

131482

ETUDE DE L'AMELIORATION DU BIEF MARITIME

DU FLEUVE CONGO

NOTES TECHNIQUES

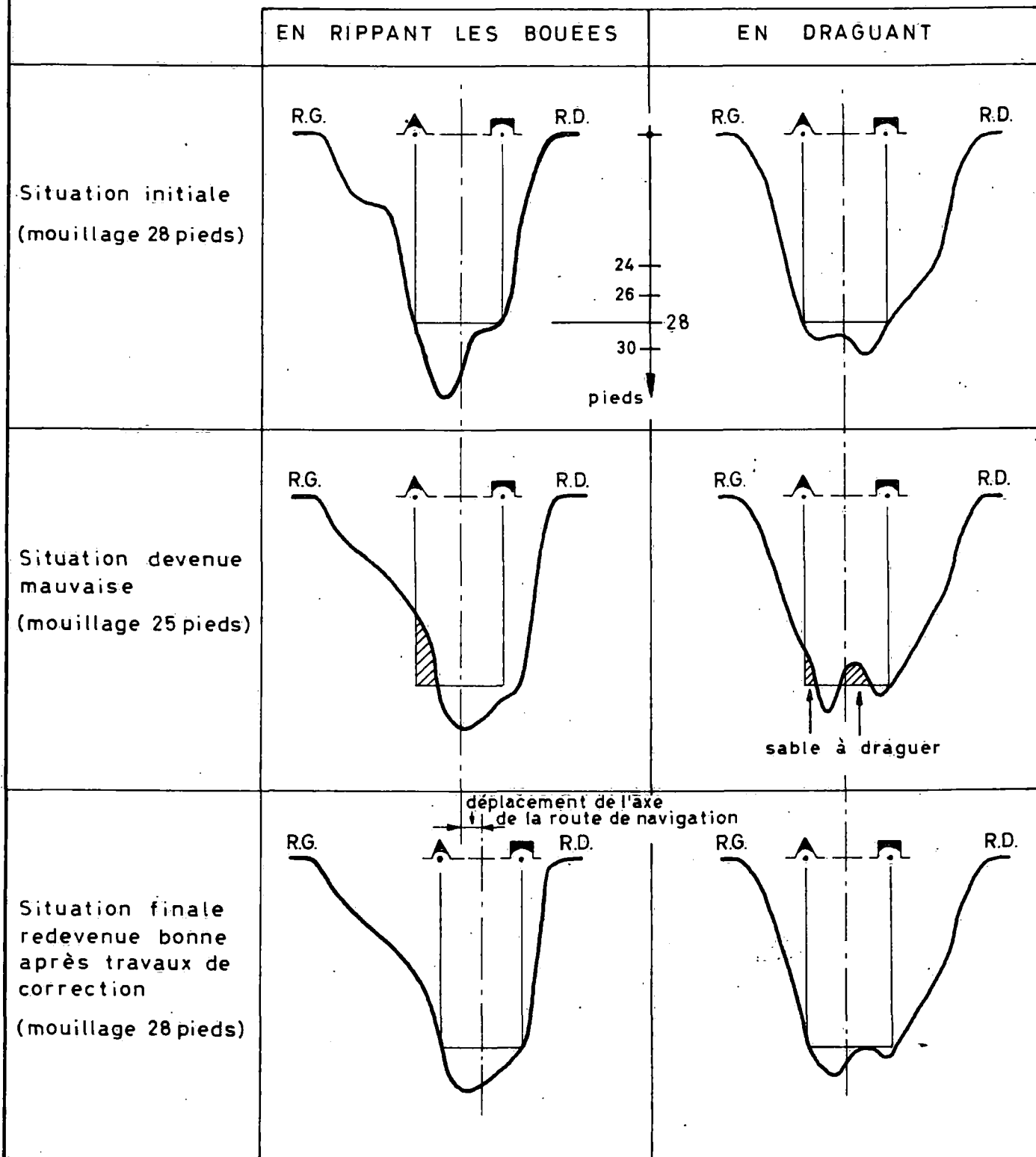
Jointes au rapport général 1968 - MATEBA I

MOD. 255

MATEBA III

Figures

Travaux destinés à rétablir une route de navigation
avec des profondeurs suffisantes.



LEGENDE :

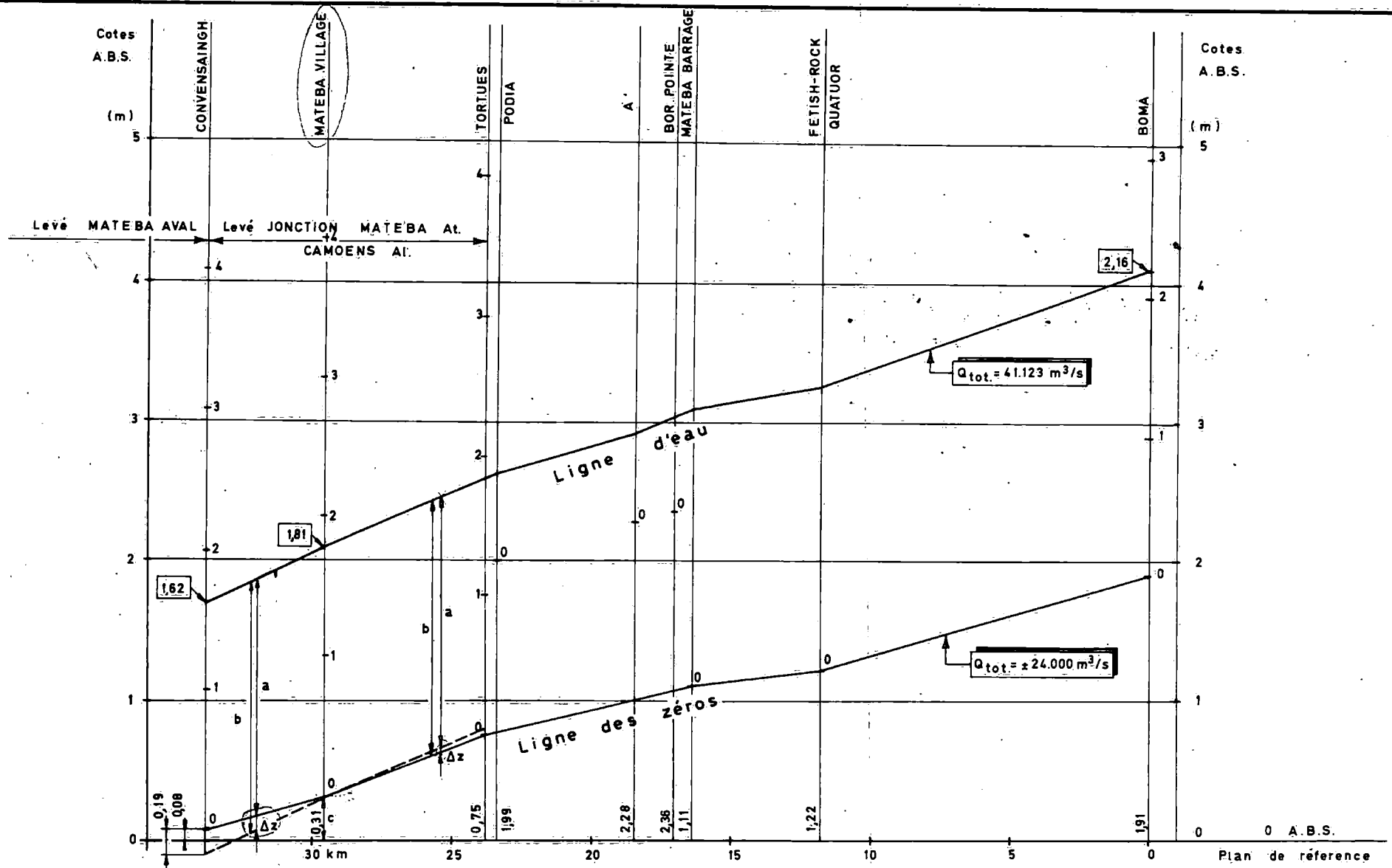


Bouée noire (Rive Droite)



Bouée rouge (Rive Gauche)

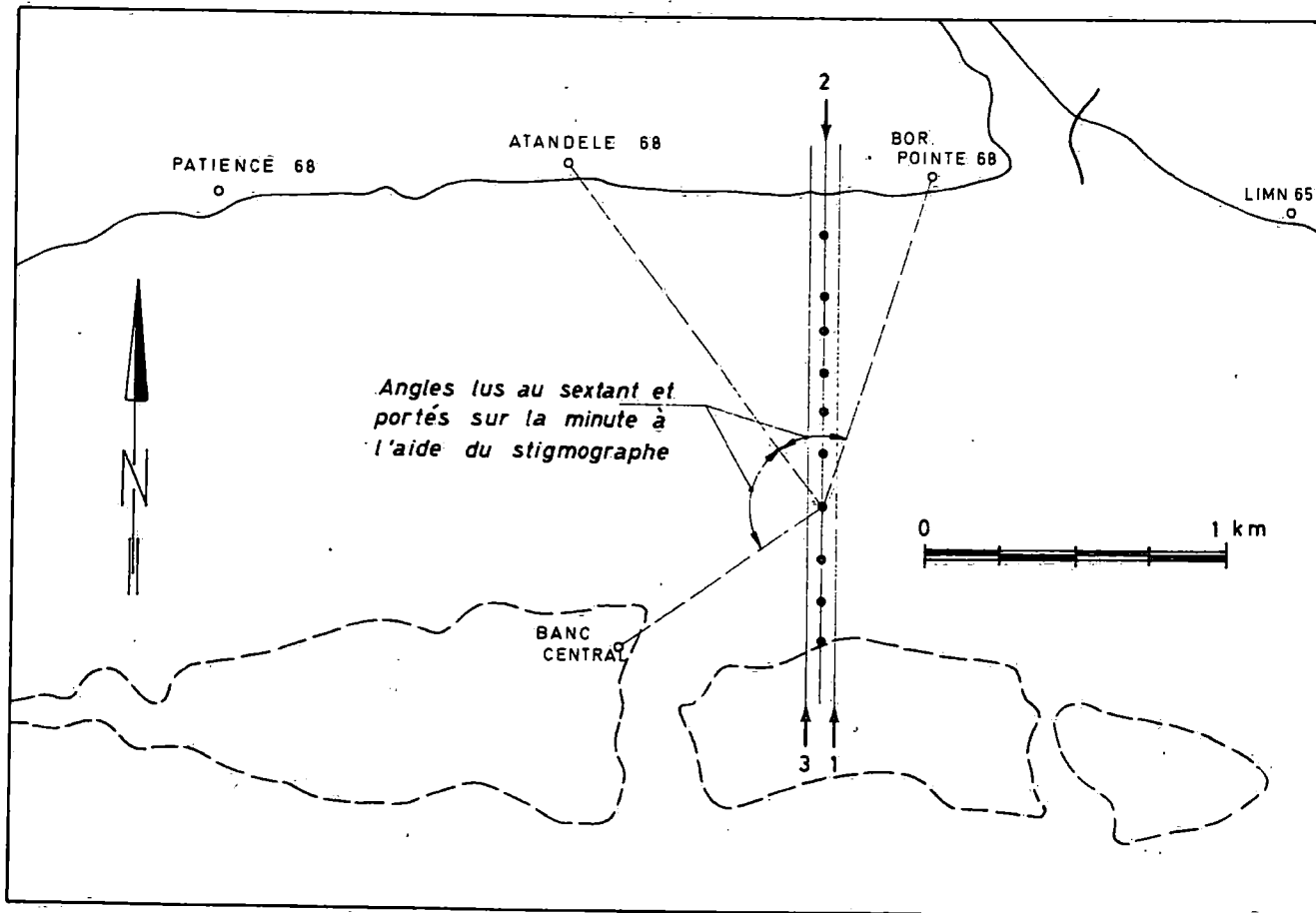
----- Axe de la route de navigation



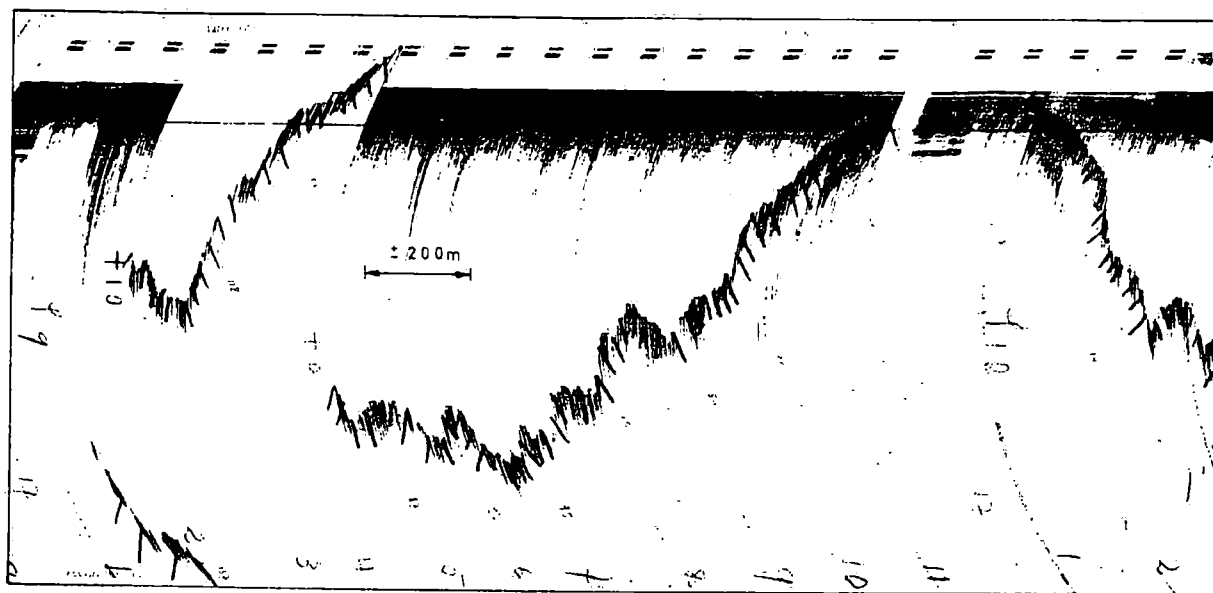
a : hauteur d'un point quelconque de la ligne d'eau au-dessus de la ligne des zéros.

b : hauteur limnimétrique à MATEBA VILLAGE pour une lecture d'échelle de 2.16 m à BOMA (Débit du fleuve = $41.123 \text{ m}^3/\text{s}$). Cette hauteur est la réduction des sondes pour les levés utilisant MATEBA VILLAGE comme échelle limnimétrique de référence.

c : hauteur du zéro de l'échelle limnimétrique au-dessus du plan de référence.



Levé de Mateba Amont



Echogramme du levé de Mateba Amont

Lectures d'échelles limnimétriques pour la réduction des sondes

Echelle d'étiage Tortues

Echelle d'étiage Quatuor à 2 m

<i>Date</i>	<i>Heures</i>	<i>Lecture</i>	<i>Heures</i>	<i>Lecture</i>
25-9-61	6h.00	1,61	6h.00	1,70
	30	1,65	30	1,71 1/2
	7h.00	1,67	7 - 00	1,72 1/2
	30	1,69 1/2	30	1,73 1/2
	8h.00	1,70	8 - 00	1,74
	30	1,69	30	1,74
	9h.00	1,68	9 - 00	1,74
	30	1,65	30	1,72 1/2
	10h.00	1,61 1/2	10 - 00	1,72
	30	1,58	30	1,71
	11h.00	1,54	11 - 00	1,69
	30	1,49	30	1,67 1/2
	12h.00	1,45 1/2	12 - 00	1,65 1/2
	30	1,43 1/2	30	1,64
	13h.00	1,40 1/2	13 - 00	1,63
	30	1,38 1/2	30	1,62
	14h.00	1,37	14 - 00	1,60
	30	1,36	30	1,61
	15h.00	1,36	15 - 00	1,61
	30	1,37 1/2		

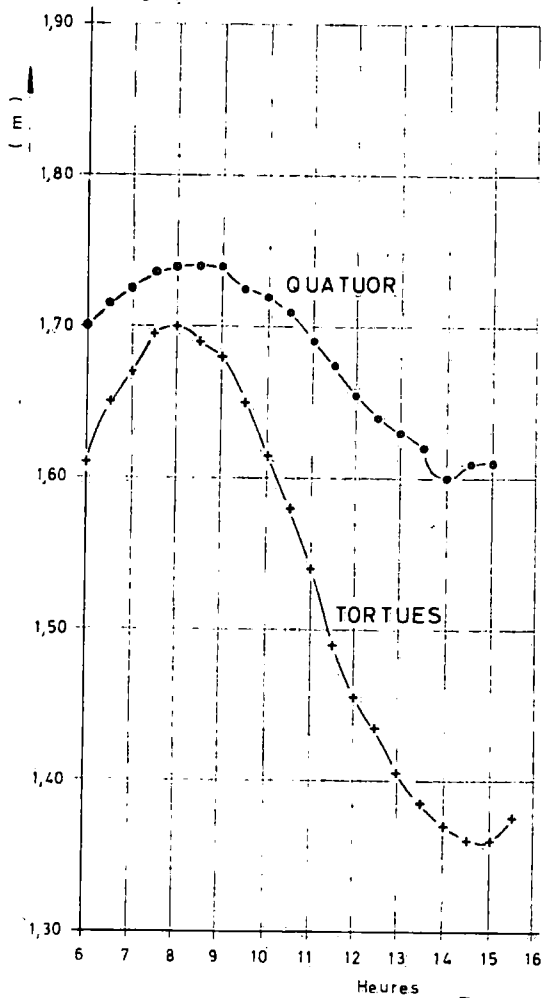
*L'échelle est prise par
Prida João
en bambous
à la Antorcia*

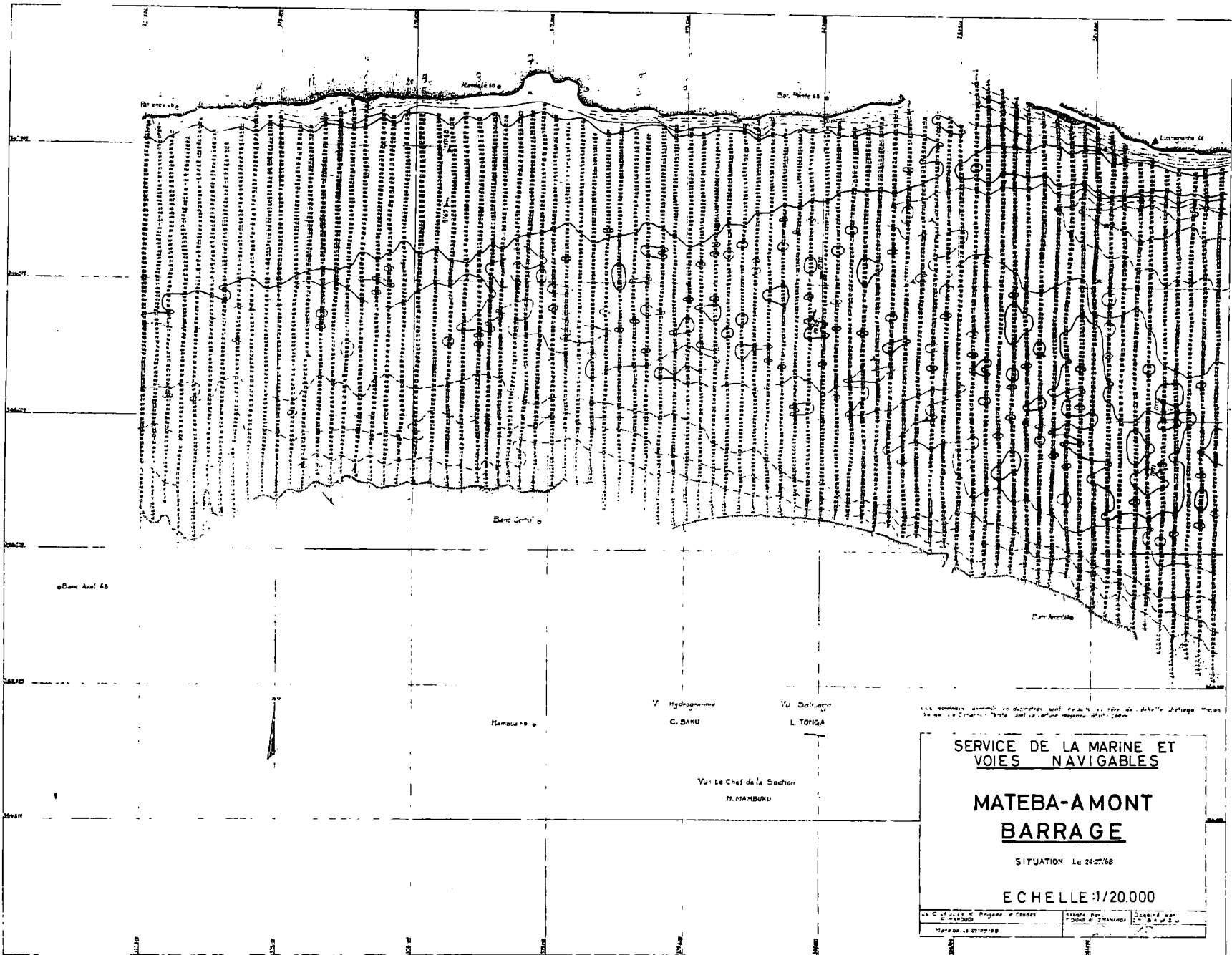
*Celle est prise par
TSHIANDI Fidèle
en bambous*

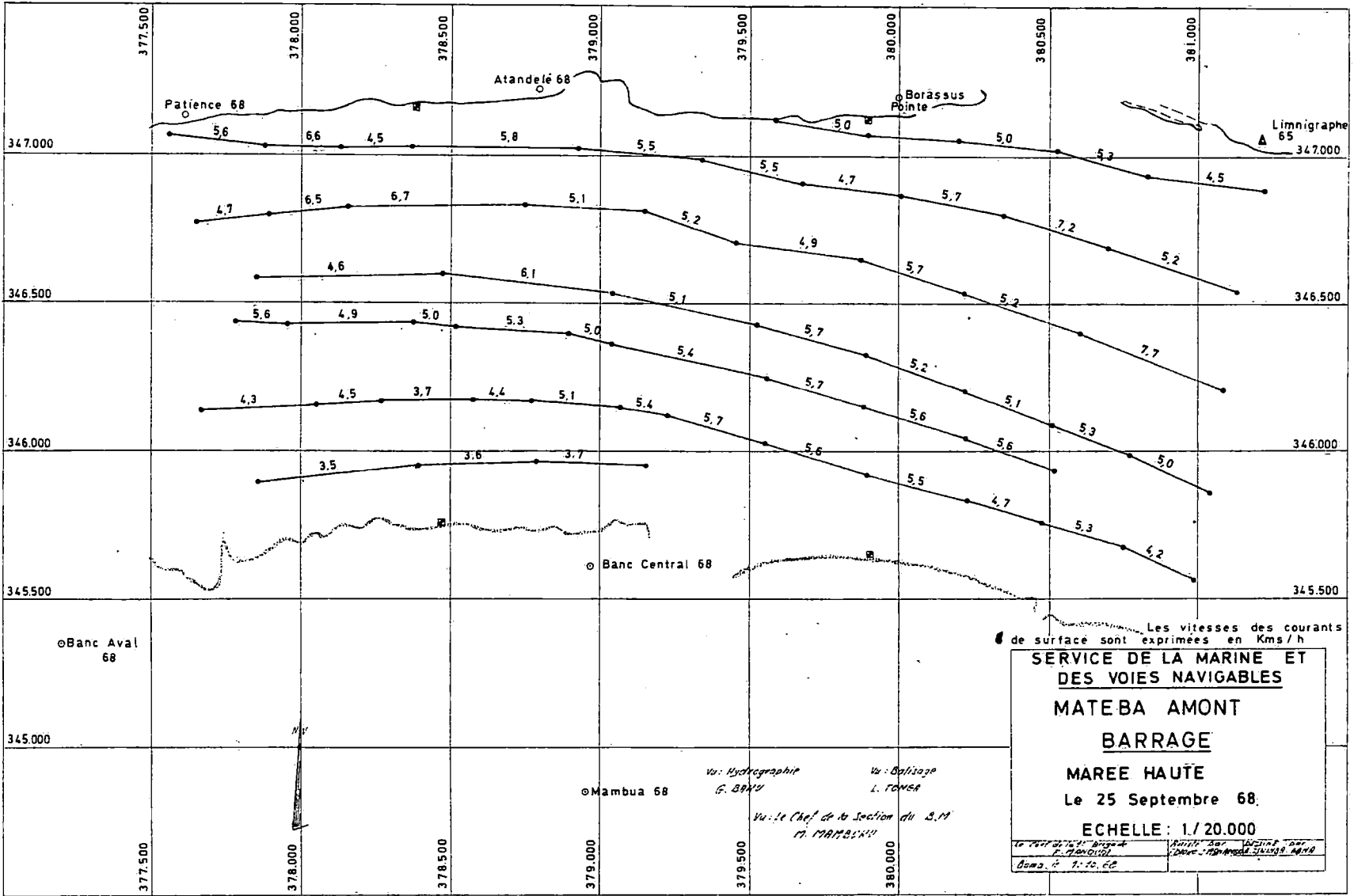
*Correction par Natiaba Sidore
Natiaba*

*Vérifié par NAKOLO Jozeth
[Signature]*

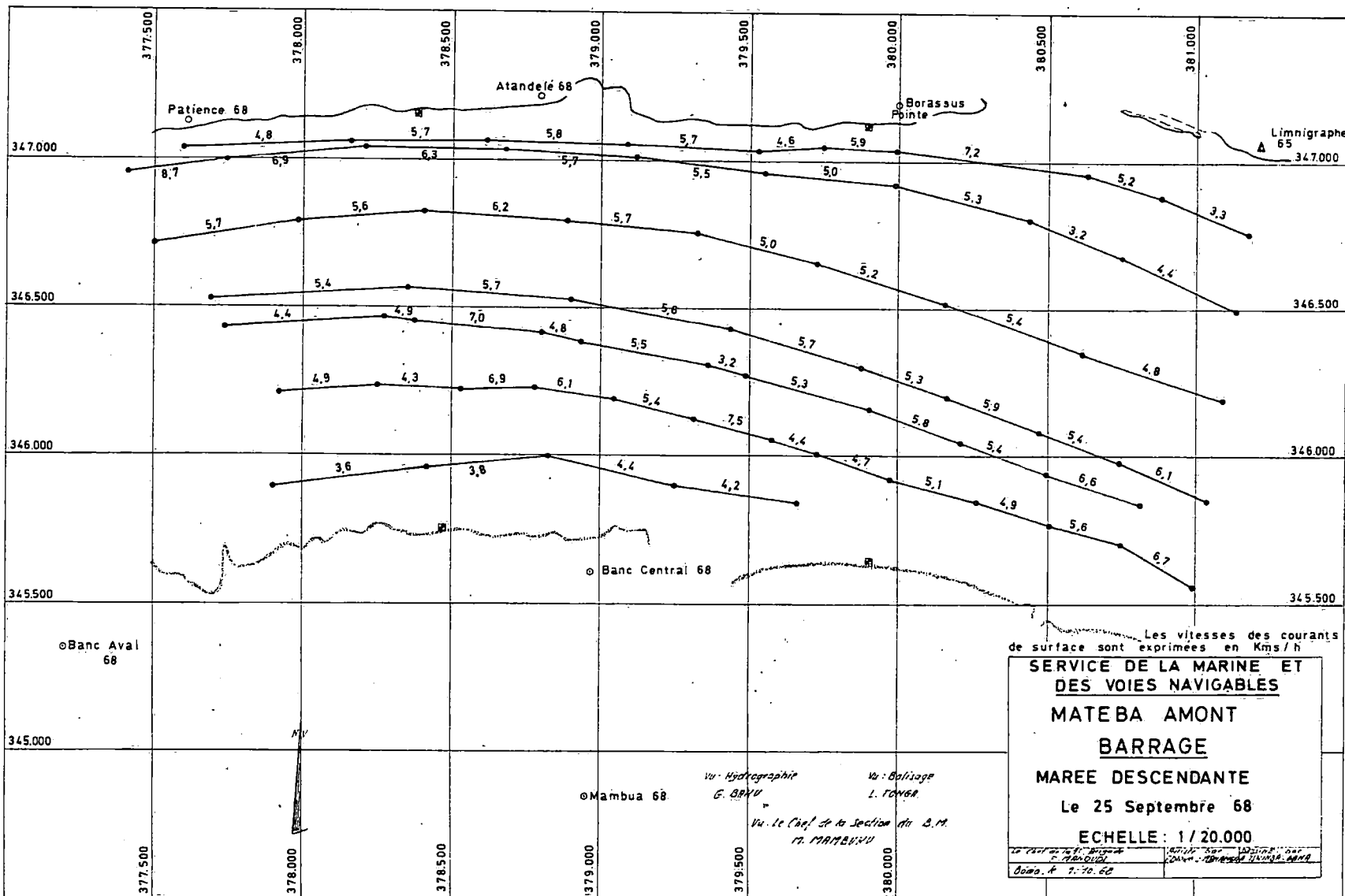
Cotes hydrographiques







Réf. plan S.V.N. Boma



Ref. plan S.V.N. Boma

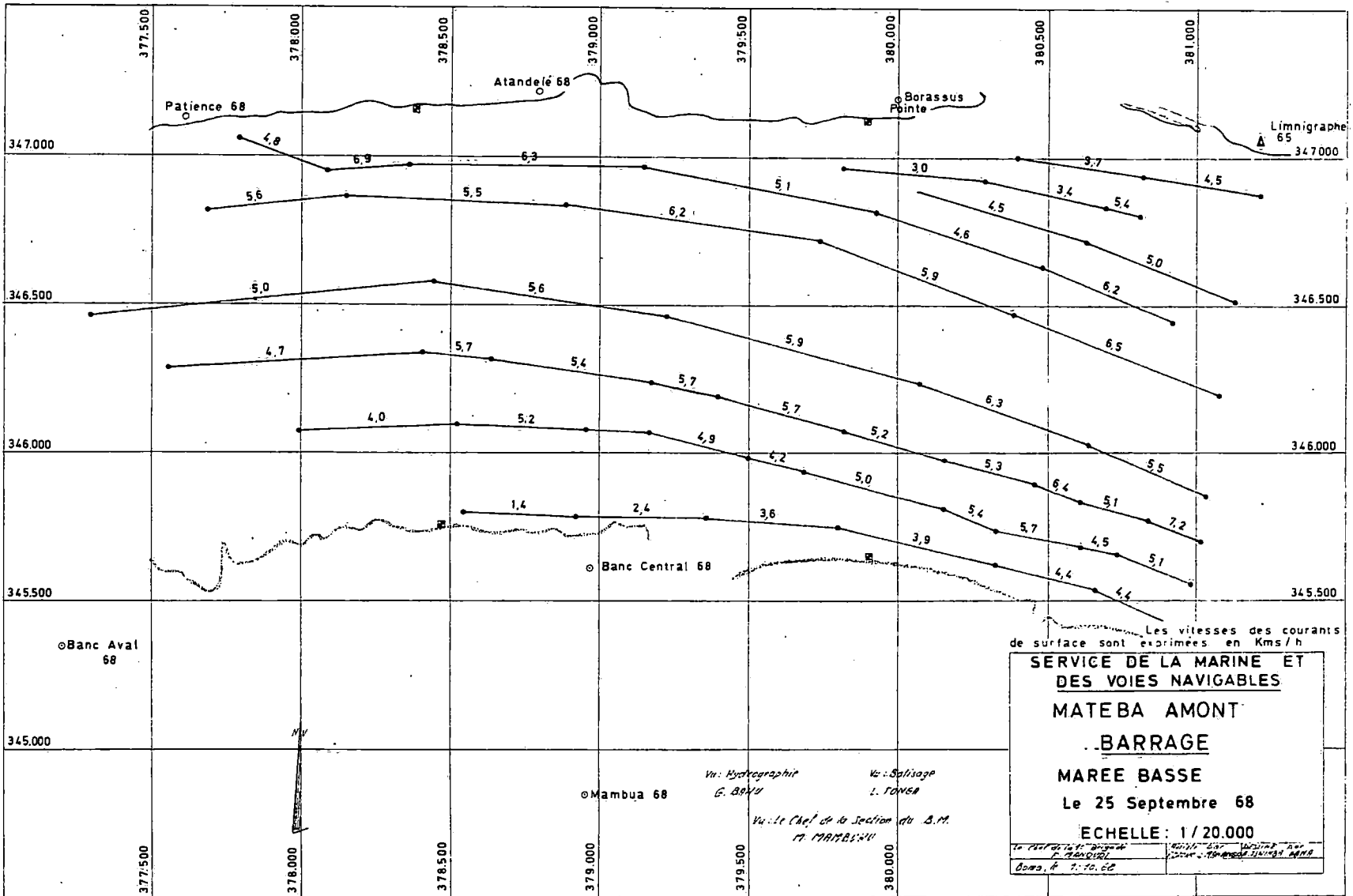
WL 69.454

MAREE BASSE

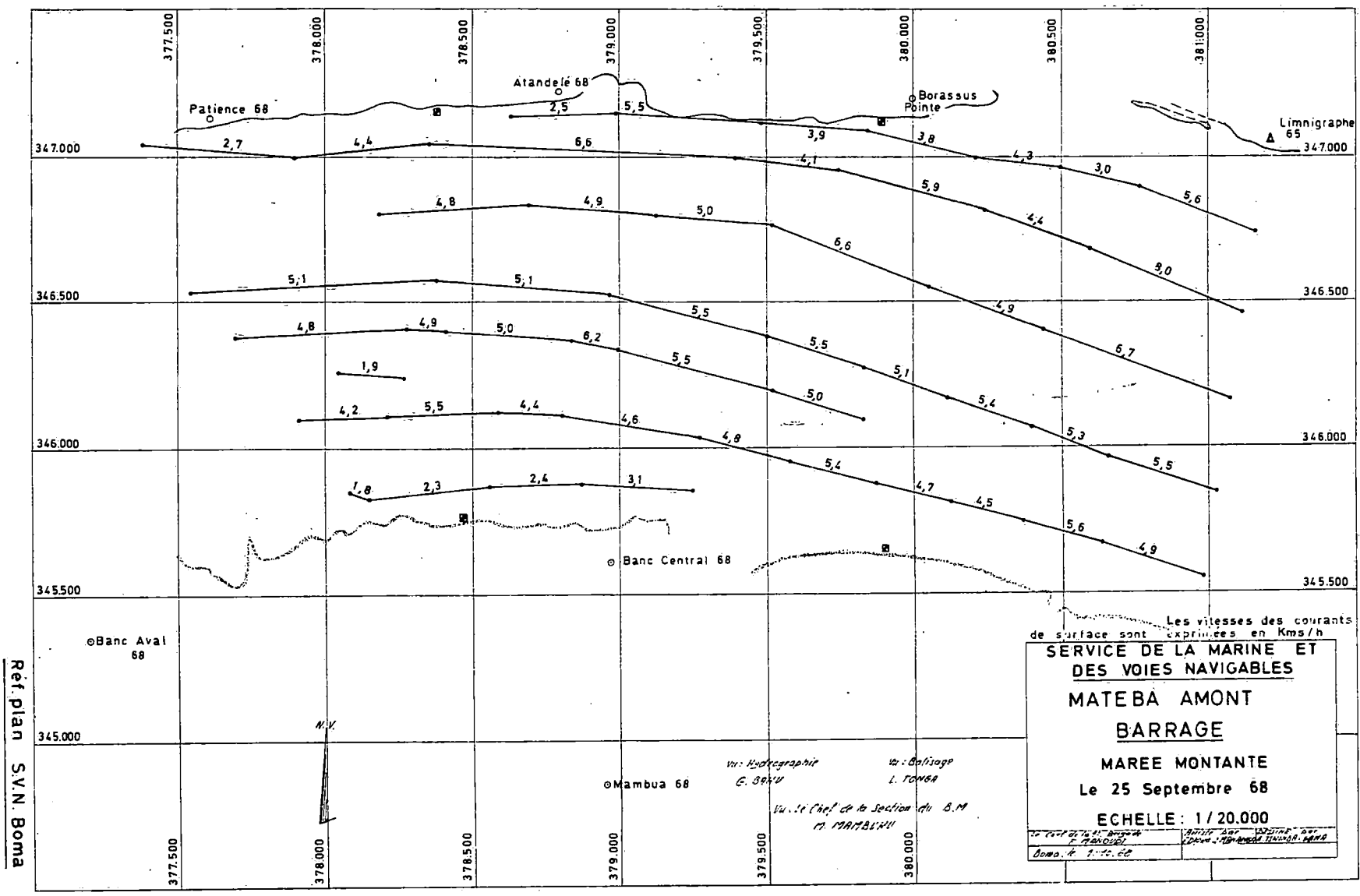
MESURE DES COURANTS DE SURFACE PAR FLOTTEURS - MATEBA AMONT

MOD. 255

Figure 8



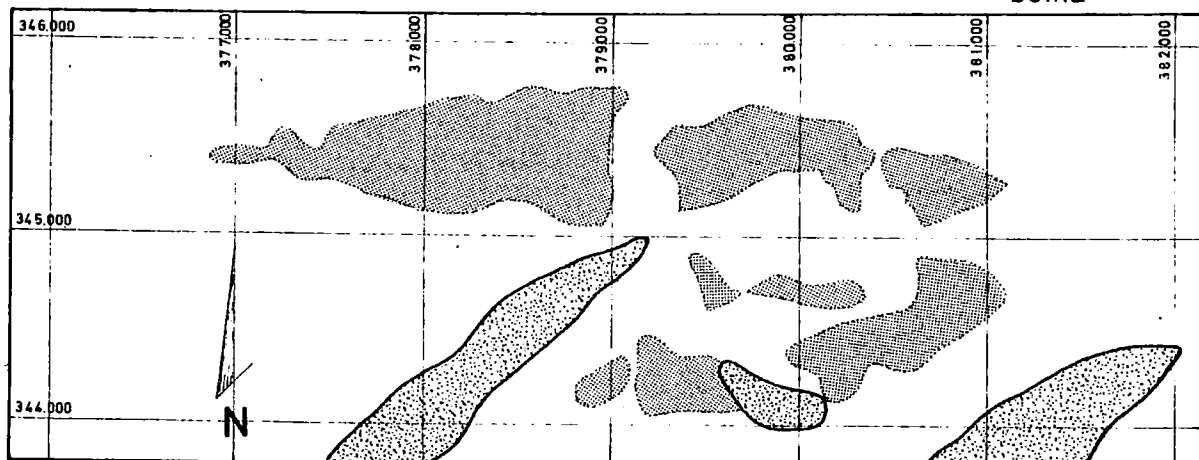
Ref. plan S.V.N. Boma



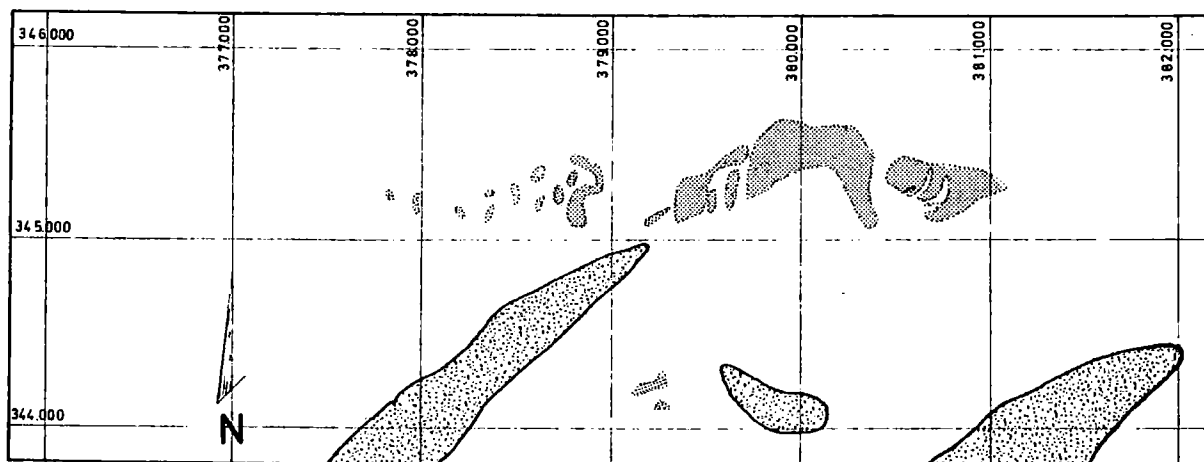
Le tracé de la laisse des eaux est repéré au sextant.



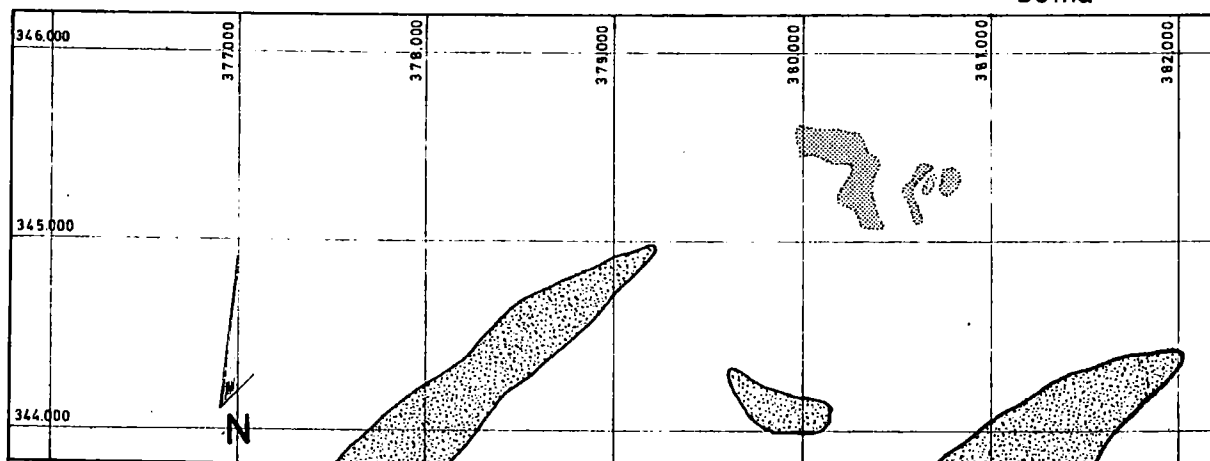
24-29/10/1968 — H_{Boma} = 2,15 m



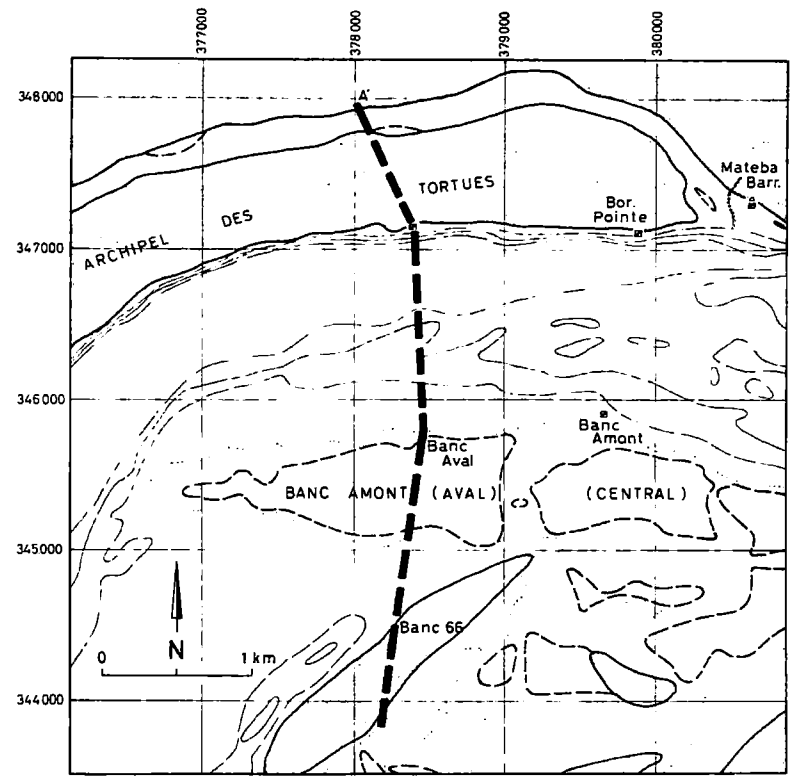
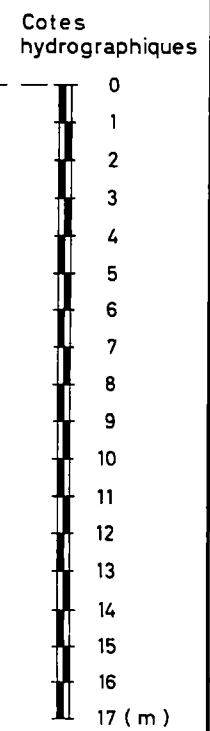
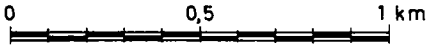
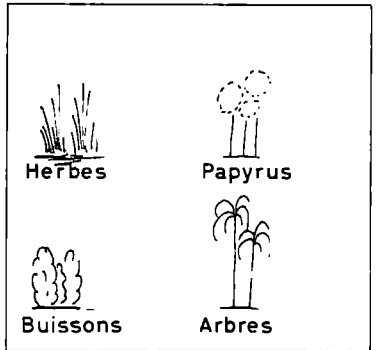
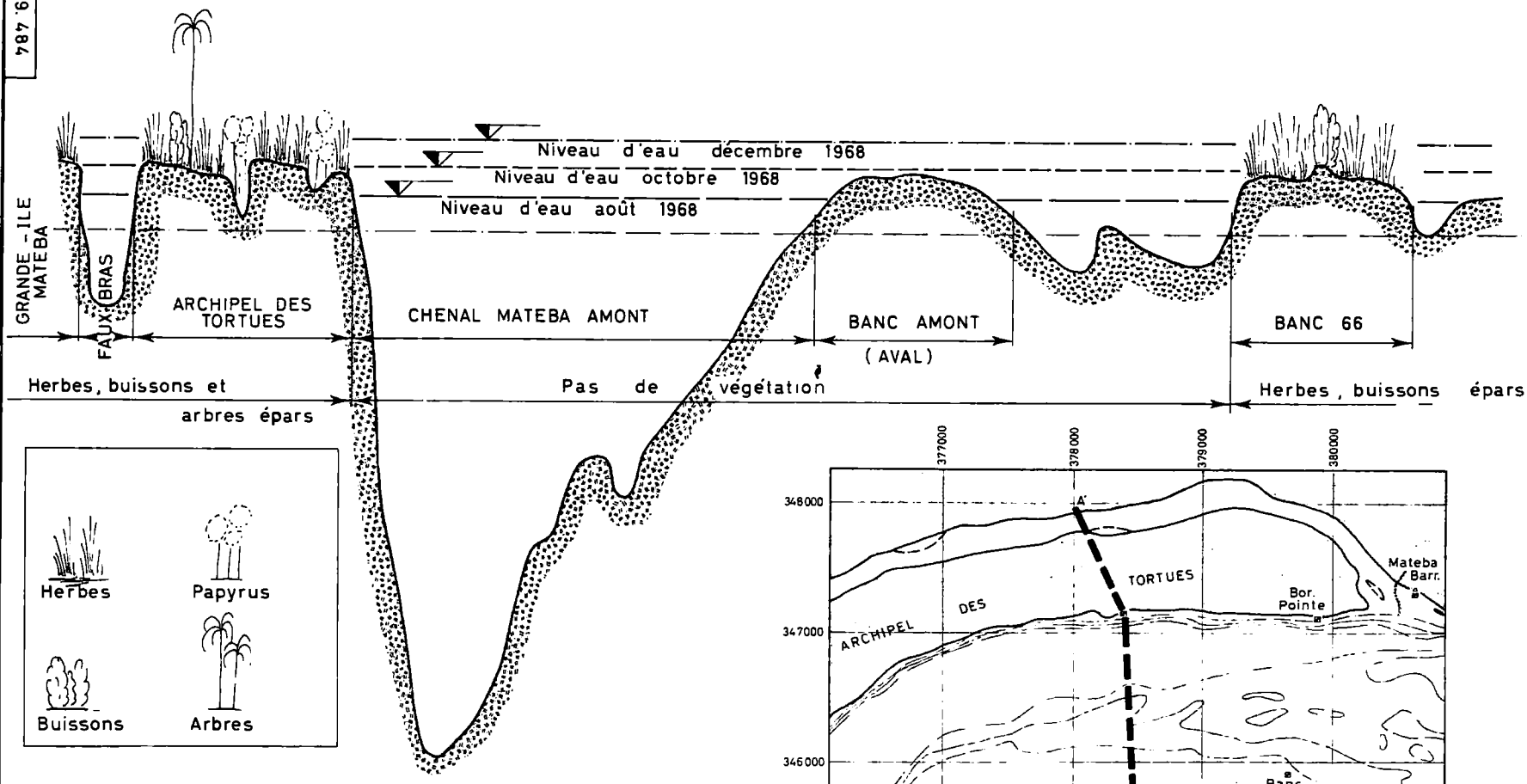
13-14/11/1968 — H_{Boma} = 2,50 m



3/12/1968 — H_{Boma} = 2,95 m



W.L. 69.484



Réf.: 245.94
Mateba Amont Partie Amont
Banc d'Anvers Partie Aval

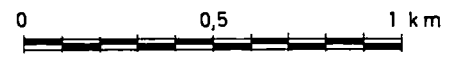
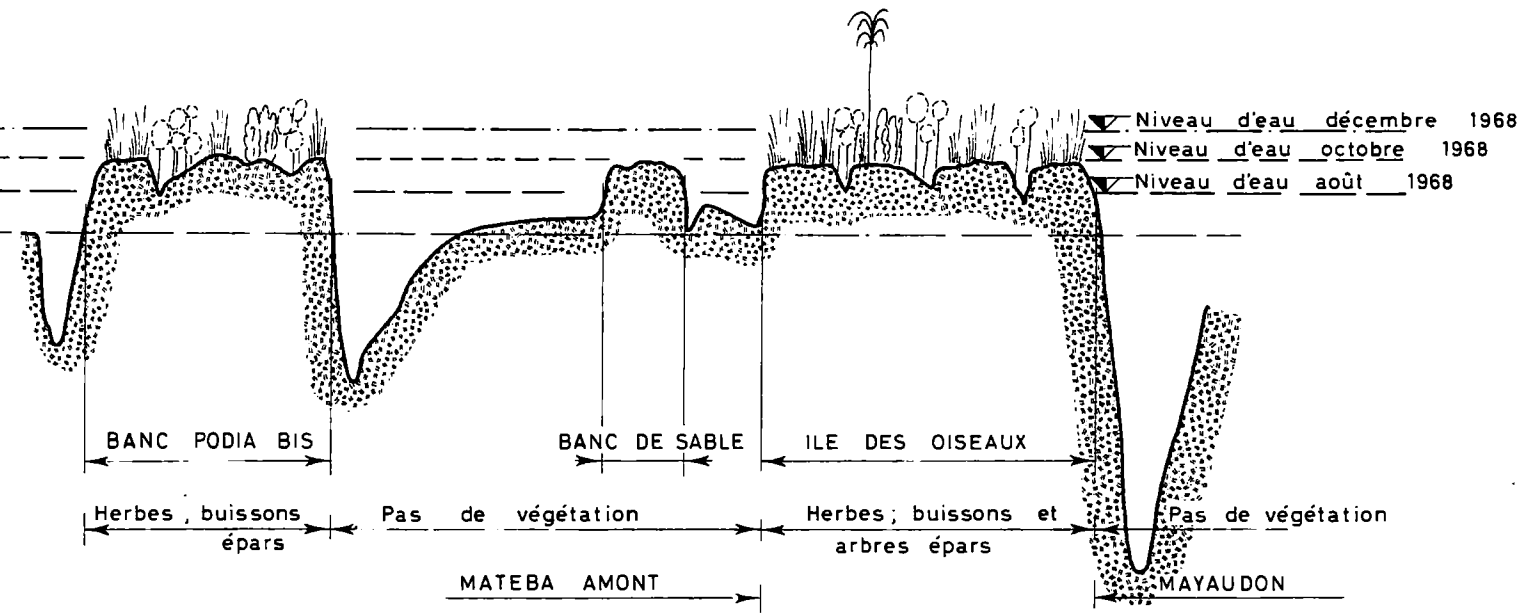
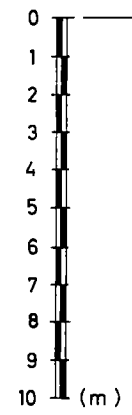
BIEF MARITIME
DU FLEUVE CONGO
REGION DIVAGANTE

COUPE MATEBA AMONT
(Chenal)

