ICERG	dark red	10/10 (compact floating ice), Old ice [R]
ICERH	fuchsia	Young ice [R]
ICERI	pink	Grey ice [R]
ICERJ	violet	Grey-white ice [R]
ICERK	green	First-year ice (FY) [R]
ICERL	turquoise	FY medium ice [R]
ICERM	green	Residual Ice [R]; FY thick ice [I]
ICERN	grey	Multi-year ice [R]
ICERO	yellow	Close area (cloudy) [R]
ICEIA	light blue	Less than one tenth (open water) [I]
ICEIB	light green	1/10 - 3/10 (very open ice) [I]
ICEIC	yellow	4/10 - 6/10 (open ice), First-year ice (FY) [I]
ICEID	orange	7/10 - 8/10 (close ice) [I]
ICEIE	red	9/10 - 10/10 (very close ice) [I]
ICEIF	grey	Fast ice [I]
ICEIG	light plum	New ice [I]
ICEIH	plum	Dark nilas [I]
ICEII	dark plum	Light nilas [I]
ICEIJ	violet	Young ice [I]
ICEIK	violet	Grey ice [I]
ICEIL	dark plum	Grey-white ice [I]
ICEIM	green	FY thin ice (white ice) [I]
ICEIN	light green	FY thin ice (white ice) first stage [I]
ICEIO	light green	FY thin ice (white ice) second stage [I]
ICEIP	green	FY medium ice [I]
ICEIQ	brown	Old ice [I]
ICEIR	orange	Second-year ice [I]
ICEIS	red	Multi-year ice [I]
ICEER	grey	Unknown color

Note: [R] – for Russian Symbology; [I] – for International Symbology

## Appendix B - Detailed list of the Colour Scheme

Token	RGB	Colour
ICERA	000-200-255	light blue
ICERB	000-100-255	blue
ICERC	000-250-000	light green
ICERD	000-150-000	green
ICERE	255-125-000	orange
ICERF	145-080-000	brown
ICERG	145-000-000	dark red
ICERH	255-000-255	fuchsia
ICERI	255-130-133	pink
ICERJ	150-000-255	violet
ICERK	000-200-160	green
ICERL	000-200-200	turquoise
ICERM	000-120-000	green
ICERN	170-170-170	grey
ICERO	255-255-150	yellow
ICEIA	150-200-255	light blue
ICEIB	140-255-160	light green
ICEIC	255-255-000	yellow
ICEID	255-125-007	orange
ICEIE	255-000-000	red
ICEIF	150-150-150	grey
ICEIG	240-210-250	light plum
ICEIH	255-175-255	plum
ICEII	255-100-255	dark plum
ICEIJ	170-040-240	violet
ICEIK	135-060-215	violet
ICEIL	220-080-235	dark plum
ICEIM	155-210-000	green
ICEIN	215-250-130	light green
ICEIO	175-250-000	light green
ICEIP	000-200-020	green
ICEIQ	180-100-050	brown
ICEIR	255-120-010	orange
ICEIS	200-000-000	red
ICEER	200-200-200	grey



## Appendix C - Hatching Scheme for Ice Objects

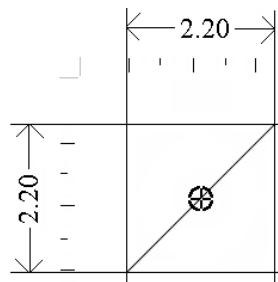
Symbol Name:	AP(I_FAST01)	RN:
--------------	--------------	-----

Symbol Explanation: continuous pattern for an ice area (fast ice)

Look up table affected: area symbols with plain boundaries  
area symbols with symbolized boundaries

Pivot Point Column: 01.10  
Pivot Point Row: 01.10

Width of Bounding Box: 02.20  
Height of Bounding Box: 02.20



Symbol Colours:  CHBLK

Pattern Type: Linear  
Pattern Spacing: Constant

Minimum Distance: 02.20  
Maximum Distance: 02.20

Comments: Line weight 0.07 mm

Examples on ENC:



References:

S57	
I_FAST	

Symbol Name:	AP(I_FLOE01)	RN:
--------------	--------------	-----

Symbol Explanation: continuous pattern for an ice area (giant ice floe or an ice island)

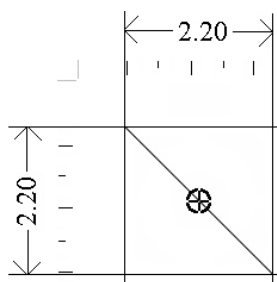
Look up table affected: area symbols with plain boundaries  
area symbols with symbolized boundaries

Pivot Point Column: 01.10

Pivot Point Row: 01.10

Width of Bounding Box: 02.20

Height of Bounding Box: 02.20



Symbol Colours:  CHBLK

Pattern Type: Linear

Pattern Spacing: Constant

Minimum Distance: 02.20

Maximum Distance: 02.20

Comments: Line weight 0.07 mm

Examples on ENC:



References:

S57	
I_FLOE	

Symbol Name:	AP(BRGARE01)	RN:
--------------	--------------	-----

Symbol Explanation: continuous pattern for an ice area (giant iceberg or a clump of icebergs)

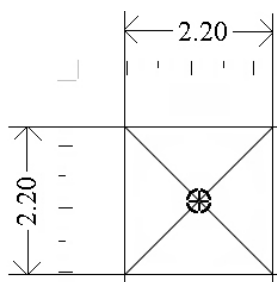
Look up table affected: area symbols with plain boundaries  
area symbols with symbolized boundaries

Pivot Point Column: 01.10

Pivot Point Row: 01.10

Width of Bounding Box: 02.20

Height of Bounding Box: 02.20



Symbol Colours:  CHBLK

Pattern Type: Linear

Pattern Spacing: Constant

Minimum Distance: 02.20

Maximum Distance: 02.20

Comments: Line weight 0.07 mm

Examples on ENC:









References:

S57	
BRGARE	

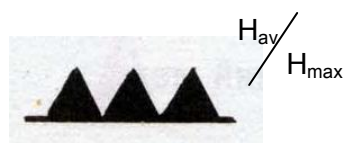
## Appendix D - Cartographic presentation of linear ice objects

### 1) Class **I\_RIDG** – hummocks

#### 1.1. Obligatory attribute – **ICERDV** – type of hummocks:

code	description	presentation
01	New ridge ( )	
02	Weathered ridge	
03	Very weathered ridge	
06	Ridge	
07	Ridged ice zone	
08	Ridge barrier	

#### 1.2. Ice ridge height – **ICERMH** (**IA\_RMH**) / **ICERXH** (**IA\_RXH**) – average and maximum ice ridge height in cm – are written to the right or above the linear symbol (not obligatory parameters):



2) Class **I\_CRAC** – crack



Symbol in blue color

Specifications of crack are not obligatory parameters:

S – stage of ice development in the crack **ICESOD**

N – quantity of cracks **IA\_OBN**

H – width of crack (**IA\_DVW** or **IA\_DMW** and **IA\_DXW**)

symbol	description	presentation	
S	Stage of ice development in the crack	Open water	
		Dark nilas	✕
		Light nilas	⊗
		Young ice	⊖
		Grey ice	⊖
		Grey-white ice	⊖

N – quantity of cracks – integer number in black colour

H – width of crack – 2 variants are possible:

- Average width of crack in integer meters **IA\_DVW**
- Range of widths – in integer meters **IA\_DMW – IA\_DXW**

### 3) Class **I\_FRAL** – fracture



Contour of the symbol has blue colour.

Filling colour of symbol corresponds to the stage of ice development or open water in the fracture (by default).