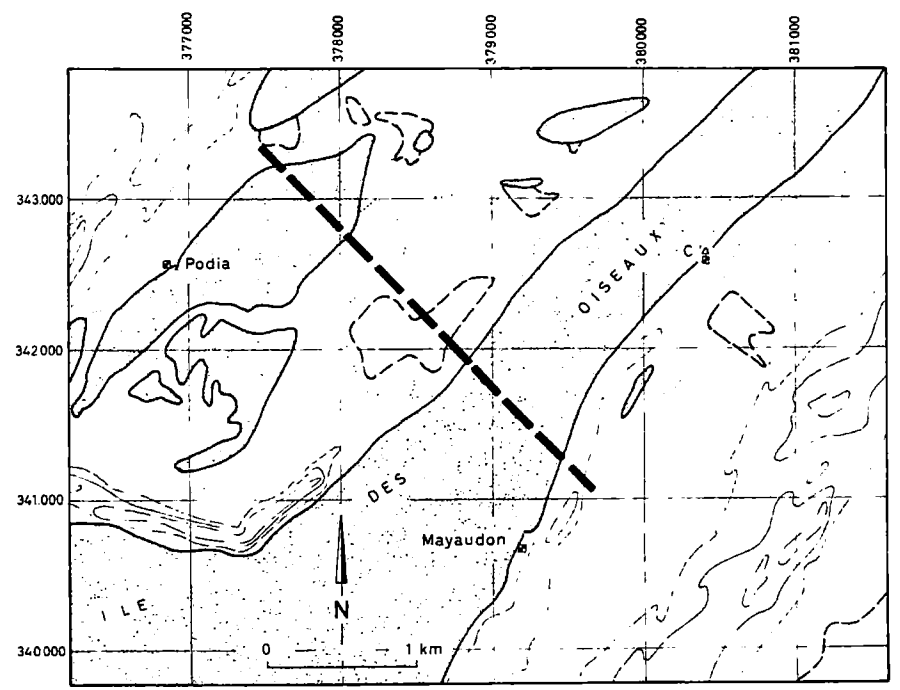
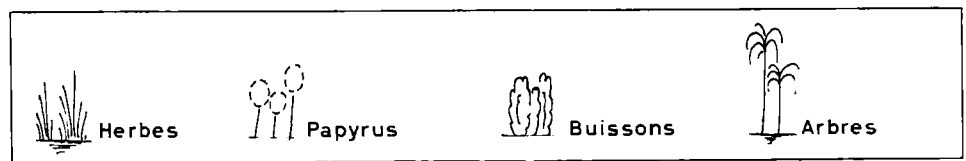
MOD. 255
Figure 11

WL 69.485

Cotes hydrographiques



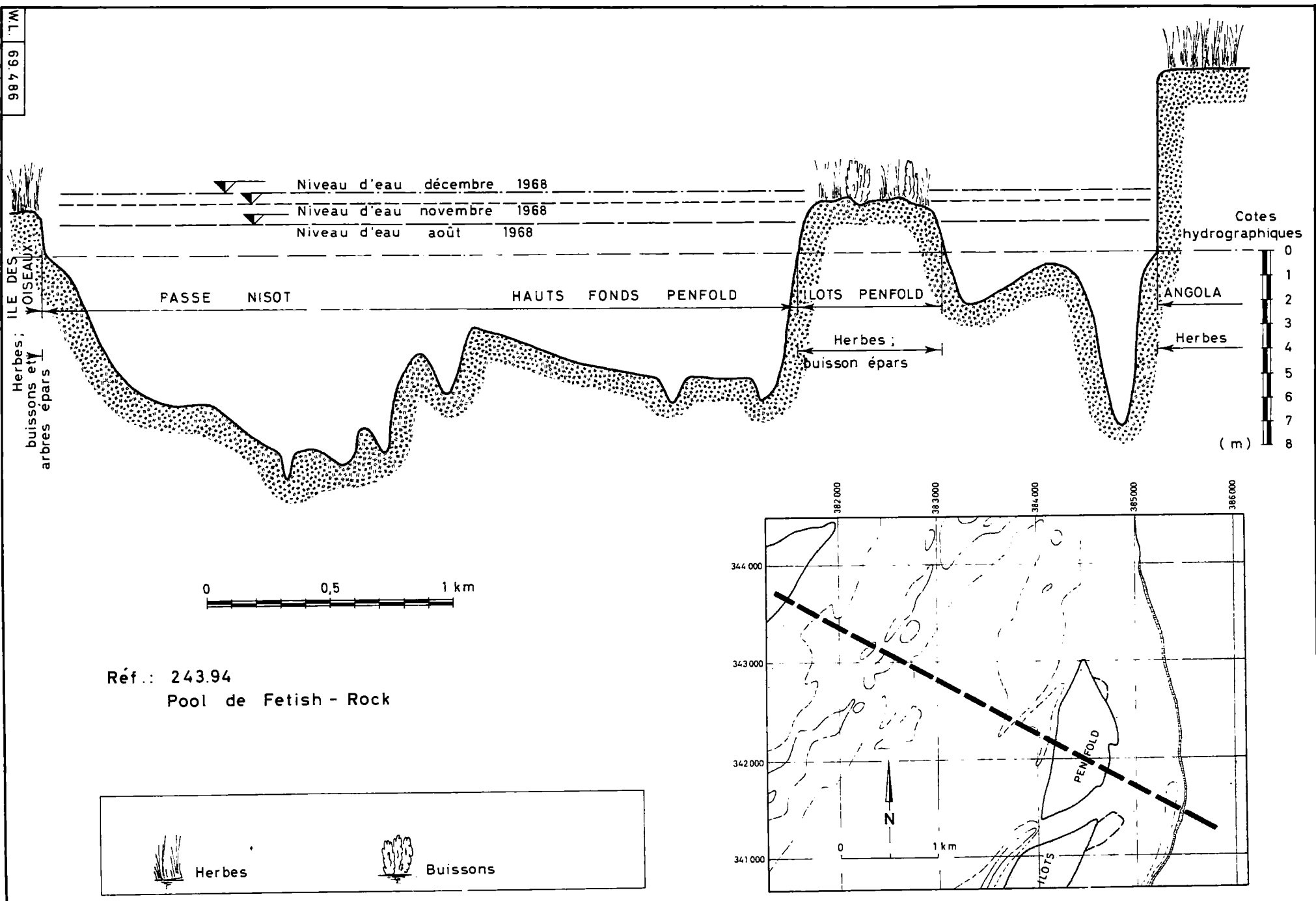
Réf.: 245.94
Mateba Amont (Partie Amont)
Banc d'Anvers (Partie Aval)

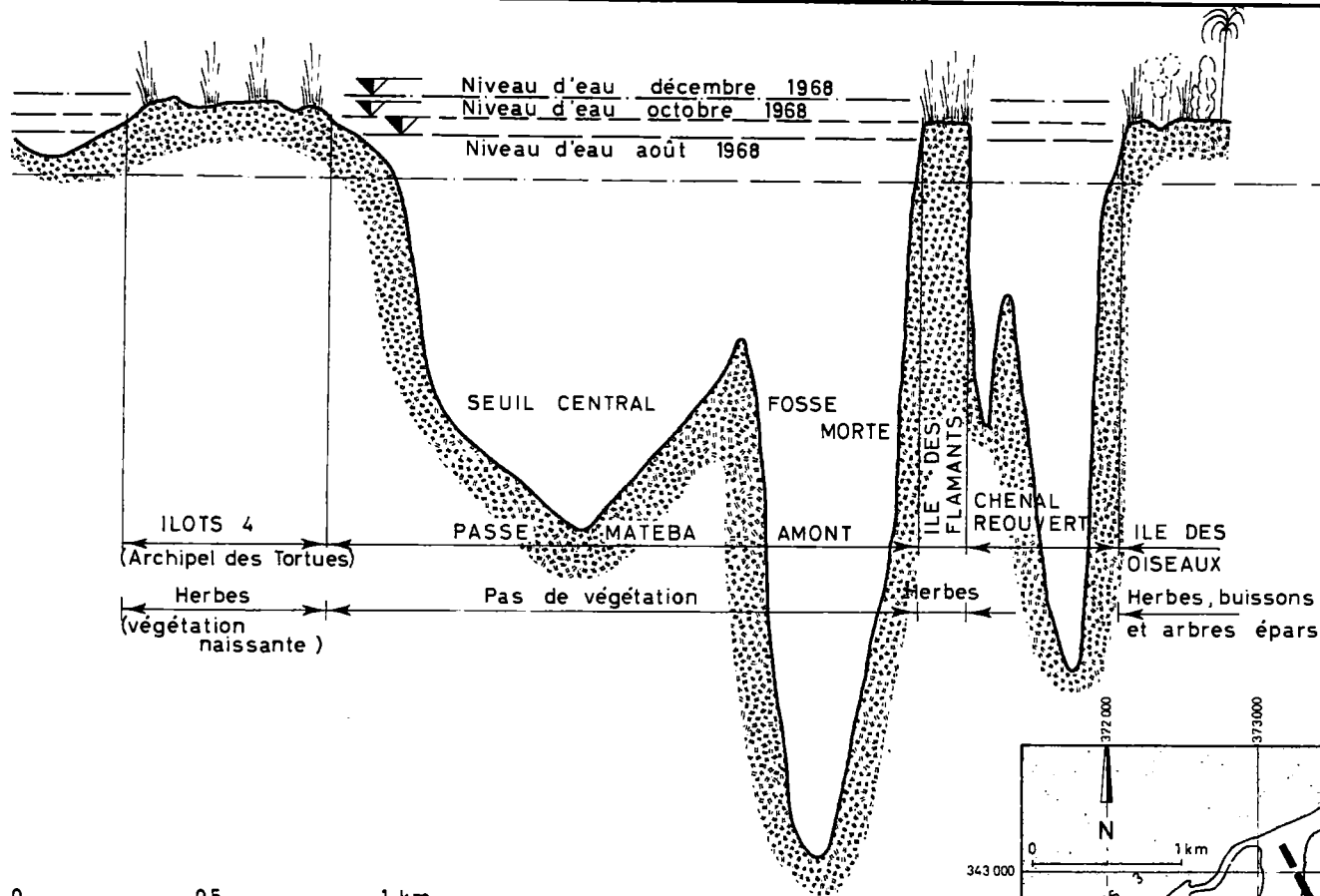


BIEF MARITIME
DU FLEUVE CONGO
REGION DIVAGANTE

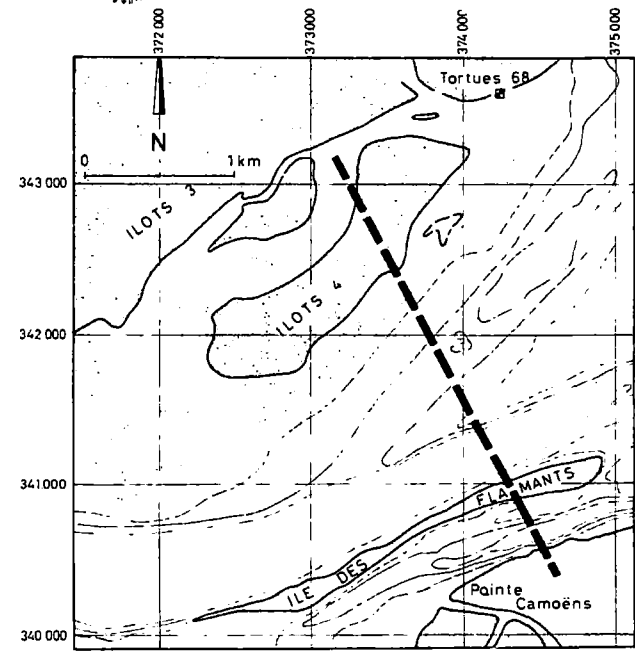
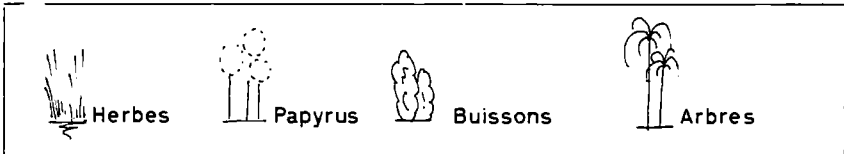
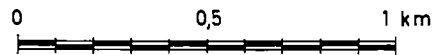
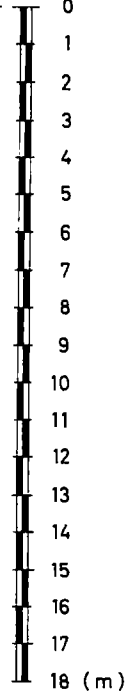
COUPE
MATEBA AMONT
(Bancs Centraux)

MOD. 255
Figure 12





Cotes hydrographiques



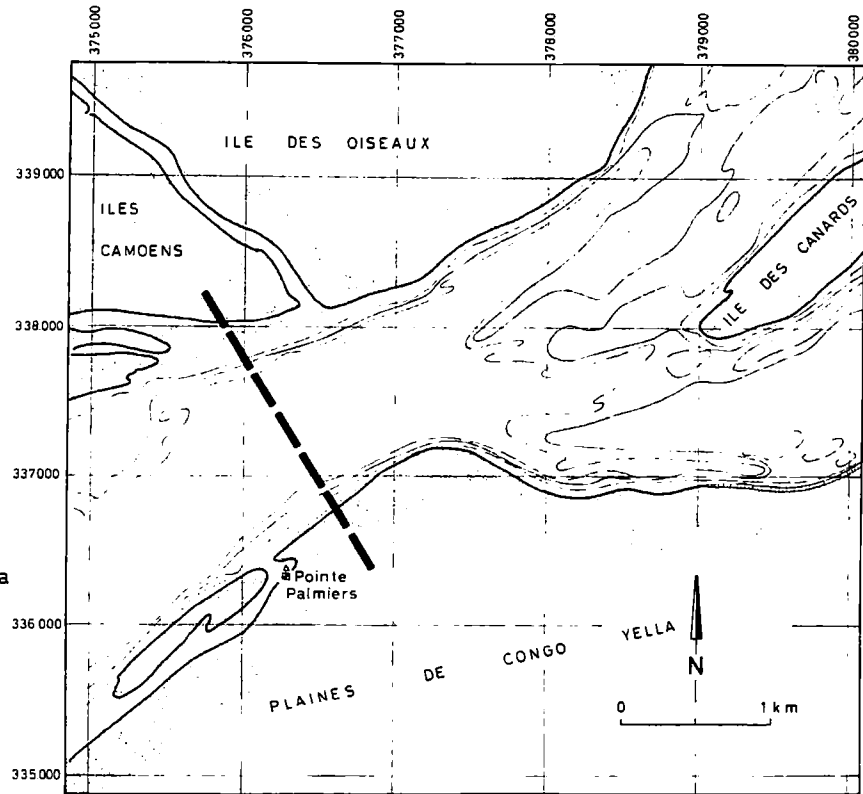
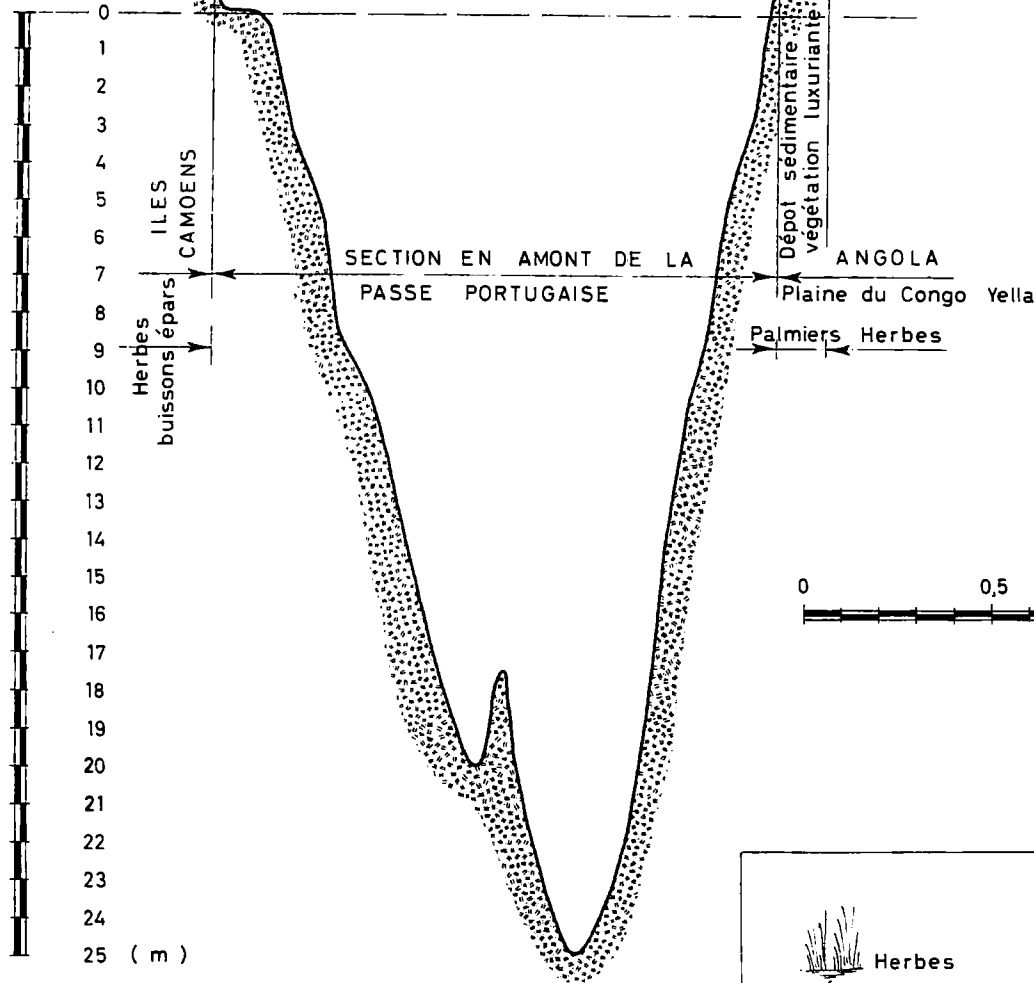
Réf.: 245.93
 Jonction Mateba Amont
 Camoëns Aval

Cotes hydrographiques

Niveau d'eau décembre 1968

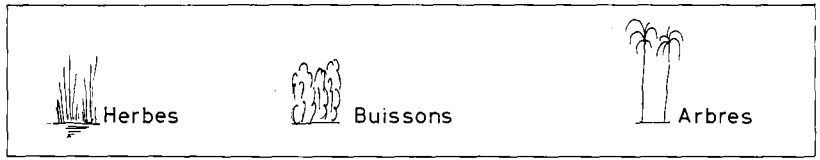
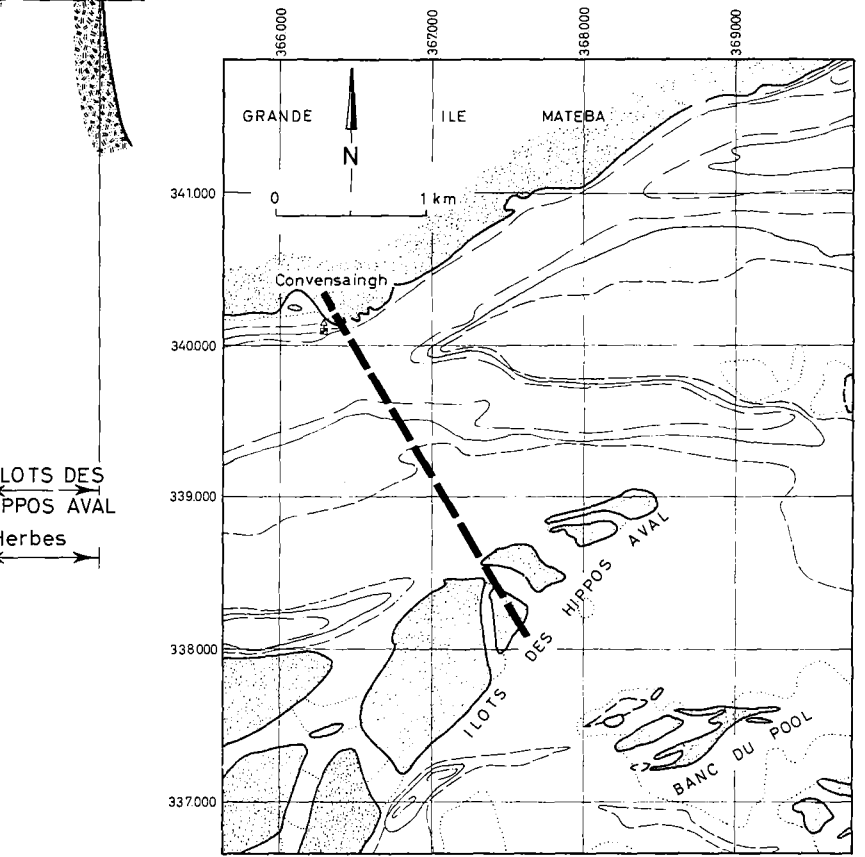
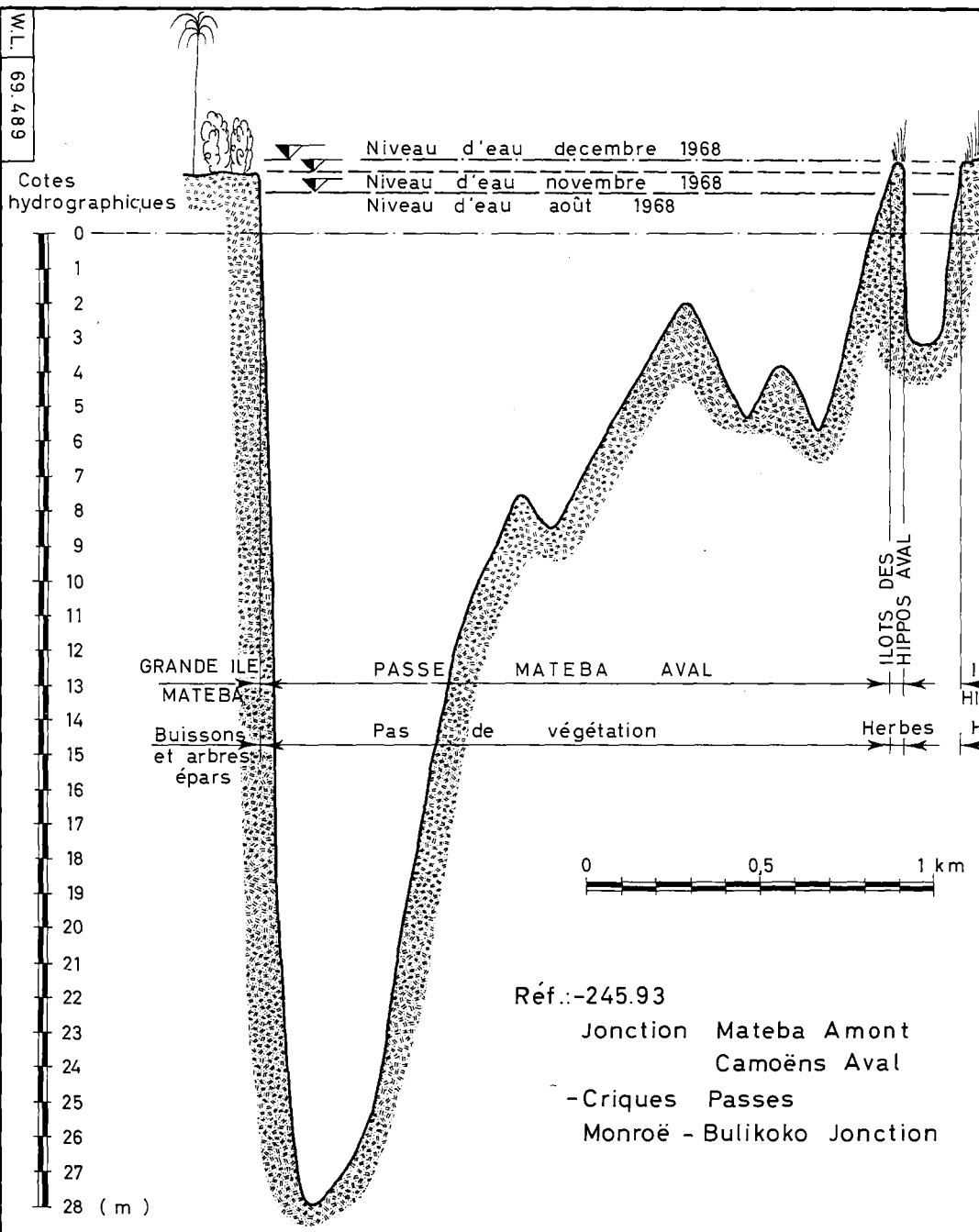
Niveau d'eau novembre 1968

Niveau d'eau août 1968



Réf.: 242.221
Pool de Camoëns





Isobathe de	0 m
	-----	5 m
	—————	8 m
	-----	10 m

FEUILLE I : ECHANTILLONS DE SEDIMENTS - VEGETATION

Echantillons de sédiments

Exemple : ⊙ M 968 S 40 Echantillon pris au mois de
septembre 1968 - Sédiment n° 40.

Végétation



Pas de végétation



(Arbres (couverture dense)
Forêt tropicale



Herbes (végétation naissante)



Herbes et buissons



Herbes (couverture dense)



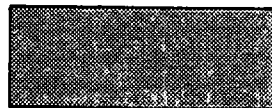
Herbes, buissons et arbres épars



Buissons (couverture dense)

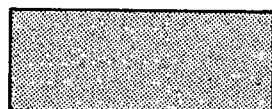
**FEUILLE II : NATURE DU SOL - EROSIONS ET ATTERISSEMENTS -
pH DE L'EAU - DETAILS DES COURANTS**

Nature du sol - Age des fles

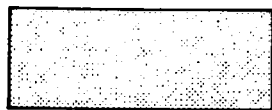


Ile ancienne recouverte d'une couche de terre arable. Terrains
souvent bien consolidés.

Age en général supérieur à plusieurs centaines d'années.



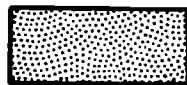
Ile récente recouverte d'une faible couche de terre arable. Terrain
peu consolidé. Age en général compris entre dix et quelques
dizaines d'années.



Ile (ou banc) très récente non couverte de terre arable. Terrain peu
consolidé.

Age en général inférieur à dix ans.

Zones d'érosions et d'engraissements



Zone d'érosion



Zone d'engraissement

Acidité de l'eau

Exemple : 6.8 le pH de l'eau est 6,8

Détails au sujet des courants



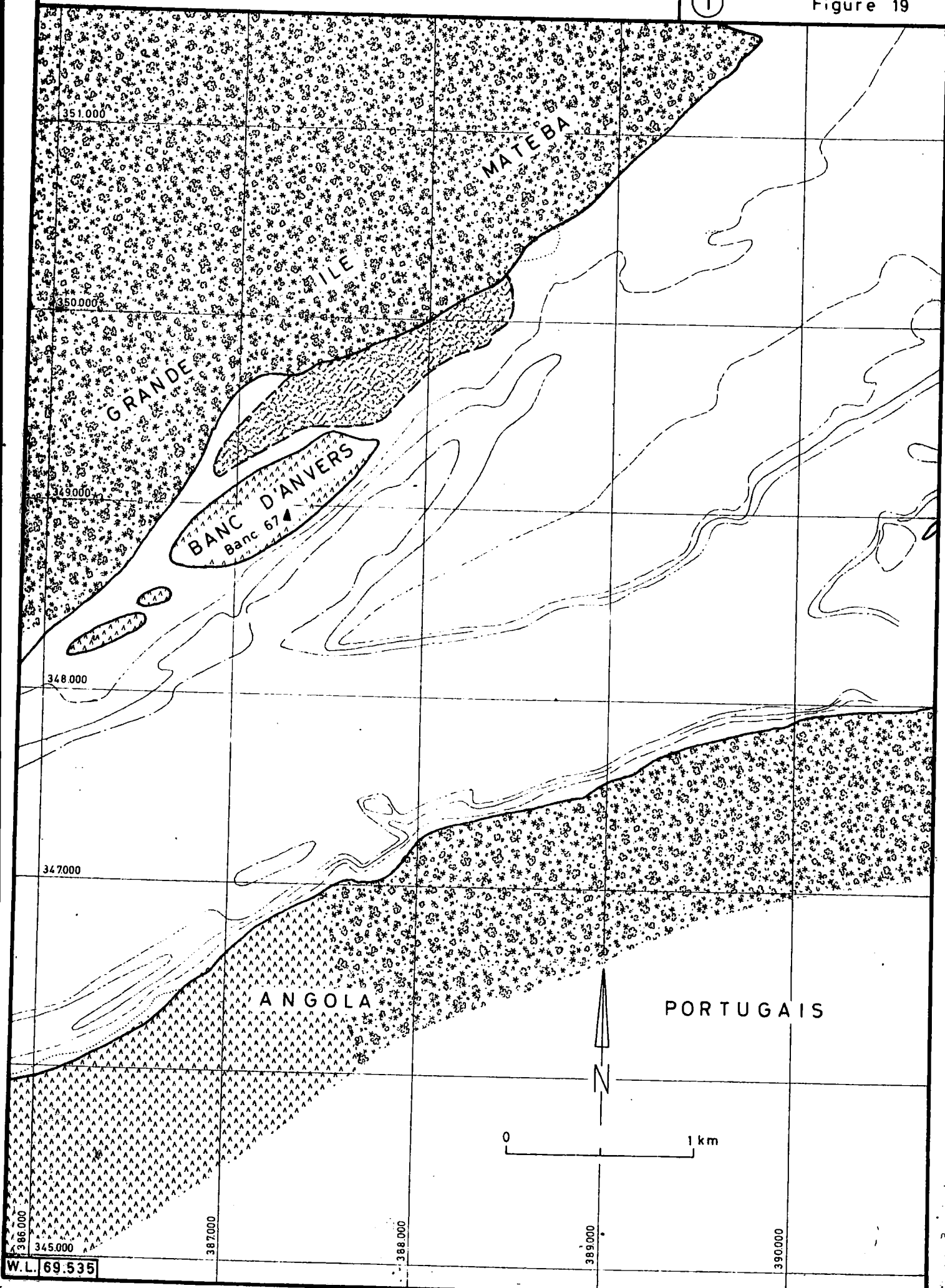
direction du courant (indication qualitative)

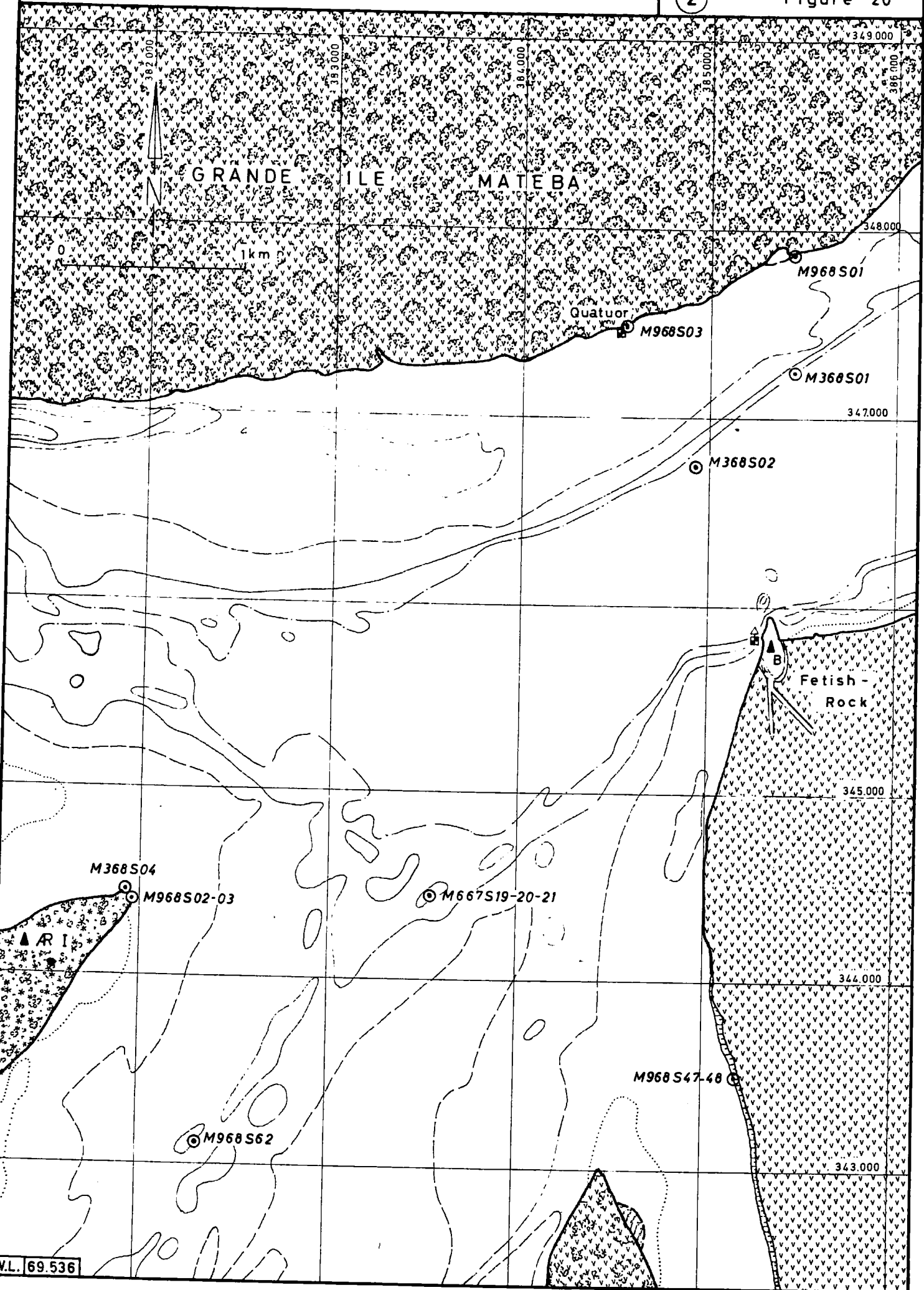
FEUILLE III : PHOTOS

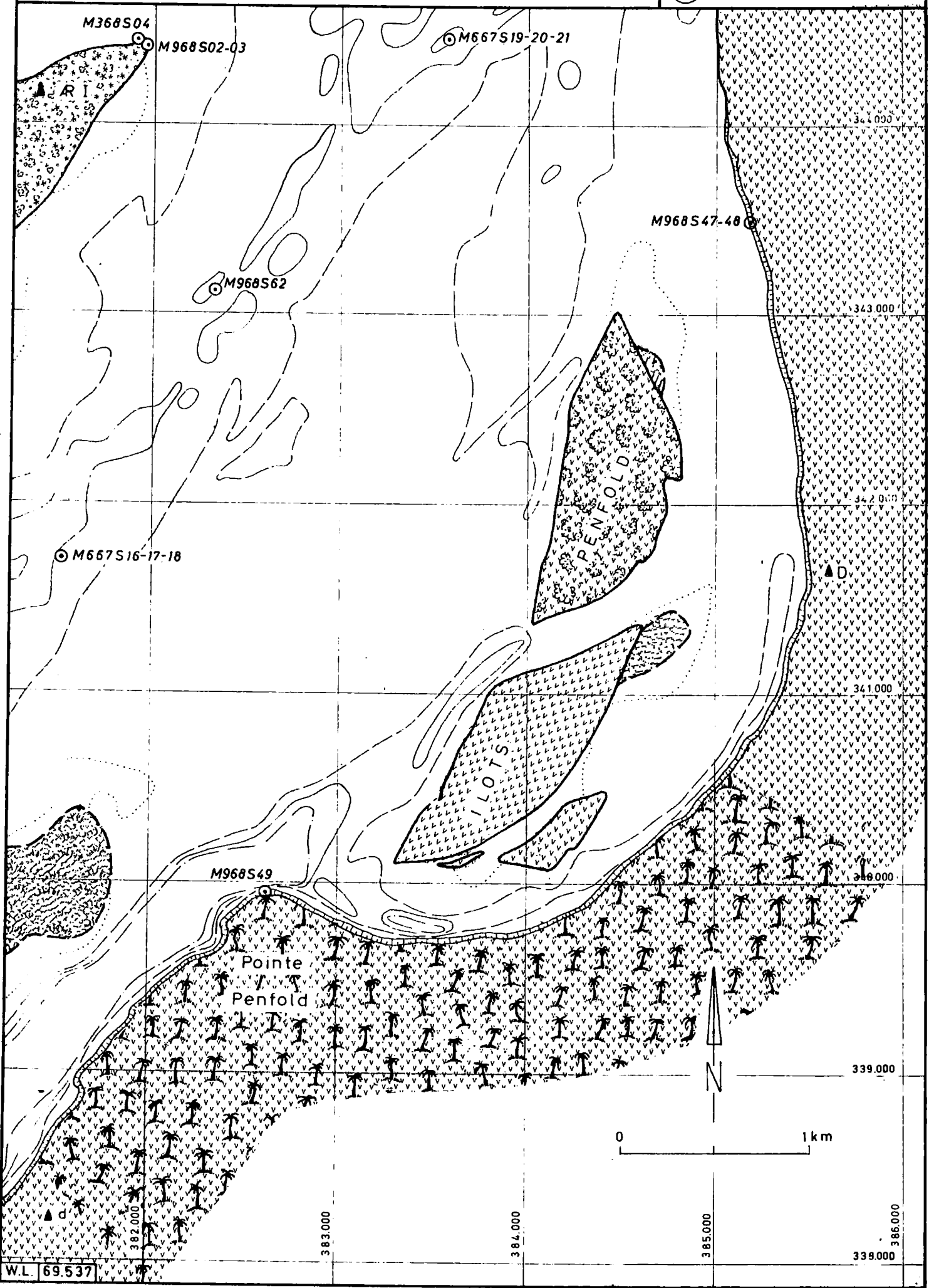
Exemple : 709 n° de la prise de vue

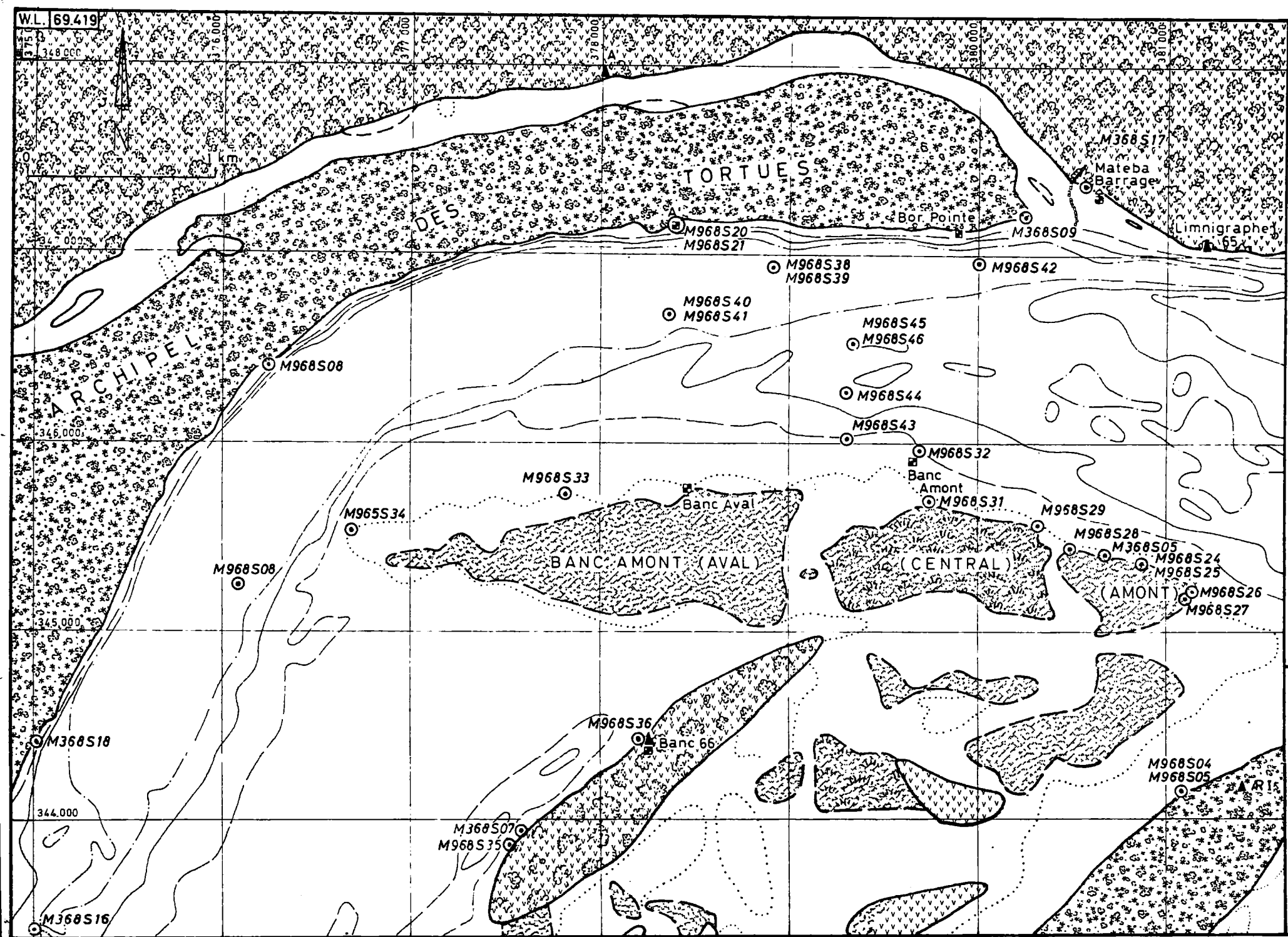


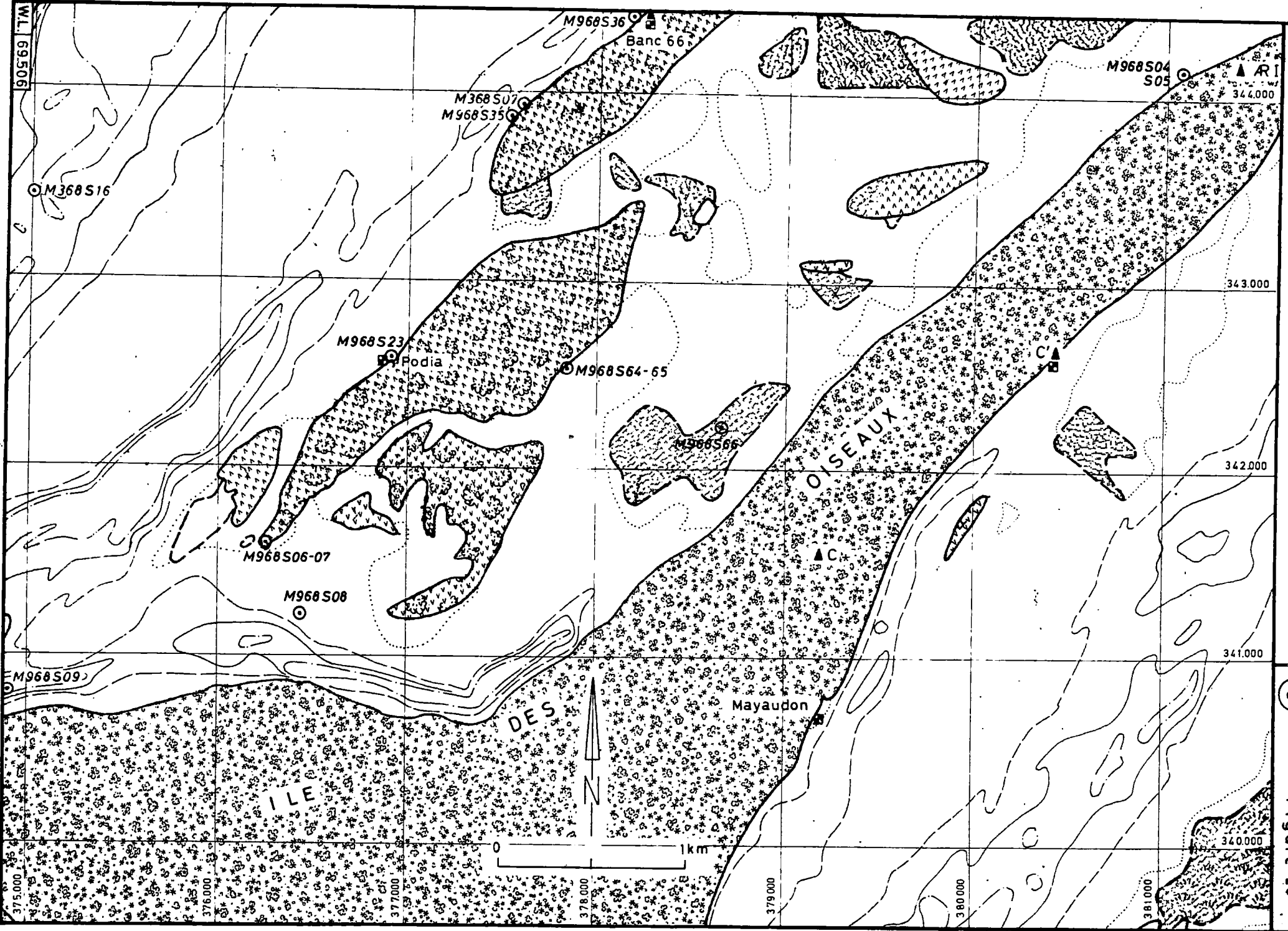
direction de la prise de vue

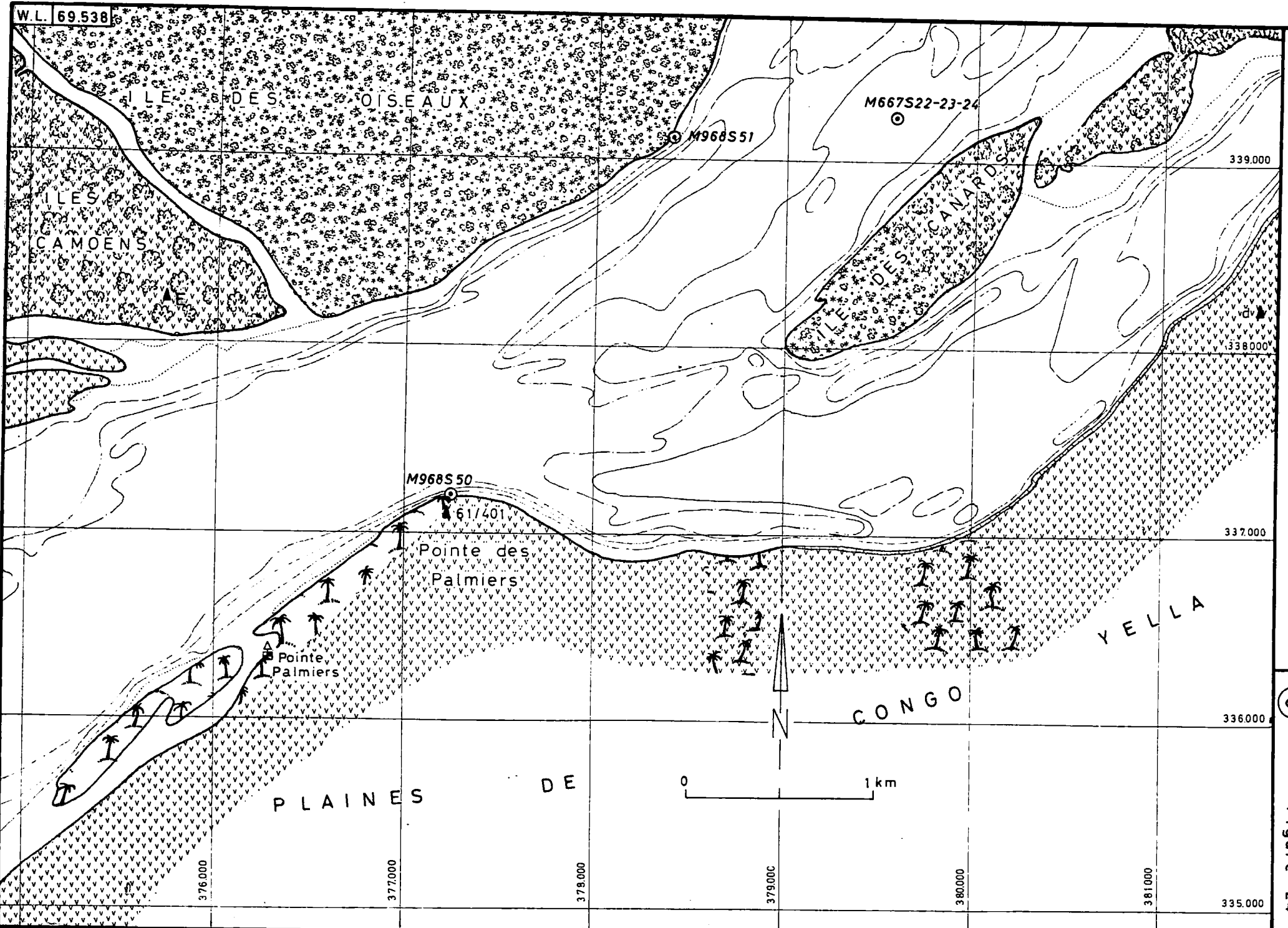


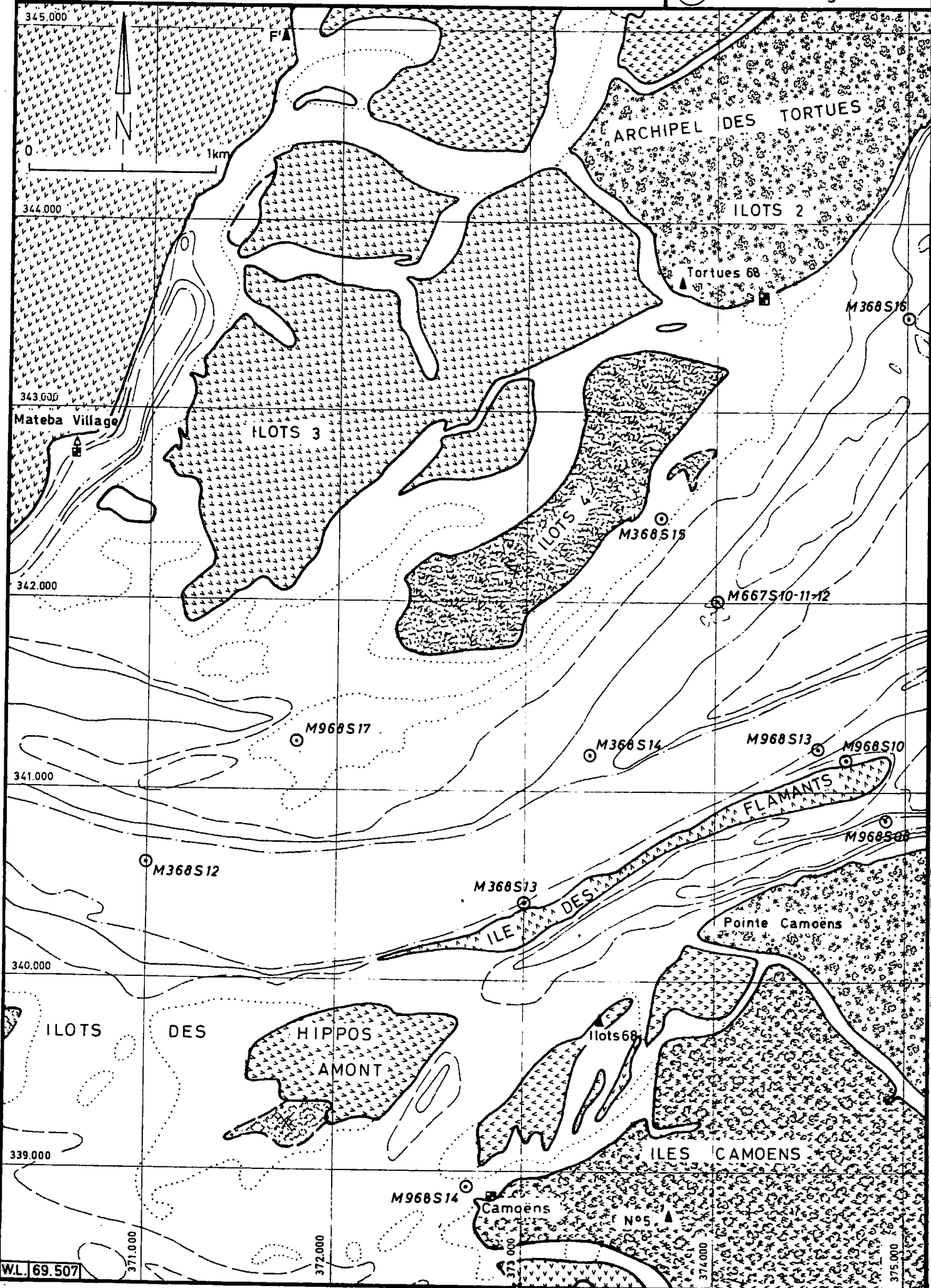


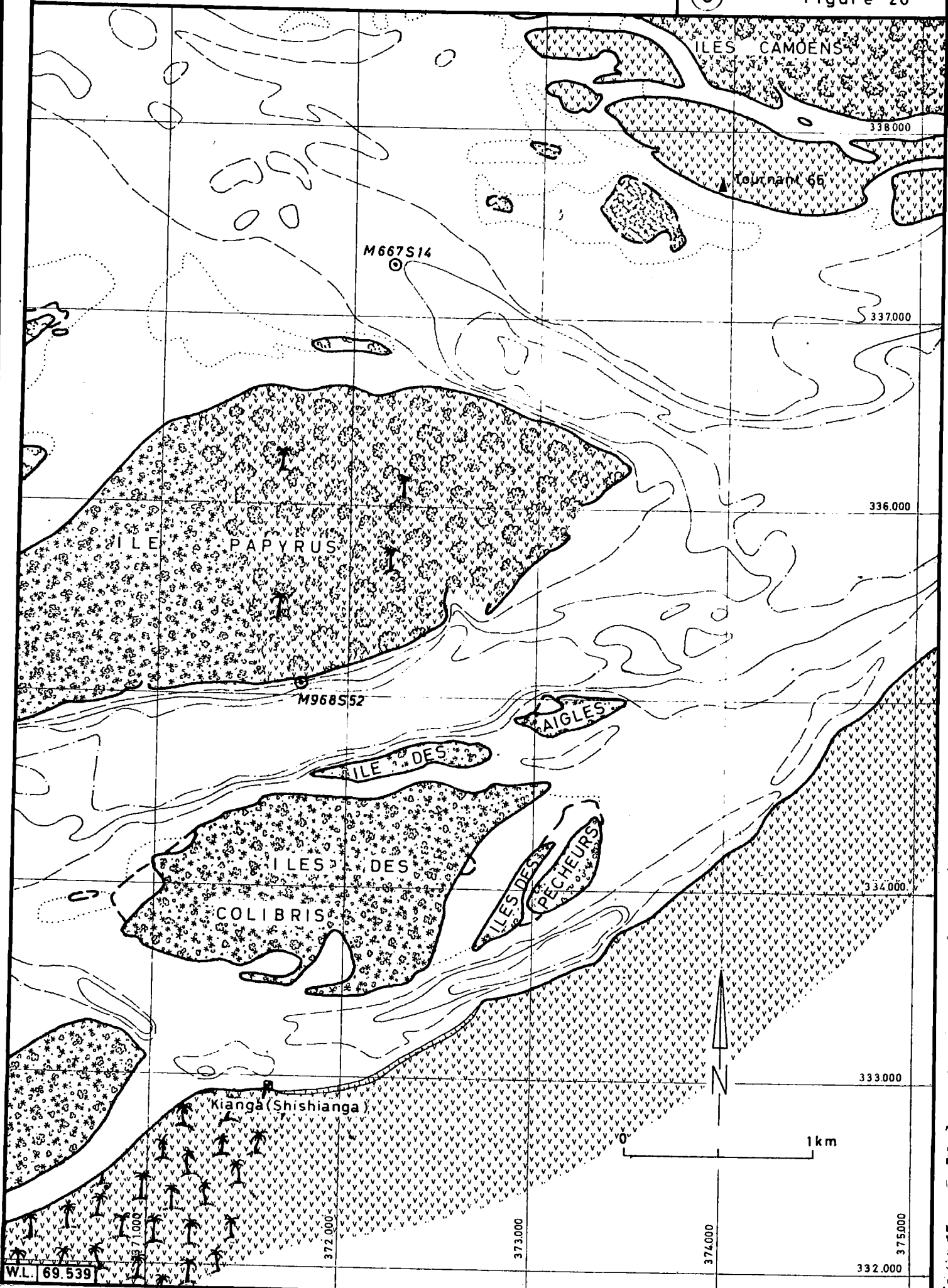


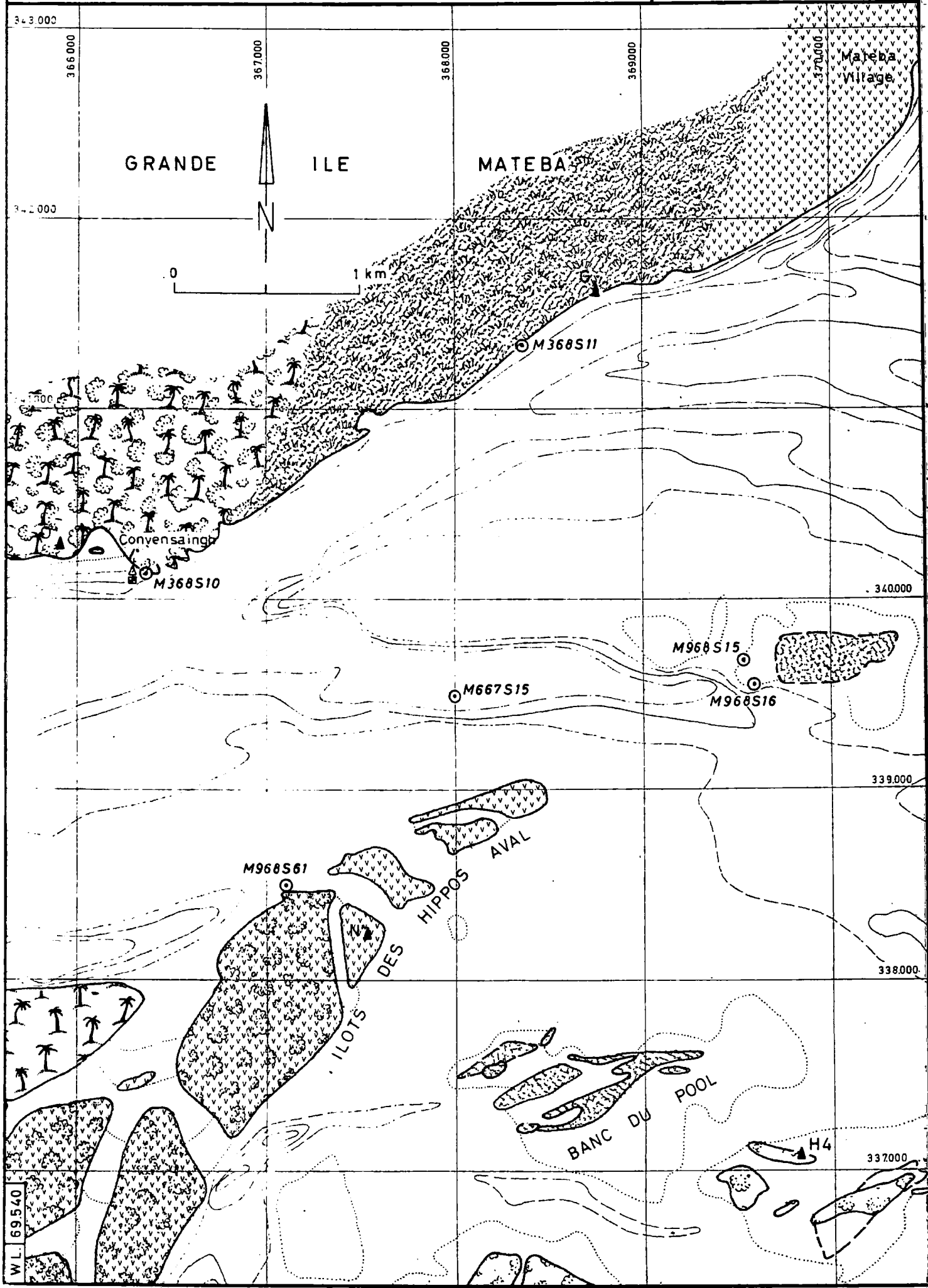


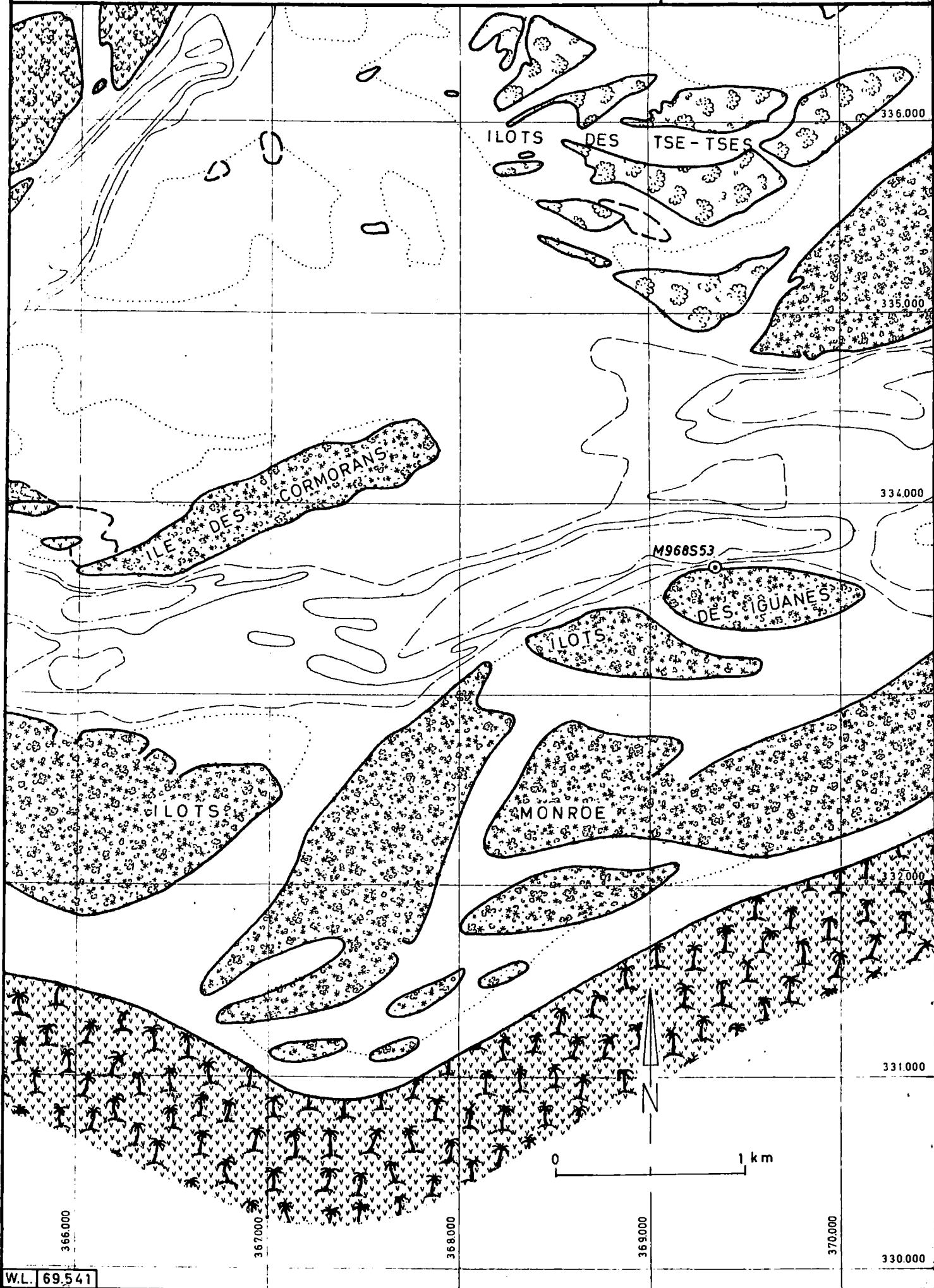


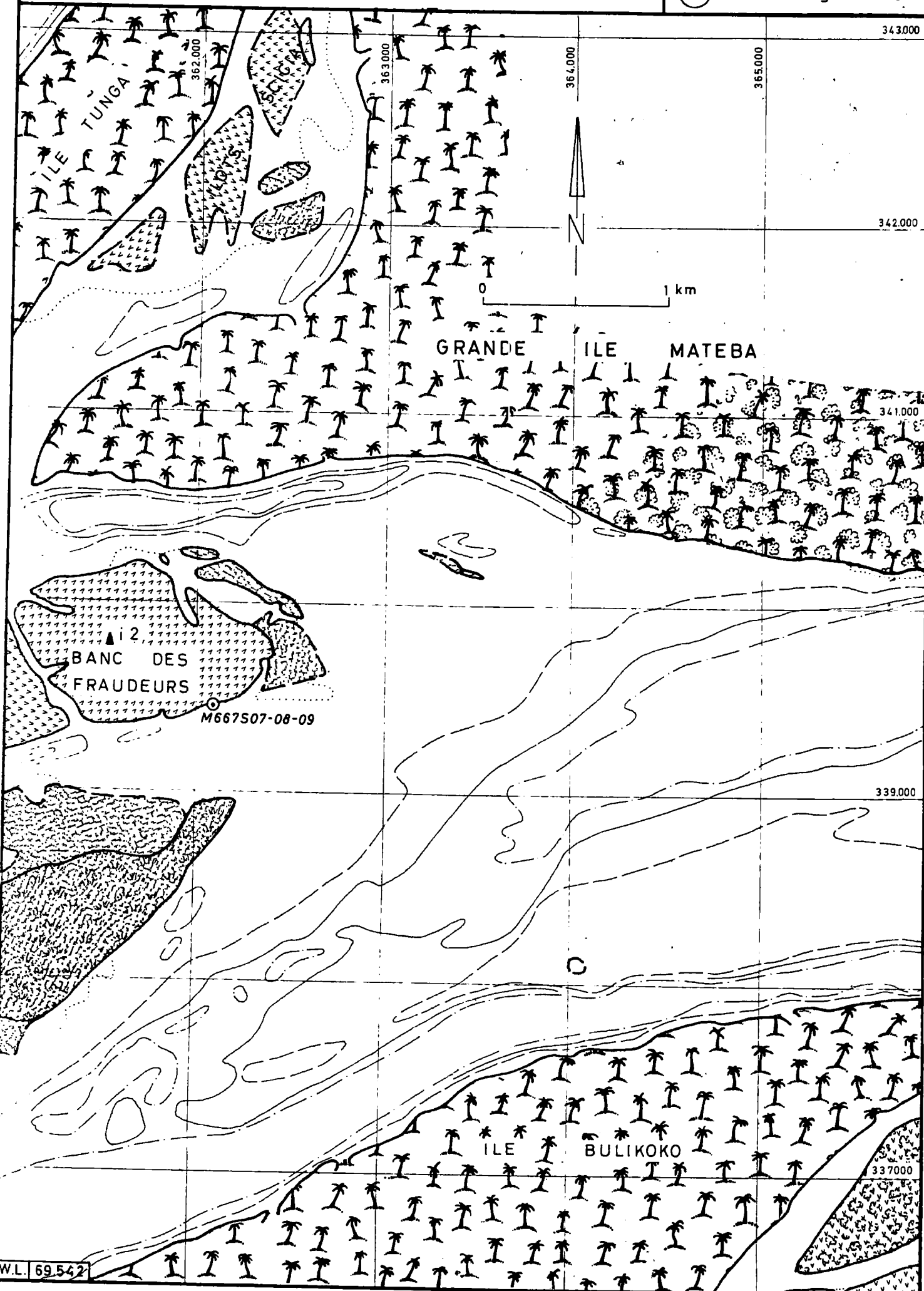




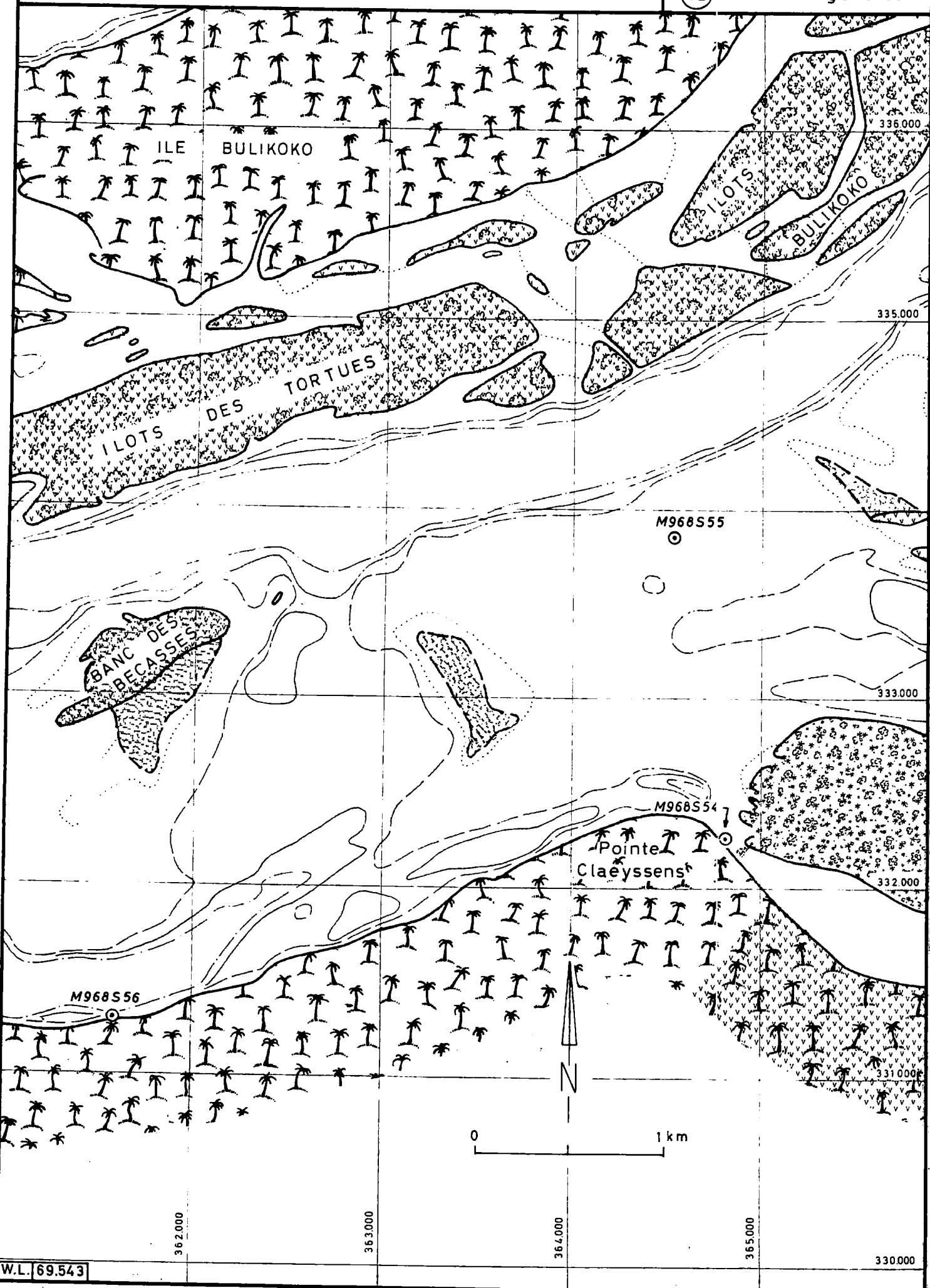


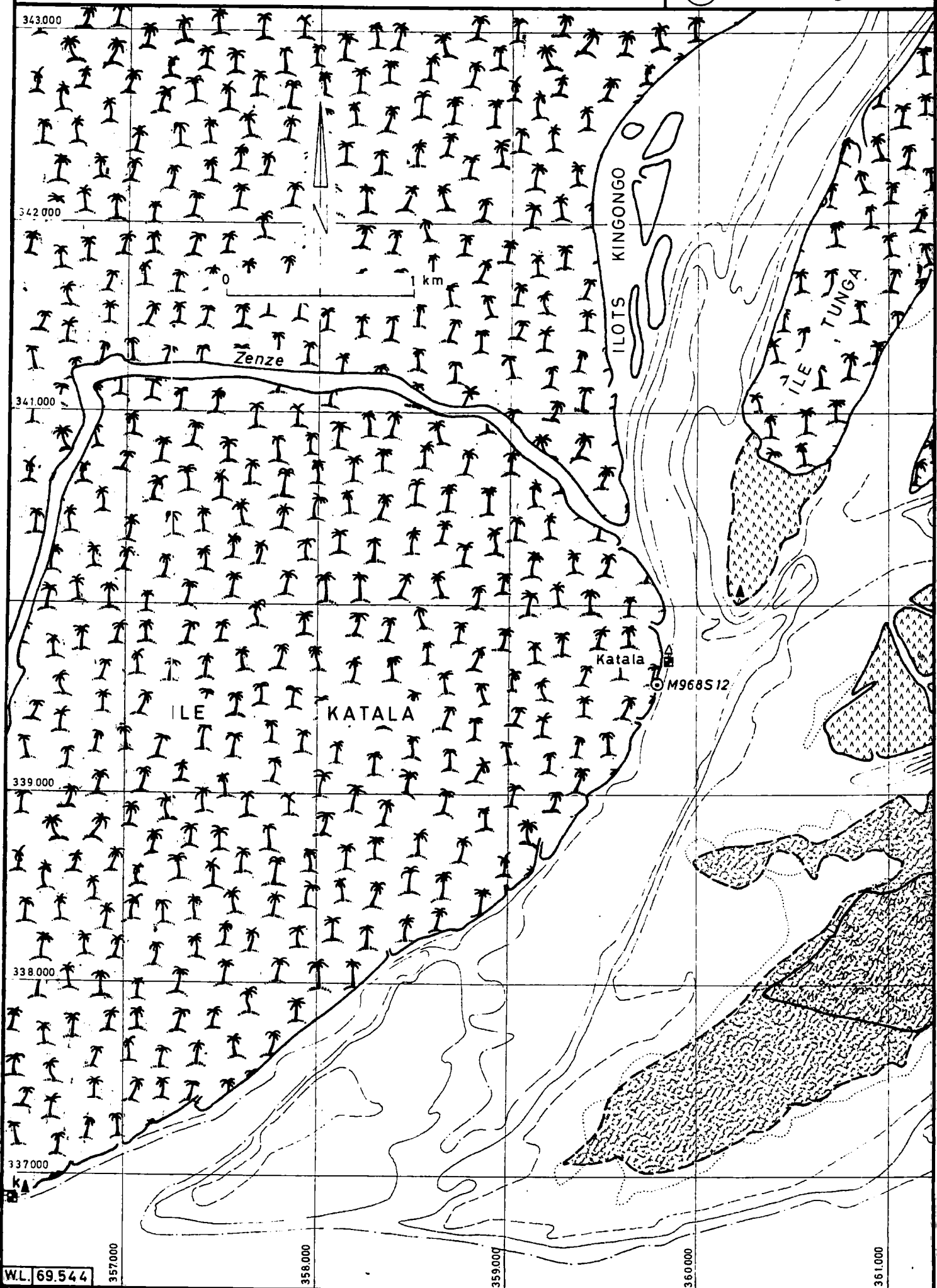


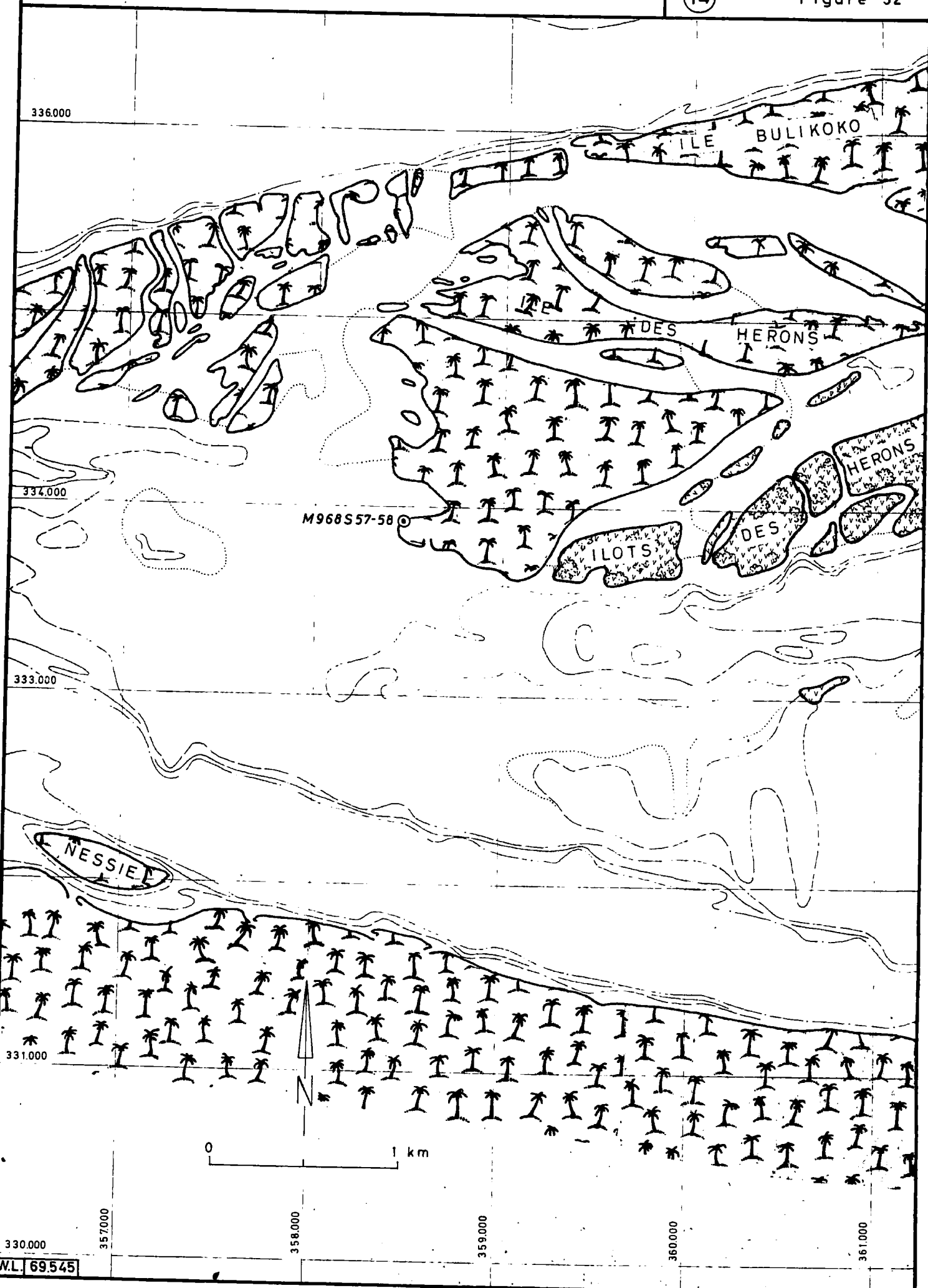


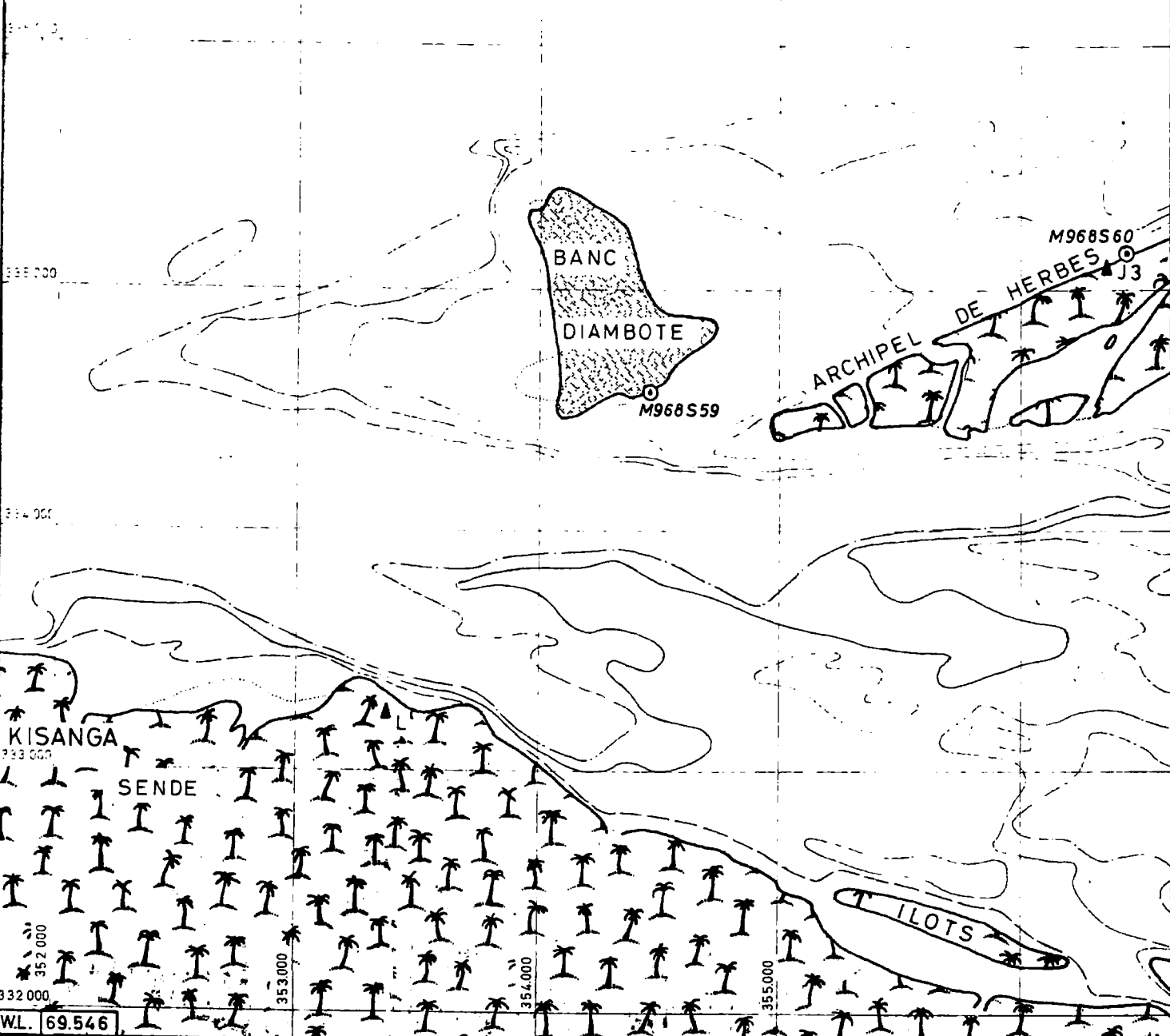
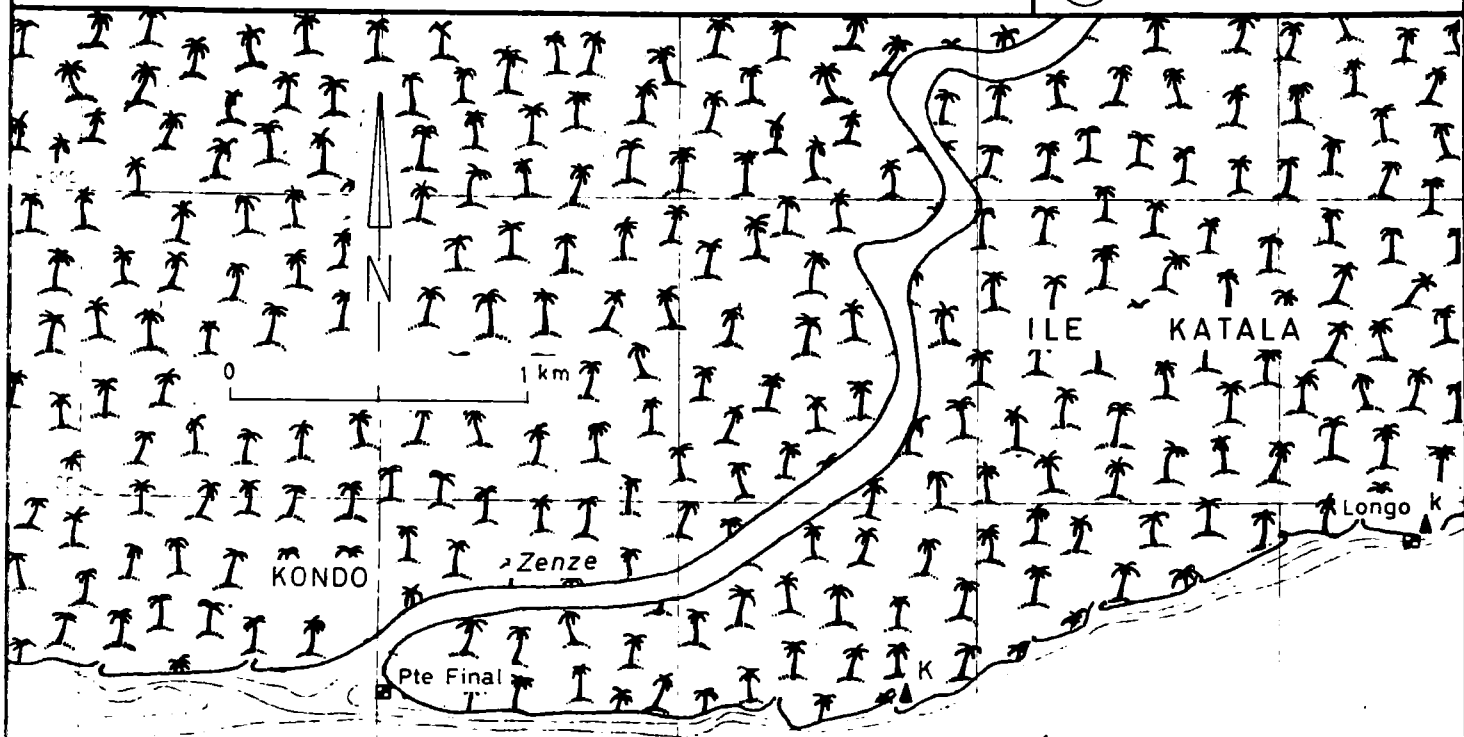