Specifications of the fracture are not obligatory and may include:

S – stage of ice development in the fracture **ICESOD**

N – quantity of fractures **IA\_OBN**

H – width of fracture (**IA\_DVW** or **IA\_DMW** and **IA\_DXW**)

symbol	description	presentation		
S	Stage of ice development	Open water		
		Dark nilas		
		Light nilas		
		Young ice		
		Grey ice		
		Grey-white ice		

N – quantity of fractures – integer number in black colour

H – width of fractures – 2 variants are possible:

- Average (prevailing) width of fractures in integer meters **IA\_DVW**
- Range of widths – in integer meters **IA\_DMW – IA\_DXW**

#### 4) Class **I\_LEAD** – lead



Contour of the symbol has blue colour.

Filling colour of symbol corresponds to the stage of ice development or open water in the fracture (by default).

Specifications of the lead are not obligatory and may include:

S – stage of ice development in the lead **ICESOD**

N – quantity of leads **IA\_OBN**

H – width of lead (**IA\_DVW** or **IA\_DMW** and **IA\_DXW**)













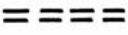


СИМВОЛ	ОПИСАНИЕ	представление		
S	Stage of ice development	Open water		
		Dark nilas		
		Light nilas		
		Young ice		
		Grey ice		
		Grey-white ice		

N – quantity of leads – integer number in black colour

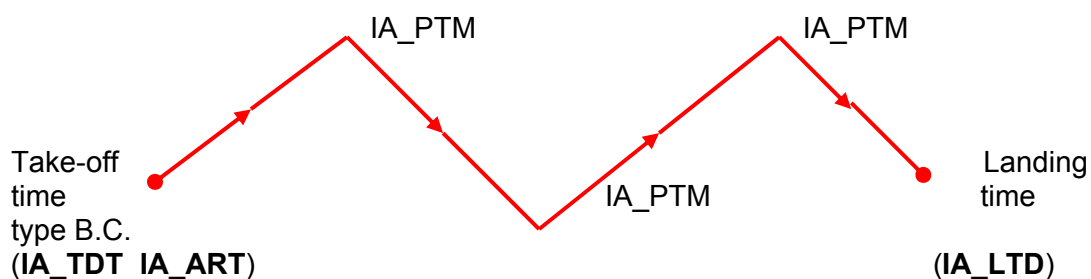
H – width of leads – 2 variants are possible:

- Average (prevailing) width of leads in integer meters **IA\_DVW**
- Range of widths – in integer meters **IA\_DMW – IA\_DXW**

5) Class **I\_ADLN** – auxiliary linear ice objects

code	description	presentation
01	Compacted ice edge	 
02	Diffuse ice edge	 
03	Estimated ice edge	 
04	Clouds boundary	 
05	Ice drift boundary	
06	Ice jam	 
07	Jammed brash barrier	
08	Lead in ice made by vessel	
09	Road on ice	
10	Route recommended for a vessel for its navigation in ice	

6) Class **I\_FLRT** – route of ice air reconnaissance



Main color of route is red. If more than one route is present on ice chart, the second color should be blue and third should be green.



## Appendix E - Cartographic presentation of point sea ice objects

### 1) Class **ICEFRA** – fracture



Contour of the symbol has blue color.

Filling color of symbol corresponds to the stage of ice development or open water in the fracture (by default).

Specifications of the fracture are not obligatory and may include:

S – stage of ice development in the fracture **ICESOD**

N – quantity of fractures **IA\_OBN**

H – width of fracture (**IA\_DVW** or **IA\_DMW** and **IA\_DXW**)

symbol	description	presentation		
S	Stage of ice development	Open water		
		Dark nilas		
		Light nilas		
		Young ice		
		Grey ice		
		Grey-white ice		

N – quantity of fractures – integer number in black color

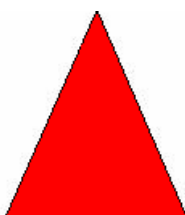
H – width of fracture – 2 variants are possible:

- Average (prevailing) width of fracture in integer meters **IA\_DVW**
- Range of widths – in integer meters **IA\_DMW – IA\_DXW**

### 2) Cartographic presentation of 3-points ice features :

class	description	presentation
I_STFL	Standing floe	
I_GRHM	Grounded hummock (Stamukha)	

3) Class **ICEBRG** – iceberg



**Auxiliary iceberg specifications:**

- **ICEBNM** – quantity of icebergs
- **ICEBSZ** – (predominant) type (size) of iceberg
- **IA\_BFM** – (predominant) form of iceberg
- **IA\_BUH** – maximum height of iceberg above the water

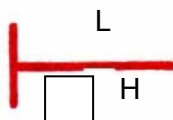
*are mapped similar to description of polygon object*

4) Cartographic presentation of 3-points features:

cass	description	presentation
<b>I_CMPV</b>	Vessel beset by ice	
<b>I_LCDR</b>	Vessel position moving in ice	
<b>I_LOCV</b>	Recommended position for vessel stay	

Auxiliary parameters are mapped in the most convenient place near the symbol

5) Class **I\_LOCA** – place on ice floe suitable for runway



L – (maximum) runway length in meters – **IA\_TXL**

Predominant stage of ice development at the runway is written under the main symbol in a small black-colored rectangle (similar to fast ice or single floe) – **ICESOD** – in a form of corresponding symbol (see i. 2.2. on cartographic presentation of polygon objects) or/and ice thickness (H) – **IA\_AVT**.

## Appendix F – PressLib library

[illegible]



[illegible]