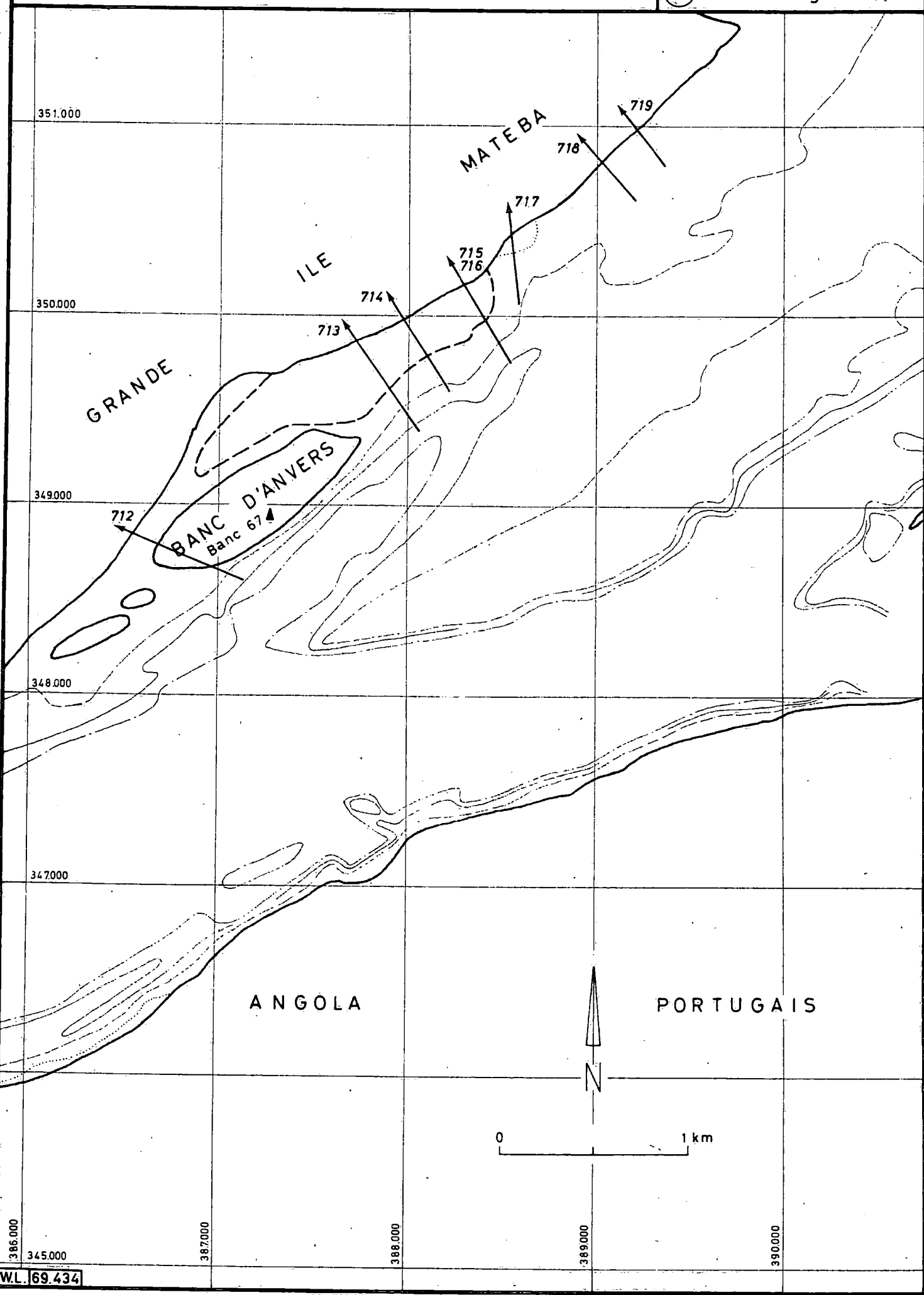
M667507-08-09

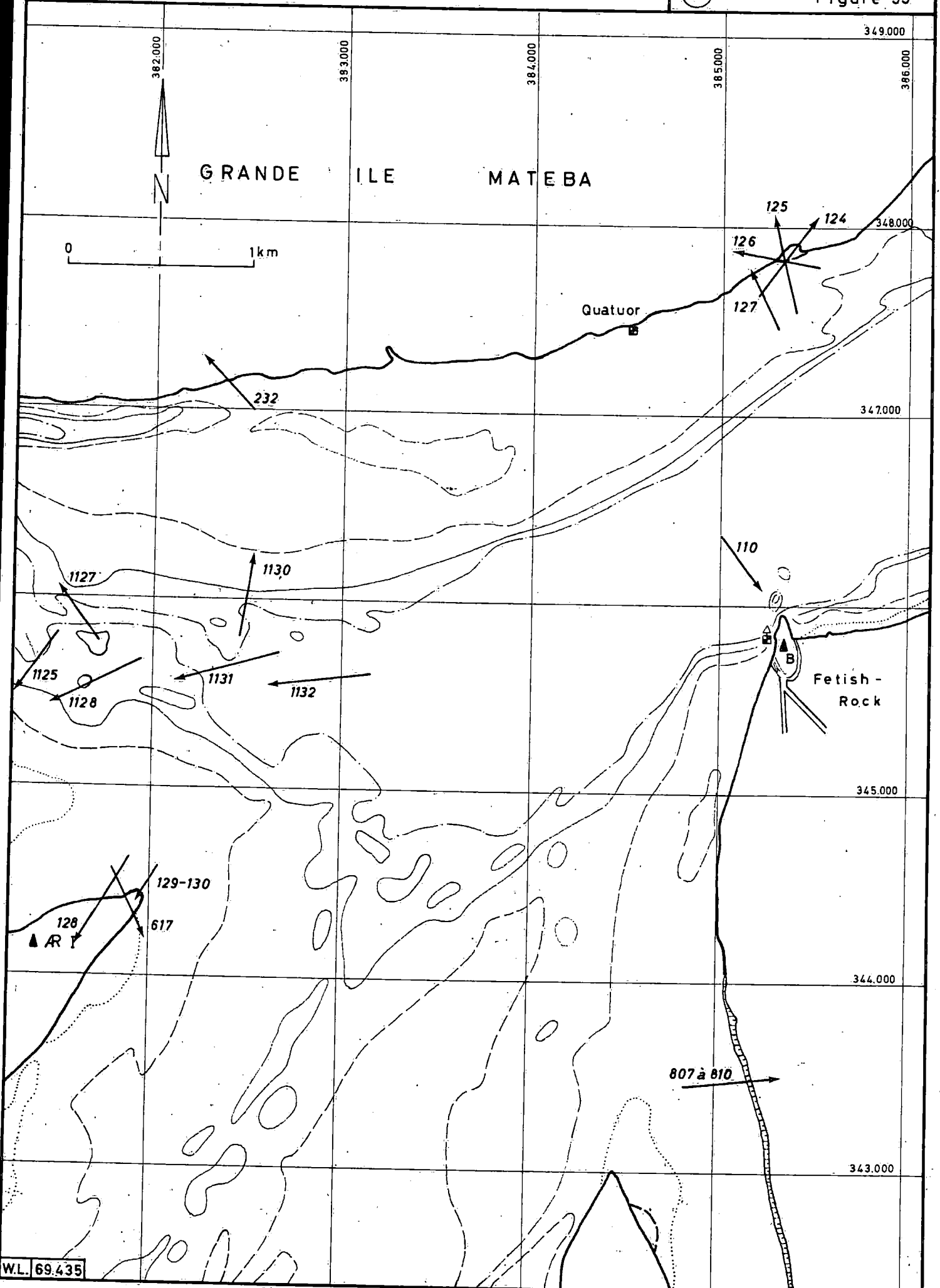


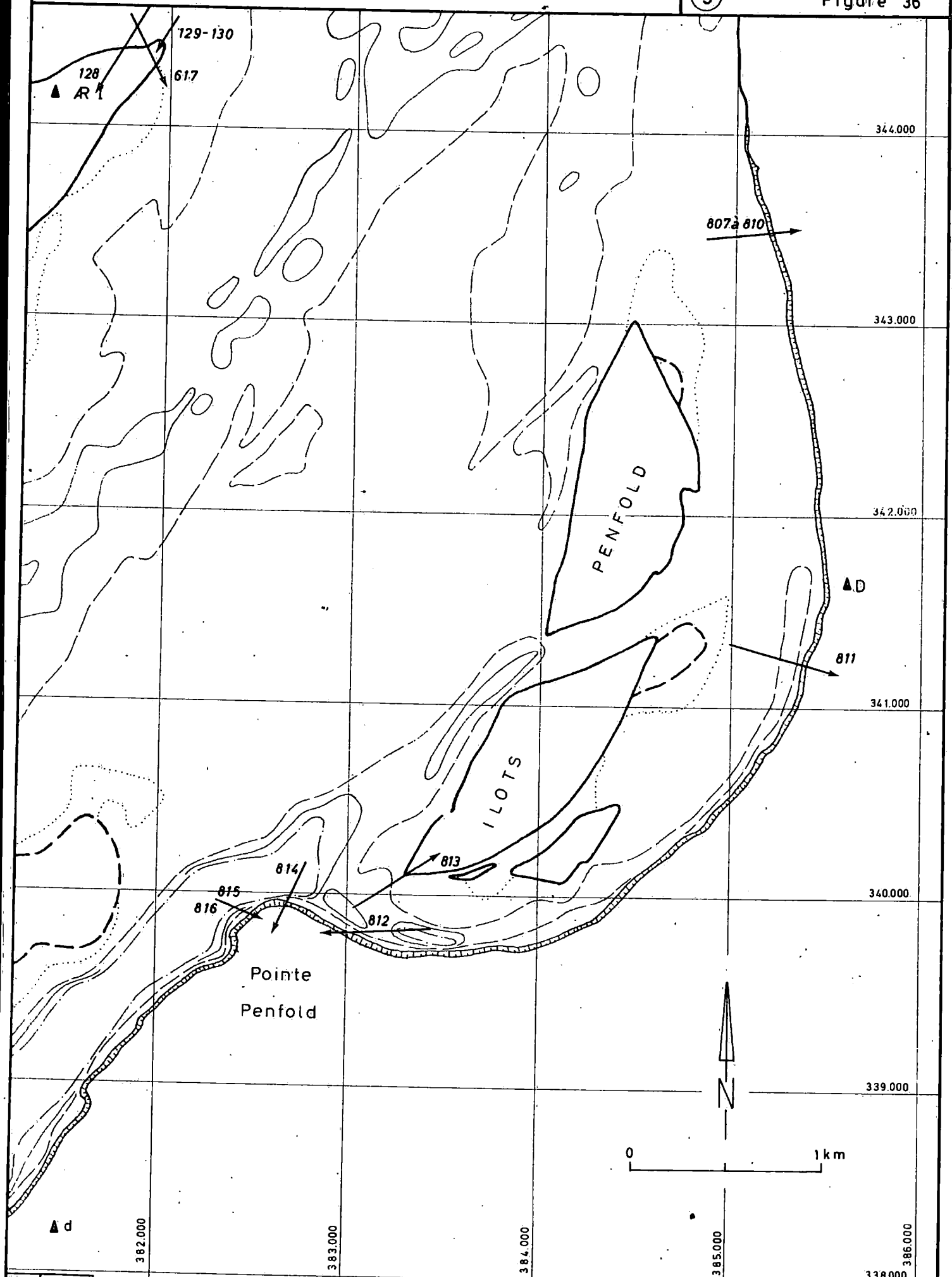


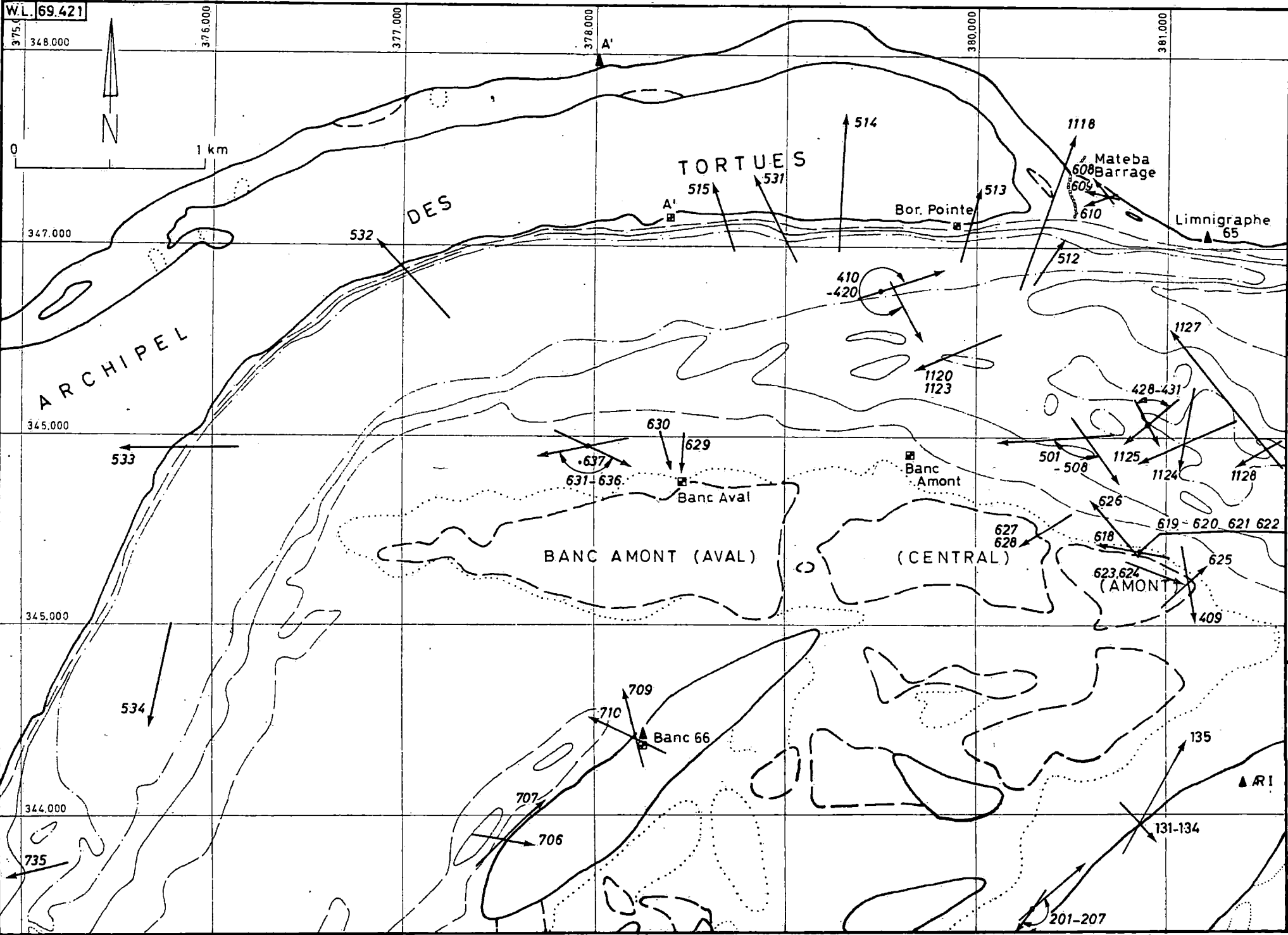


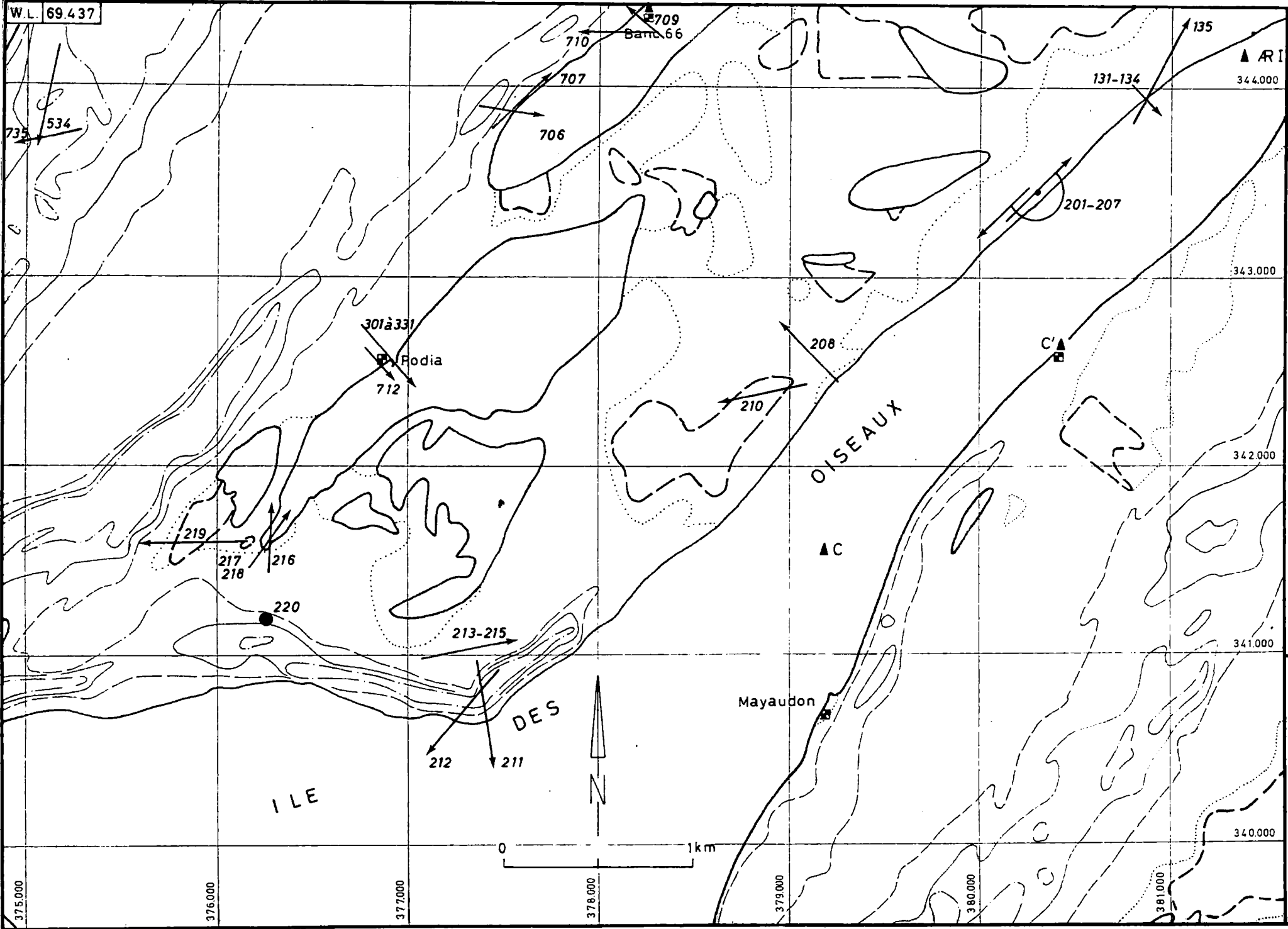


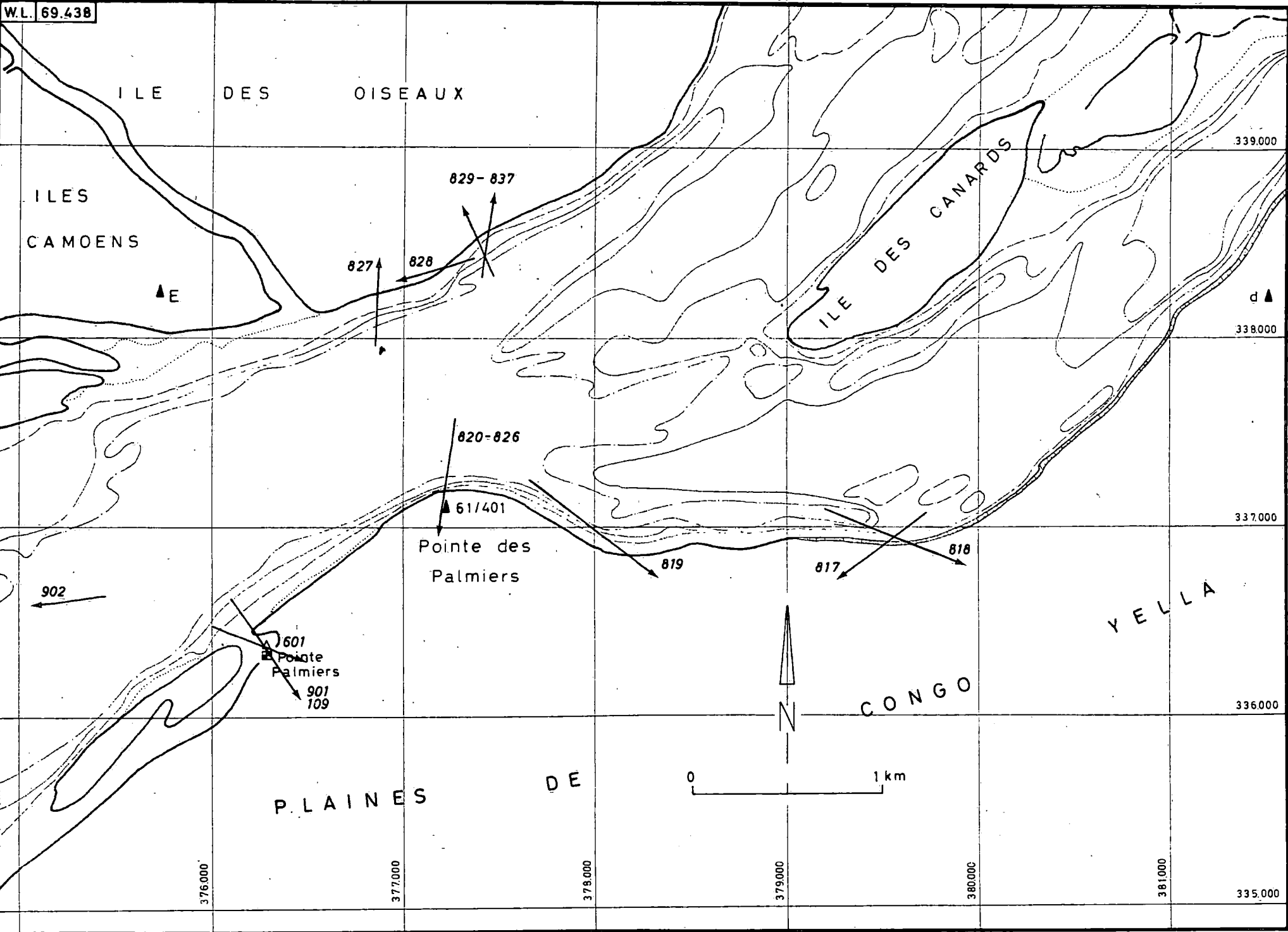


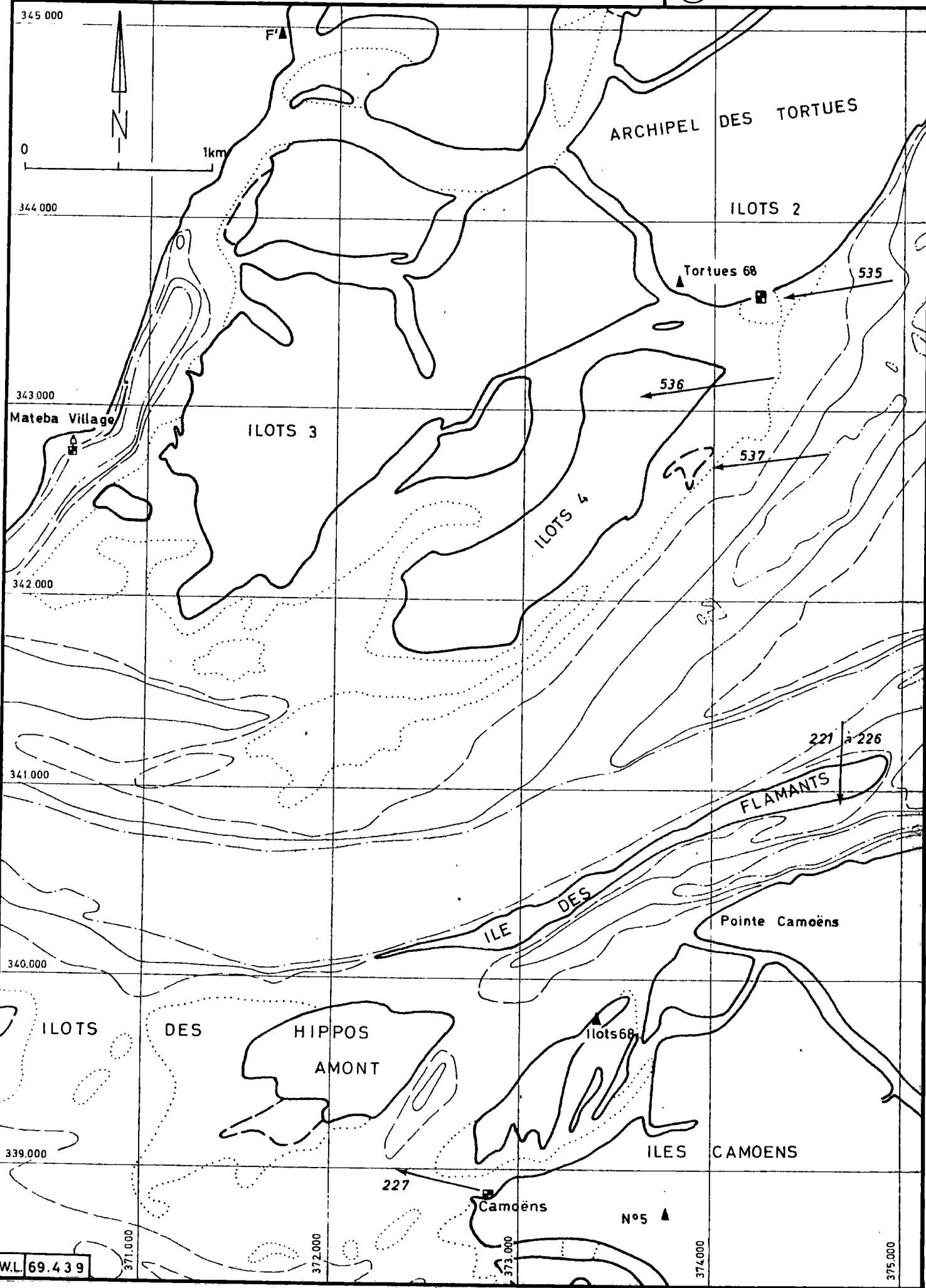


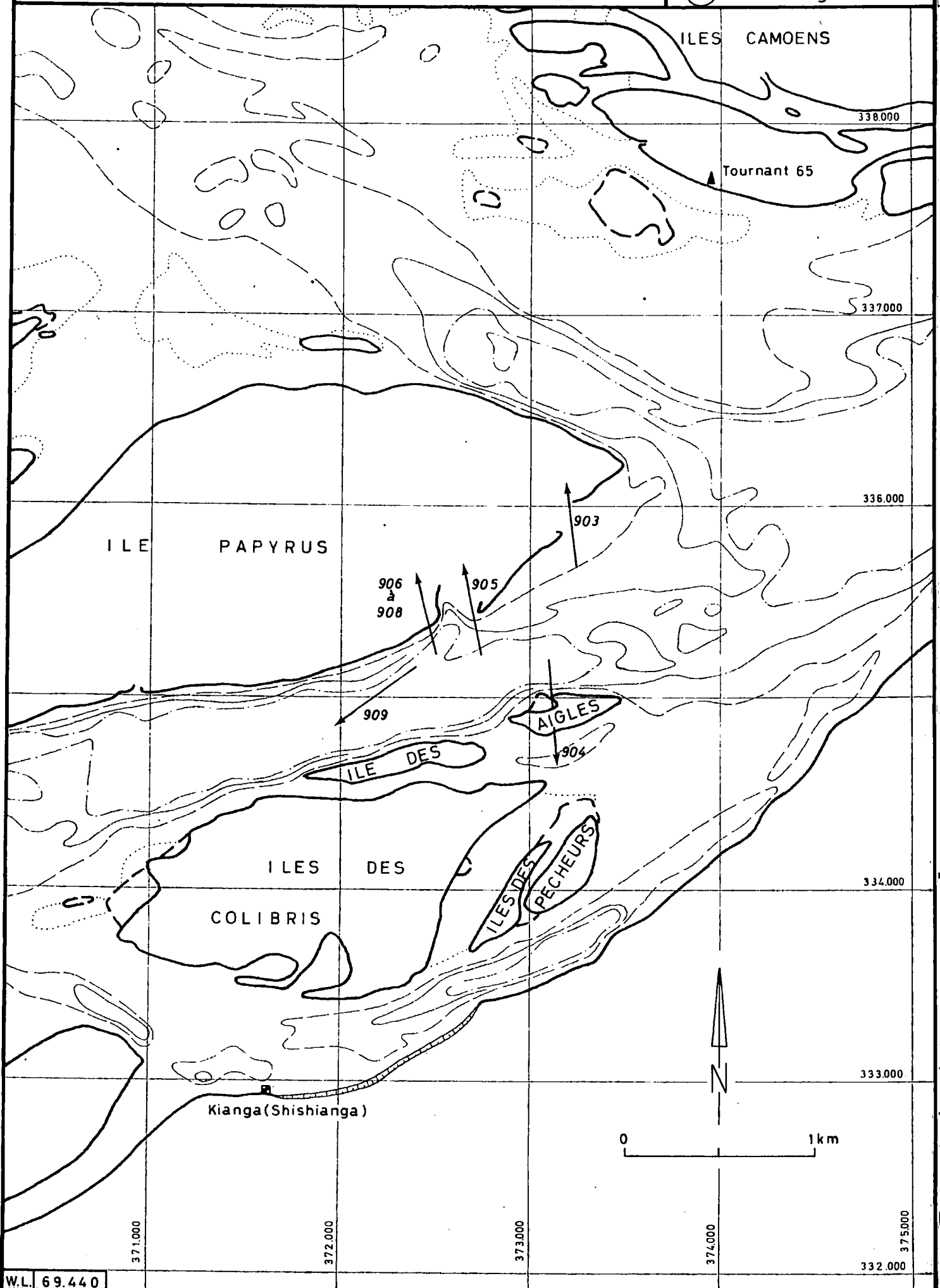


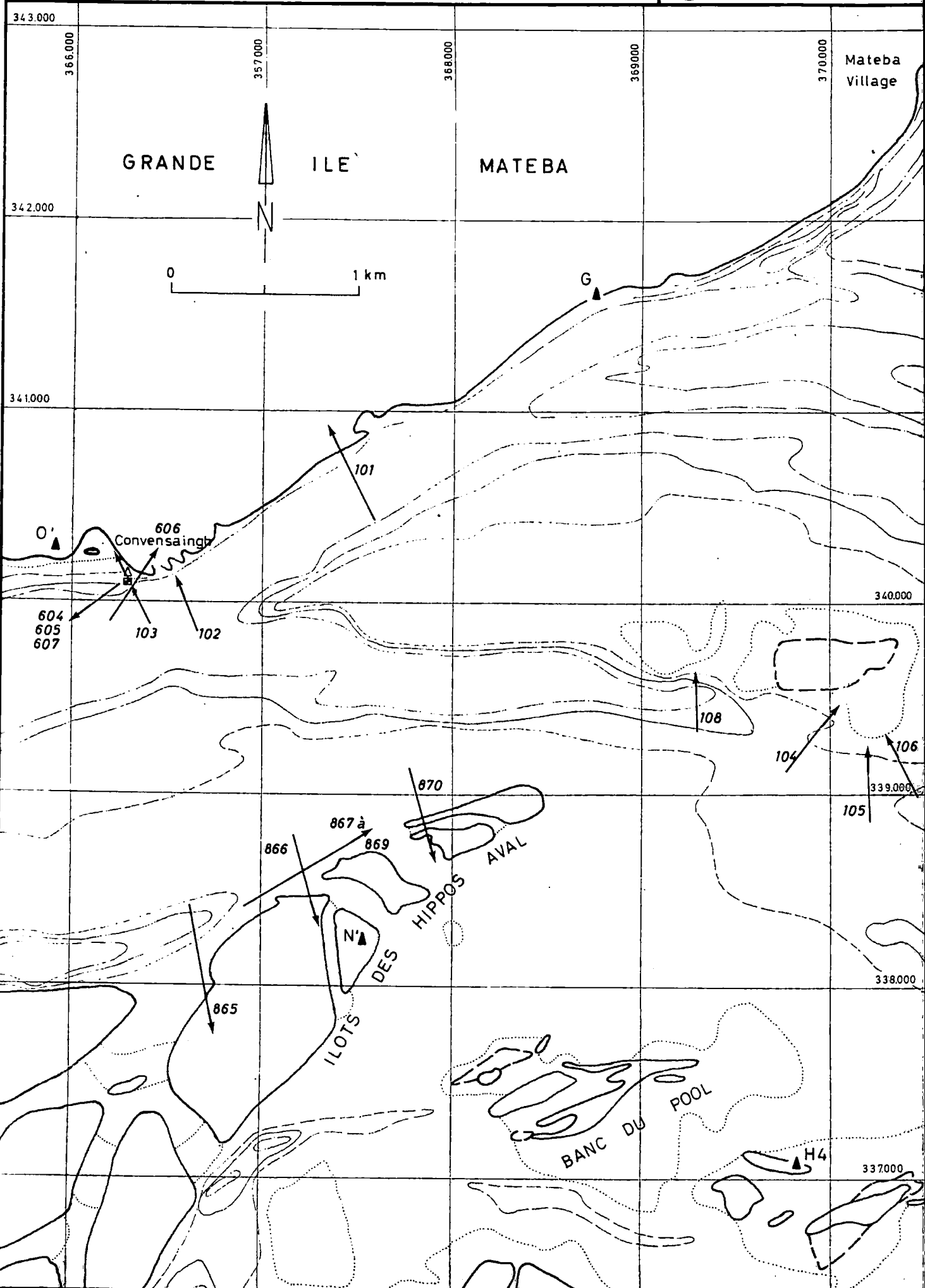


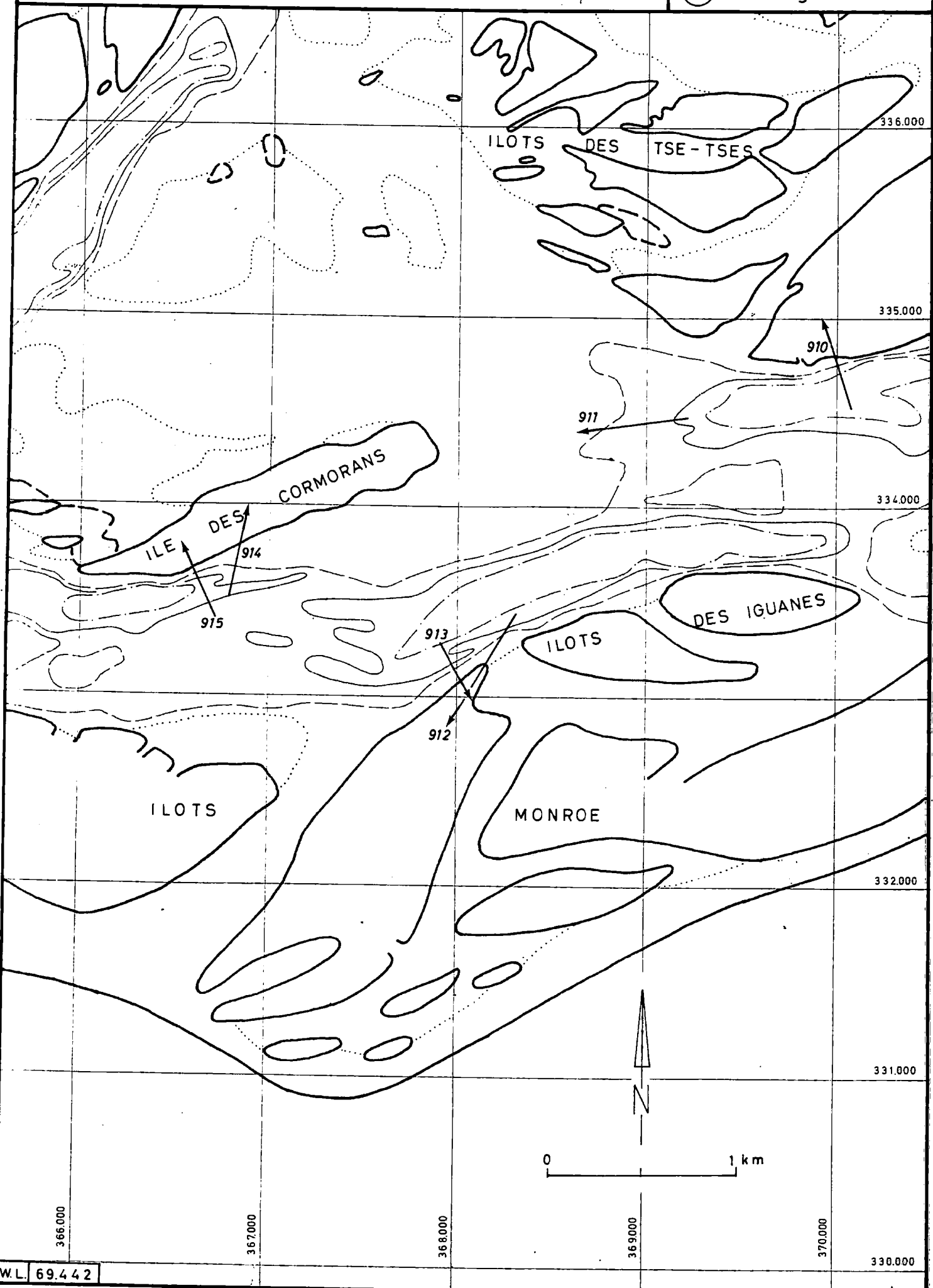


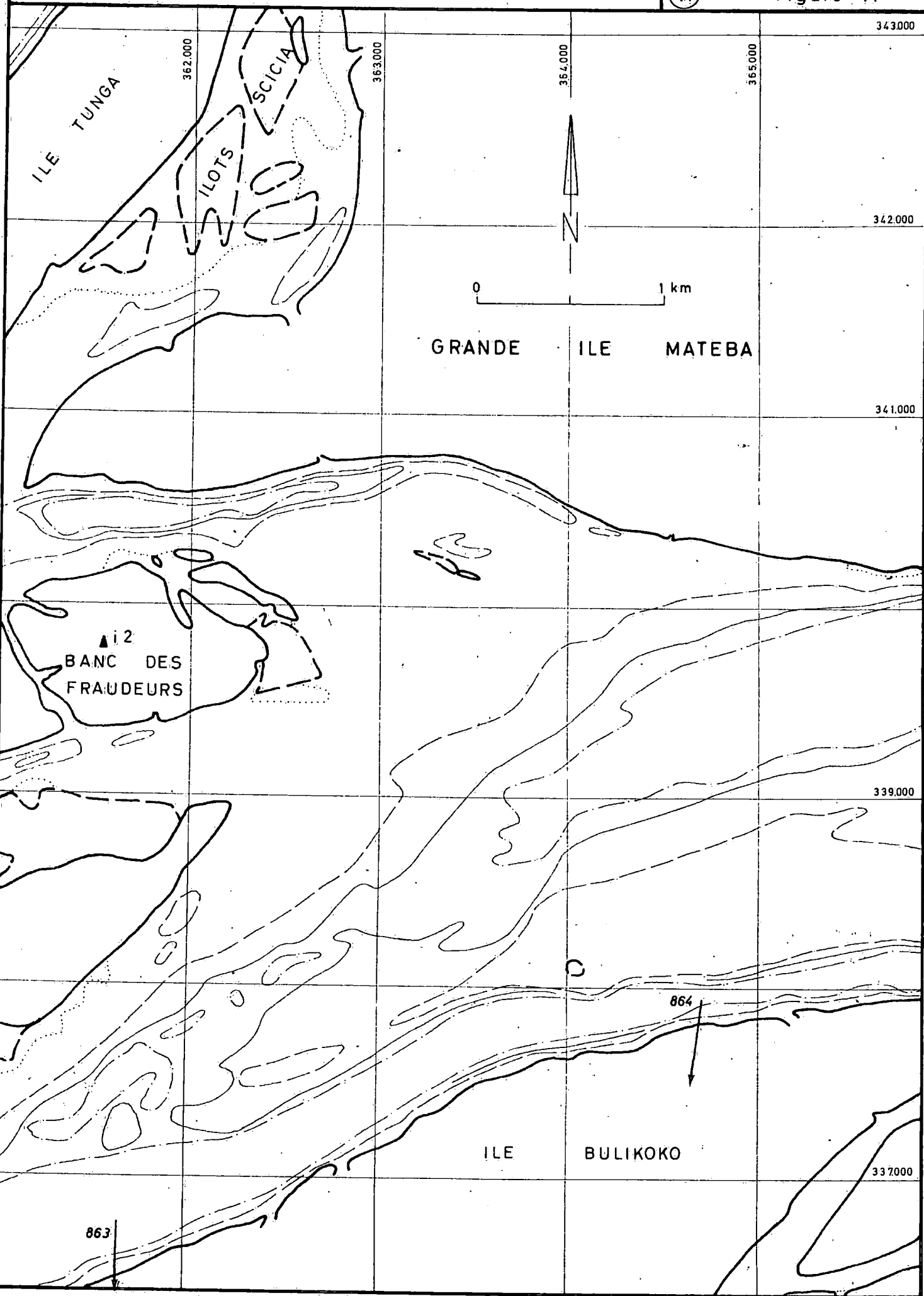




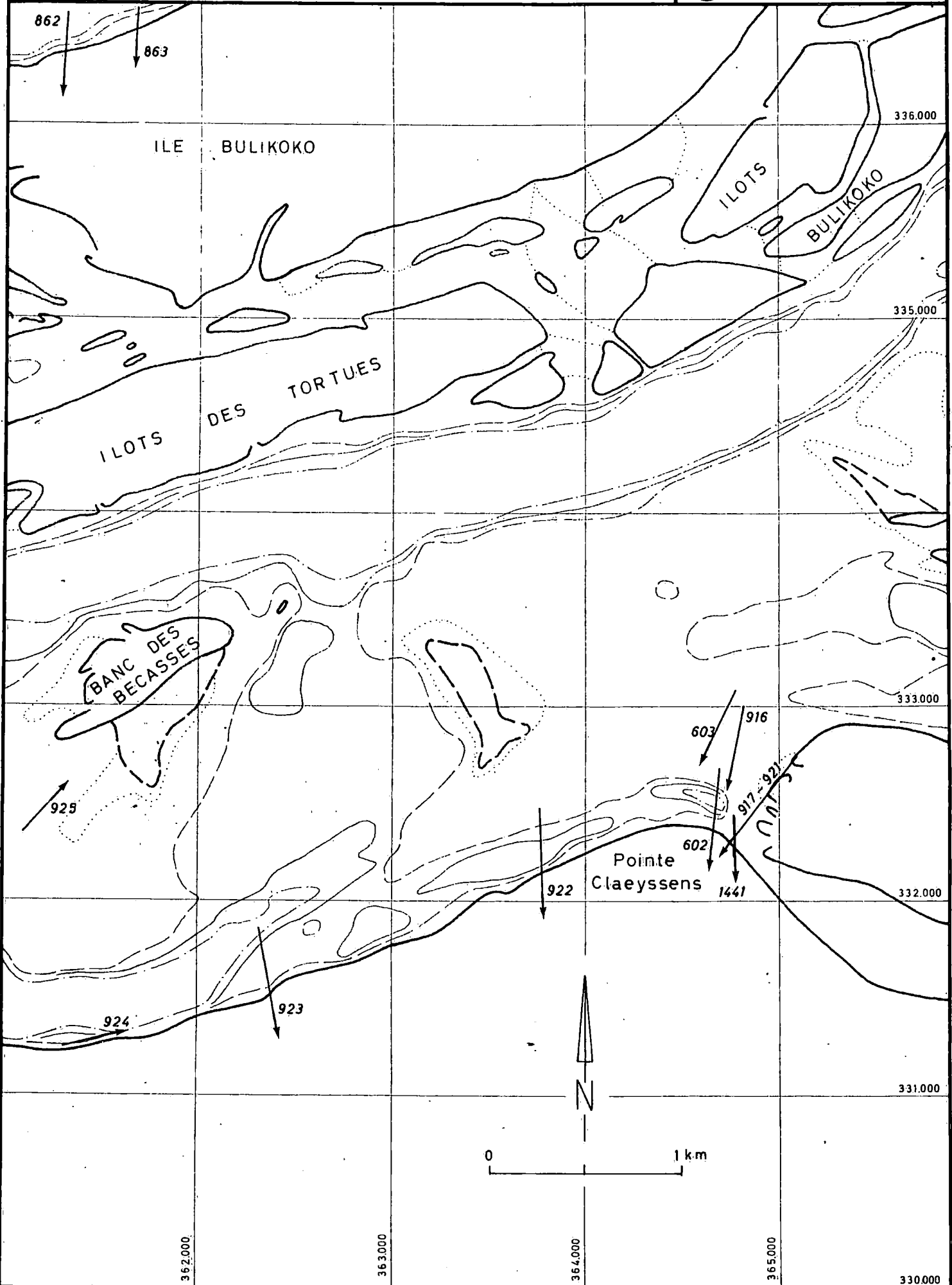


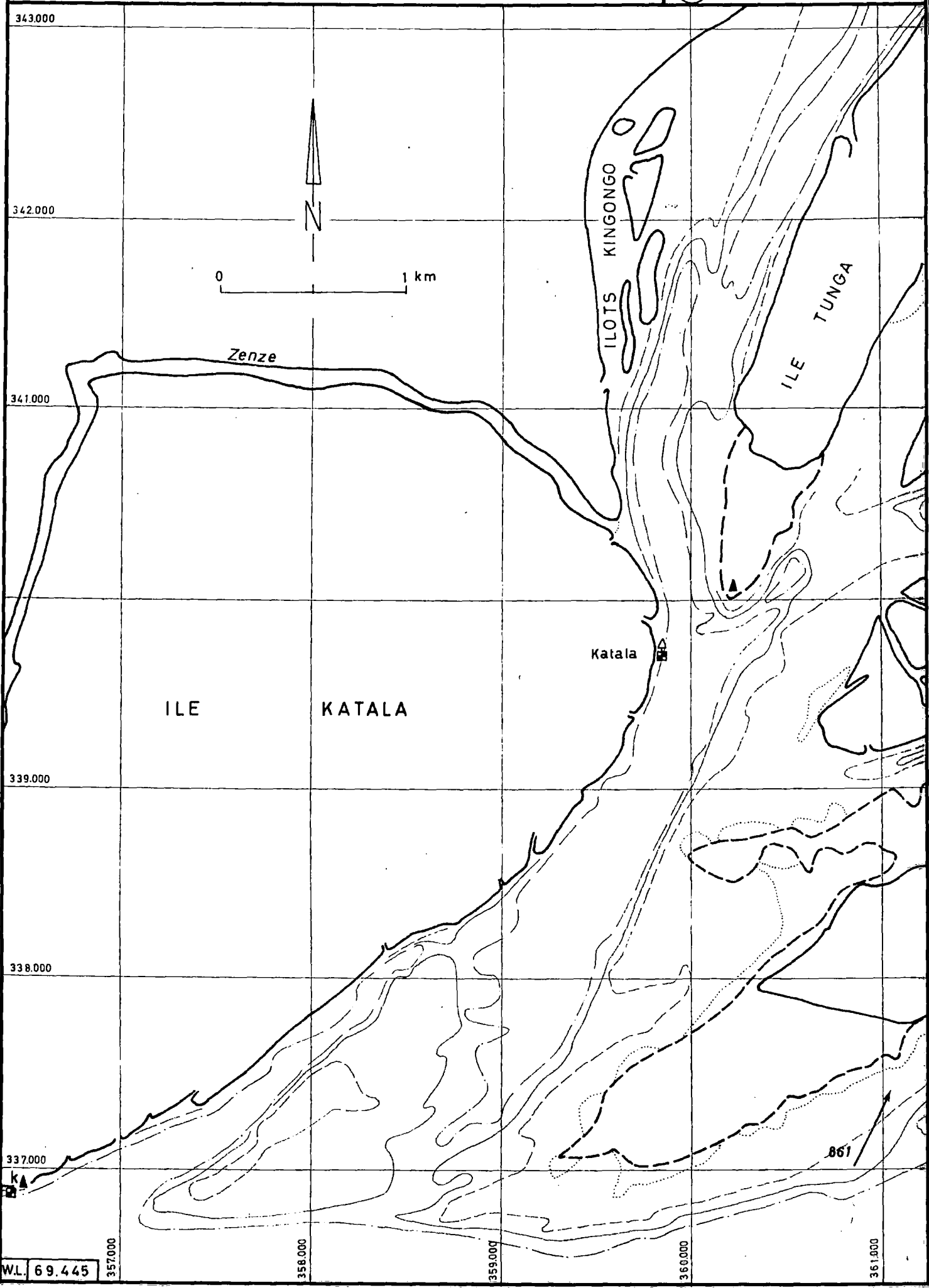


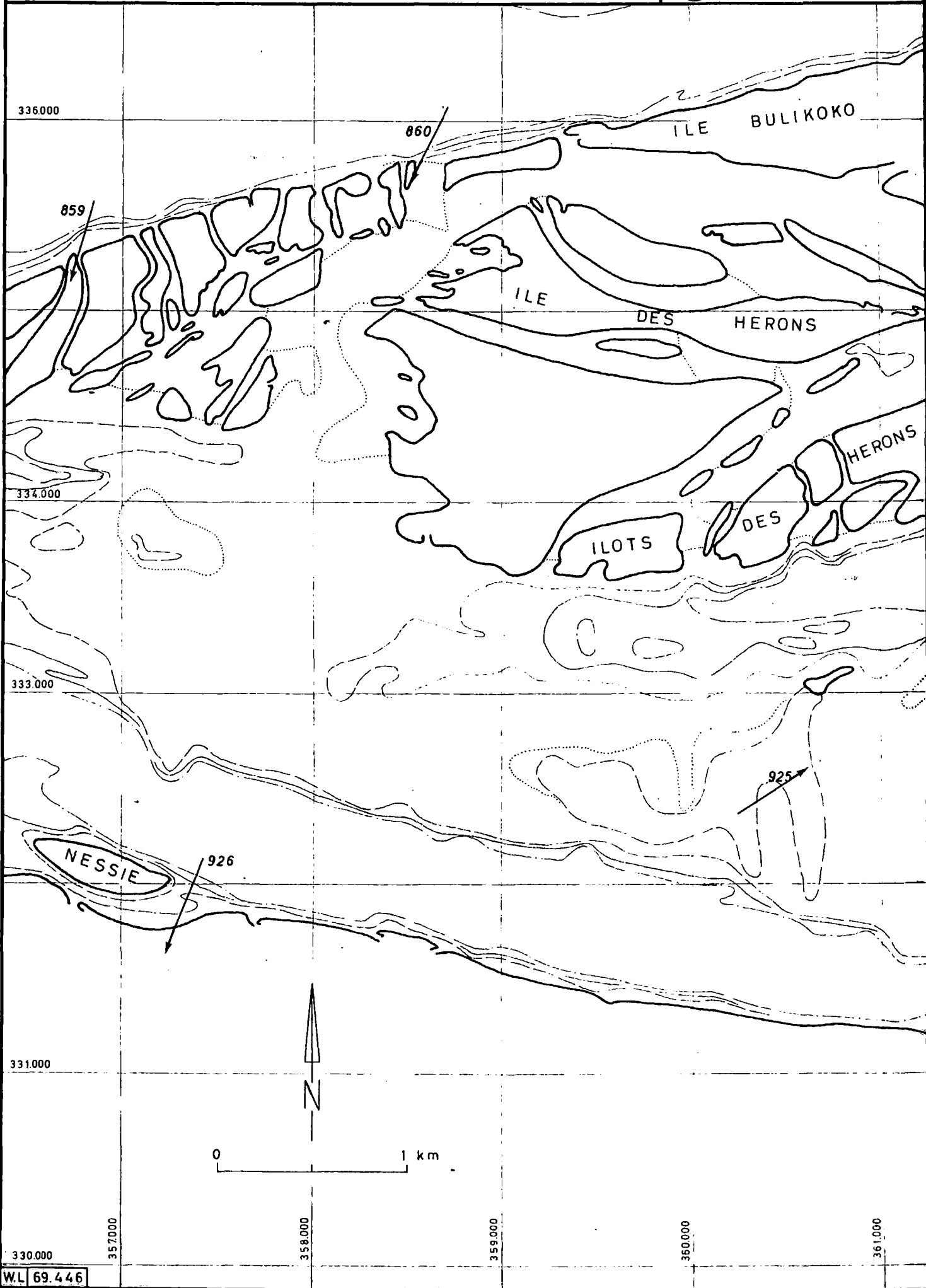


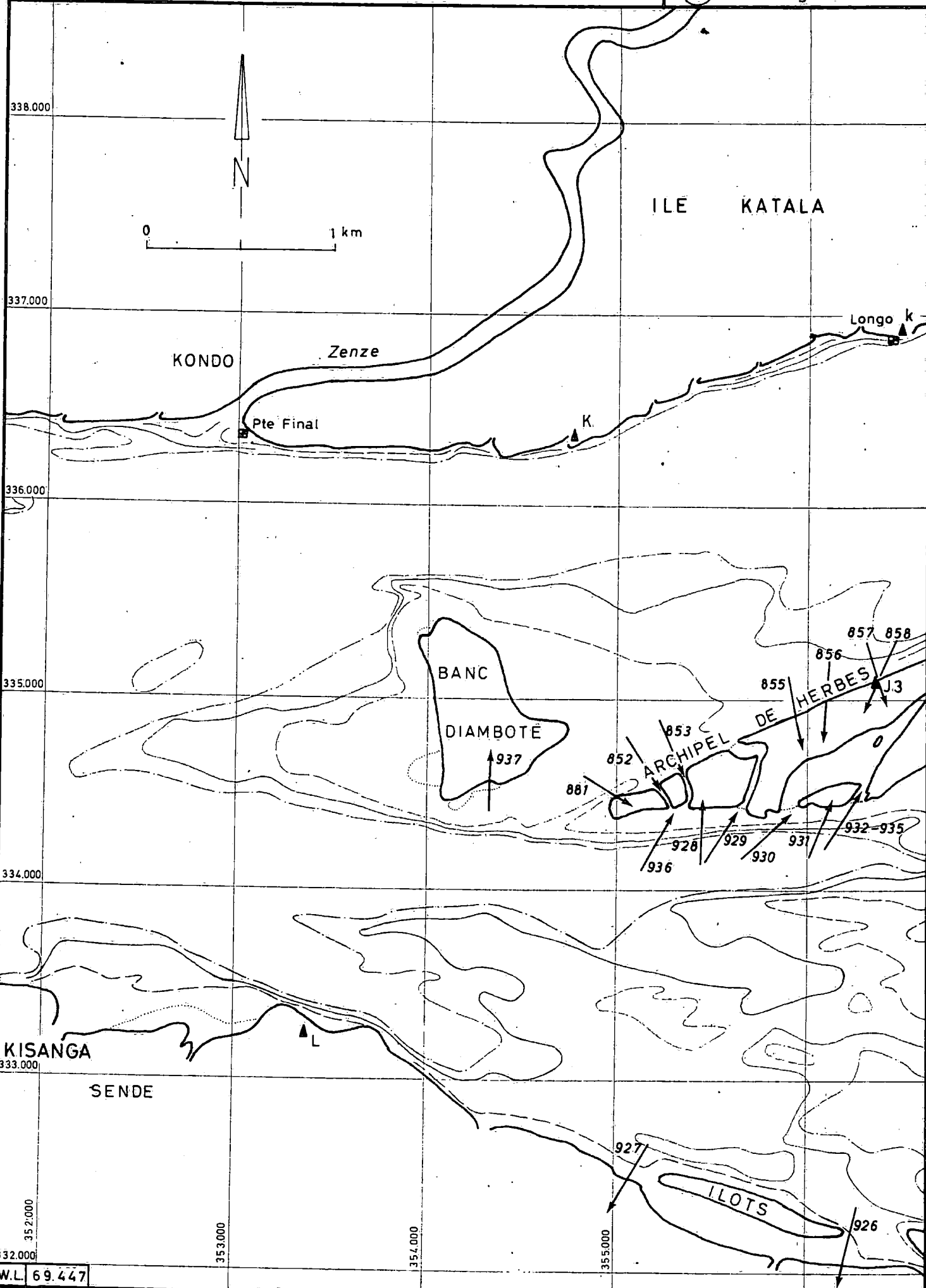


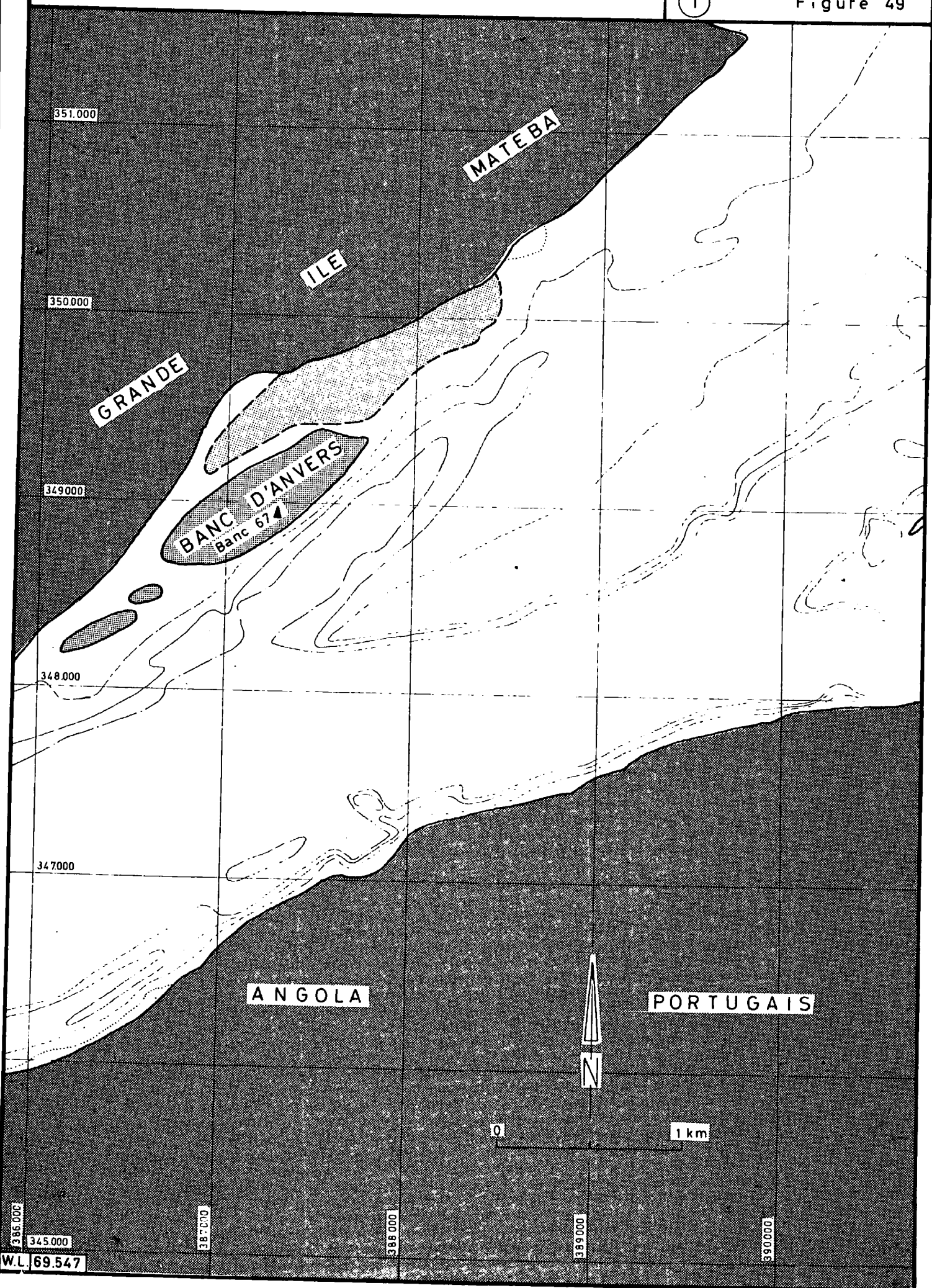
W.L. 69443

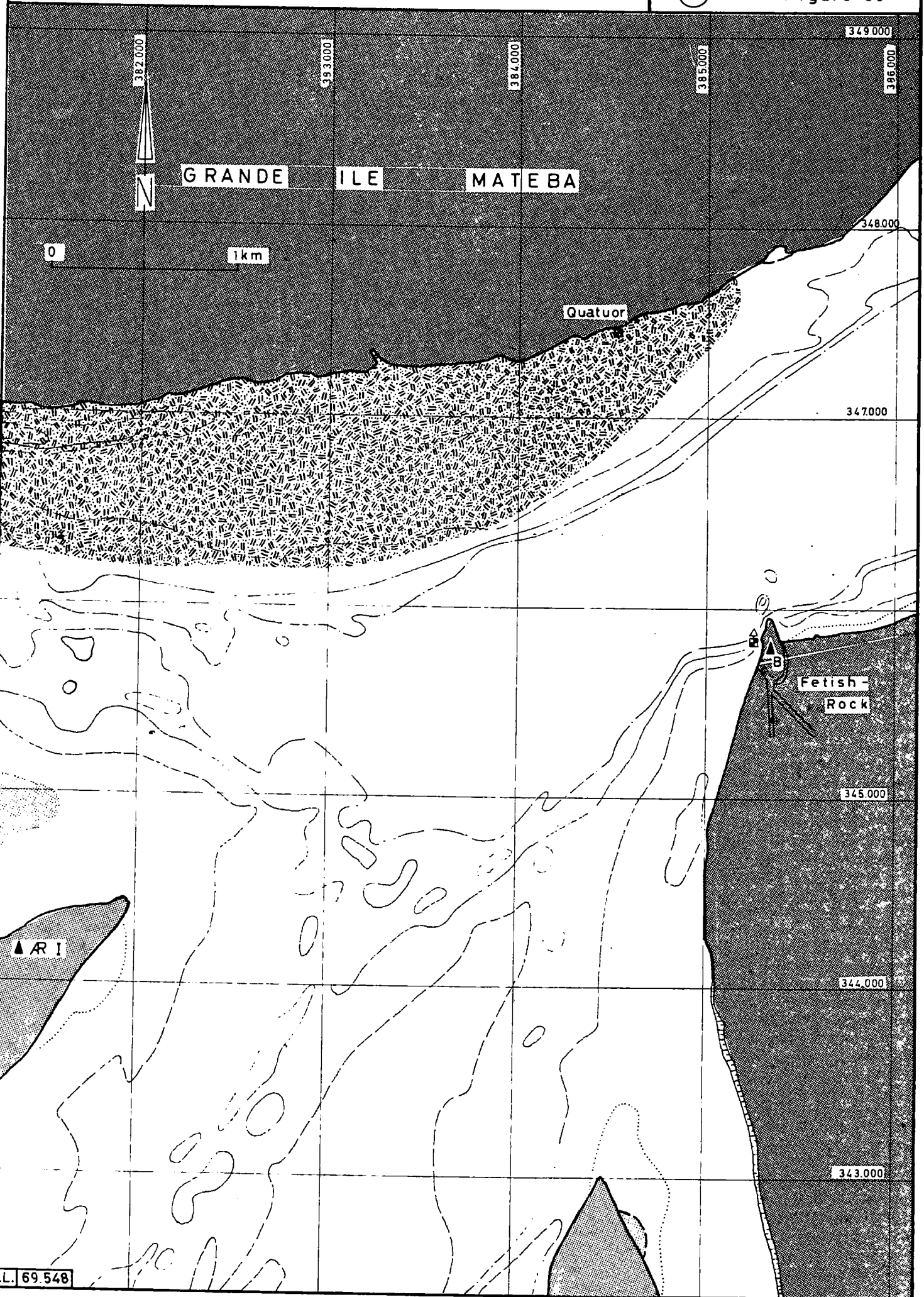


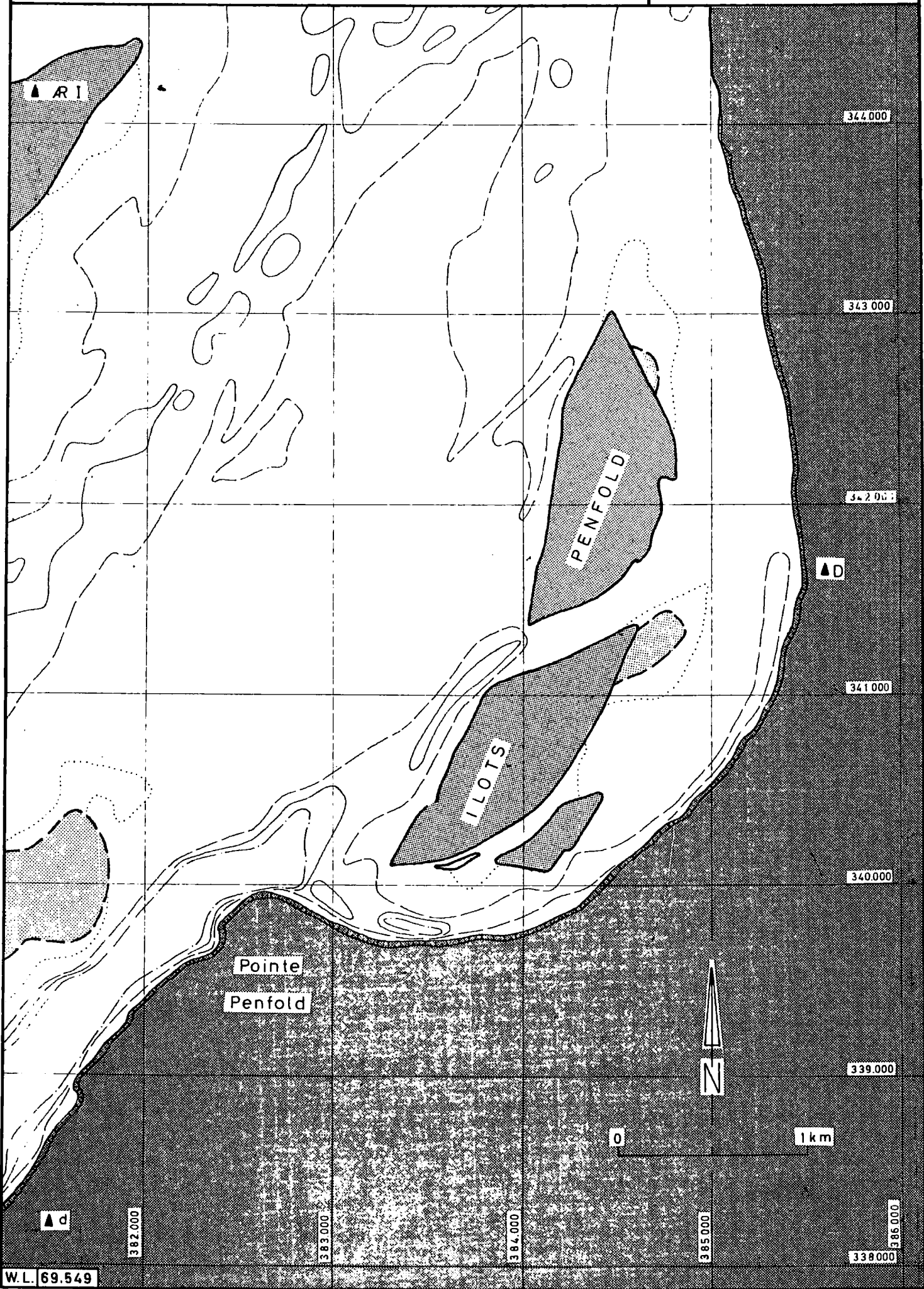


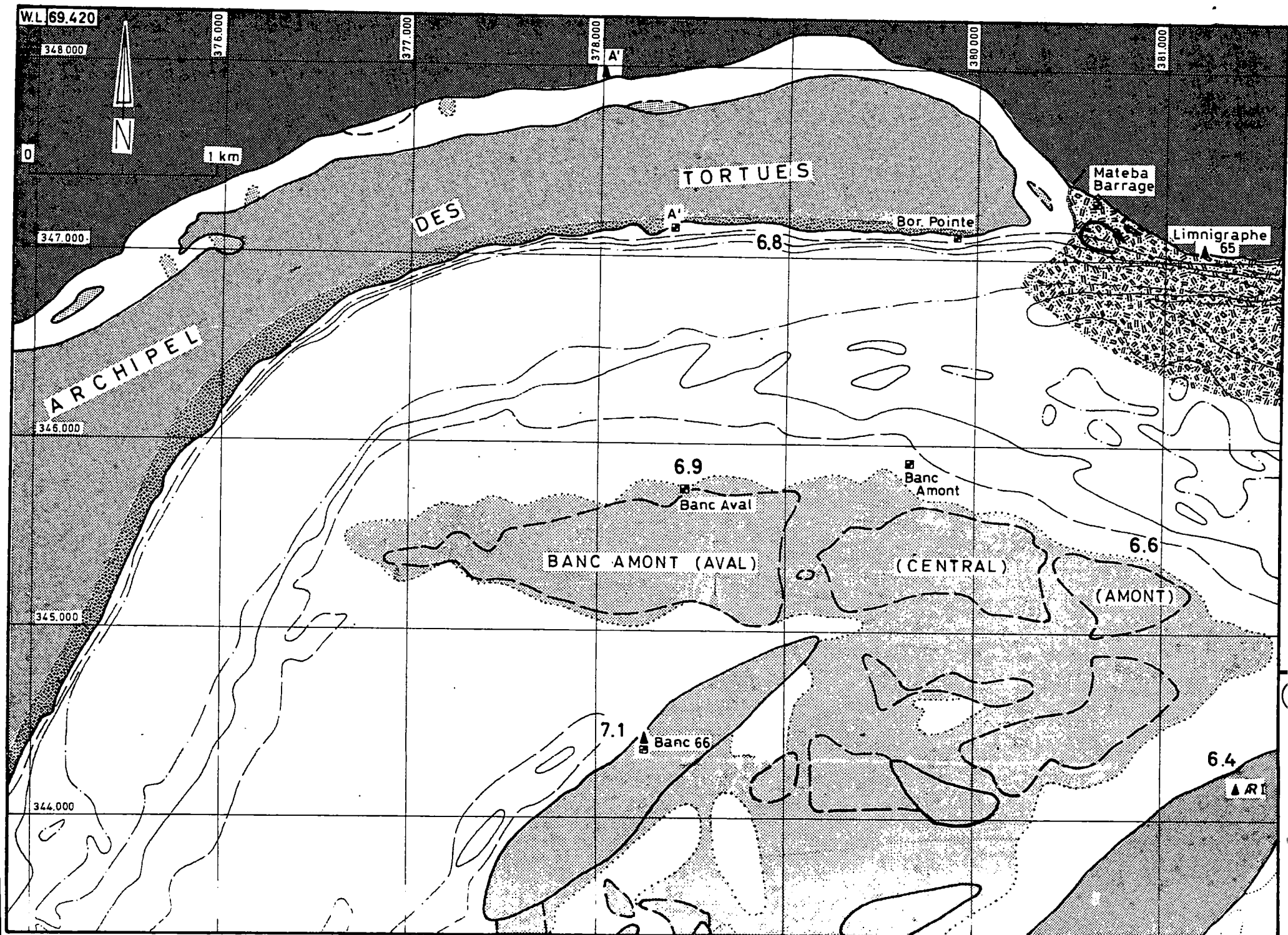


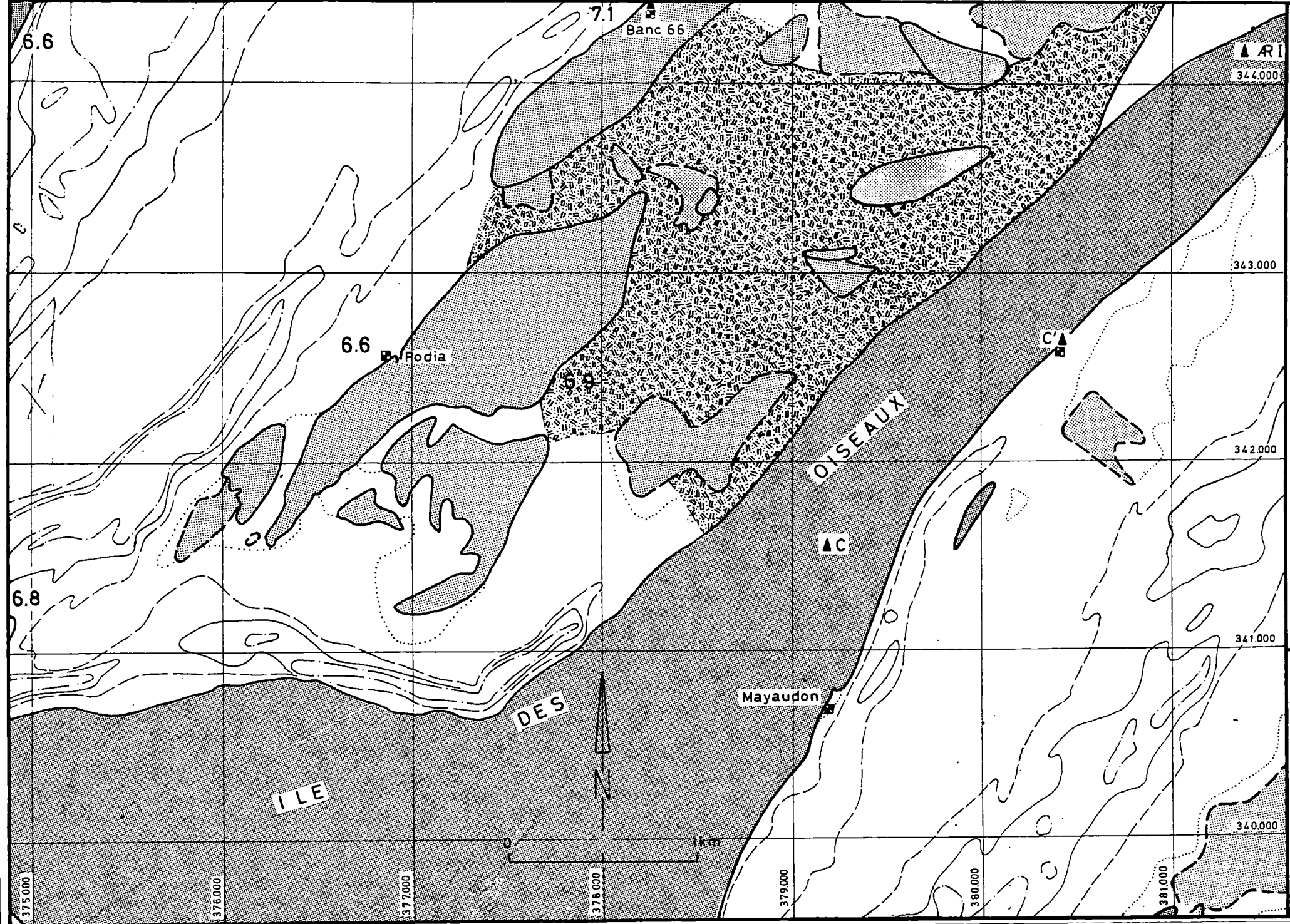






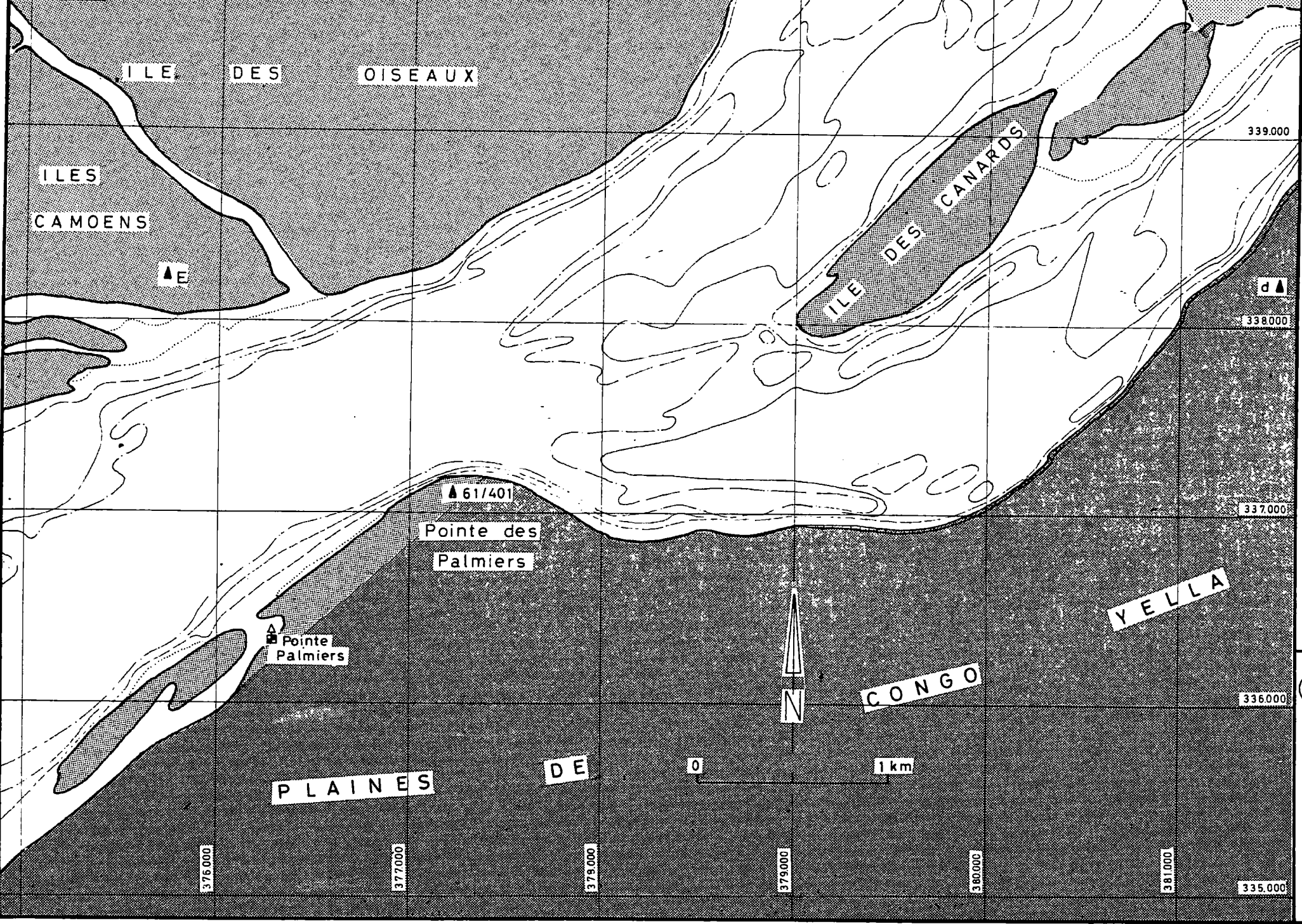






Nature du sol - Erosions et atterrissements
PH de l'eau - Détail des courants

W.L. 69.550

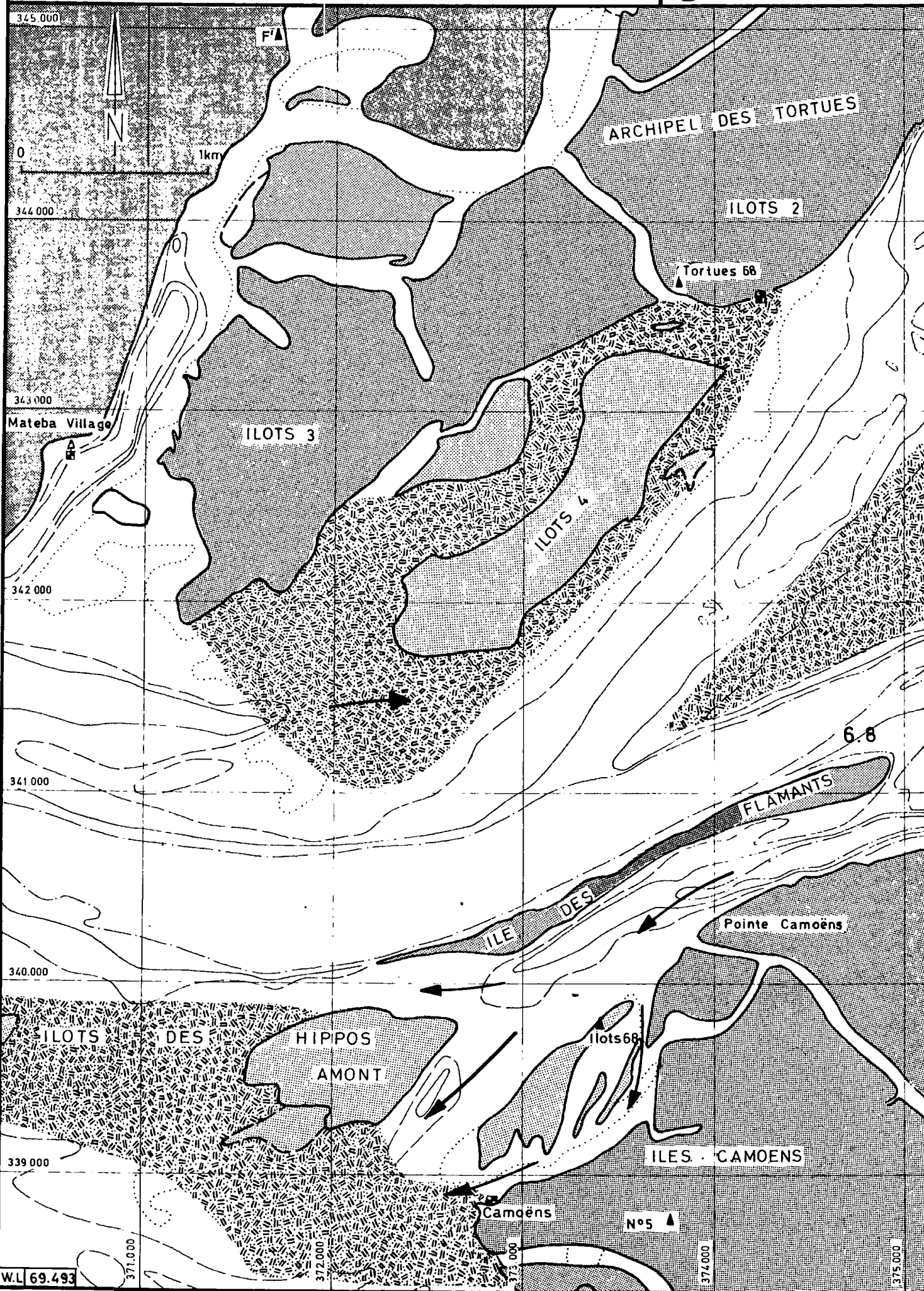


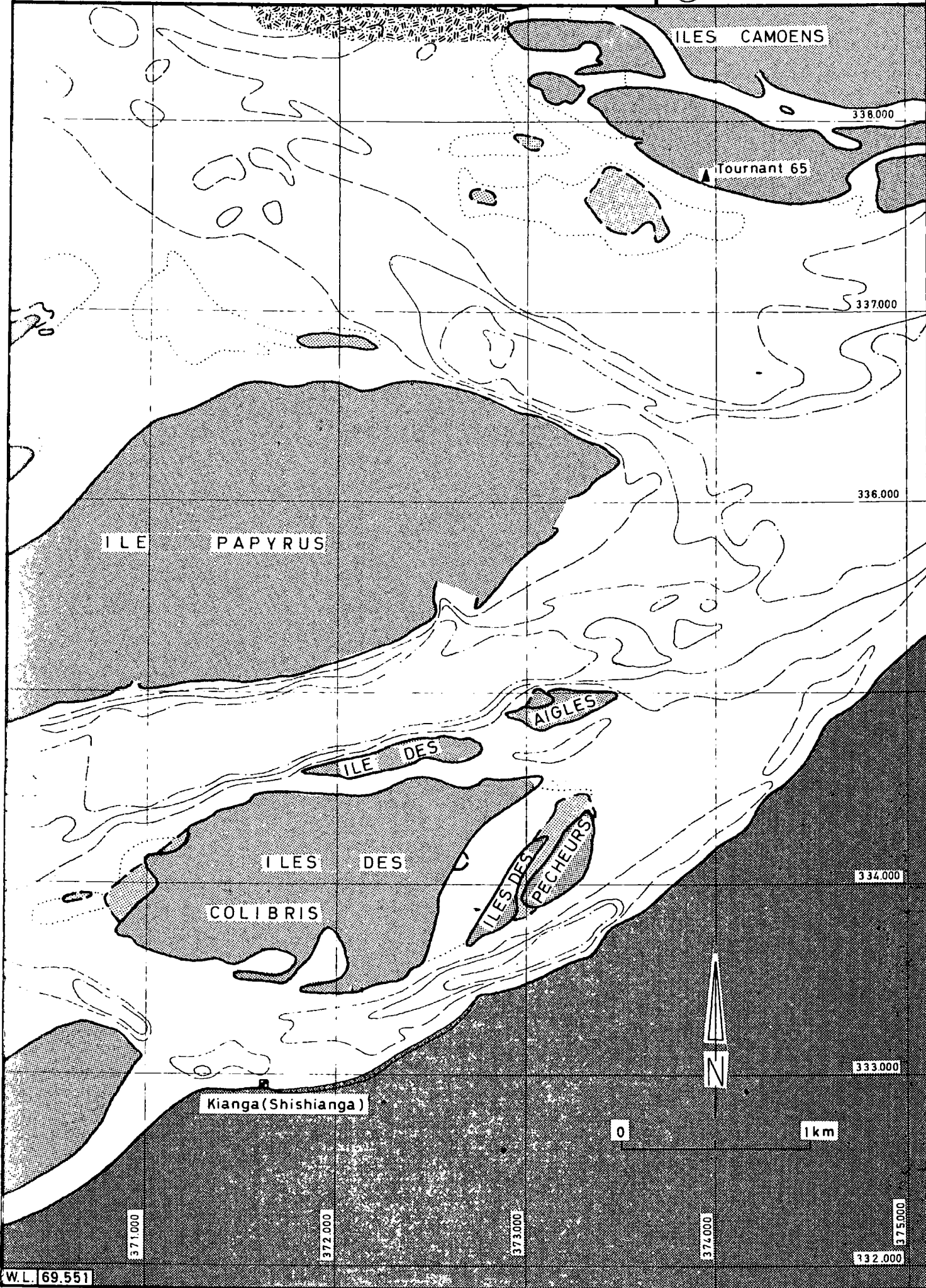
Nature du sol - Erosions et atterrissements
PH de l'eau - Détail des courants

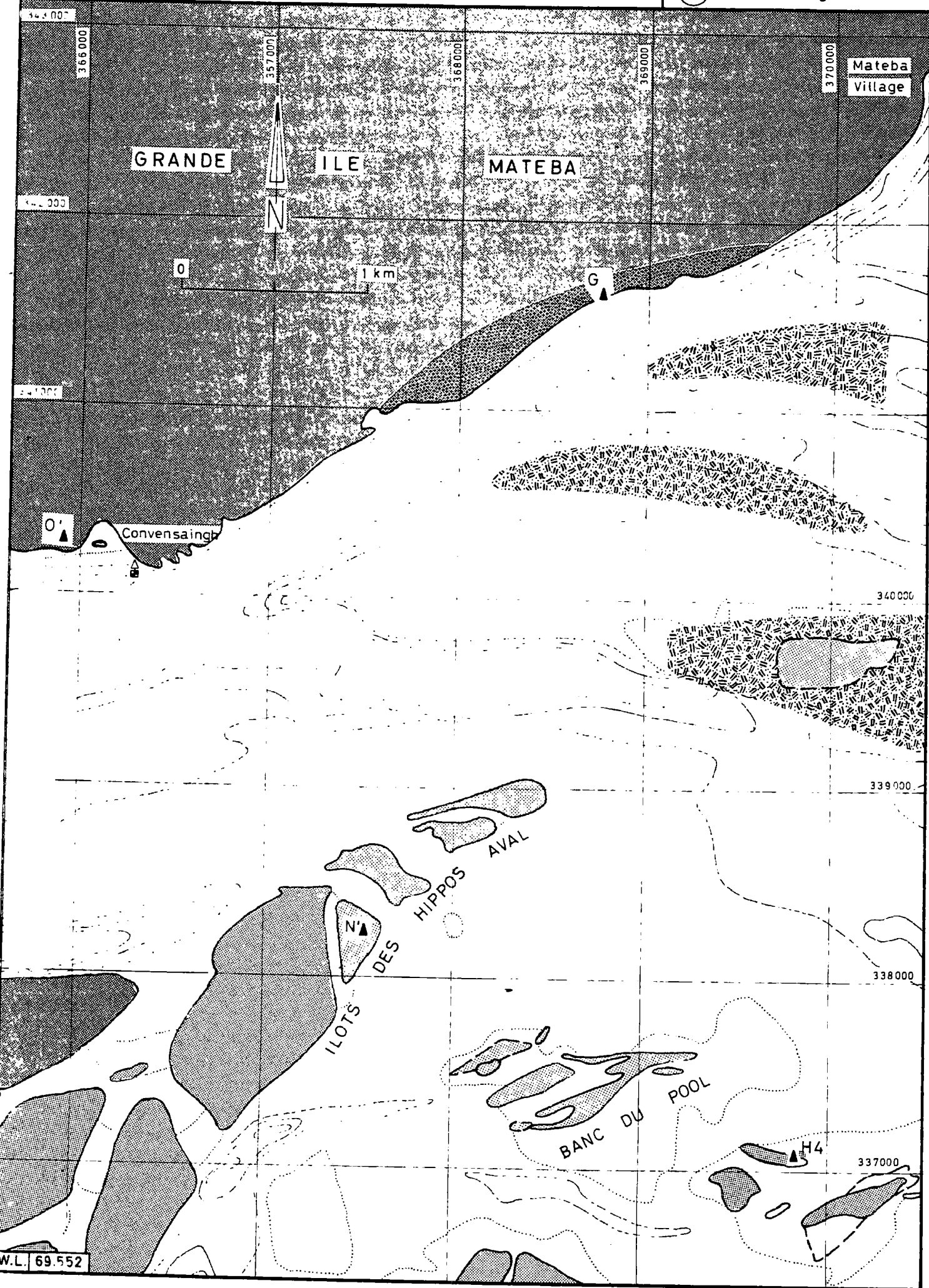
6

MOD. 255

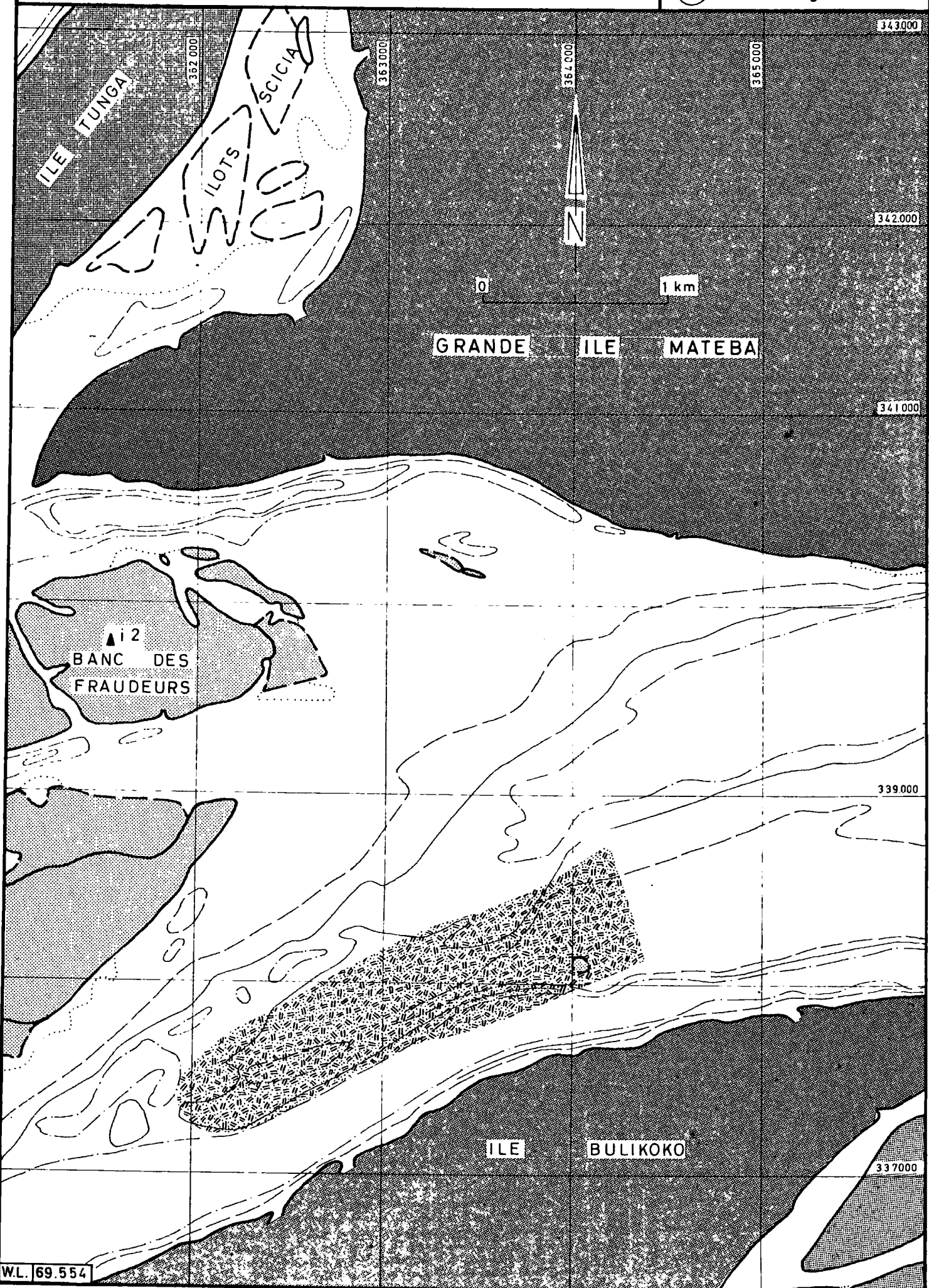
Figure 54

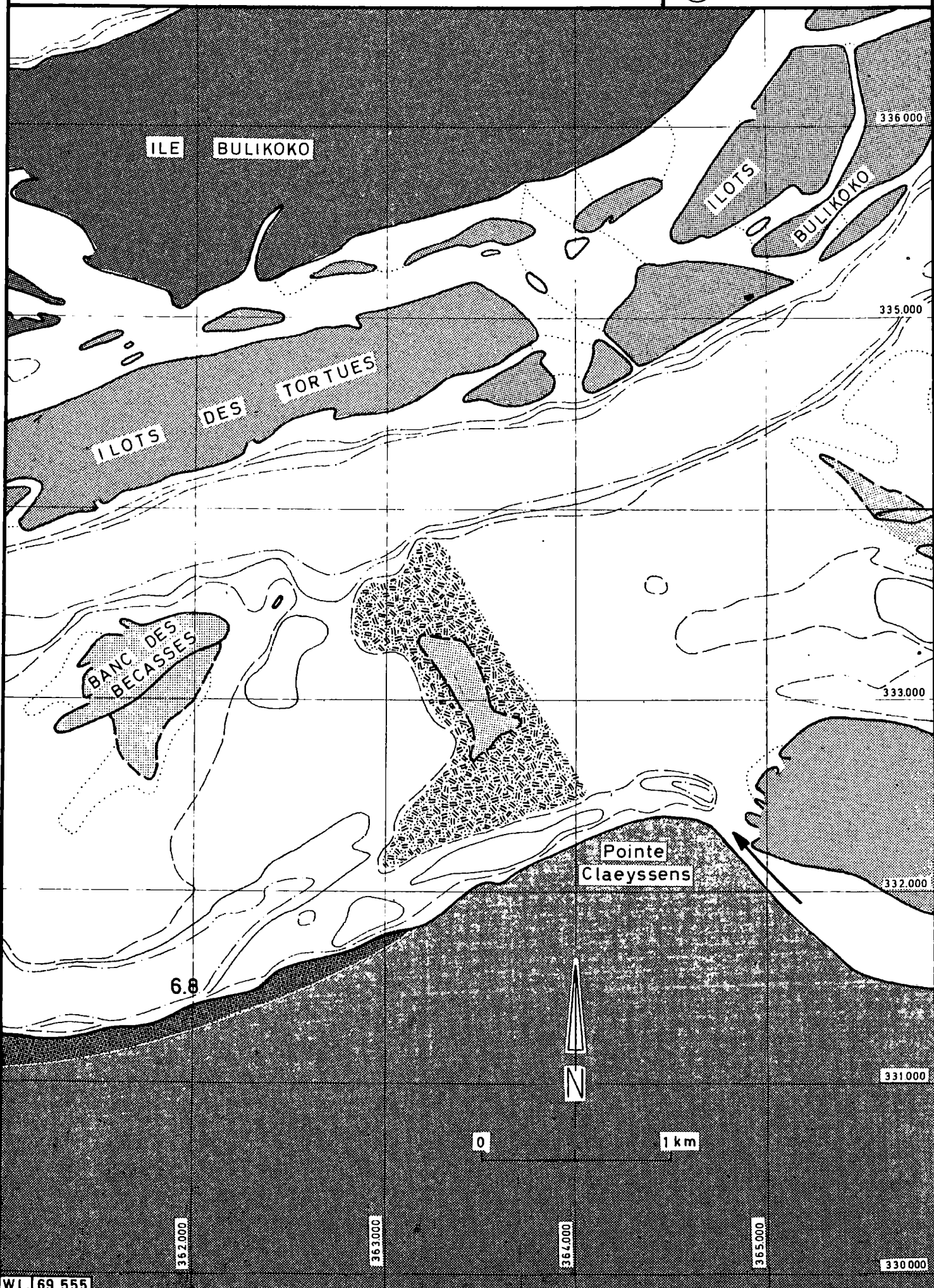


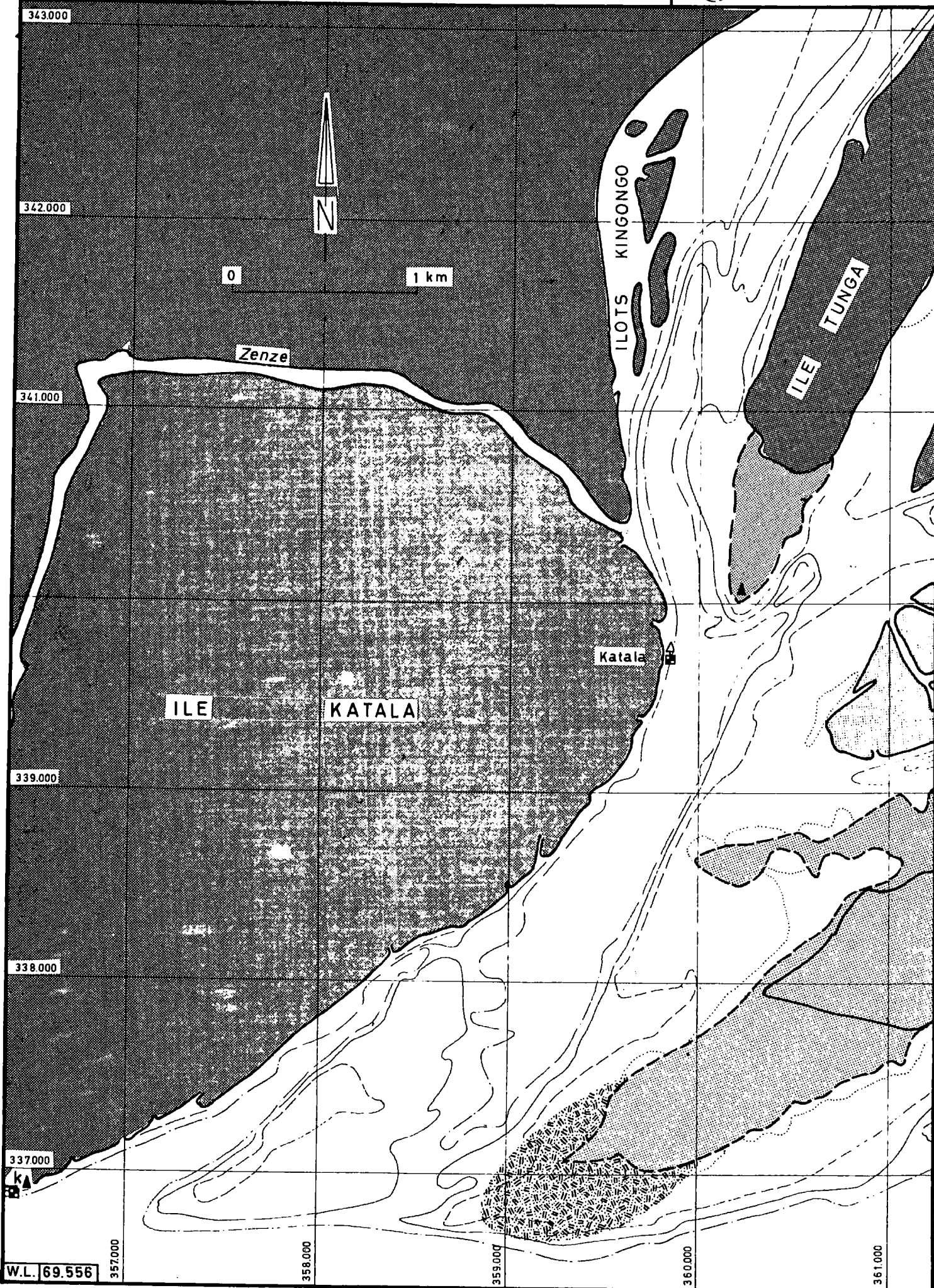


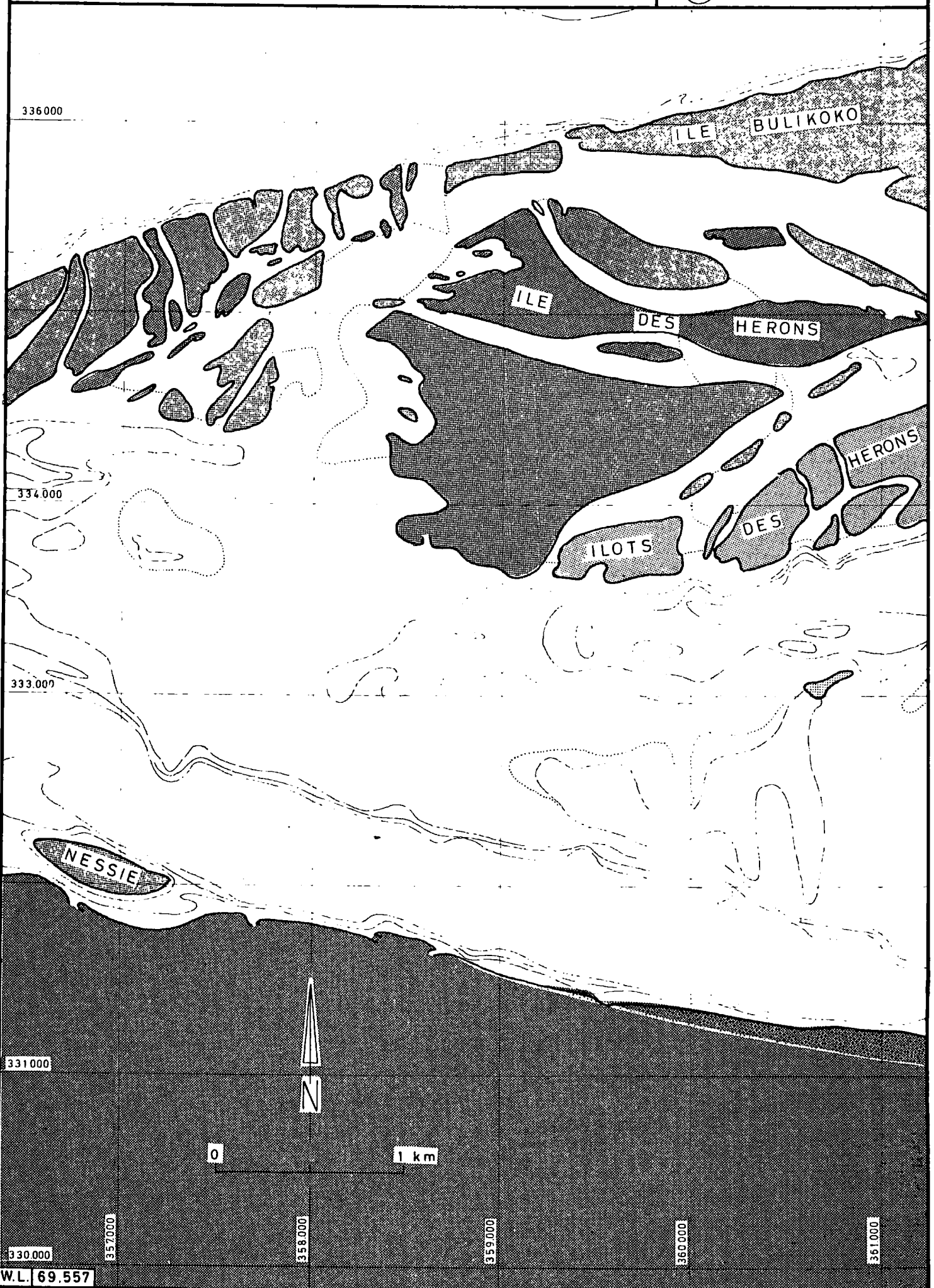


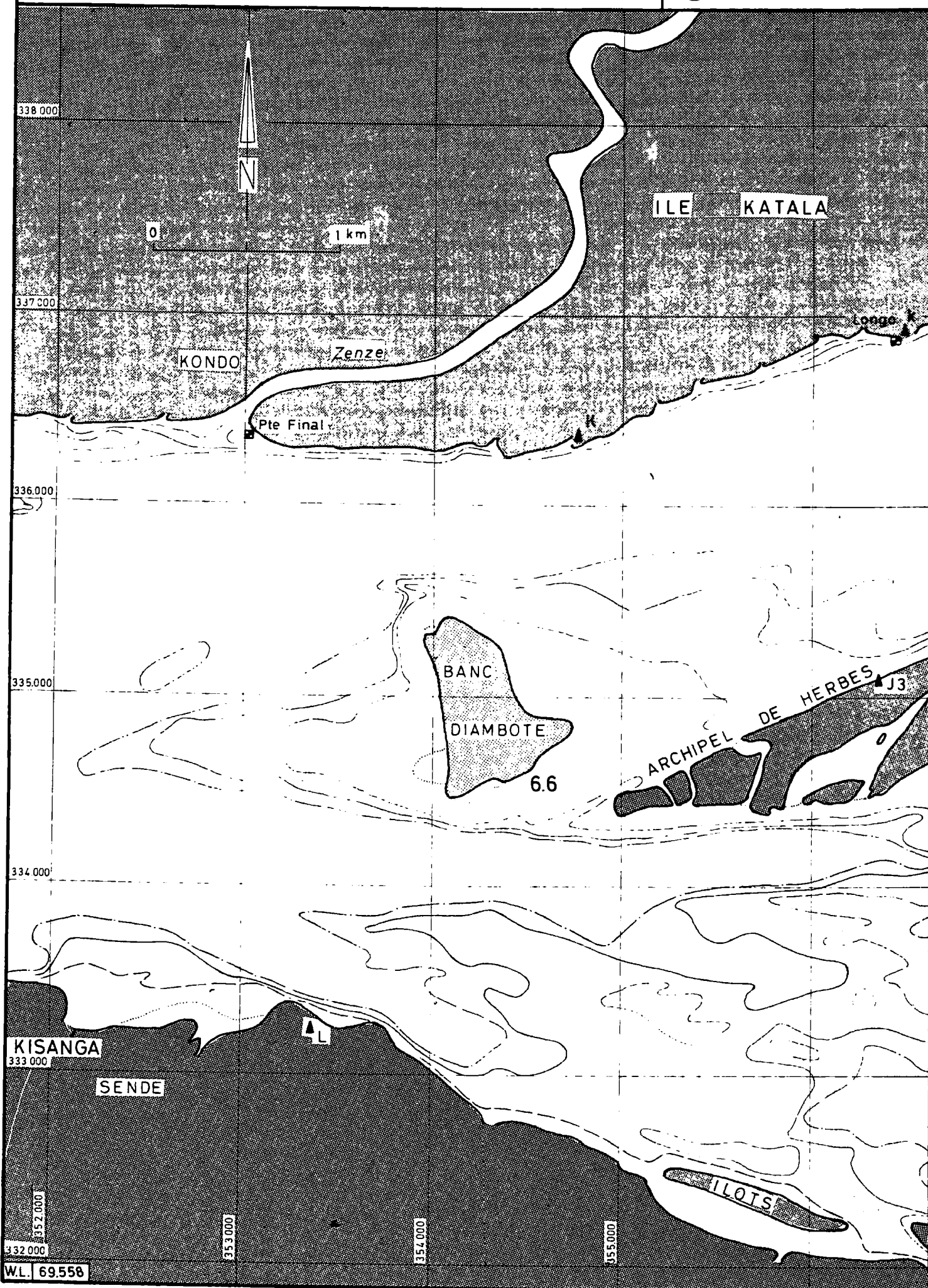


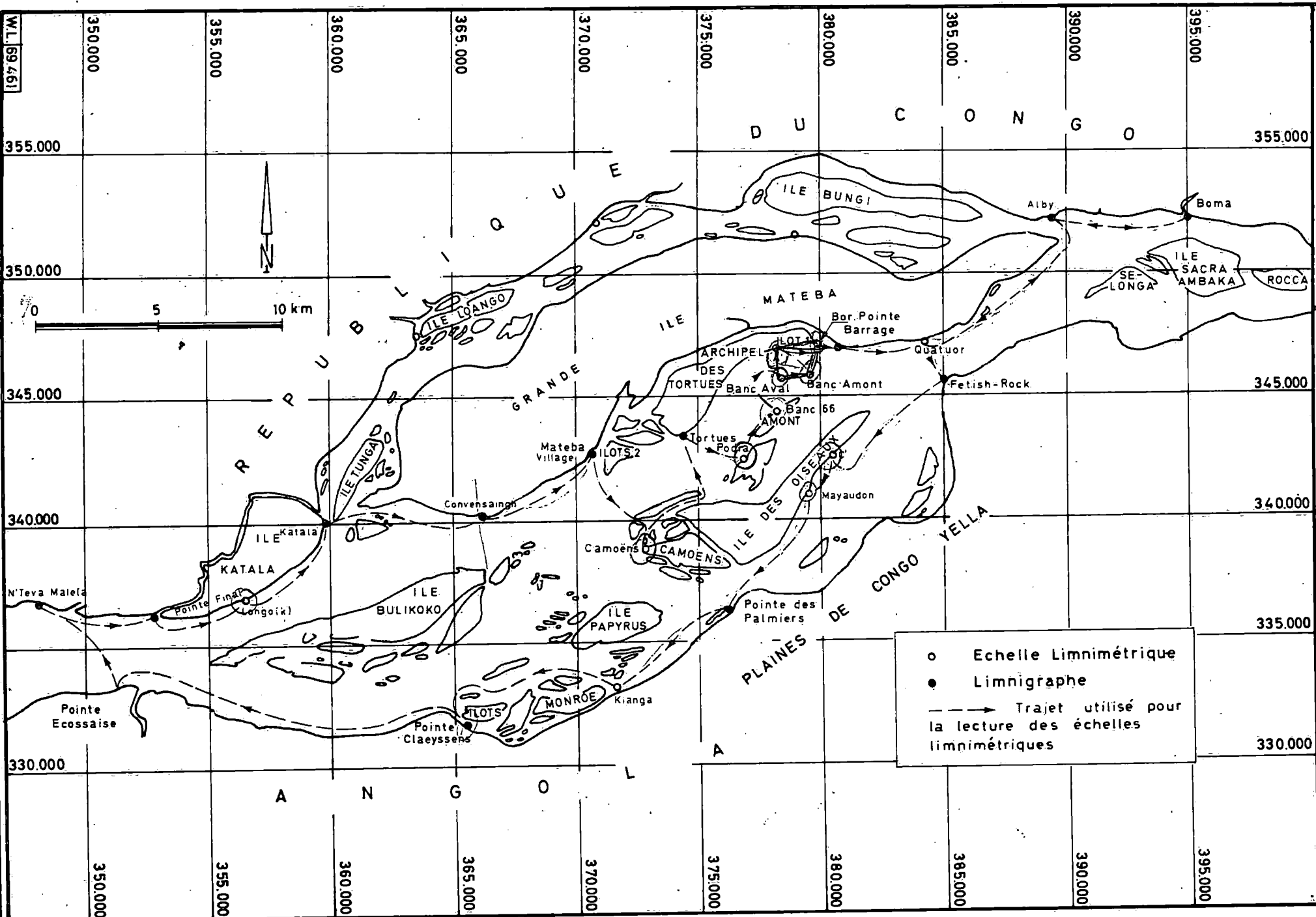




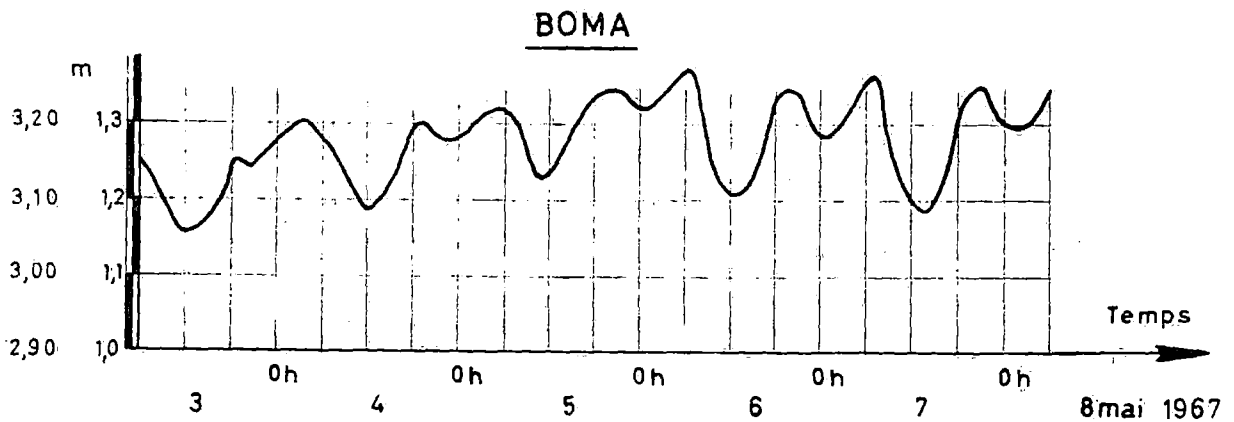
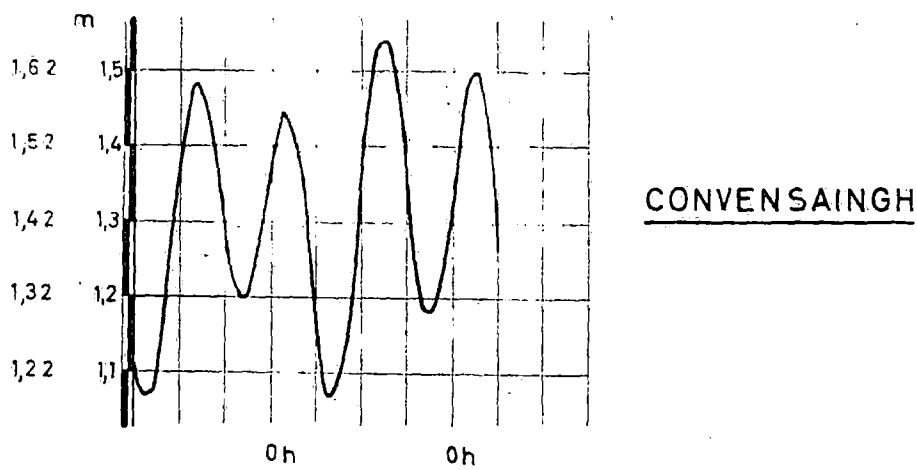
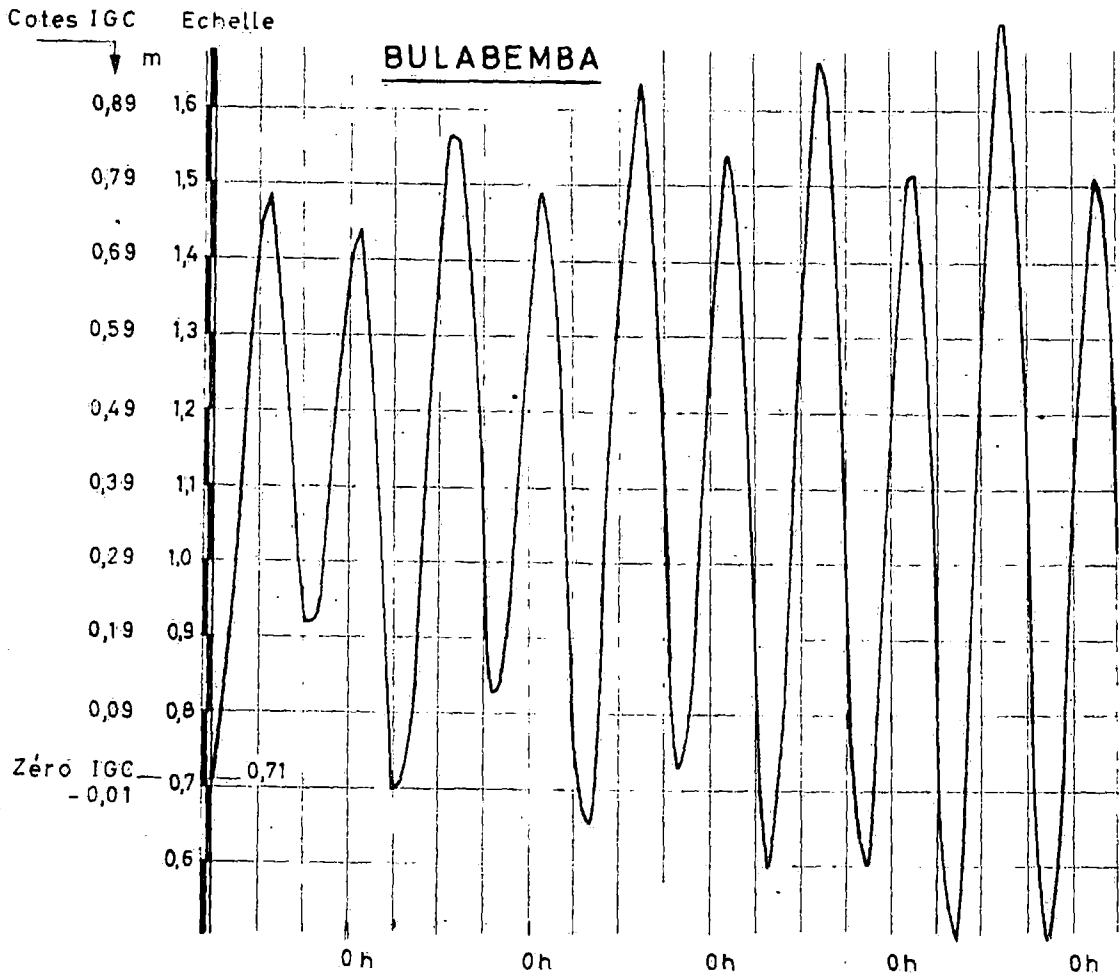


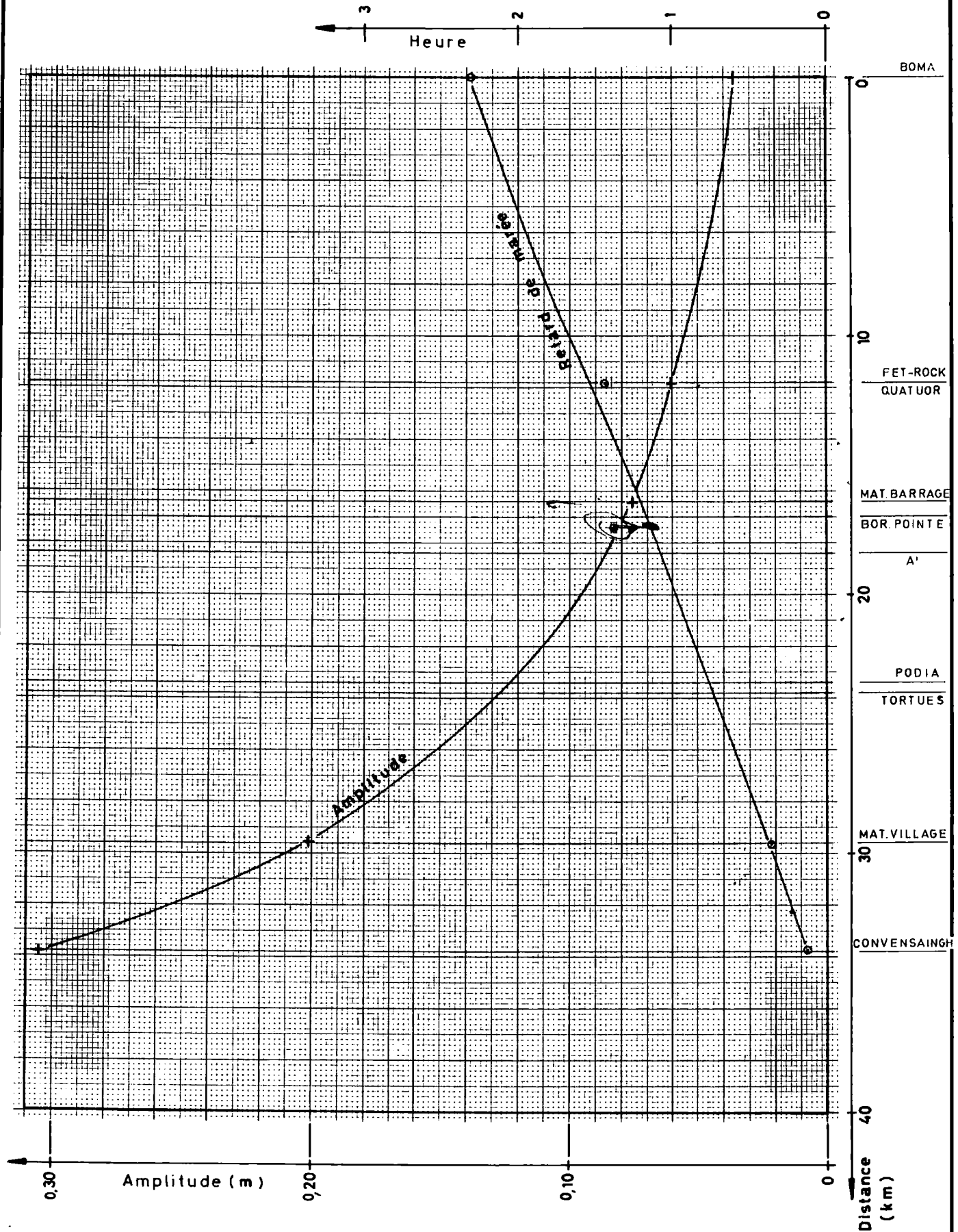


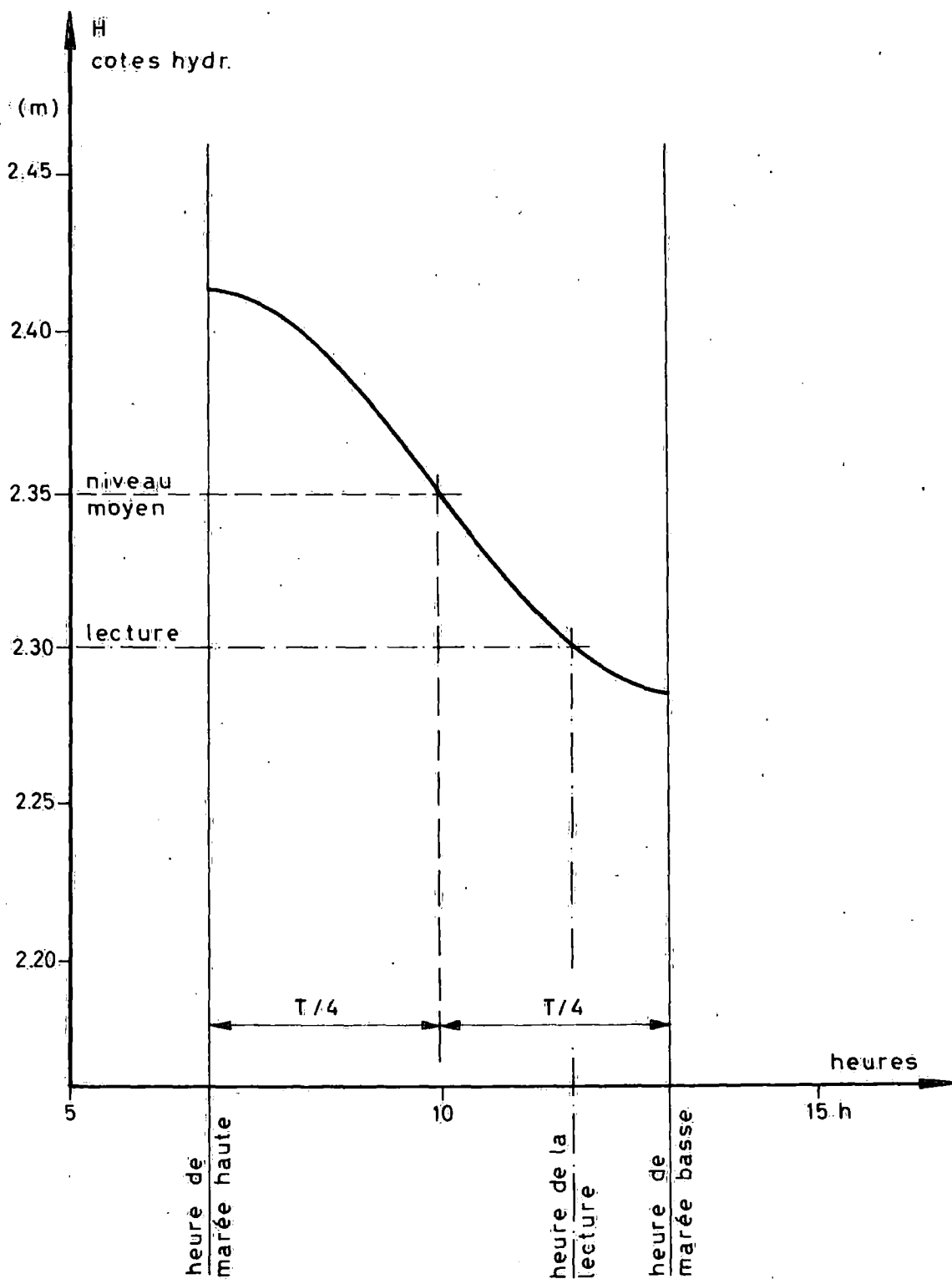




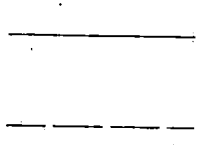
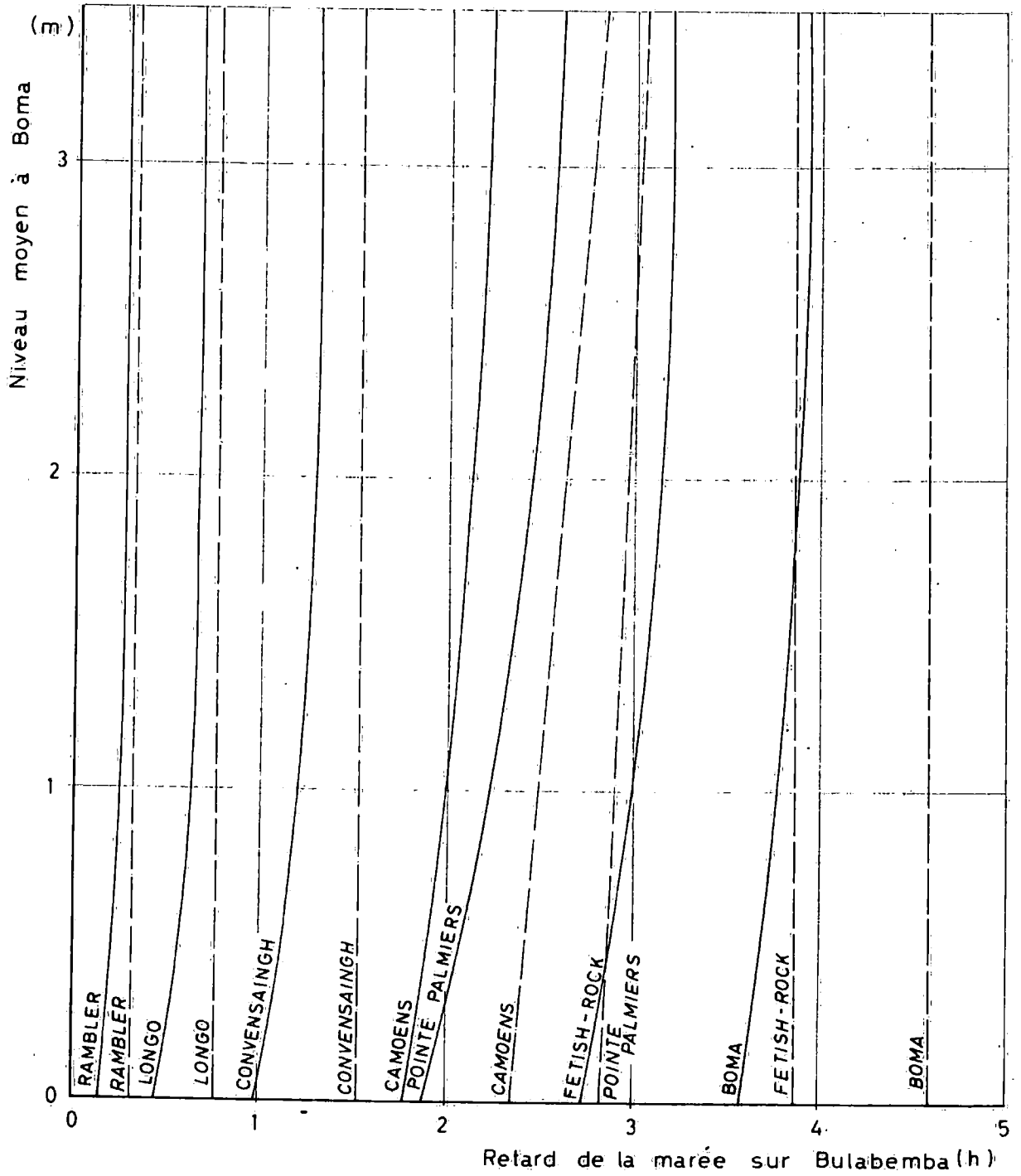
○ Echelle Limnimétrique
● Limnigraphe
---> Trajet utilisé pour
la lecture des échelles
limnimétriques