"SEAICE","ICEACT?IA\_SFC93/08,?/?/?/?","SY(ICEISC11)","SY(ICEIFC08)"  
 "SEAICE","ICEACT?IA\_SFC94/08,?/?/?/?","SY(ICEISC11)","SY(ICEIFC08)"  
 "SEAICE","ICEACT?IA\_SFC95/08,?/?/?/?","SY(ICEISC12)","SY(ICEIFC08)"  
 "SEAICE","ICEACT?IA\_SFC96/08,?/?/?/?","SY(ICEISC13)","SY(ICEIFC08)"  
 "SEAICE","ICEACT?IA\_SFC97/08,?/?/?/?","SY(ICEISC14)","SY(ICEIFC08)"  
 "SEAICE","ICEACT99","TX('CLOUDY',1,2,2,'15110',0,0,CHBLK,0)"  
 "I\_FAST","ICESOD?","TX('FAST',1,2,2,'15112',0,-6,CHBLK,0);TX('ICE',1,2,2,'15112',0,6,CHBLK,0)"  
 "I\_FAST","ICEAPC?,?ICESOD?","SY(ICEBEL04)"  
 "I\_FAST","ICEAPC02,?ICESOD?","SY(ICENMC11)"  
 "I\_FAST","ICEAPC10,?ICESOD?","SY(ICENMC01)"  
 "I\_FAST","ICEAPC12,?ICESOD?","SY(ICENMC12)"  
 "I\_FAST","ICEAPC13,?ICESOD?","SY(ICENMC13)"  
 "I\_FAST","ICEAPC20,?ICESOD?","SY(ICENMC02)"  
 "I\_FAST","ICEAPC23,?ICESOD?","SY(ICENMC14)"  
 "I\_FAST","ICEAPC30,?ICESOD?","SY(ICENMC03)"  
 "I\_FAST","ICEAPC34,?ICESOD?","SY(ICENMC15)"  
 "I\_FAST","ICEAPC40,?ICESOD?","SY(ICENMC04)"  
 "I\_FAST","ICEAPC45,?ICESOD?","SY(ICENMC16)"  
 "I\_FAST","ICEAPC46,?ICESOD?","SY(ICENMC17)"  
 "I\_FAST","ICEAPC50,?ICESOD?","SY(ICENMC05)"  
 "I\_FAST","ICEAPC56,?ICESOD?","SY(ICENMC18)"  
 "I\_FAST","ICEAPC60,?ICESOD?","SY(ICENMC06)"  
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 "I\_FAST","ICEAPC?,10ICESOD?","SY(ICENMD01)"  
 "I\_FAST","ICEAPC?,12ICESOD?","SY(ICENMD12)"  
 "I\_FAST","ICEAPC?,13ICESOD?","SY(ICENMD13)"  
 "I\_FAST","ICEAPC?,20ICESOD?","SY(ICENMD02)"  
 "I\_FAST","ICEAPC?,23ICESOD?","SY(ICENMD14)"  
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 "I\_FAST","ICEAPC?,91ICESOD?","SY(ICENMD22)"  
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 "I\_FAST","ICEAPC02,?,?ICESOD?","SY(ICENME11)"  
 "I\_FAST","ICEAPC10,?,?ICESOD?","SY(ICENME01)"  
 "I\_FAST","ICEAPC12,?,?ICESOD?","SY(ICENME12)"  
 "I\_FAST","ICEAPC13,?,?ICESOD?","SY(ICENME13)"  
 "I\_FAST","ICEAPC20,?,?ICESOD?","SY(ICENME02)"  
 "I\_FAST","ICEAPC23,?,?ICESOD?","SY(ICENME14)"  
 "I\_FAST","ICEAPC30,?,?ICESOD?","SY(ICENME03)"  
 "I\_FAST","ICEAPC34,?,?ICESOD?","SY(ICENME15)"  
 "I\_FAST","ICEAPC40,?,?ICESOD?","SY(ICENME04)"  
 "I\_FAST","ICEAPC45,?,?ICESOD?","SY(ICENME16)"  
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 "I\_FAST","ICEAPC50,?,?ICESOD?","SY(ICENME05)"  
 "I\_FAST","ICEAPC56,?,?ICESOD?","SY(ICENME18)"  
 "I\_FAST","ICEAPC60,?,?ICESOD?","SY(ICENME06)"  
 "I\_FAST","ICEAPC67,?,?ICESOD?","SY(ICENME19)"  
 "I\_FAST","ICEAPC70,?,?ICESOD?","SY(ICENME07)"  
 "I\_FAST","ICEAPC78,?,?ICESOD?","SY(ICENME20)"  
 "I\_FAST","ICEAPC80,?,?ICESOD?","SY(ICENME08)"  
 "I\_FAST","ICEAPC89,?,?ICESOD?","SY(ICENME21)"  
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 "I\_FAST","ICEAPC?,30ICESOD?","SY(ICENMF03)"  
 "I\_FAST","ICEAPC?,34ICESOD?","SY(ICENMF15)"



"I\_FAST","ICEAPC?,40,?ICESOD?,?,?", "SY(ICENMF04)"  
 "I\_FAST","ICEAPC?,45,?ICESOD?,?,?", "SY(ICENMF16)"  
 "I\_FAST","ICEAPC?,46,?ICESOD?,?,?", "SY(ICENMF17)"  
 "I\_FAST","ICEAPC?,50,?ICESOD?,?,?", "SY(ICENMF05)"  
 "I\_FAST","ICEAPC?,56,?ICESOD?,?,?", "SY(ICENMF18)"  
 "I\_FAST","ICEAPC?,60,?ICESOD?,?,?", "SY(ICENMF06)"  
 "I\_FAST","ICEAPC?,67,?ICESOD?,?,?", "SY(ICENMF19)"  
 "I\_FAST","ICEAPC?,70,?ICESOD?,?,?", "SY(ICENMF07)"  
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## Appendix G – PressLib library for Russian national coding

[illegible]



[illegible]







[illegible]

[illegible]



[illegible]



[illegible]





[illegible]







[illegible]



[illegible]





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