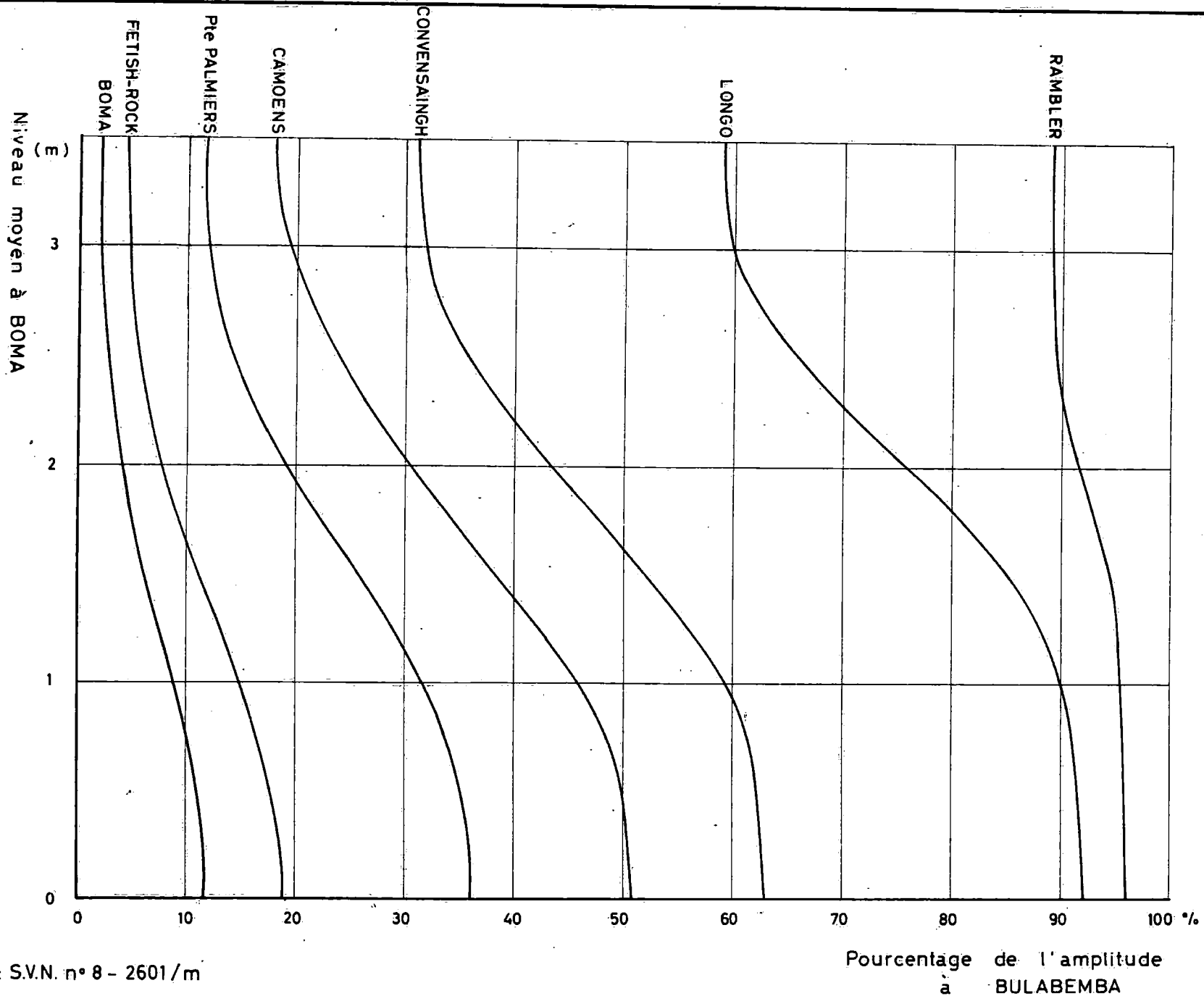


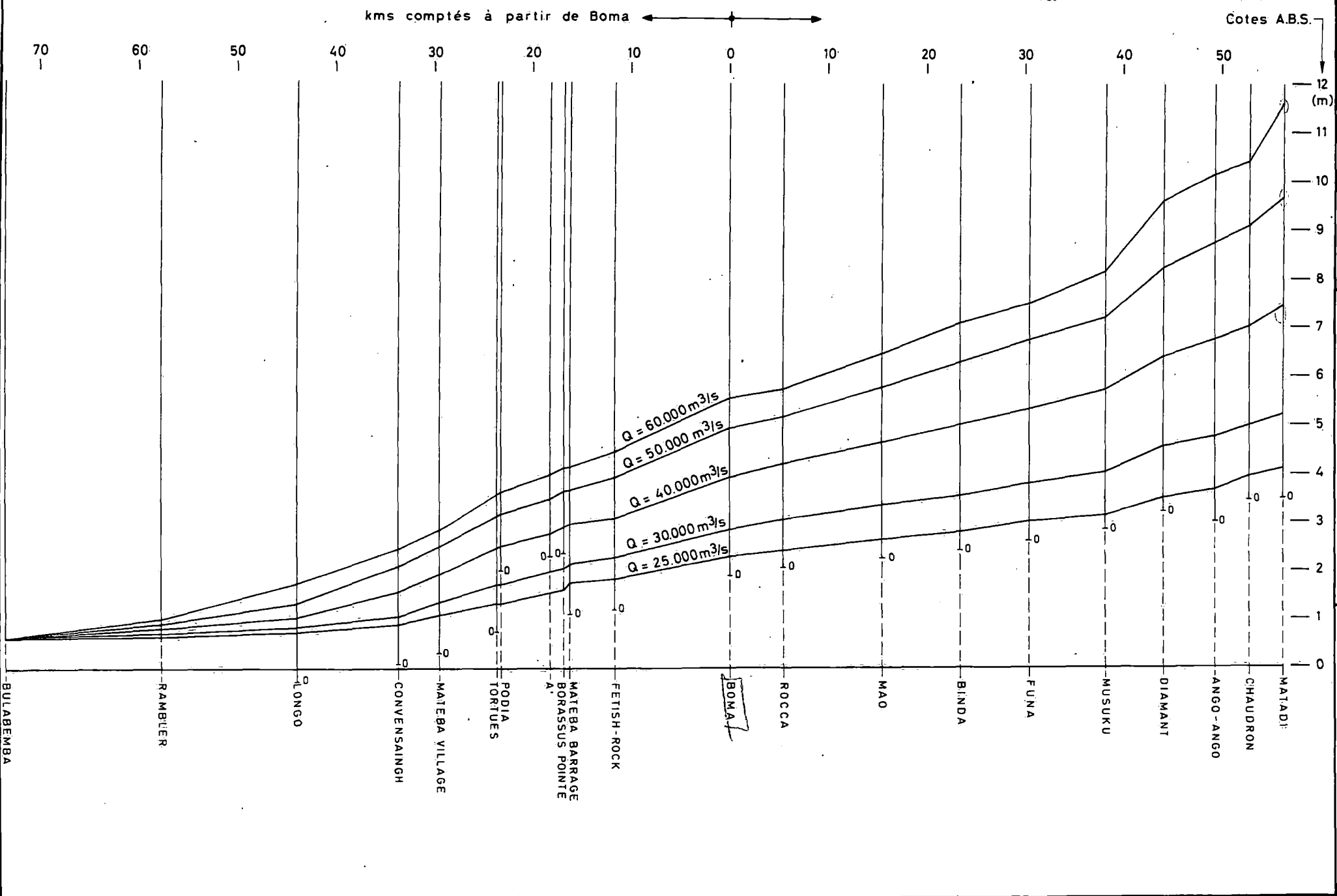
Réf.: n°8-2602/m (SVN)



Retard de la Marée Haute à l'endroit indiqué sur l'observation de la Marée Haute à Bulabemba.

Retard de la Marée Basse à l'endroit indiqué sur l'observation de la Marée Basse à Bulabemba.





Réf. - S.V.N. BOMA {n°8-2601/1e
- L.R.H. {n°8-2602/1e

Lignes d'eau nature
Bulabemba - Matadi

MOD. 255

Figure 70

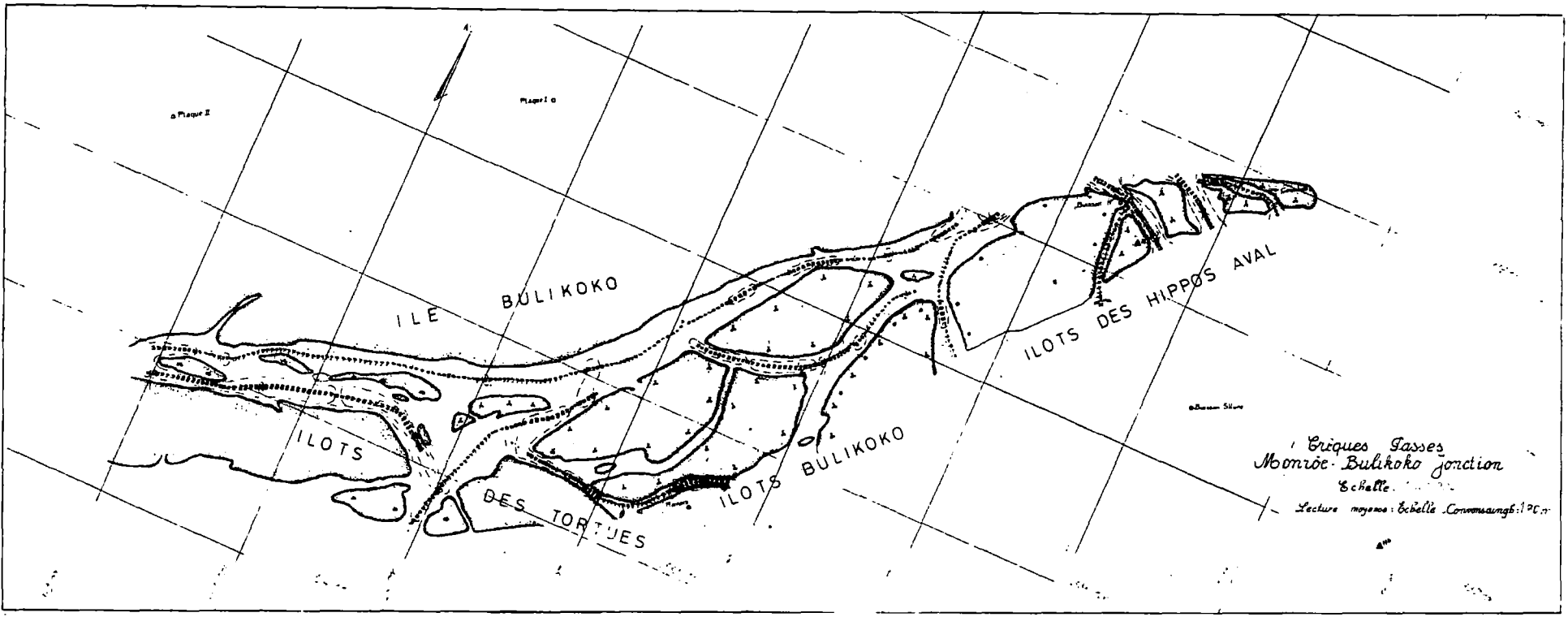
W.L. 69.451

BIEF MARITIME
DU FLEUVE CONGO
REGION DIVAGANTE

LEVE DES CRIQUES ET
PASSES SECONDAIRES DE
MONROE - BULIKOKO JONCTION

MOD 255

Figure 71



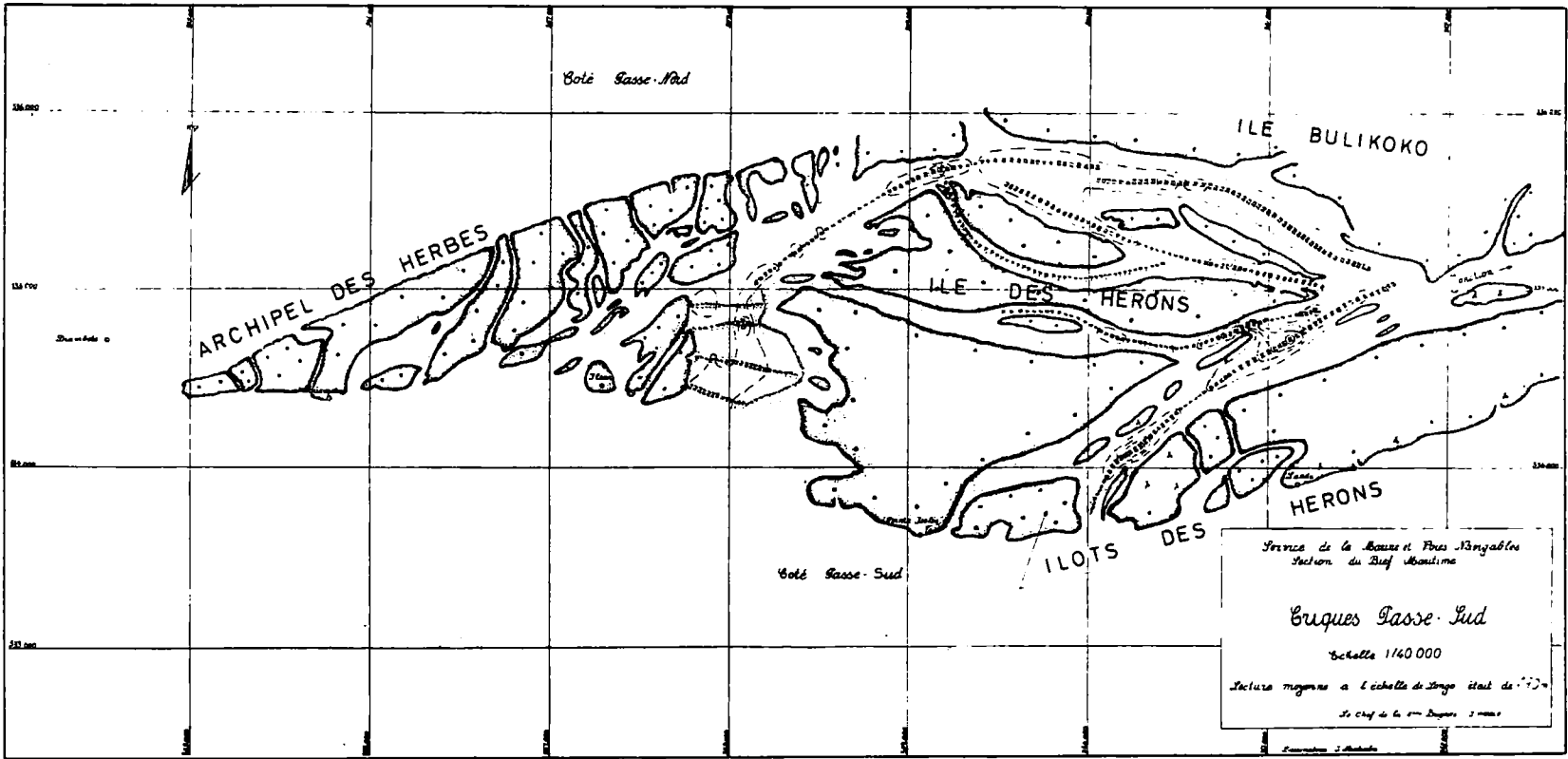
W.L. 69.450

BIEF MARITIME
DU FLEUVE CONGO
REGION DIVAGANTE

LEVE DES CRIQUES
ET PASSES SECONDAIRES
DE PASSE SUD

MOD.255

Figure 72



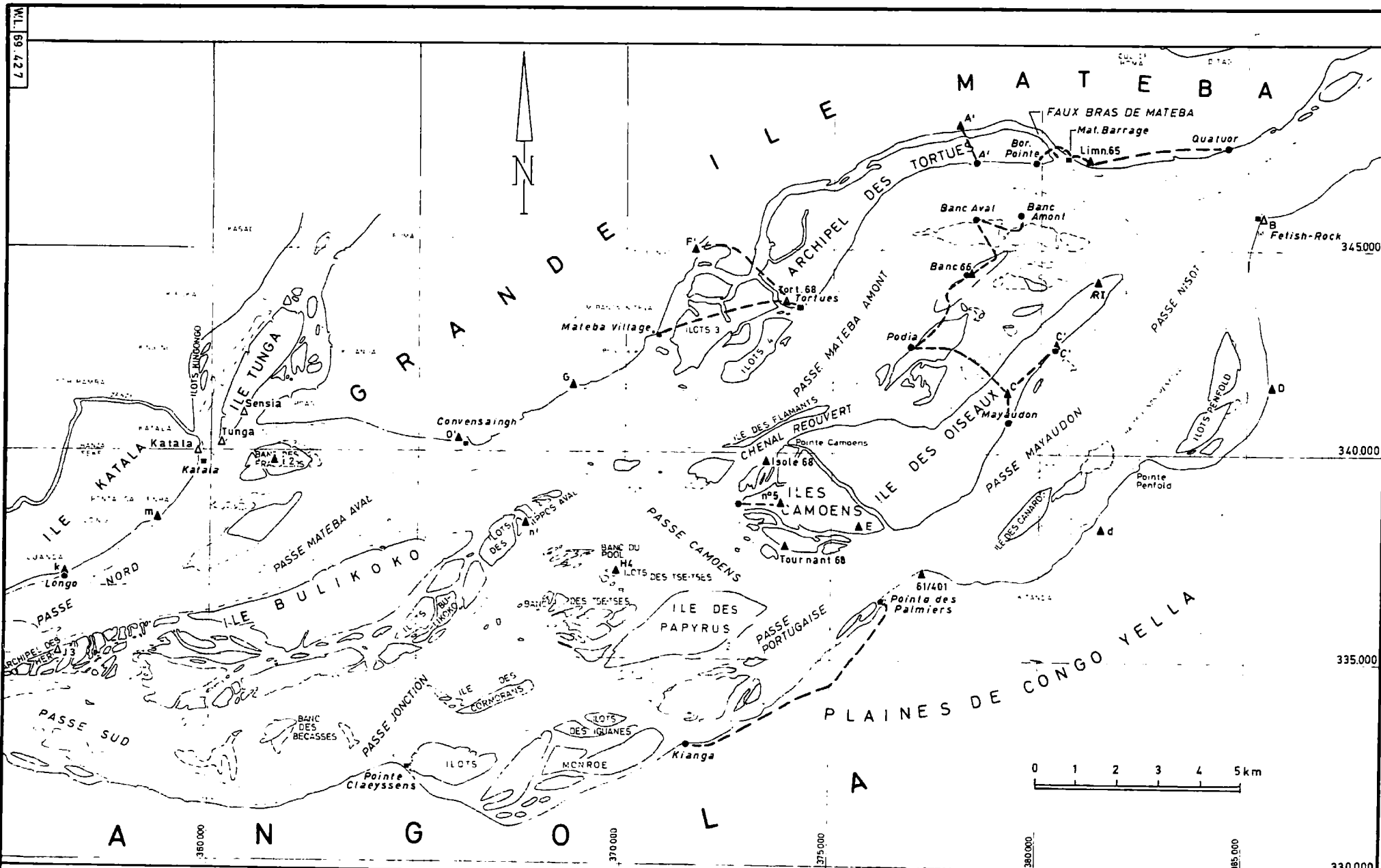
M.L. 69.427

BIEF MARITIME DU
FLEUVE CONGO
REGION DIVAGANTE

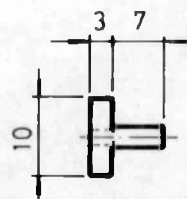
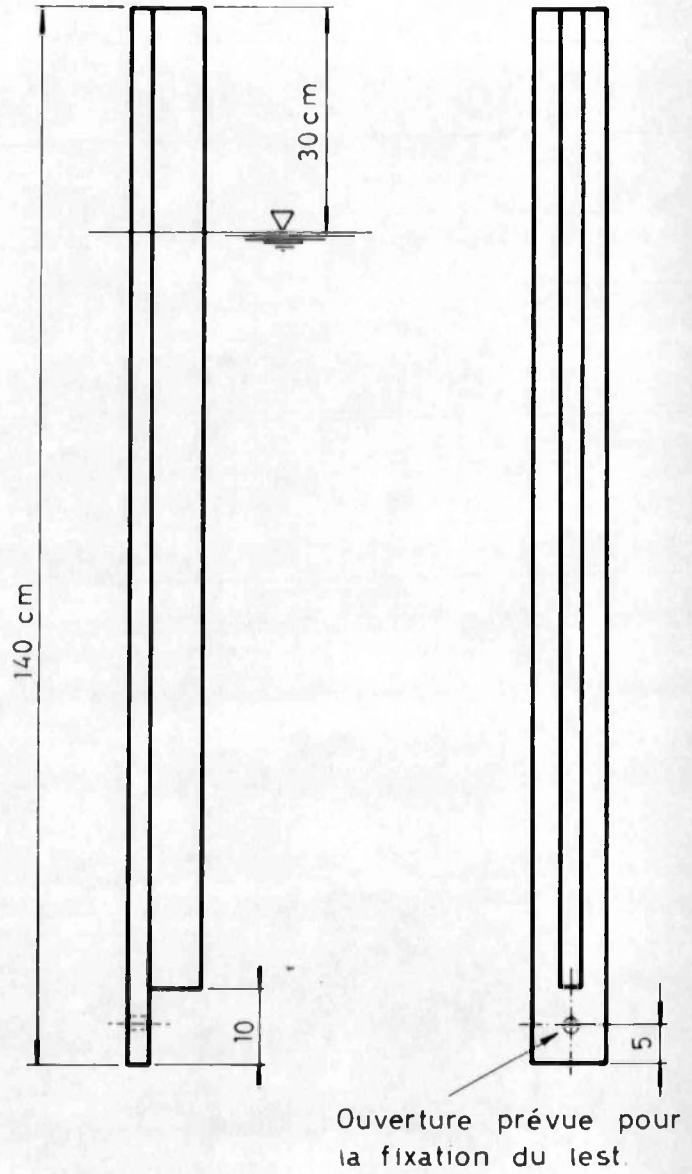
NIVELLEMENTS DES
ECHELLES — 1968

MOD. 255

Figure 73



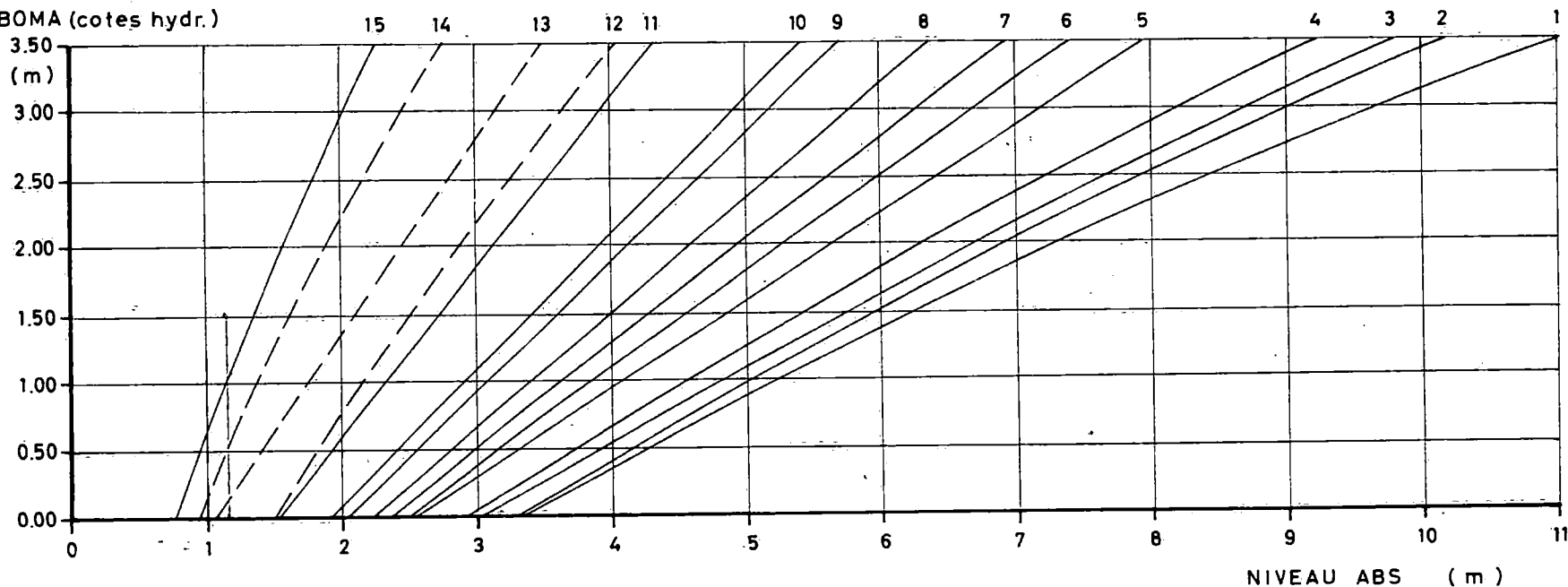
- ▲ Point Triangulé avec Pyramide
- Limnigraphe
- Echelle Limnimétrique
- Tracé de nivellement



- | | | |
|----------------|----------------|--------------------|
| 1. Matadi | 6. Fuma - Fuma | 11. Fetish - Rock |
| 2. Chaudron | 7. Binda | 12. Mateba Barrage |
| 3. Ango - Ango | 8. Mao | 13. Tortues |
| 4. Diamant | 9. Rocca | 14. Mateba Village |
| 5. Musuku | 10. Boma | 15. Convensaingh |

NIVEAU MOYEN

A BOMA (cotes hydr.)

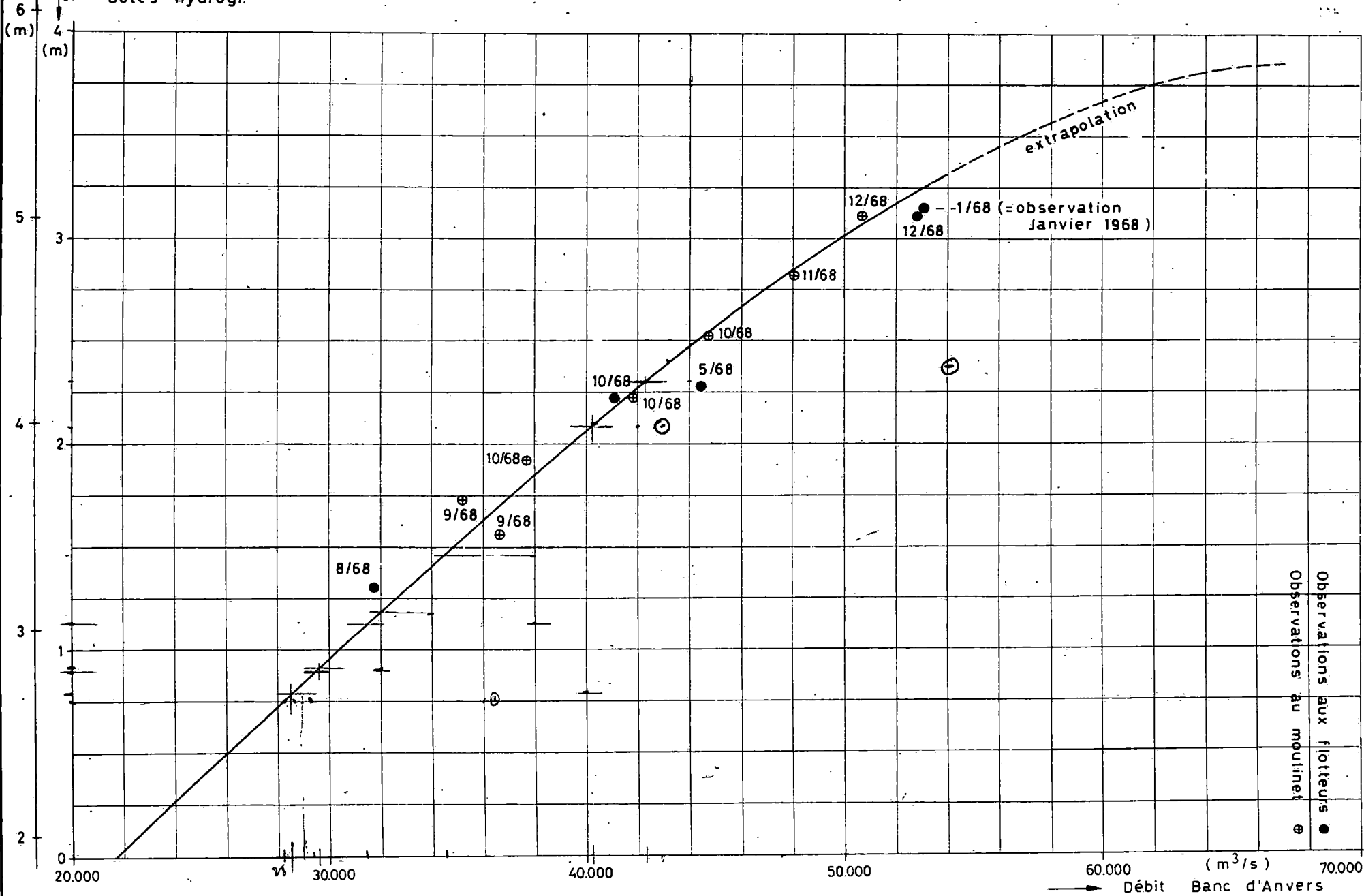


Réf. : ——— SVN N° 8-2611/lc
 - - - - - LRH (sous réserve)

W.L. 69.275

Cotes absolues

Cotes hydrogr.



Courbe tracée par l'ingénieur "VAN NIMMEN"

BANC D'ANVERS COURBE DES DEBITS (Observations au moulinet)

MOD.255 Figure 76a

Observations aux flotteurs ●
Observations au moulinet ⊙

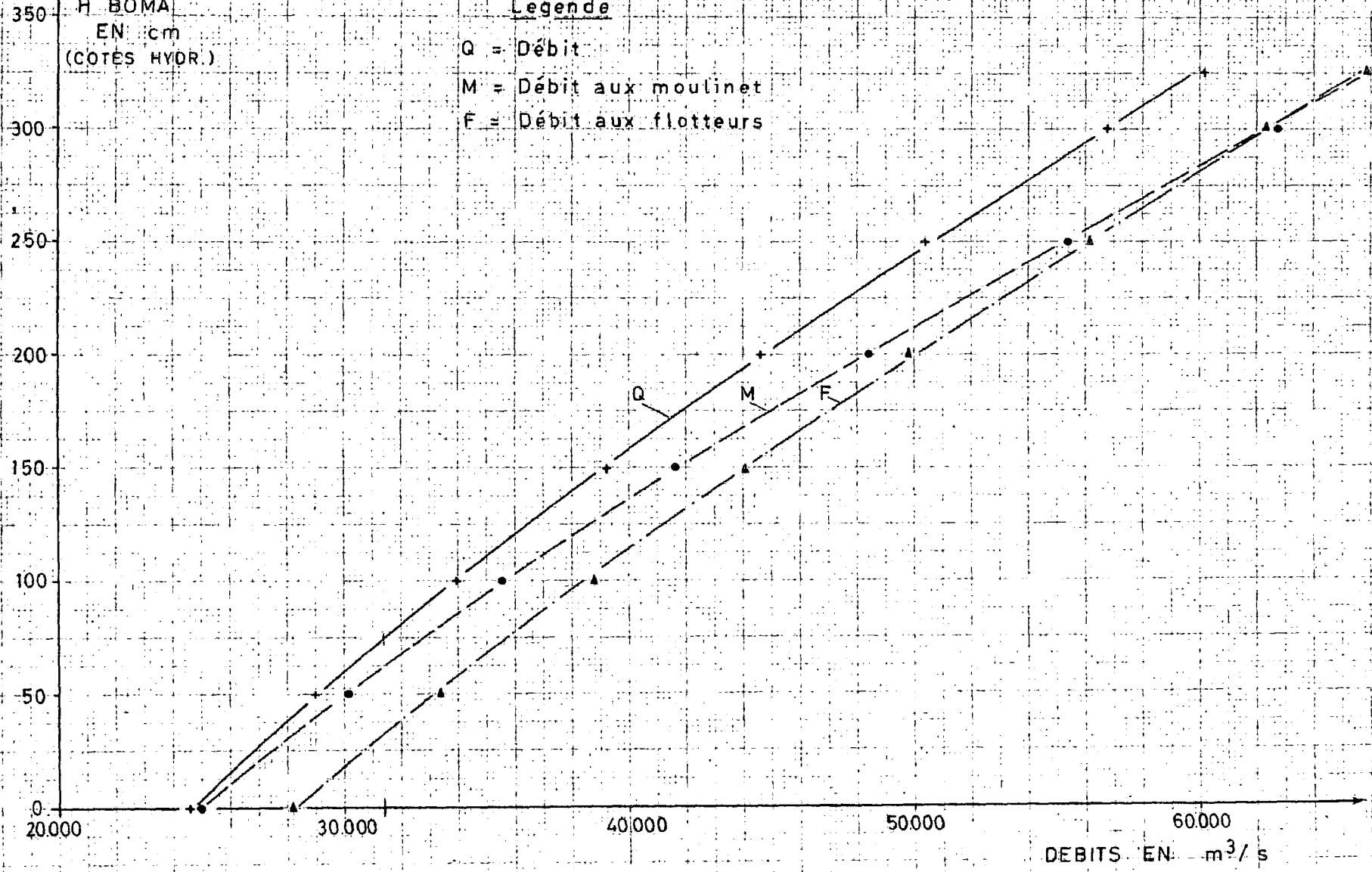
60.000 (m³/s)
Débit Banc d'Anvers

W.L. 69 527

H BOMA
EN cm
(COTÉS HYDR.)

Legende

- Q = Débit
- M = Débit aux moulinet
- F = Débit aux flotteurs

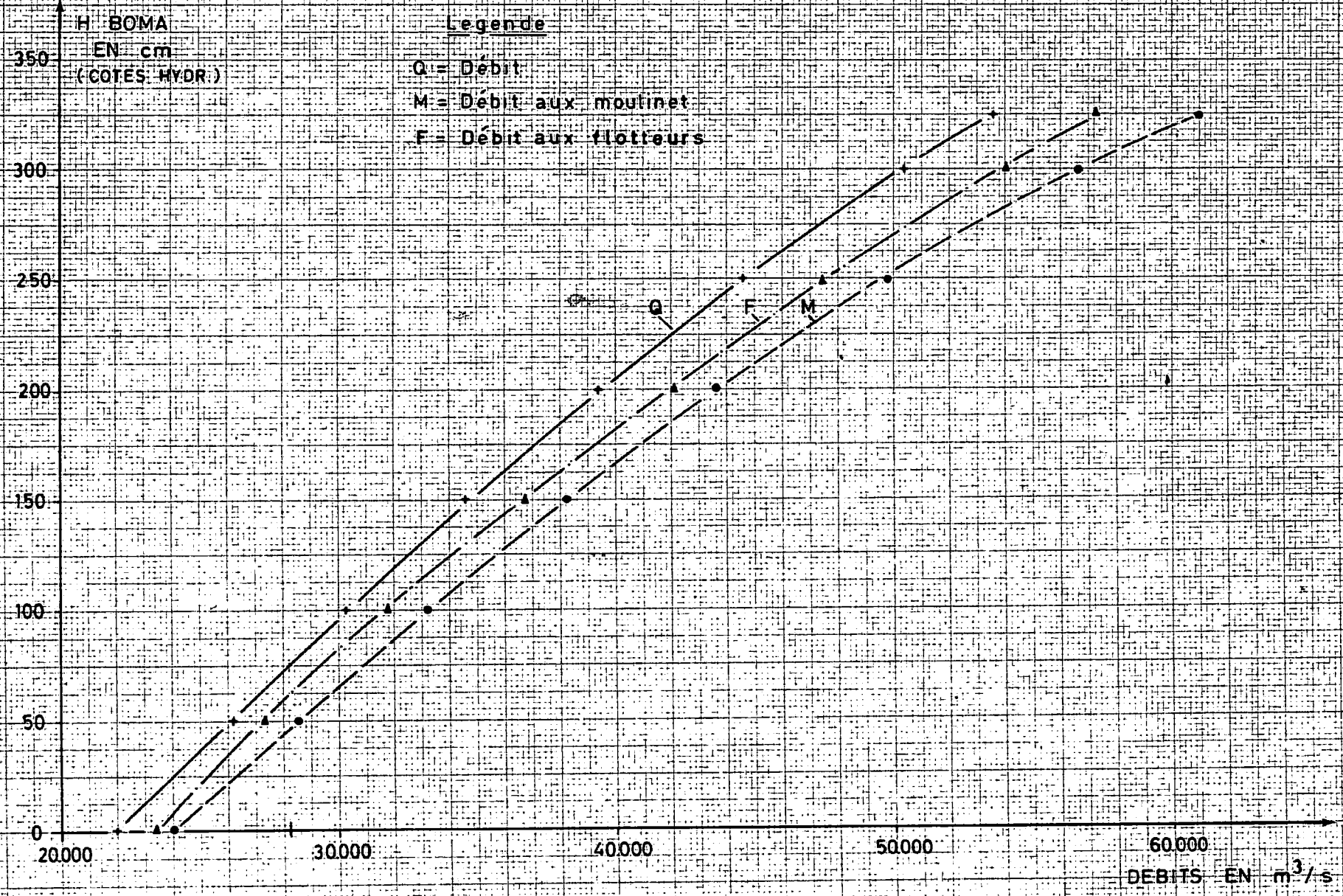


PERIODE 1957 - 1959

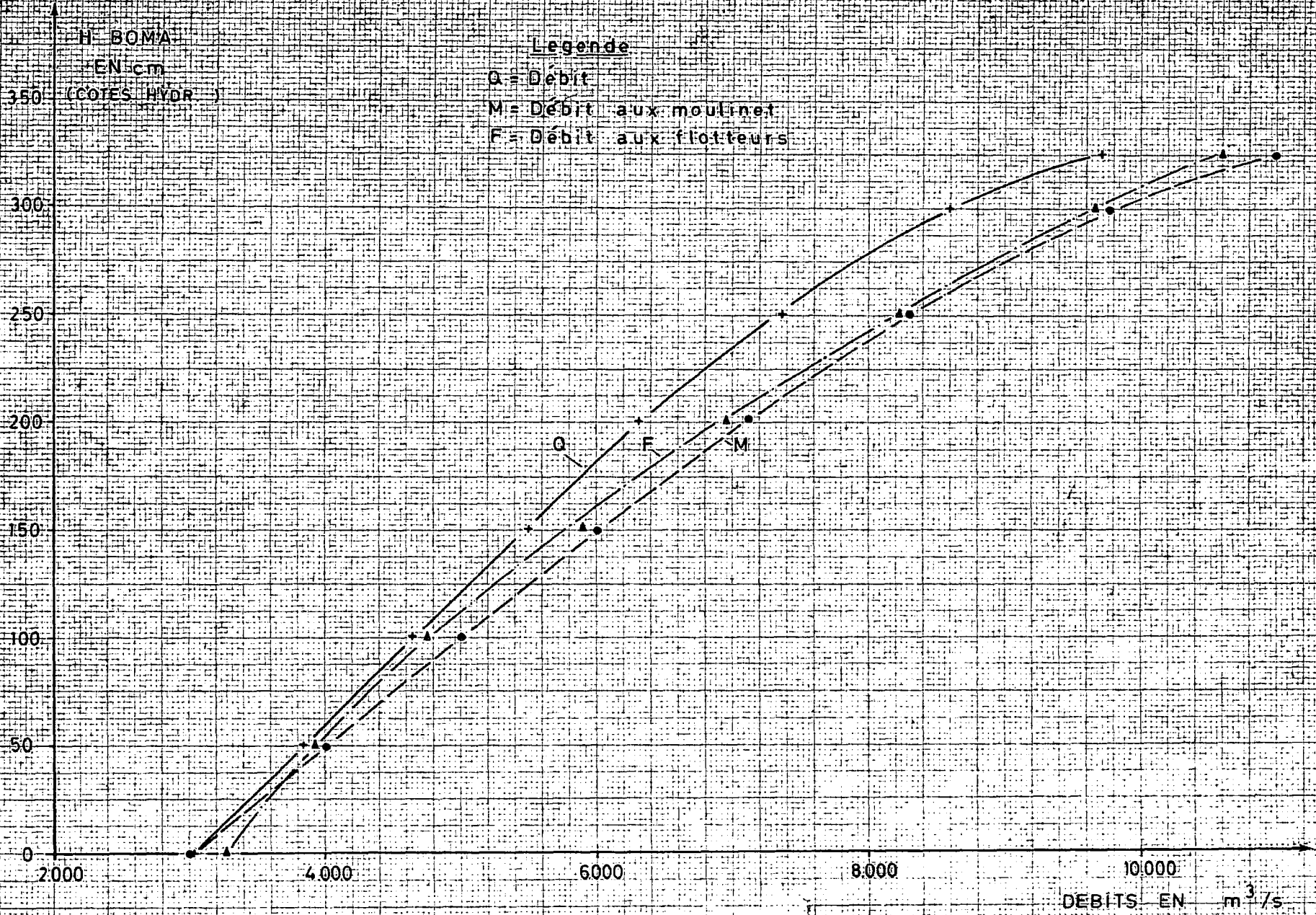
SECTION DE MAO
RELATIONS HAUTEURS -
DEBITS

MOD. 255

Figure 76 b



W.L. 69.529



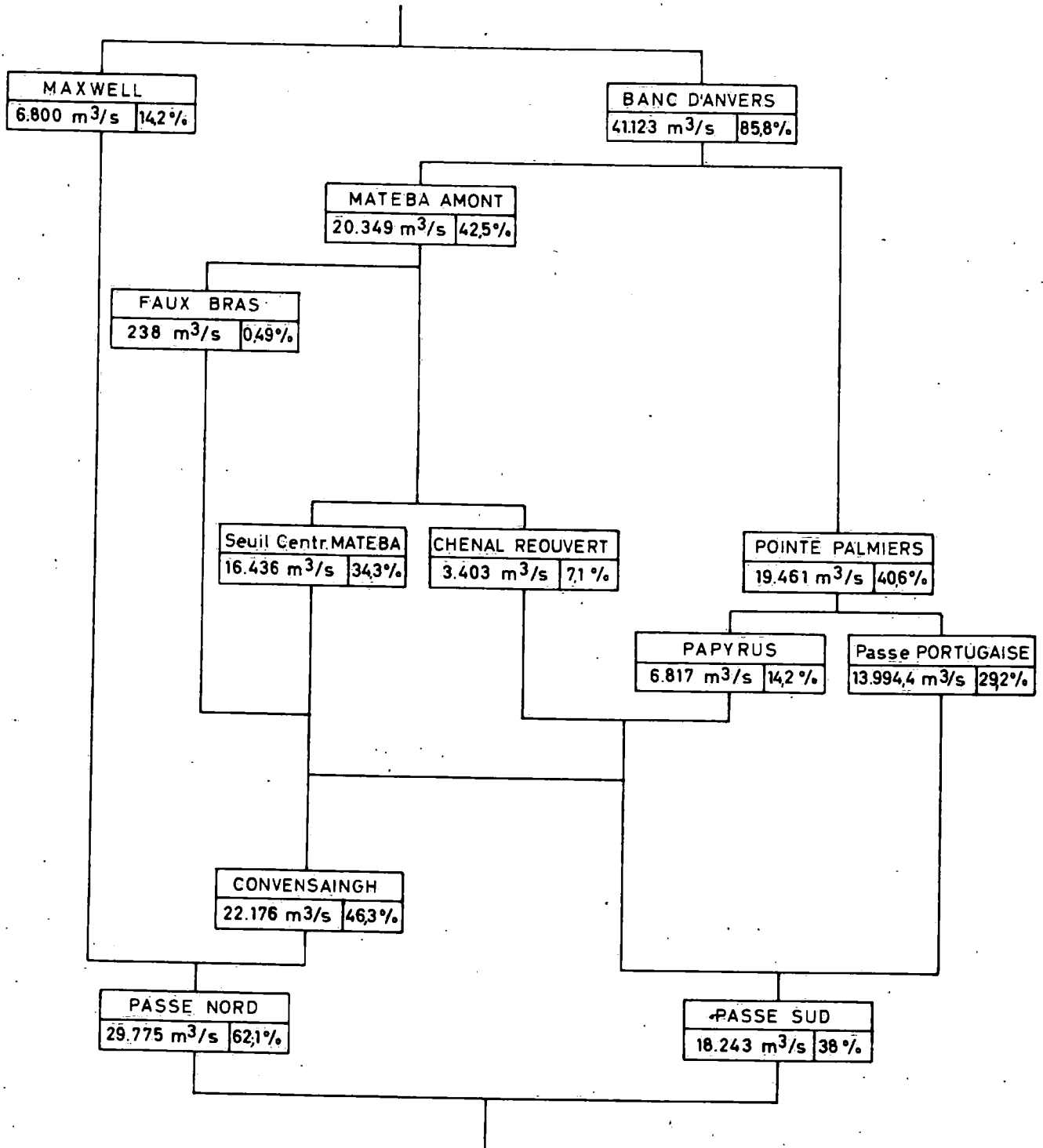
PERIODE 1957 - 1959

SECTION DU CHENAL
RELATIONS
DEBITS -
HAUTEURS
MAXWELL

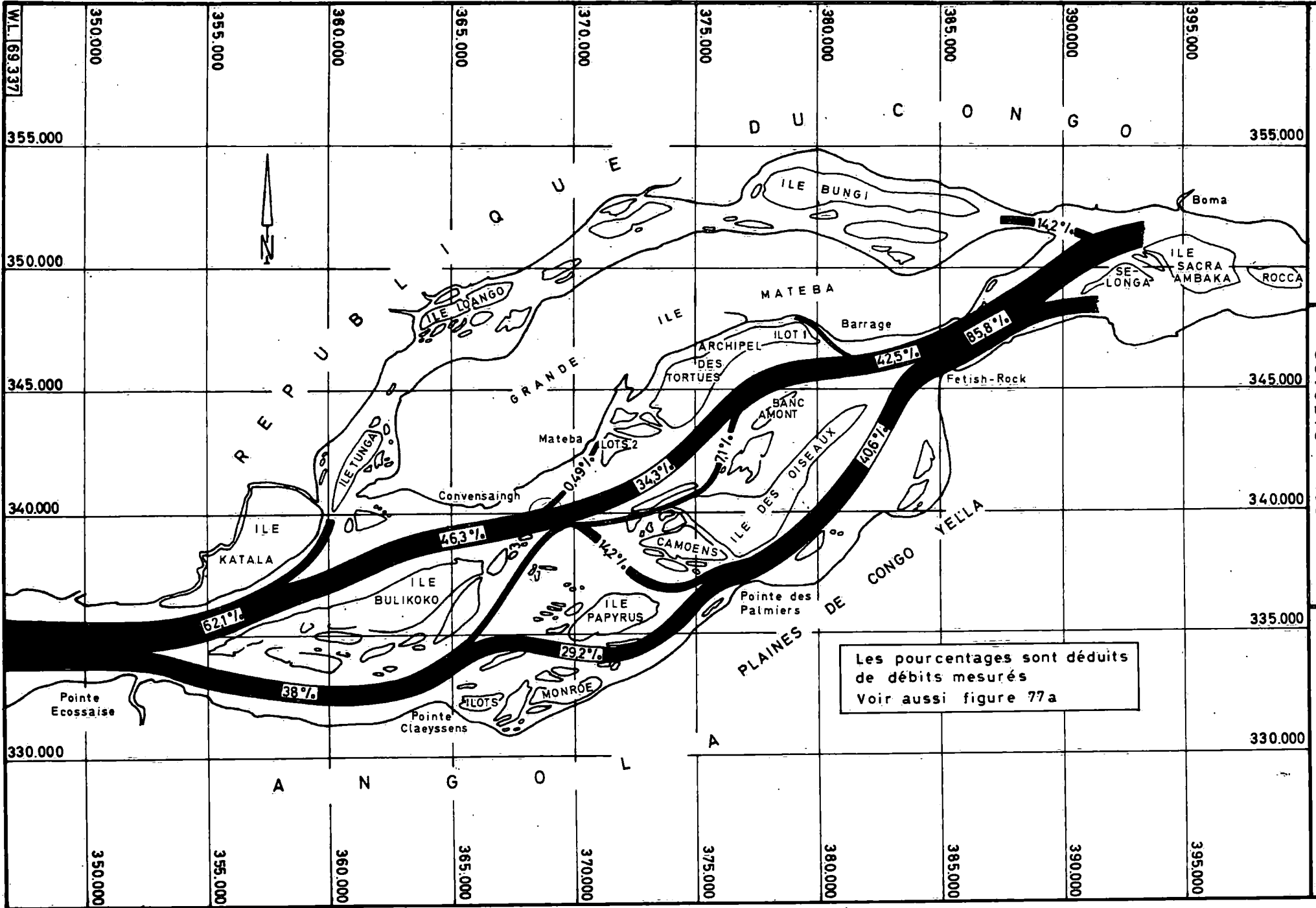
MOD. 255

Figure 76 D

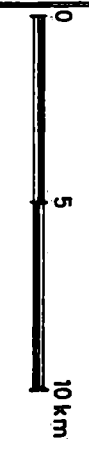
EE. BOMA , les 28/10/68 = 2,20 m
 29/10/68 = 2,22 m
 30/10/68 = 2,24 m
 31/10/68 = 2,28 m



N.B.- Toutes ces sections ont été mesurées.
 Les résultats sont des débits nets, c'est à dire $D \times 0,85$



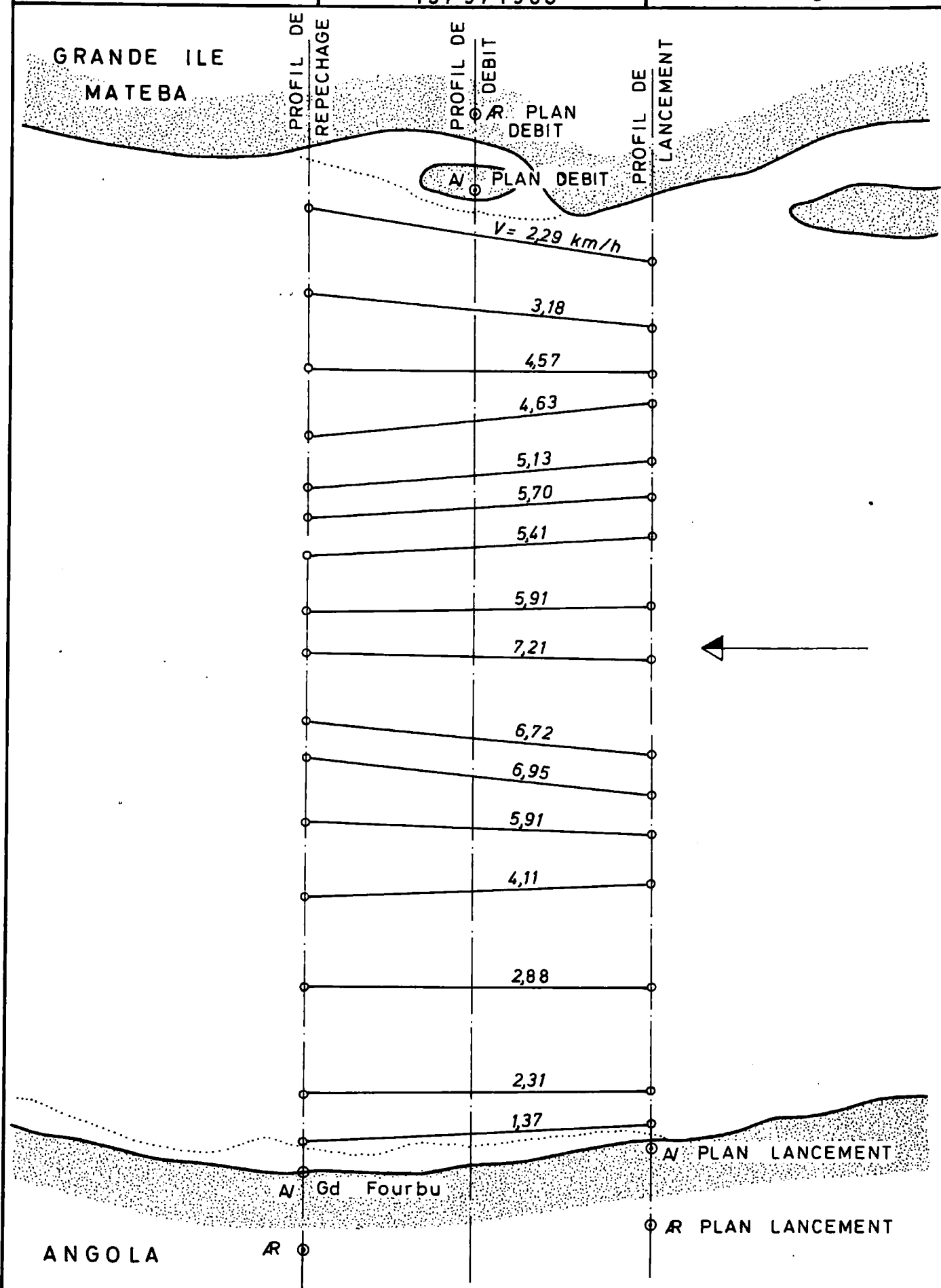
WL. 69.337

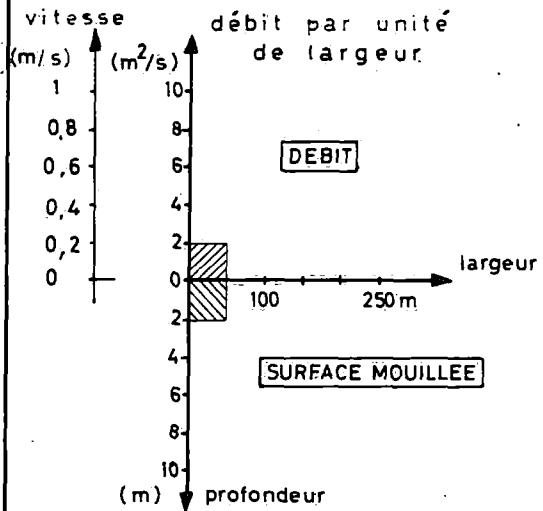


REPARTITION DU
DEBIT
Octobre 1968

MOD. 255

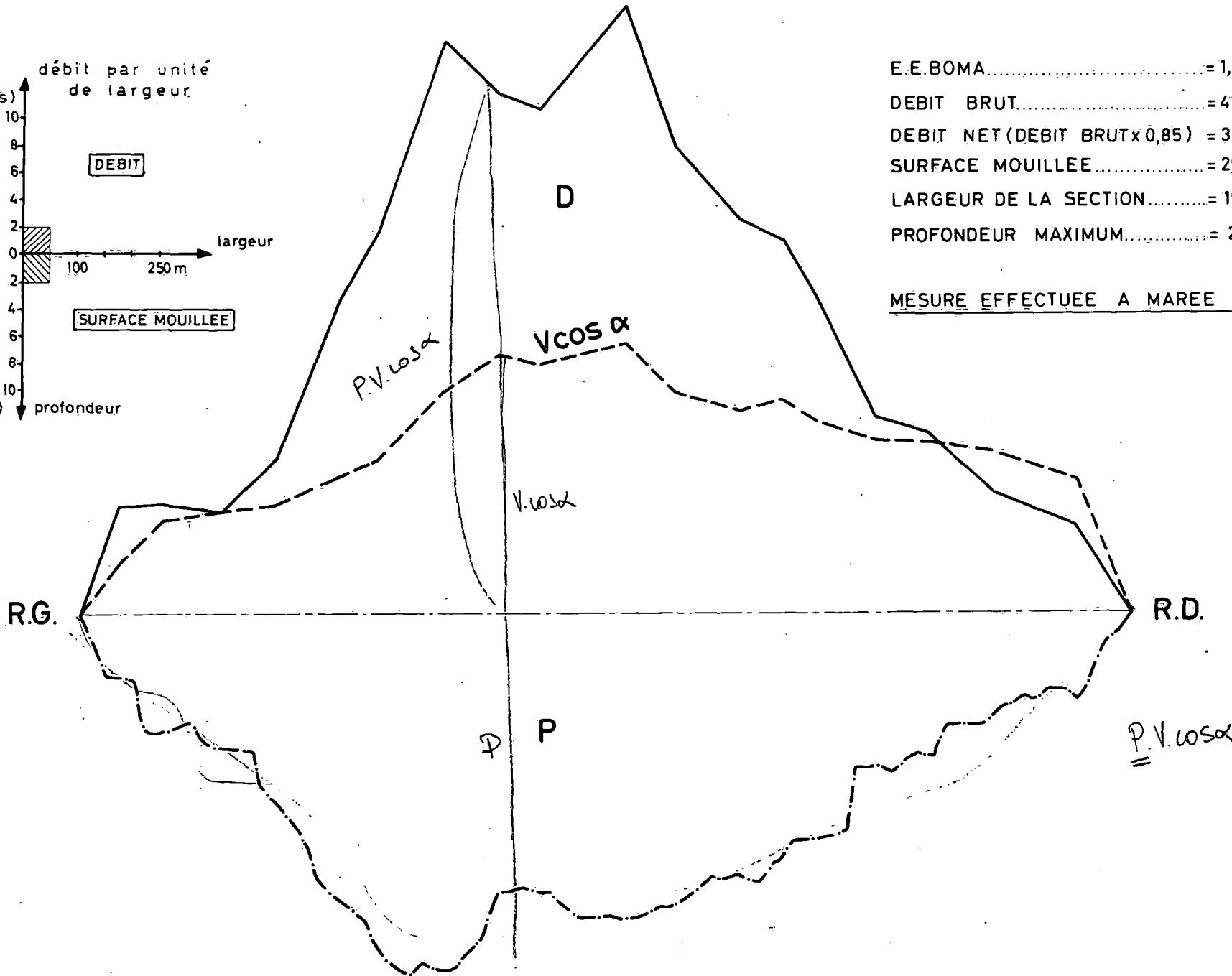
Figure 77b





E.E.BOMA..... = 1,56 m
 DEBIT BRUT..... = 41.470 m³/s
 DEBIT NET (DEBIT BRUT x 0,85) = 35.249 m³/s
 SURFACE MOUILLEE..... = 29.050 m²
 LARGEUR DE LA SECTION..... = 1930 m
 PROFONDEUR MAXIMUM..... = 26,6 m

MESURE EFFECTUEE A MAREE HAUTE



h Boma = 1,56 m

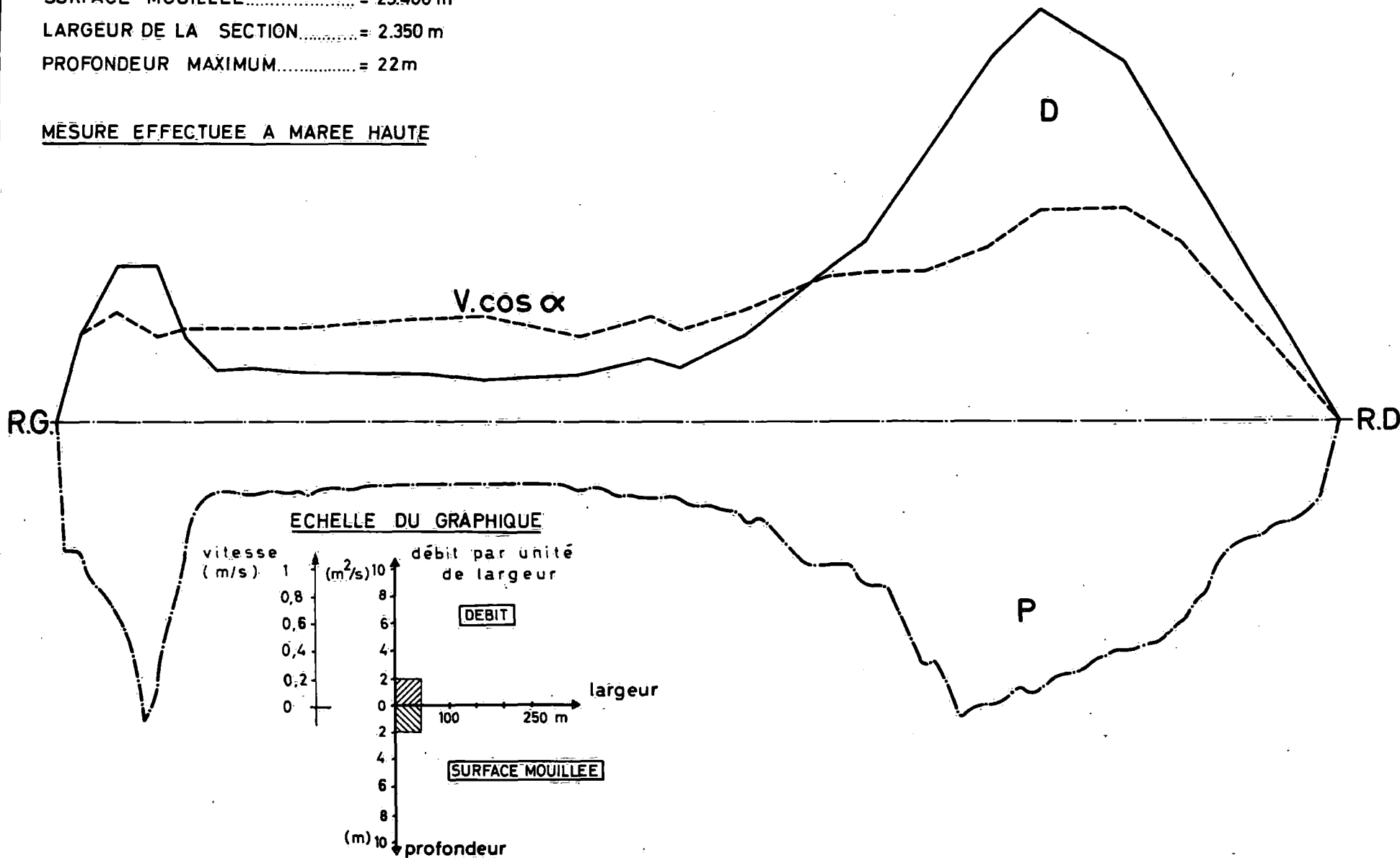
DEBITS AUX FLOTTEURS
 BANC D'ANVERS
 LE 13-9-1968

MOD. 255

Figure 79

E.E. BOMA = 1,58 m
 DEBIT BRUT..... = 25.110 m³/s
 DEBIT NET (DEBIT BRUT x 0,85) = 21.343 m³/s
 SURFACE MOUILLEE..... = 23.400 m²
 LARGEUR DE LA SECTION..... = 2.350 m
 PROFONDEUR MAXIMUM..... = 22m

MESURE EFFECTUEE A MAREE HAUTE



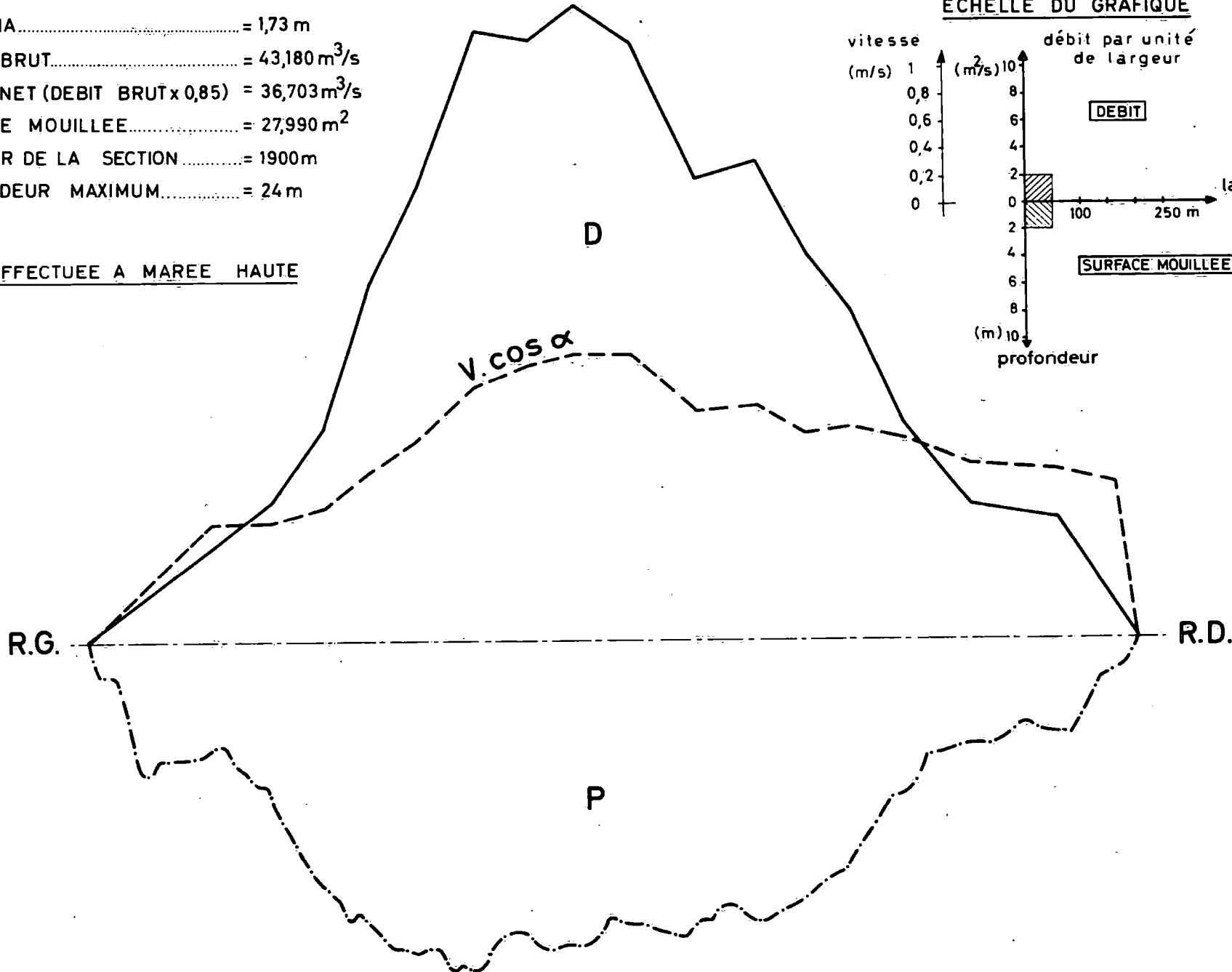
h Boma = 1,58 m

DEBITS AUX FLOTTEURS
 CONVENSAINGH
 LE 11 - 09 - 1968

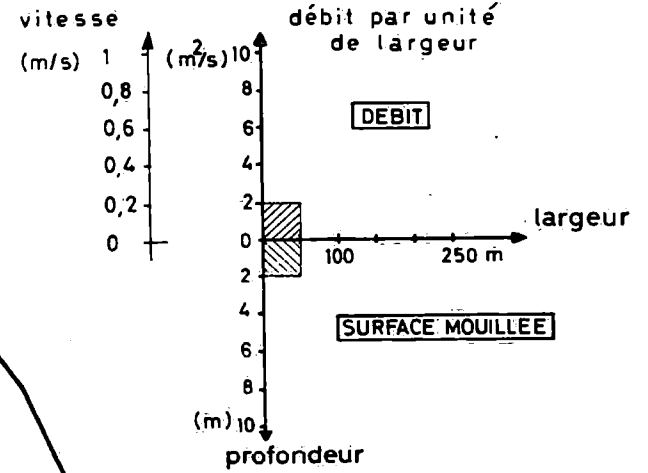
MOD. 255
 Figure 80

E.E. BOMA = 1,73 m
 DEBIT BRUT = 43,180 m³/s
 DEBIT NET (DEBIT BRUT x 0,85) = 36,703 m³/s
 SURFACE MOUILLEE = 27,990 m²
 LARGEUR DE LA SECTION = 1900 m
 PROFONDEUR MAXIMUM = 24 m

MESURE EFFECTUEE A MAREE HAUTE



ECHELLE DU GRAFIQUE



h Boma = 1,73 m

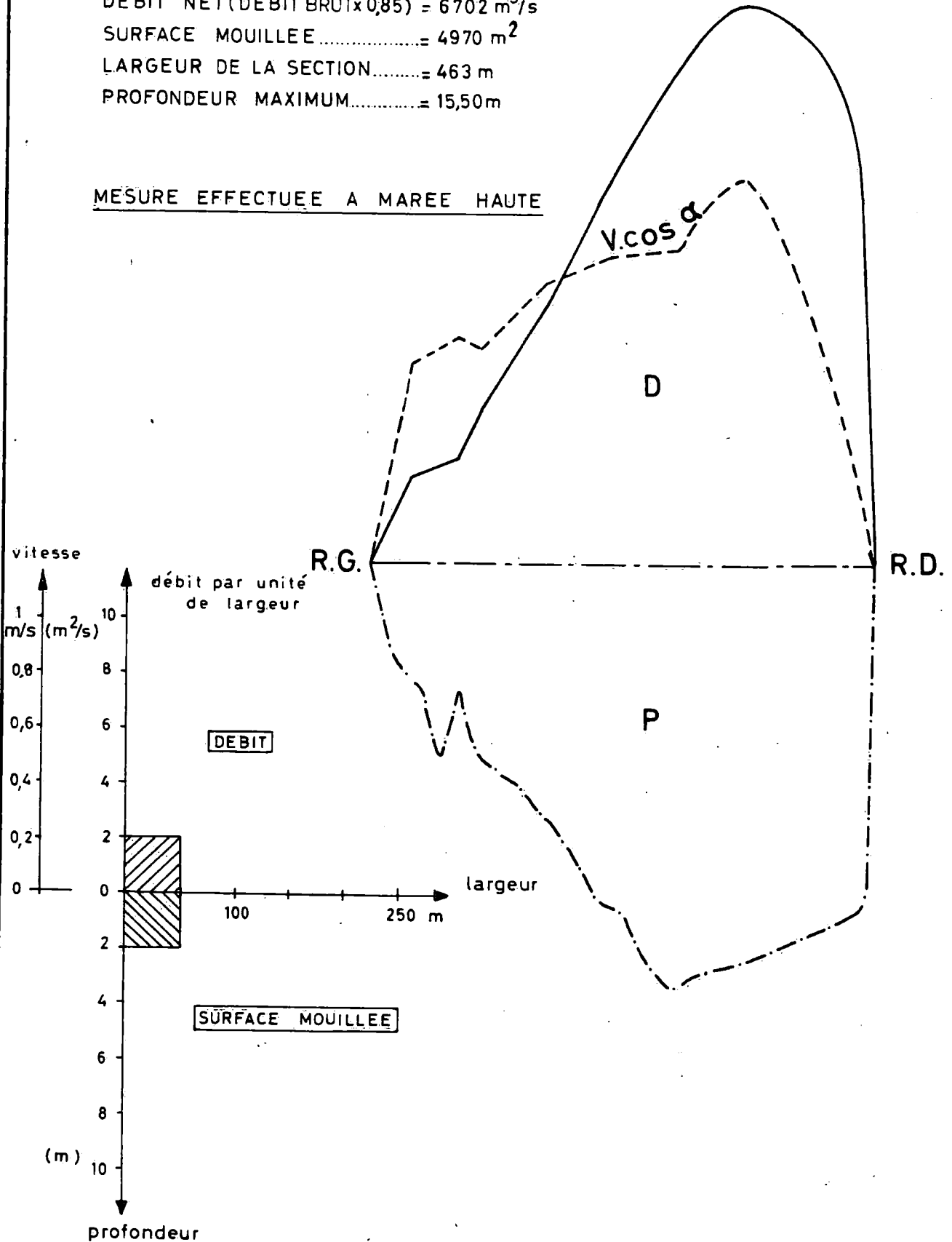
BANC D'ANVERS
 LE 30-09-1968

Figure 81

$h_{Boma} = 1,56\text{ m}$

E.E. BOMA = 1,56 m
 DEBIT BRUT = 4820 m³/s
 DEBIT NET (DEBIT BRUT x 0,85) = 6702 m³/s
 SURFACE MOUILLEE = 4970 m²
 LARGEUR DE LA SECTION = 463 m
 PROFONDEUR MAXIMUM = 15,50 m

MESURE EFFECTUEE A MAREE HAUTE



W.L. 68.737

R.G.=0m VERTICALE 1

10h35' — distance 150m — hconvensaingh = 122cm ↓↓

profondeur en cm	nombre de révolutions	n	0,512n = A	A + 0,001 = v
0	Surf.	--	--	--
30	312	1,01	0,5125	0,53
62	320	1,09	0,5581	0,56
94	335	1,12	0,5734	0,57
126	378	1,26	0,6451	0,65
158	358	1,19	0,6093	0,61
190	344	1,15	0,5888	0,59
1692	fond	--	--	--

VERTICALE 2

11h25' — distance 325m — hconvensaingh = 110cm ↓↓

profondeur en cm	nombre de révolutions	n	0,512n = A	A + 0,001 = v
0	Surf.	--	--	--
30	375	1,25	0,6400	0,64
60	362	1,21	0,6175	0,62
90	323	1,08	0,5530	0,55
120	280	0,93	0,4762	0,48
150	234	0,78	0,3994	0,40
180	144	0,48	0,2458	0,25
456	fond	--	--	--

VERTICALE 3

12h10' — distance 450m — hconvensaingh = 104cm ↓

profondeur en cm	nombre de révolutions	n	0,512n = A	A + 0,001 = v
0	Surf.	--	--	--
30	432	1,34	0,7373	0,74
60	442	1,47	0,7526	0,75
90	441	1,47	0,7526	0,75
120	413	1,38	0,7066	0,71
150	363	1,21	0,6195	0,62
180	236	0,79	0,4045	0,41
402	fond	--	--	--

VERTICALE 4

13h00' — distance 610m — hconvensaingh = 99cm ↓

profondeur en cm	nombre de révolutions	n	0,512n = A	A + 0,001 = v
0	Surf.	--	--	--
30	441	1,47	0,7526	0,75
60	441	1,44	0,7373	0,74
90	418	1,39	0,7117	0,71
120	395	1,32	0,6758	0,68
150	403	1,34	0,6861	0,69
180	357	1,19	0,6093	0,61
414	fond	--	--	--

VERTICALE 5

13h40' — distance 690m — hconvensaingh = 99cm ↓

profondeur en cm	nombre de révolutions	n	0,512n = A	A + 0,001 = v
0	Surf.	--	--	--
30	493	1,64	0,8396	0,84
60	527	1,76	0,9011	0,90
90	481	1,60	0,8192	0,82
120	435	1,45	0,7424	0,74
150	323	1,37	0,7014	0,70
180	305	1,01	0,5222	0,52
424	fond	--	--	--

VERTICALE 6

14h30' — distance 890m — hconvensaingh = 103cm ↓

profondeur en cm	nombre de révolutions	n	0,512n = A	A + 0,001 = v
0	Surf.	--	--	--
30	511	1,70	0,8704	0,87
60	511	1,70	0,8704	0,87
90	483	1,61	0,8243	0,83
120	307	1,62	0,8294	0,83
150	409	1,40	0,7168	0,72
180	490	1,12	0,5734	0,57
531	fond	--	--	--

VERTICALE 7

15h20' — distance 1120m — hconvensaingh = 109cm ↓↓

profondeur en cm	nombre de révolutions	n	0,512n = A	A + 0,001 = v
0	Surf.	--	--	--
30	448	1,49	0,7629	0,76
60	427	1,42	0,7270	0,73
90	423	1,41	0,7219	0,72
120	394	1,31	0,6707	0,67
150	352	1,21	0,6225	0,62
180	305	1,02	0,5222	0,52
456	fond	--	--	--

VERTICALE 8

10h05' — distance 1295m — hconvensaingh = 118cm ↓↓

profondeur en cm	nombre de révolutions	n	0,512n = A	A + 0,001 = v
0	Surf.	--	--	--
30	560	1,87	0,9574	0,96
60	554	1,85	0,9472	0,95
90	531	1,77	0,9062	0,91
120	538	1,79	0,9165	0,92
150	337	1,44	0,7373	0,74
180	401	1,32	0,6758	0,68
461	fond	--	--	--

VERTICALE 9

13h00' — distance 1460m — hconvensaingh = 103cm ↓

profondeur en cm	nombre de révolutions	n	0,512n = A	A + 0,001 = v
0	Surf.	--	--	--
30	669	2,21	1,1418	1,14
60	660	2,20	1,1264	1,13
90	687	2,29	1,1724	1,17
120	657	2,19	1,1213	1,12
150	716	2,00	1,0240	1,03
180	875	1,49	0,7629	0,76
915	fond	--	--	--

VERTICALE 10

13h55' — distance 1600m — hconvensaingh = 99cm ↓

profondeur en cm	nombre de révolutions	n	0,512n = A	A + 0,001 = v
0	Surf.	--	--	--
30	786	2,62	1,3414	1,34
60	780	2,60	1,3312	1,33
90	770	2,57	1,3158	1,32
120	671	2,26	1,1571	1,16
150	620	2,07	1,0598	1,06
180	422	1,41	0,7219	0,72
1920	fond	--	--	--

VERTICALE 11

11h45' — distance 1730m — hconvensaingh = 112cm ↓↓

profondeur en cm	nombre de révolutions	n	0,512n = A	A + 0,001 = v
0	Surf.	--	--	--
30	828	2,76	1,4131	1,41
60	869	2,90	1,4848	1,49
90	919	3,07	1,5718	1,57
120	1545	8,81	4,5053	4,51
150	2059	8,00	4,0970	4,10
180	2553	4,92	2,5237	2,53
2593	fond	--	--	--

VERTICALE 12

15h50' — distance 1850m — hconvensaingh = 116cm ↓

profondeur en cm	nombre de révolutions	n	0,512n = A	A + 0,001 = v
0	Surf.	--	--	--
30	880	2,93	1,5002	1,50
60	862	2,87	1,4694	1,47
90	816	2,72	1,3926	1,39
120	732	2,44	1,2493	1,25
150	1674	6,47	3,3258	3,33
180	2072	5,81	2,9733	2,98
2112	fond	--	--	--

VERTICALE 13

14h50' — distance 1990m — hconvensaingh = 104cm ↓

profondeur en cm	nombre de révolutions	n	0,512n = A	A + 0,001 = v
0	Surf.	--	--	--
30	954	3,18	1,6282	1,63
60	971	3,24	1,6589	1,66
90	911	3,04	1,5565	1,56
120	862	2,87	1,4694	1,47
150	720	2,40	1,2288	1,23
180	581	1,94	0,9733	0,97
1937	fond	--	--	--

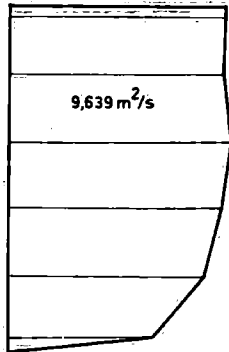
R.D.=2350 m

Verticale 1



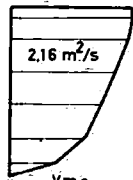
$\frac{V_{m1}}{V_{s1}} = 1,101$

Verticale 9



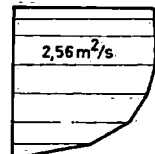
$\frac{V_{m9}}{V_{s9}} = 0,924$

Verticale 2



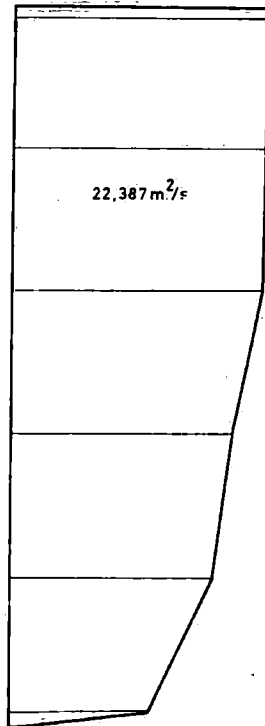
$\frac{V_{m2}}{V_{s2}} = 0,740$

Verticale 3



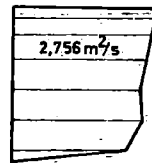
$\frac{V_{m3}}{V_{s3}} = 0,860$

Verticale 10



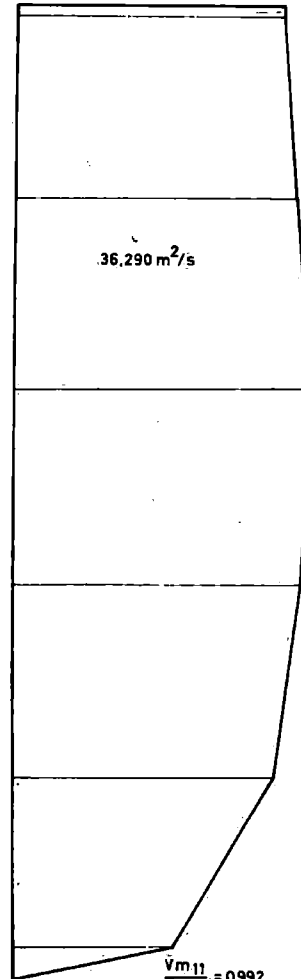
$\frac{V_{m10}}{V_{s10}} = 0,870$

Verticale 4



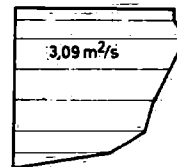
$\frac{V_{m4}}{V_{s4}} = 0,887$

Verticale 11



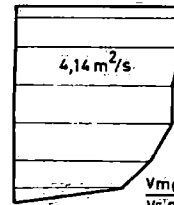
$\frac{V_{m11}}{V_{s11}} = 0,992$

Verticale 5



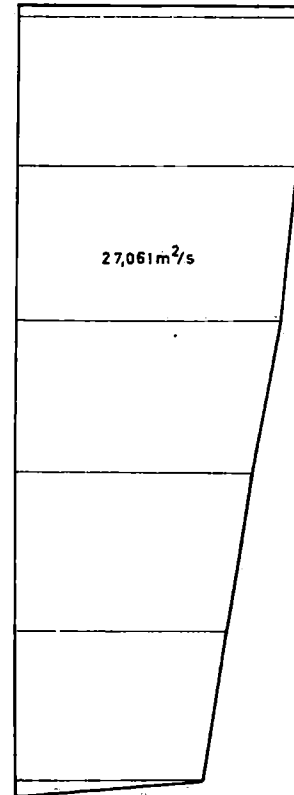
$\frac{V_{m5}}{V_{s5}} = 0,867$

Verticale 6



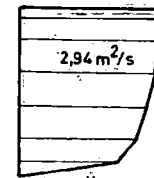
$\frac{V_{m6}}{V_{s6}} = 0,896$

Verticale 12



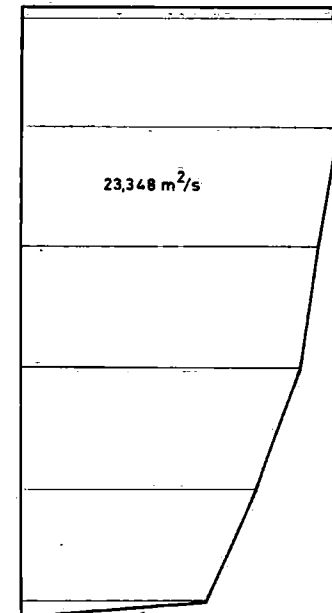
$\frac{V_{m12}}{V_{s12}} = 0,854$

Verticale 7



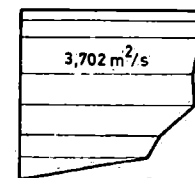
$\frac{V_{m7}}{V_{s7}} = 0,848$

Verticale 13



$\frac{V_{m13}}{V_{s13}} = 0,875$

Verticale 8



$\frac{V_{m8}}{V_{s8}} = 0,836$

ECHELLES



$v = 0,512n + 0,001$
 $n > 0,68$

MOULINET OTT
 ARKANSAS V n°15.327
 Hélice n°2
 hBoma = 1,55 m

BANC D'ANVERS
 LE 12 ET 13 - 9 - 1968
 Temps d'observation = 300"

MOD.255

Figure 84 a

R.G. = 0m

VERTICALE 1

14h00' — distance 100m

profondeur en cm	nombre de révolutions	n	0,512n = A	A + 0,001 = v
0	Surf.	--	--	--
30	398	1,66	0,8499	0,85
171	453	1,51	0,7731	0,77
342	444	1,48	0,7578	0,76
513	387	1,29	0,6605	0,66
684	355	1,18	0,6042	0,62
835	359	1,20	0,6144	0,62
875	fond	--	--	--

VERTICALE 2

13h20' — distance 250m

profondeur en cm	nombre de révolutions	n	0,512n = A	A + 0,001 = v
0	Surf.	--	--	--
30	426	1,42	0,7271	0,73
202	400	1,33	0,6810	0,68
394	394	1,31	0,6707	0,67
586	367	1,22	0,6246	0,63
778	309	1,03	0,5274	0,53
940	221	0,74	0,3789	0,38
980	fond	--	--	--

VERTICALE 3

12h30' — distance 385m

profondeur en cm	nombre de révolutions	n	0,512n = A	A + 0,001 = v
0	Surf.	--	--	--
30	519	1,73	0,8858	0,87
396	502	1,67	0,8602	0,86
788	520	1,73	0,8858	0,89
1180	449	1,50	0,7680	0,77
1572	338	1,33	0,6810	0,68
1944	185	0,62	0,3174	0,32
1984	fond	--	--	--

VERTICALE 4

11h30' — distance 560m

profondeur en cm	nombre de révolutions	n	0,512n = A	A + 0,001 = v
0	Surf.	--	--	--
30	894	2,98	1,5258	1,53
513	909	3,03	1,5514	1,55
1026	814	2,71	1,3875	1,39
1539	711	2,37	1,2134	1,21
2052	704	2,35	1,2032	1,20
2545	475	1,58	0,8090	0,81
2585	fond	--	--	--

VERTICALE 5

10h30' — distance 700m

profondeur en cm	nombre de révolutions	n	0,512n = A	A + 0,001 = v
0	Surf.	--	--	--
30	1011	3,37	1,7254	1,73
526	1045	3,48	1,7818	1,78
1052	986	3,29	1,6845	1,69
1578	894	2,98	1,5258	1,53
2104	769	2,56	1,3107	1,31
2610	218	0,73	0,3738	0,37
2650	fond	--	--	--

VERTICALE 6

9h25' — distance 835m

profondeur en cm	nombre de révolutions	n	0,512n = A	A + 0,001 = v
0	Surf.	--	--	--
30	1134	3,78	1,9354	1,94
406	1111	3,70	1,8944	1,90
809	1068	3,56	1,8227	1,82
1212	1005	3,35	1,7152	1,72
1615	921	3,07	1,5718	1,57
1998	626	2,09	1,0701	1,07
2038	fond	--	--	--

VERTICALE 7

13h50' — distance 1005m

profondeur en cm	nombre de révolutions	n	0,512n = A	A + 0,001 = v
0	Surf.	--	--	--
30	1068	3,56	1,8227	1,82
425	1029	3,43	1,7562	1,76
847	978	3,26	1,6691	1,67
1269	921	3,07	1,5718	1,57
1691	883	2,94	1,5053	1,51
2093	512	1,71	0,8755	0,88
2133	fond	--	--	--

VERTICALE 8

12h50' — distance 1140m

profondeur en cm	nombre de révolutions	n	0,512n = A	A + 0,001 = v
0	Surf.	--	--	--
30	984	3,28	1,6794	1,68
383	970	3,23	1,6538	1,66
762	978	3,26	1,6691	1,67
1141	910	3,03	1,5514	1,55
1520	822	2,74	1,4029	1,40
1879	548	1,83	0,9370	0,94
1919	fond	--	--	--

VERTICALE 9

11h50' — distance 1290m

profondeur en cm	nombre de révolutions	n	0,512n = A	A + 0,001 = v
0	Surf.	--	--	--
30	906	3,02	1,5462	1,55
352	898	2,99	1,5309	1,53
741	839	2,80	1,4336	1,43
1130	764	2,55	1,3056	1,31
1559	676	2,25	1,1520	1,15
1928	291	0,97	0,4966	0,50
1968	fond	--	--	--

VERTICALE 10

10h55' — distance 1450m

profondeur en cm	nombre de révolutions	n	0,512n = A	A + 0,001 = v
0	Surf.	--	--	--
30	776	2,59	1,3261	1,33
216	781	2,60	1,3312	1,33
432	711	2,37	1,2134	1,21
648	656	2,19	1,1213	1,12
864	565	1,88	0,9626	0,96
1060	432	1,44	0,7373	0,74
1100	fond	--	--	--

VERTICALE 11

9h50' — distance 1580m

profondeur en cm	nombre de révolutions	n	0,512n = A	A + 0,001 = v
0	Surf.	--	--	--
30	738	2,46	1,2595	1,26
153	739	2,46	1,2595	1,26
303	710	2,37	1,2134	1,21
453	658	2,19	1,1213	1,12
603	623	2,08	1,0650	1,07
733	504	1,68	0,8602	0,86
773	fond	--	--	--

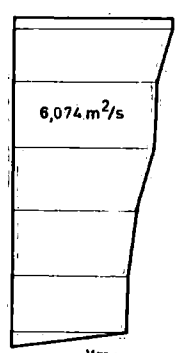
VERTICALE 12

9h00' — distance 1750m

profondeur en cm	nombre de révolutions	n	0,512n = A	A + 0,001 = v
0	Surf.	--	--	--
30	722	2,41	1,2339	1,23
114	731	2,44	1,2493	1,25
227	686	2,29	1,1725	1,17
340	648	2,16	1,1059	1,11
453	604	2,01	1,0291	1,03
546	435	1,45	0,7424	0,74
586	fond	--	--	--

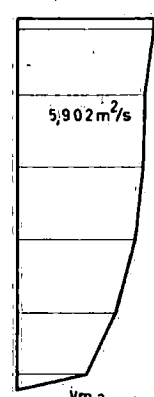
R.D. = 1900m

Verticale 1



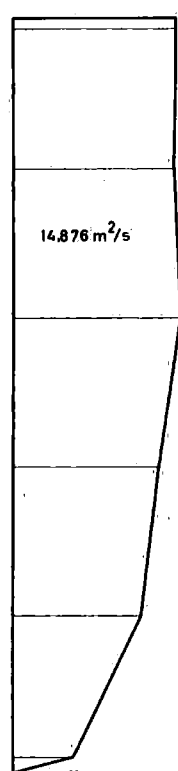
$\frac{Vm_1}{Vs_1} = 0,816$

Verticale 2



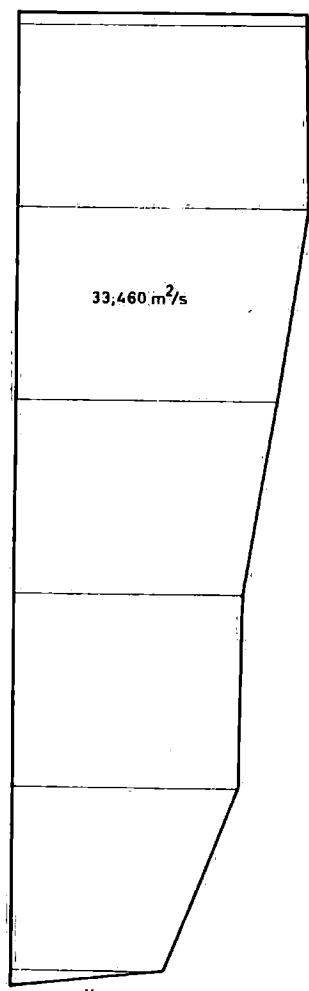
$\frac{Vm_2}{Vs_2} = 0,824$

Verticale 3



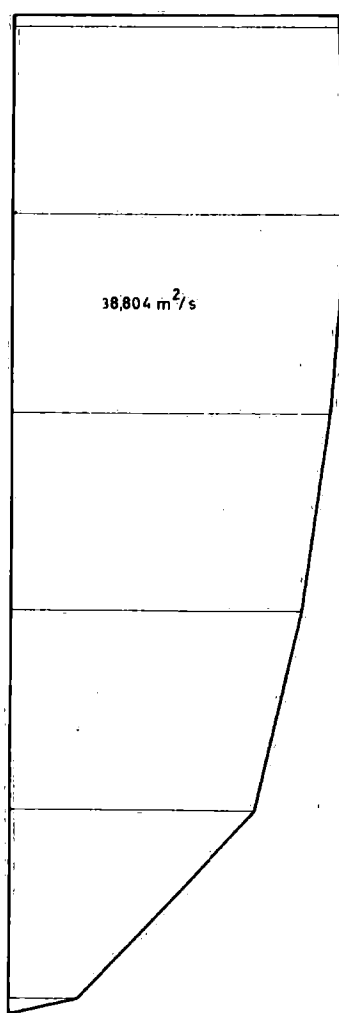
$\frac{Vm_3}{Vs_3} = 0,861$

Verticale 4



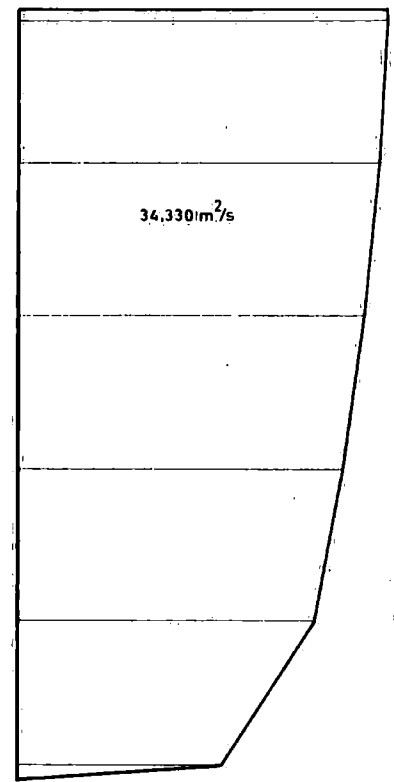
$\frac{Vm_4}{Vs_4} = 0,846$

Verticale 5



$\frac{Vm_5}{Vs_5} = 0,823$

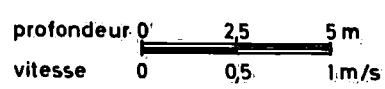
Verticale 6



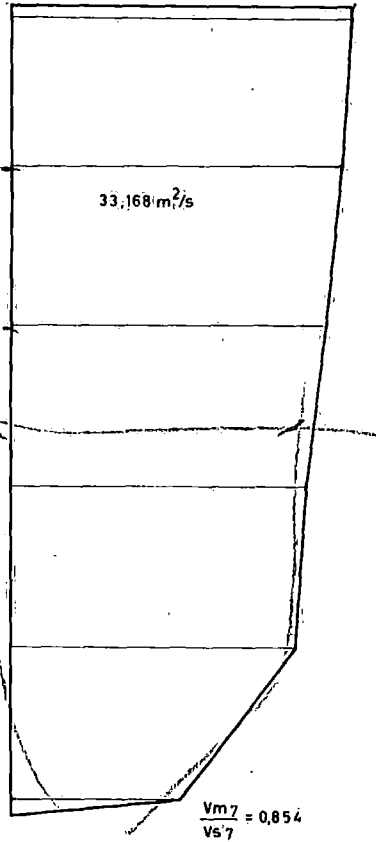
$\frac{Vm_6}{Vs_6} = 0,868$

$v = 0,512 n + 0,001$
 $n > 0,68$

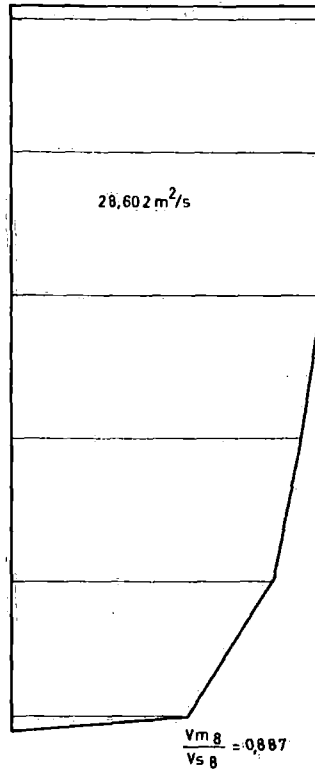
ECHELLES



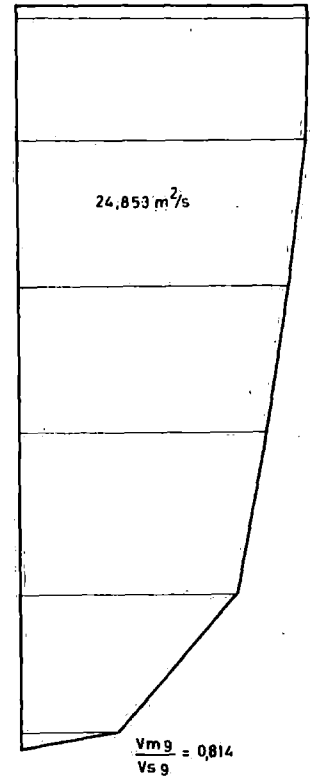
Verticale 7



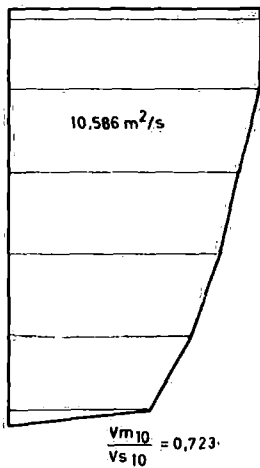
Verticale 8



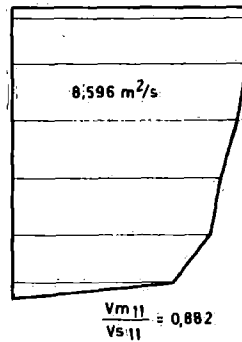
Verticale 9



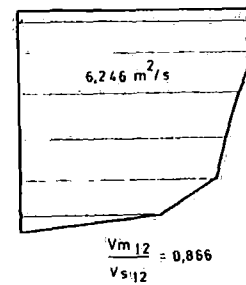
Verticale 10



Verticale 11



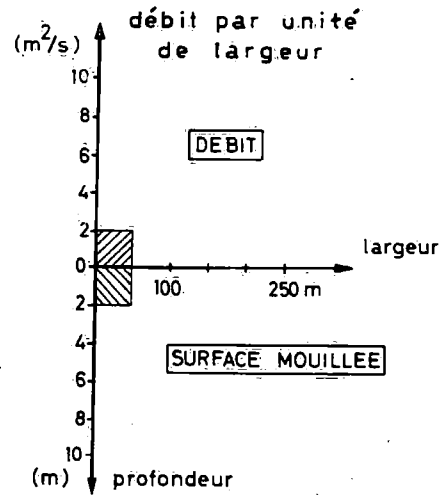
Verticale 12



ECHELLES

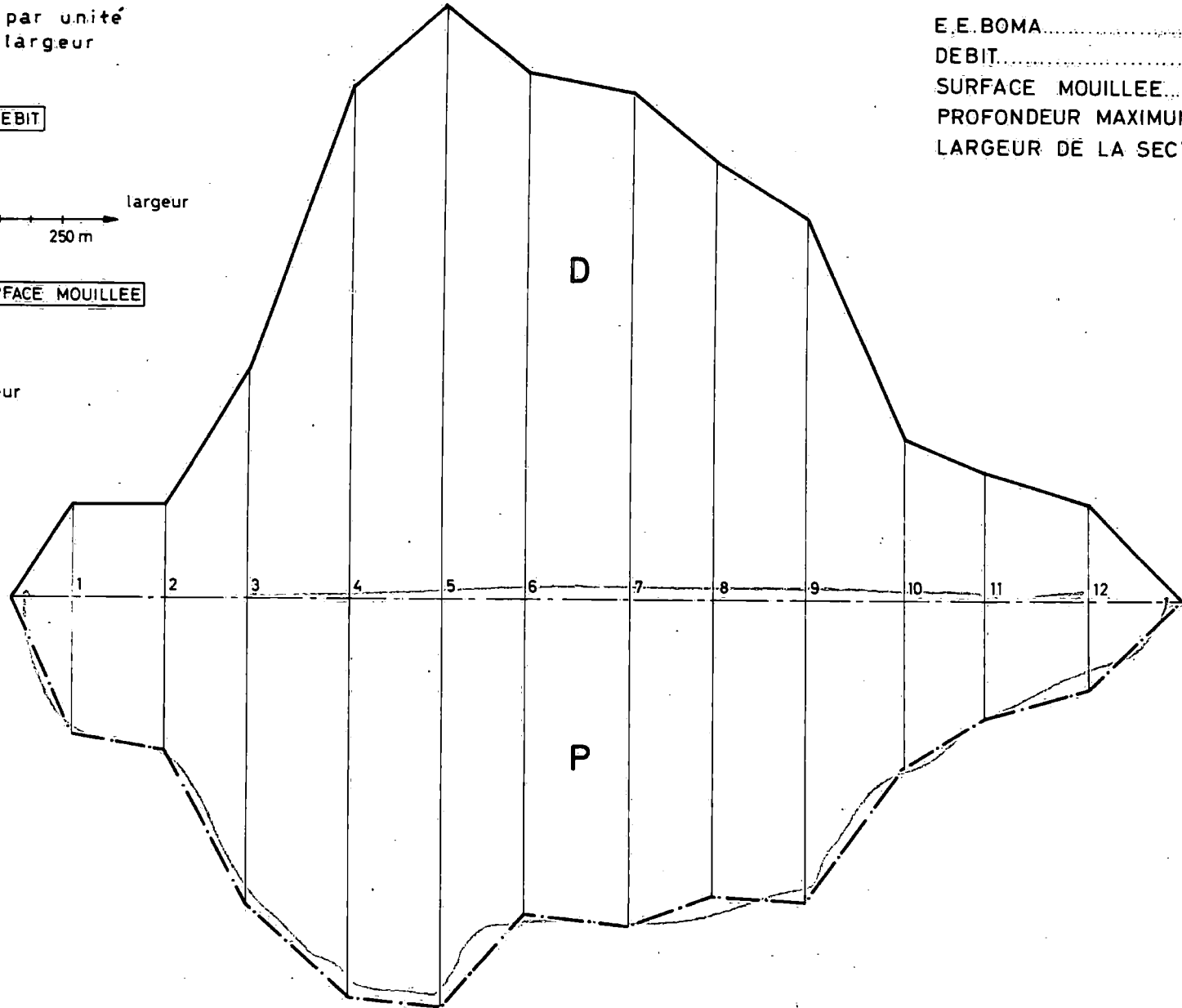


$v = 0,512n + 0,001$
 $n > 0,68$



E.E. BOMA = 1,56 m
 DEBIT = 36 632 m³/s
 SURFACE MOUILLEE = 29 151 m²
 PROFONDEUR MAXIMUM = 26,50 m
 LARGEUR DE LA SECTION = 1900 m

R.G.



R.D.

MOULINET OTT
 ARKANSAS V n° 15.327
 Hélice n° 2

MESURE AU MOULINET
 A BANC D'ANVERS
 LE 12 ET 13 - 9 - 1968

MOD. 255

Figure 84 d

R.G. = 0m.

VERTICALE 1

11h45' — distance 105m

profondeur en cm	nombre de révolutions	n	0,512n ± A	A ± 0,001 ± v
0	Surf.	--	--	--
30	428	1,43	0,7322	0,73
184	399	1,33	0,6810	0,68
368	424	1,41	0,7219	0,72
552	354	1,18	0,6042	0,61
736	301	1,00	0,5120	0,51
900	241	0,80	0,4096	0,41
940	fond	--	--	--

VERTICALE 2

10h55' — distance 300m

profondeur en cm	nombre de révolutions	n	0,512n ± A	A ± 0,001 ± v
0	Surf.	--	--	--
30	456	1,52	0,7782	0,78
198	430	1,43	0,7322	0,73
394	414	1,38	0,7066	0,71
590	364	1,21	0,6195	0,62
786	365	1,22	0,6246	0,63
962	247	0,82	0,4198	0,42
1002	fond	--	--	--

VERTICALE 3

10h05' — distance 400m

profondeur en cm	nombre de révolutions	n	0,512n ± A	A ± 0,001 ± v
0	Surf.	--	--	--
30	544	1,81	0,9267	0,93
363	539	1,80	0,9216	0,92
725	522	1,74	0,8909	0,89
1087	450	1,50	0,7680	0,77
1449	455	1,48	0,7578	0,76
1791	295	0,98	0,5018	0,50
1831	fond	--	--	--

VERTICALE 4

9h05' — distance 570m

profondeur en cm	nombre de révolutions	n	0,512n ± A	A ± 0,001 ± v
0	Surf.	--	--	--
30	803	2,68	1,3722	1,37
466	751	2,50	1,2800	1,28
929	724	2,41	1,2339	1,24
1392	683	2,28	1,1674	1,17
1855	603	2,01	1,0291	1,03
2298	462	1,54	0,7885	0,79
2338	fond	--	--	--

VERTICALE 5

7h50' — distance 700m

profondeur en cm	nombre de révolutions	n	0,512n ± A	A ± 0,001 ± v
0	Surf.	--	--	--
30	1128	3,76	1,9251	1,93
456	1131	3,77	1,9302	1,93
910	1047	3,49	1,7869	1,79
1364	989	3,30	1,6896	1,69
1818	884	2,95	1,5104	1,51
2252	700	2,33	1,1930	1,19
2292	fond	--	--	--

VERTICALE 6

13h00' — distance 855m

profondeur en cm	nombre de révolutions	n	0,512n ± A	A ± 0,001 ± v
0	Surf.	--	--	--
30	1083	3,61	1,8483	1,85
469	1043	3,48	1,7818	1,78
927	1039	3,46	1,7715	1,77
1375	976	3,25	1,6640	1,67
1833	826	2,75	1,4080	1,41
2271	604	2,01	1,0191	1,03
2311	fond	--	--	--

VERTICALE 7

12h05' — distance 1020m

profondeur en cm	nombre de révolutions	n	0,512n ± A	A ± 0,001 ± v
0	Surf.	--	--	--
30	887	2,96	1,5155	1,52
452	901	3,00	1,5360	1,54
900	871	2,90	1,4848	1,49
1348	791	2,64	1,3517	1,35
1796	749	2,50	1,2800	1,28
2224	471	1,57	0,8038	0,80
2264	fond	--	--	--

VERTICALE 8

11h05' — distance 1135m

profondeur en cm	nombre de révolutions	n	0,512n ± A	A ± 0,001 ± v
0	Surf.	--	--	--
30	979	3,26	1,6691	1,67
405	931	3,10	1,5872	1,59
809	920	3,07	1,5718	1,57
1213	858	2,86	1,4643	1,47
1617	732	2,44	1,2493	1,25
2001	519	1,73	0,8858	0,89
2041	fond	--	--	--

VERTICALE 9

10h05' — distance 1295m

profondeur en cm	nombre de révolutions	n	0,512n ± A	A ± 0,001 ± v
0	Surf.	--	--	--
30	839	2,80	1,4336	1,43
351	858	2,86	1,4643	1,47
702	795	2,65	1,3568	1,36
1053	783	2,61	1,3363	1,34
1404	736	2,45	1,2544	1,26
1735	463	1,54	0,7885	0,79
1775	fond	--	--	--

VERTICALE 10

8h20' — distance 1430m

profondeur en cm	nombre de révolutions	n	0,512n ± A	A ± 0,001 ± v
0	Surf.	--	--	--
30	780	2,60	1,3312	1,33
217	764	2,55	1,3056	1,31
432	754	2,51	1,2851	1,29
647	712	2,37	1,2134	1,21
862	594	1,98	1,0138	1,01
1057	460	1,53	0,7834	0,78
1097	fond	--	--	--

VERTICALE 11

8h30' — distance 1525m

profondeur en cm	nombre de révolutions	n	0,512n ± A	A ± 0,001 ± v
0	Surf.	--	--	--
30	782	2,61	1,3363	1,34
167	827	2,76	1,4131	1,41
334	799	2,66	1,3619	1,36
501	723	2,41	1,2339	1,23
668	611	2,04	1,0445	1,05
815	465	1,55	0,7936	0,79
855	fond	--	--	--

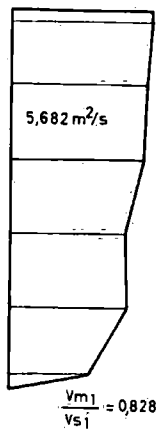
VERTICALE 12

7h30' — distance 1740m

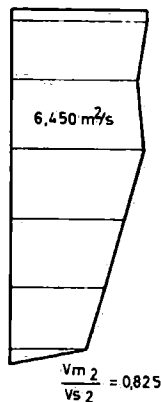
profondeur en cm	nombre de révolutions	n	0,512n ± A	A ± 0,001 ± v
0	Surf.	--	--	--
30	722	2,40	1,2288	1,23
143	725	2,42	1,2390	1,24
273	682	2,27	1,1622	1,16
398	665	2,22	1,1366	1,14
523	588	1,96	1,0035	1,00
628	447	1,49	0,7629	0,76
668	fond	--	--	--

R.D. = 1900m

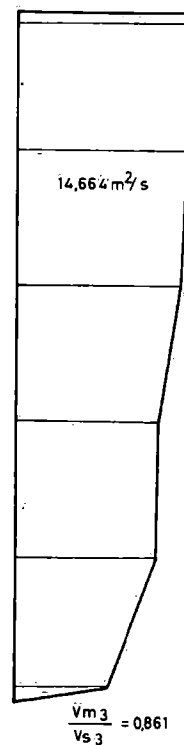
Verticale 1



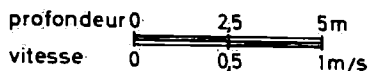
Verticale 2



Verticale 3

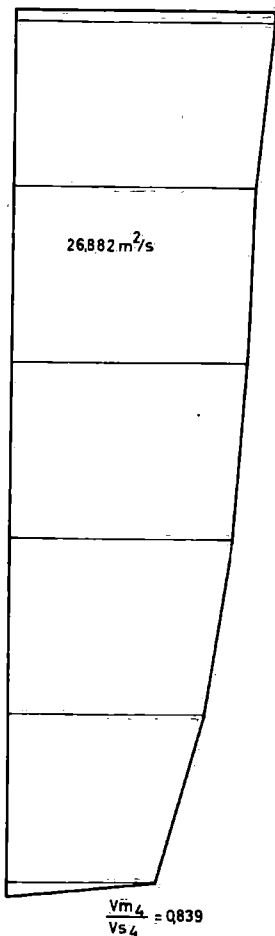


ECHELLES

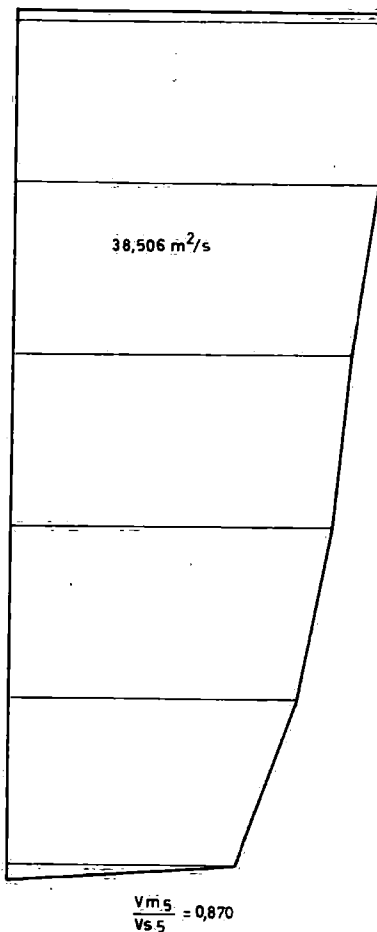


$v = 0,512n + 0,001$
 $n > 0,68$

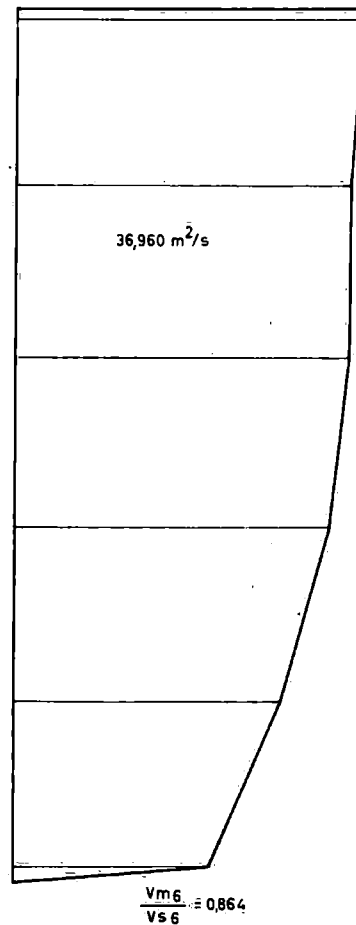
Verticale 4



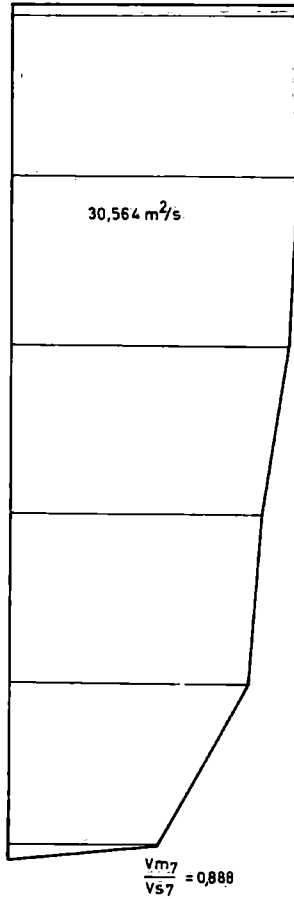
Verticale 5



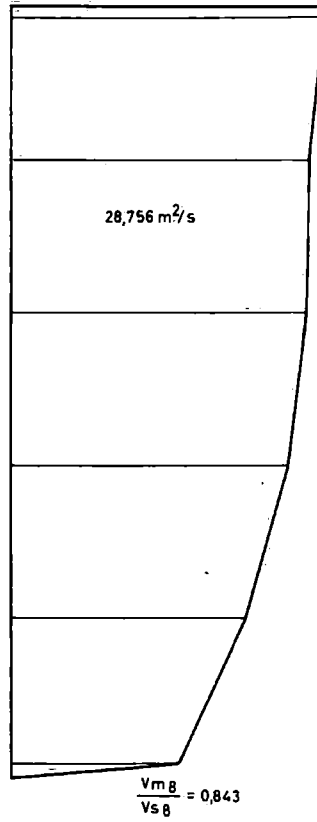
Verticale 6



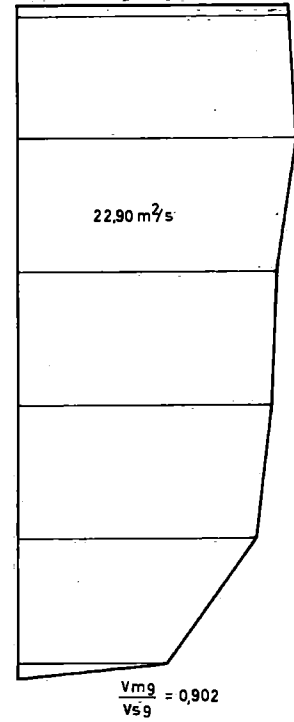
Verticale 7



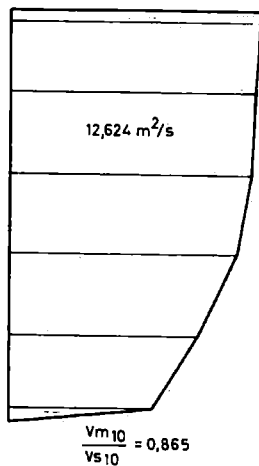
Verticale 8



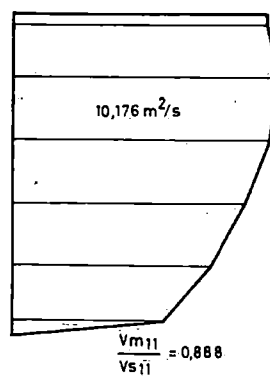
Verticale 9



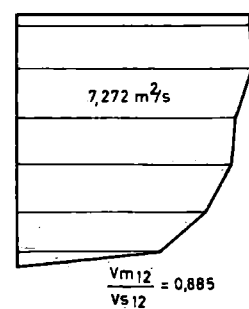
Verticale 10



Verticale 11



Verticale 12

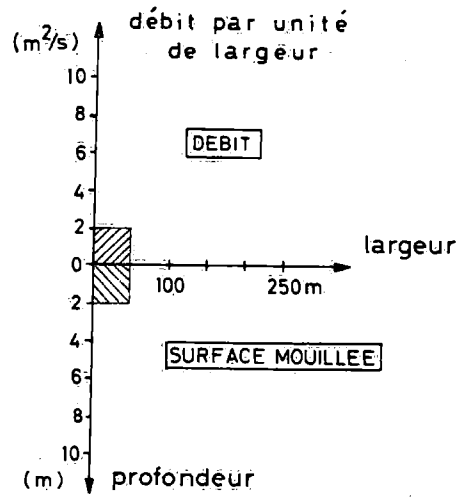


ECHELLES

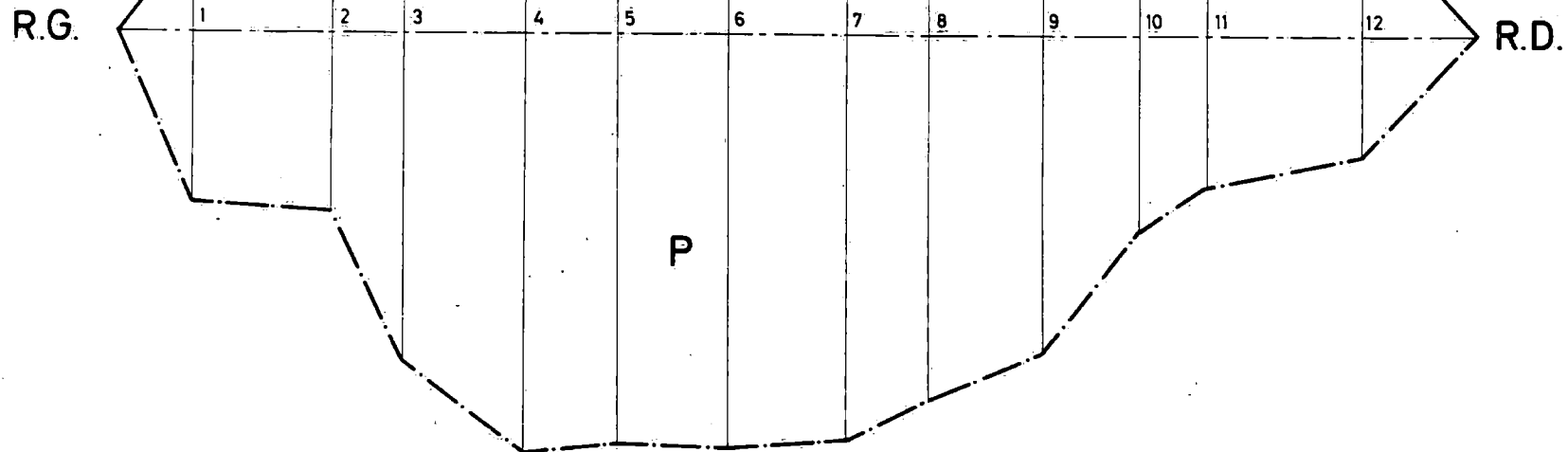
profondeur 0 2,5 5 m
 vitesse 0 0,5 1 m/s

$v = 0,512n + 0,001$

$n > 0,68$



E.E.BOMA = 1,73 m
 DEBIT = 35214 m³/s
 SURFACE MOUILLEE = 28 264 m²
 PROFONDEUR MAXIMUM = 23,38 m
 LARGEUR DE LA SECTION = 1900 m



MOULINET OTT
 ARKANSAS I n°15327
 Hélice n°2

MESURE AU MOULINET
 A BANC D'ANVERS
 LE 30-9 ET 1-10-1968

MOD. 255
 Figure 85 d

MOULINET OTT
ARKANSAS V n°15327
Helice n°2
h Boma = 1,92 m

BANC D'ANVERS
LE 14 ET 15 - 10 - 1968
Temps d'observation = 300"

MOD. 255

Figure 86a

R.G. = 0 m

VERTICALE 1

10h40' — distance 115 m

profondeur en cm	nombre de révolutions	n	0,512 n ± A	A ± 0,001 ± v
0	Surf.	--	--	--
30	483	1,61	0,8243	0,82
201	471	1,57	0,8038	0,80
400	452	1,50	0,7680	0,77
599	404	1,34	0,6860	0,69
798	368	1,22	0,6246	0,62
977	194	0,64	0,3276	0,33
1017	fond	--	--	--

VERTICALE 2

9h40' — distance 280 m

profondeur en cm	nombre de révolutions	n	0,512 n ± A	A ± 0,001 ± v
0	Surf.	--	--	--
30	502	1,67	0,8550	0,85
168	505	1,68	0,8601	0,86
338	500	1,66	0,8499	0,85
508	456	1,52	0,7782	0,78
678	441	1,47	0,7526	0,75
828	374	1,24	0,6348	0,63
868	fond	--	--	--

VERTICALE 3

8h45' — distance 420 m

profondeur en cm	nombre de révolutions	n	0,512 n ± A	A ± 0,001 ± v
0	Surf.	--	--	--
30	553	1,84	0,9420	0,94
352	523	1,74	0,8908	0,89
701	500	1,66	0,8499	0,85
1050	436	1,45	0,7424	0,74
1399	398	1,32	0,6758	0,68
1728	242	0,80	0,4096	0,41
1768	fond	--	--	--

VERTICALE 4

7h40' — distance 570 m

profondeur en cm	nombre de révolutions	n	0,512 n ± A	A ± 0,001 ± v
0	Surf.	--	--	--
30	751	2,50	1,2800	1,28
428	717	2,39	1,2236	1,22
874	704	2,34	1,1980	1,20
1320	599	1,99	1,0188	1,02
1786	565	1,88	0,9625	0,96
2212	384	1,28	0,6553	0,66
2252	fond	--	--	--

VERTICALE 5

6h45' — distance 720 m

profondeur en cm	nombre de révolutions	n	0,512 n ± A	A ± 0,001 ± v
0	Surf.	--	--	--
30	984	3,28	1,6793	1,68
488	968	3,22	1,6486	1,65
976	962	3,20	1,6384	1,64
1464	876	2,92	1,4950	1,50
1952	795	2,65	1,3568	1,36
2420	516	1,72	0,8806	0,88
2460	fond	--	--	--

VERTICALE 6

15h05' — distance 880 m

profondeur en cm	nombre de révolutions	n	0,512 n ± A	A ± 0,001 ± v
0	Surf.	--	--	--
30	1149	3,83	1,9609	1,96
454	1131	3,77	1,9302	1,93
906	1105	3,68	1,8841	1,88
1358	1076	3,58	1,8329	1,83
1810	938	3,12	1,5974	1,60
2242	591	1,97	1,0086	1,01
2282	fond	--	--	--

VERTICALE 7

14h00' — distance 1020 m

profondeur en cm	nombre de révolutions	n	0,512 n ± A	A ± 0,001 ± v
0	Surf.	--	--	--
30	1132	3,77	1,9302	1,93
447	1118	3,72	1,9046	1,90
893	1123	3,74	1,9148	1,91
1339	960	3,20	1,6384	1,64
1785	957	3,19	1,6332	1,68
2211	688	2,29	1,1724	1,17
2251	fond	--	--	--

VERTICALE 8

12h50' — distance 1170 m

profondeur en cm	nombre de révolutions	n	0,512 n ± A	A ± 0,001 ± v
0	Surf.	--	--	--
30	1021	3,40	1,7408	1,74
376	1001	3,33	1,7049	1,70
748	987	3,29	1,6844	1,68
1120	912	3,04	1,5564	1,56
1492	875	2,91	1,4899	1,49
1864	618	2,06	1,0547	1,05
1904	fond	--	--	--

VERTICALE 9

11h50' — distance 1320 m

profondeur en cm	nombre de révolutions	n	0,512 n ± A	A ± 0,001 ± v
0	Surf.	--	--	--
30	919	3,06	1,5667	1,57
387	898	2,99	1,5308	1,53
771	870	2,90	1,4848	1,48
1155	791	2,63	1,3465	1,35
1539	710	2,36	1,2083	1,21
1903	490	1,63	0,8345	0,83
1943	fond	--	--	--

VERTICALE 10

10h50' — distance 1470 m

profondeur en cm	nombre de révolutions	n	0,512 n ± A	A ± 0,001 ± v
0	Surf.	--	--	--
30	860	2,86	1,4643	1,46
213	871	2,90	1,4848	1,48
426	822	2,74	1,4028	1,40
639	829	2,76	1,4131	1,41
852	683	2,27	1,1622	1,16
1045	524	1,74	0,8908	0,89
1085	fond	--	--	--

VERTICALE 11

9h35' — distance 1610 m

profondeur en cm	nombre de révolutions	n	0,512 n ± A	A ± 0,001 ± v
0	Surf.	--	--	--
30	824	2,74	1,4028	1,40
157	789	2,63	1,3465	1,35
311	775	2,58	1,3209	1,32
465	728	2,42	1,2390	1,24
619	652	2,17	1,1110	1,11
753	563	1,87	0,9574	0,96
793	fond	--	--	--

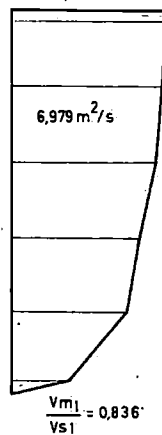
VERTICALE 12

8h05' — distance 1750 m

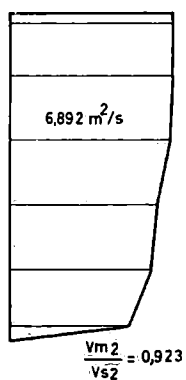
profondeur en cm	nombre de révolutions	n	0,512 n ± A	A ± 0,001 ± v
0	Surf.	--	--	--
30	810	2,70	1,3824	1,38
140	781	2,60	1,3312	1,33
279	752	2,50	1,2800	1,28
418	698	2,32	1,1878	1,19
557	650	2,16	1,1059	1,11
676	565	1,88	0,9625	0,96
716	fond	--	--	--

R.D. = 1920 m

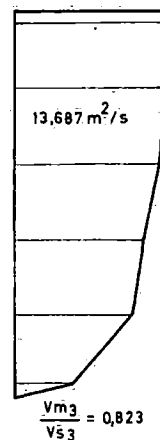
Verticale 1



Verticale 2



Verticale 3



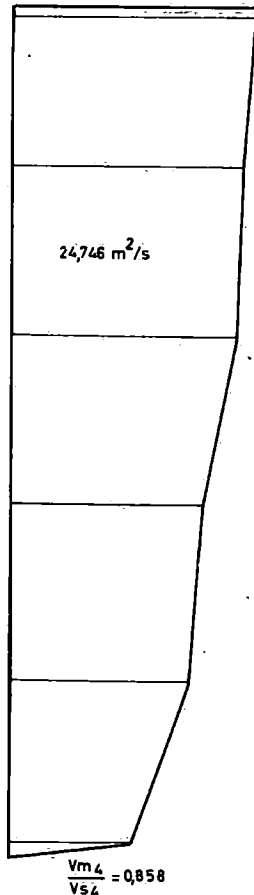
ECHELLE



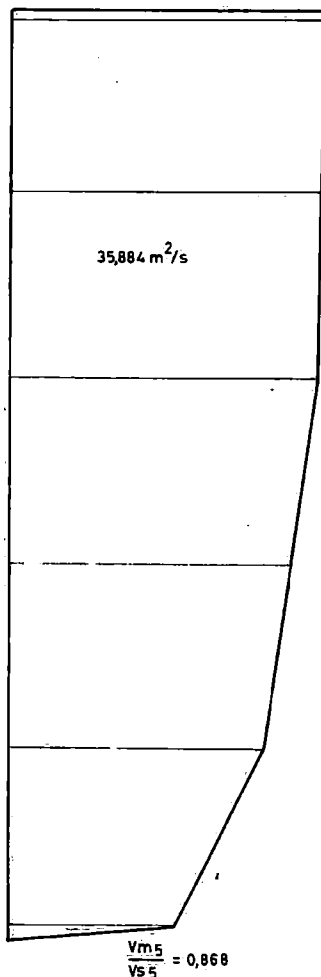
$$v = 0,512n + 0,001$$

$$n > 0,68$$

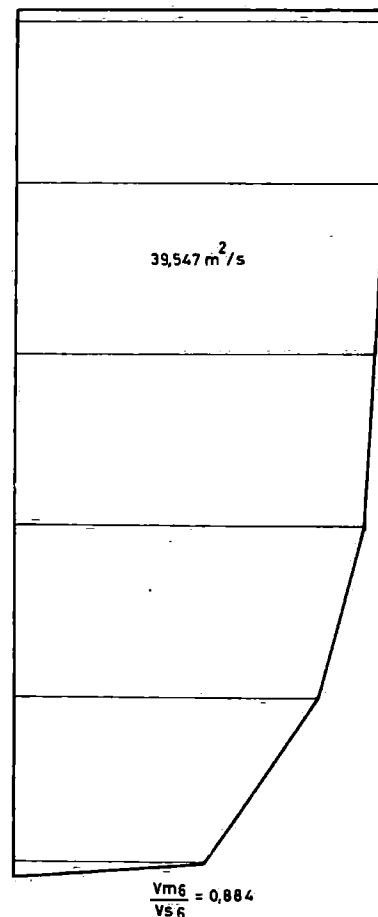
Verticale 4



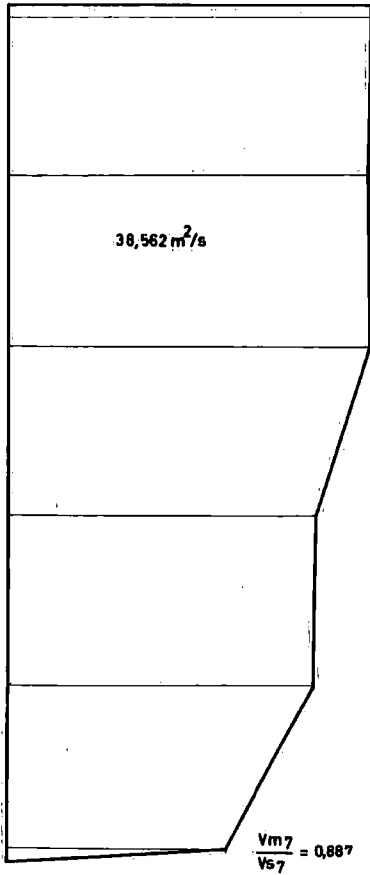
Verticale 5



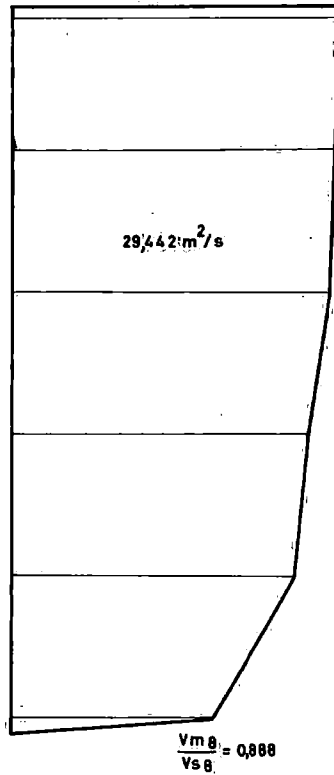
Verticale 6



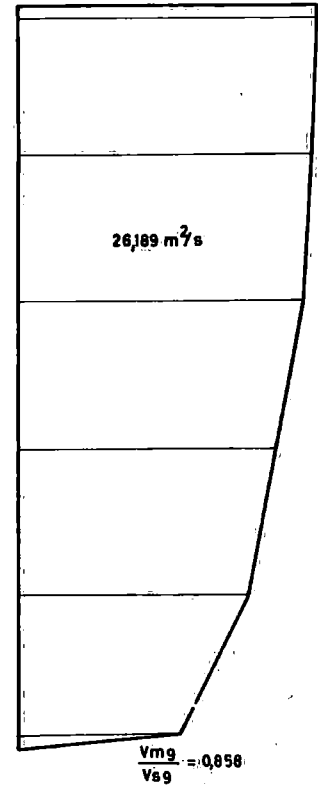
Verticale 7



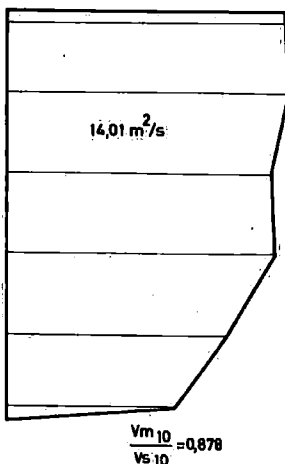
Verticale 8



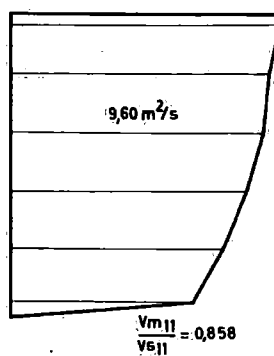
Verticale 9



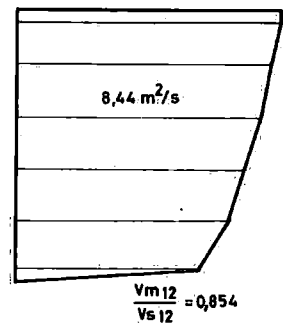
Verticale 10



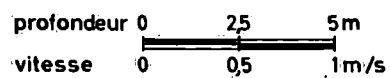
Verticale 11



Verticale 12

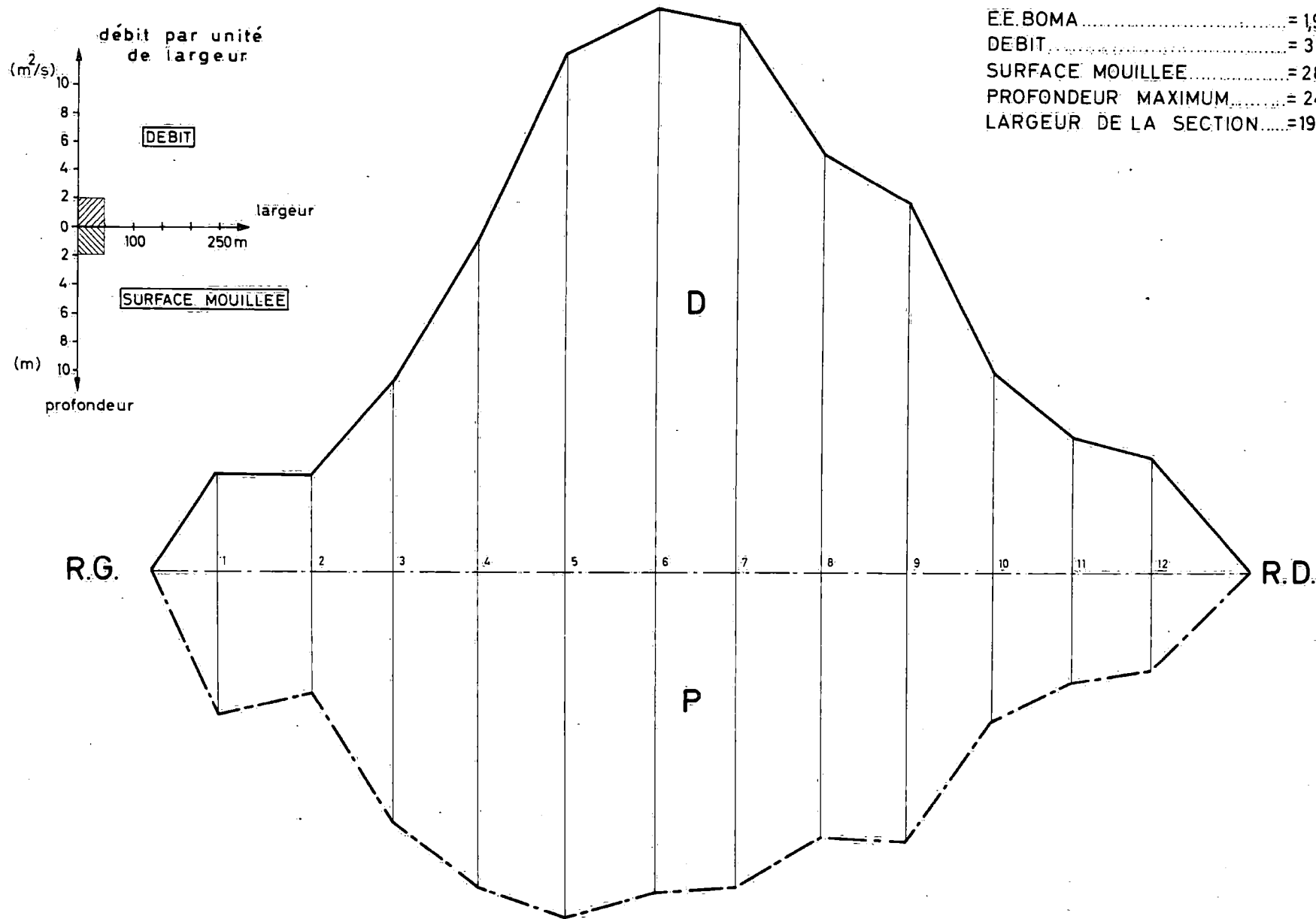


ECHELLE



$v = 0,512n + 0,001$

$n > 0,68$



E.E. BOMA = 192m
 DEBIT = 37730m³/s
 SURFACE MOUILLEE = 28749 m²
 PROFONDEUR MAXIMUM = 24,60 m
 LARGEUR DE LA SECTION = 1920 m

MOULINET OTT
 ARKANSAS T n°15327
 Hélice n°2

MESURE AU MOULINET
 A BANC DANVERS
 LE 14 ET 15 - 10 - 1968

MOD. 255
 Figure 86 D

MOULINET OTT
ARKANSAS V n°15327
Hélice n°2
h_{Boma} = 2,23m

BANC D'ANVERS
LE 28/29 - 10 - 1968
Temps d'observation = 300"

MOD. 255

Figure 87 a

R.G. = 0m

VERTICALE 1

VERTICALE 2

VERTICALE 3

12h45' — distance 120m

12h00' — distance 300m

11h10' — distance 430m

profondeur en cm	nombre de révolutions	n	0,512n ± A	A ± 0,001 ± v
0	Surf.	--	--	--
30	512	1,70	0,8704	0,87
192	507	1,69	0,8652	0,87
382	511	1,70	0,8704	0,87
572	447	1,49	0,7628	0,76
762	437	1,45	0,7424	0,74
932	337	1,12	0,5734	0,57
972	fond	--	--	--

profondeur en cm	nombre de révolutions	n	0,512n ± A	A ± 0,001 ± v
0	Surf.	--	--	--
30	531	1,77	0,9062	0,91
187	522	1,74	0,8908	0,89
373	480	1,60	0,8192	0,82
559	460	1,53	0,7833	0,78
745	425	1,41	0,7219	0,72
911	399	1,33	0,6809	0,68
951	fond	--	--	--

profondeur en cm	nombre de révolutions	n	0,512n ± A	A ± 0,001 ± v
0	Surf.	--	--	--
30	681	2,25	1,1622	1,16
340	636	2,12	1,0854	1,09
790	642	2,14	1,0956	1,10
1190	580	1,93	0,9881	0,99
1594	522	1,74	0,8908	0,89
1974	396	1,32	0,6756	0,68
2014	fond	--	--	--

VERTICALE 4

VERTICALE 5

VERTICALE 6

10h00' — distance 575 m

8h50' — distance 705 m

7h35' — distance 870 m

profondeur en cm	nombre de révolutions	n	0,512n ± A	A ± 0,001 ± v
0	Surf.	--	--	--
30	814	2,71	1,3875	1,39
460	806	2,68	1,3721	1,37
920	737	2,45	1,2544	1,25
1380	600	2,00	1,0240	1,02
1840	653	2,17	1,1110	1,11
2280	410	1,43	0,7321	0,73
2320	fond	--	--	--

profondeur en cm	nombre de révolutions	n	0,512n ± A	A ± 0,001 ± v
0	Surf.	--	--	--
30	1082	3,60	1,8432	1,84
489	1110	3,70	1,8944	1,89
980	1074	3,58	1,8329	1,83
1471	956	3,18	1,6281	1,63
1962	907	3,02	1,5462	1,55
2433	608	2,02	1,0342	1,03
2473	fond	--	--	--

profondeur en cm	nombre de révolutions	n	0,512n ± A	A ± 0,001 ± v
0	Surf.	--	--	--
30	1175	3,91	2,0019	2,00
474	1165	3,88	1,9865	1,99
948	1104	3,68	1,8841	1,88
1422	1096	3,65	1,8688	1,87
1896	962	3,20	1,6384	1,64
2440	608	1,99	1,0188	1,02
2390	fond	--	--	--

VERTICALE 7

VERTICALE 8

VERTICALE 9

11h50' — distance 1020m

10h50' — distance 1170 m

9h45' — distance 1310 m

profondeur en cm	nombre de révolutions	n	0,512n ± A	A ± 0,001 ± v
0	Surf.	--	--	--
30	1153	3,84	1,9660	1,97
446	1189	3,96	2,0275	2,03
894	1124	3,74	1,9148	1,91
1342	1067	3,55	1,8176	0,82
1790	952	3,17	1,6230	1,62
2218	765	2,55	1,3056	1,31
2258	fond	--	--	--

profondeur en cm	nombre de révolutions	n	0,512n ± A	A ± 0,001 ± v
0	Surf.	--	--	--
30	1011	3,37	1,7254	1,73
408	1017	3,39	1,7356	1,74
816	978	3,26	1,6691	1,67
1224	907	3,02	1,5462	1,55
1632	800	2,66	1,3619	1,36
2020	464	1,54	0,7884	0,79
2060	fond	--	--	--

profondeur en cm	nombre de révolutions	n	0,512n ± A	A ± 0,001 ± v
0	Surf.	--	--	--
30	1011	3,37	1,7254	1,73
407	950	3,16	1,6179	1,62
814	934	3,11	1,5923	1,59
1221	803	2,67	1,3670	1,37
1628	767	2,55	1,3056	1,31
2015	424	1,41	0,7219	1,72
2055	fond	--	--	--

VERTICALE 10

VERTICALE 11

VERTICALE 12

9h00' — distance 1460 m

7h45' — distance 1615 m

5h35' — distance 1750 m

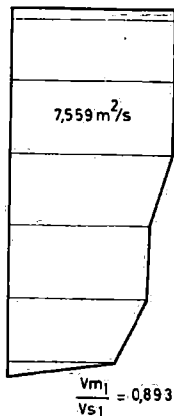
profondeur en cm	nombre de révolutions	n	0,512n ± A	A ± 0,001 ± v
0	Surf.	--	--	--
30	941	3,13	1,6025	1,60
244	930	3,10	1,5872	1,59
489	873	2,91	1,4899	1,49
734	812	2,70	1,3824	1,38
979	763	2,54	1,3004	1,30
1204	574	1,91	0,9779	0,98
1244	fond	--	--	--

profondeur en cm	nombre de révolutions	n	0,512n ± A	A ± 0,001 ± v
0	Surf.	--	--	--
30	850	2,83	1,4489	1,45
180	809	2,69	1,3772	1,38
360	788	2,62	1,3414	1,34
540	768	2,56	1,3107	1,31
720	714	2,38	1,2185	1,22
880	558	1,86	0,9523	0,95
920	fond	--	--	--

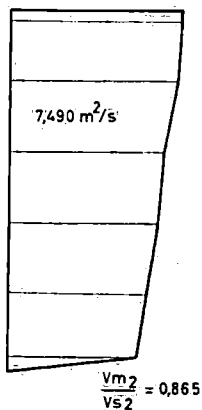
profondeur en cm	nombre de révolutions	n	0,512n ± A	A ± 0,001 ± v
0	Surf.	--	--	--
30	784	2,61	1,3363	1,34
149	791	2,63	1,3465	1,35
299	761	2,53	1,2953	1,30
449	722	2,40	1,2288	1,23
599	602	2,00	1,0240	1,02
729	455	1,51	0,7731	0,77
769	fond	--	--	--

R.D. = 1920m

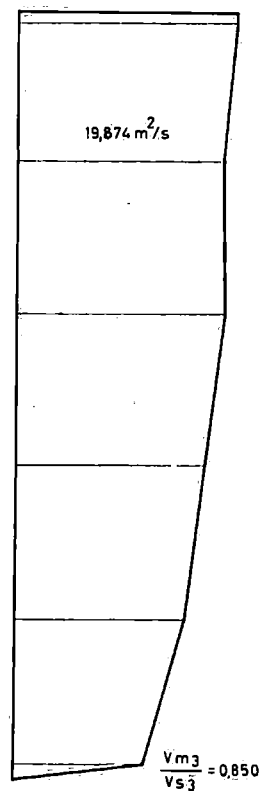
Verticale 1



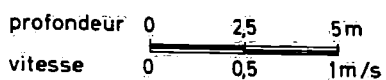
Verticale 2



Verticale 3



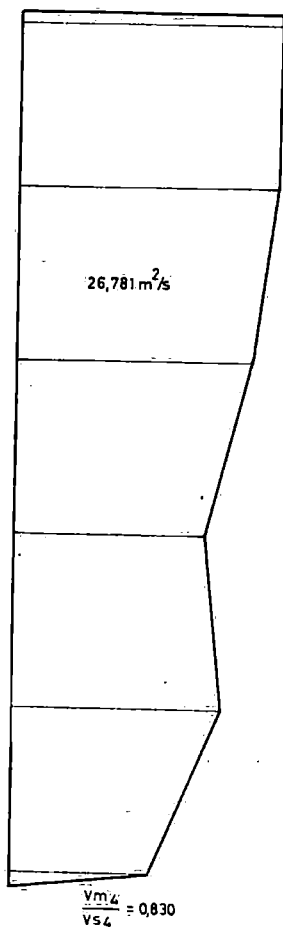
ECHELLE



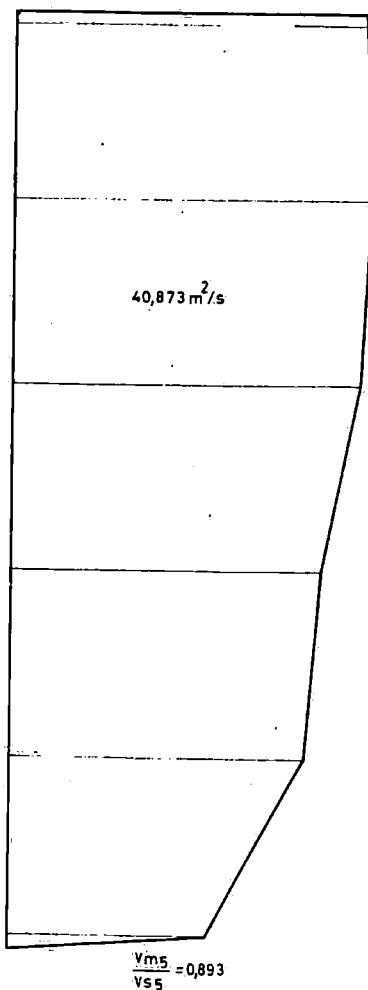
$$v = 0,512 n + 0,001$$

$$n > 0,68$$

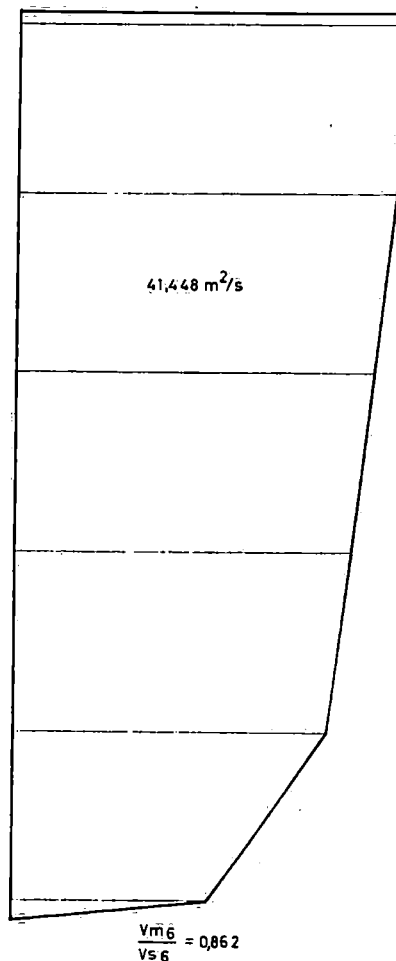
Verticale 4



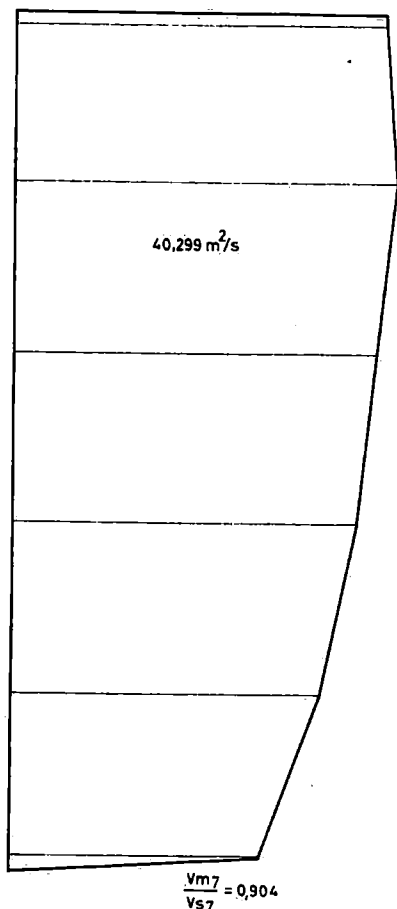
Verticale 5



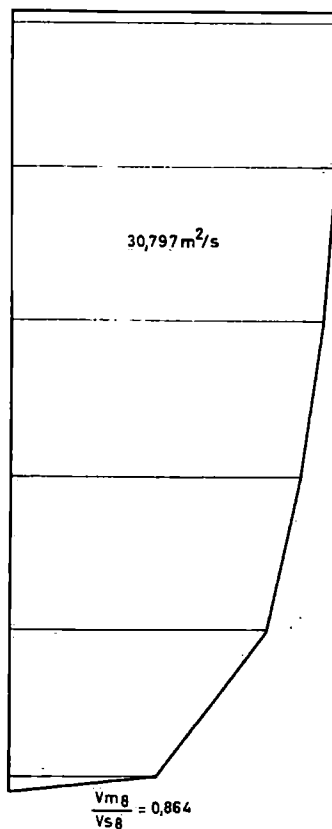
Verticale 6



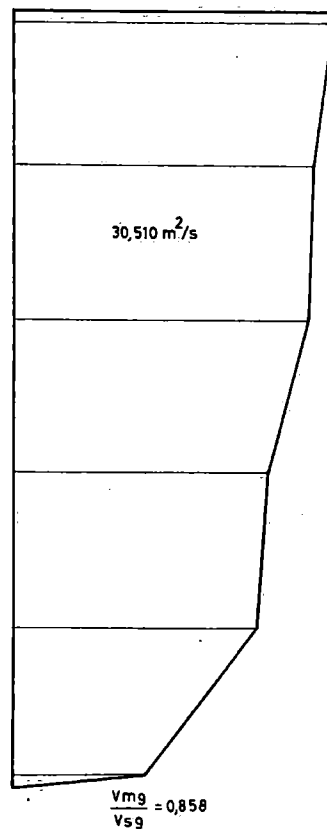
Verticale 7



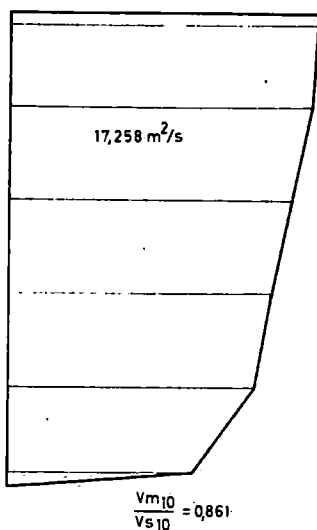
Verticale 8



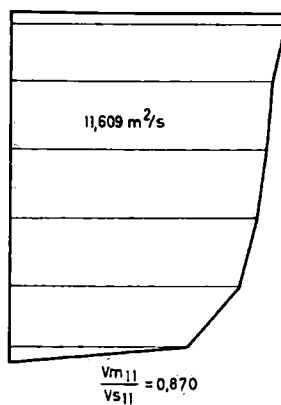
Verticale 9



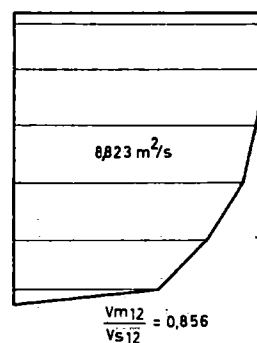
Verticale 10



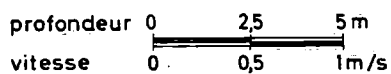
Verticale 11



Verticale 12

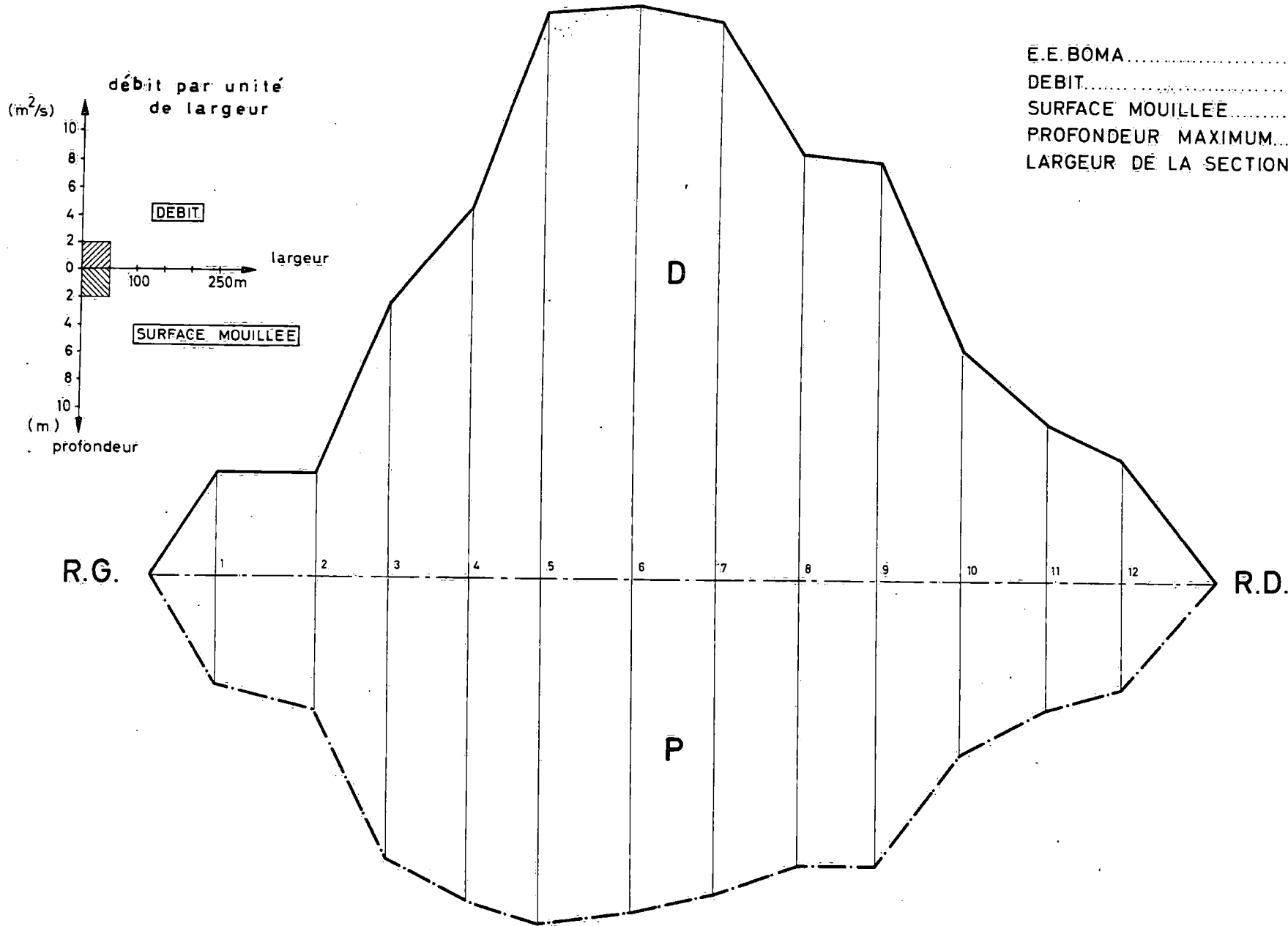


ECHELLE



$v = 0,512n + 0,001$

$n > 0,68$



É. E. BÔMA = 2,23m
 DEBIT = 41708m³/s
 SURFACE MOUILLÉE = 30061m²
 PROFONDEUR MAXIMUM = 24,73m
 LARGEUR DE LA SECTION = 1920m

MOULINET OTT
 ARKANSAS V n° 15.327
 Hélice n°2

MESURE AU MOULINET
 A BANC D'ANVERS
 LE 28 ET 29 - 10 - 1968

MOD. 255
 Figure 87 d

MOULINET OTT
ARKANSAS II n°15.327
Hélice n° 2
h Boma = 2,52 m

BANC D'ANVERS
LE 14 ET 15-11-1968
Temps d'observation = 300"

MOD. 255

Figure 88 a

R.G. = 0m

VERTICALE 1

8h15' distance 120m

profondeur en cm	nombre de révolutions	n	0,512n ± A	A ± 0,001 ± v
0	Surf.	--	--	--
30	524	1,74	0,8939	0,89
192	540	1,80	0,9216	0,92
383	509	1,69	0,8683	0,87
574	495	1,65	0,8448	0,84
765	432	1,44	0,7372	0,74
936	422	1,40	0,7198	0,72
976	fond	--	--	--

VERTICALE 2

7h25' distance 305 m

profondeur en cm	nombre de révolutions	n	0,512n ± A	A ± 0,001 ± v
0	Surf.	--	--	--
30	578	1,92	0,9861	0,99
260	579	1,93	0,9881	0,99
520	542	1,80	0,9246	0,92
780	537	1,79	0,9164	0,92
1040	507	1,69	0,8652	0,87
1280	411	1,37	0,7014	0,70
1320	fond	--	--	--

VERTICALE 3

15h53' distance 420 m

profondeur en cm	nombre de révolutions	n	0,512n ± A	A ± 0,001 ± v
0	Surf.	--	--	--
30	641	2,13	1,0936	1,09
357	659	2,19	1,1243	1,12
714	706	2,35	1,2047	1,20
1071	642	2,14	1,0956	1,10
1428	533	1,77	0,9093	0,91
1785	457	1,52	0,7797	0,78
1805	fond	--	--	--

VERTICALE 4

15h00' distance 580m

profondeur en cm	nombre de révolutions	n	0,512n ± A	A ± 0,001 ± v
0	Surf.	--	--	--
30	897	2,99	2,4985	2,50
428	907	3,02	2,5477	2,55
856	875	2,91	2,4929	2,49
1284	820	2,73	2,3992	2,40
1712	659	2,19	1,1243	1,12
2120	502	1,67	0,8567	0,86
2160	fond	--	--	--

VERTICALE 5

14h00' distance 710m

profondeur en cm	nombre de révolutions	n	0,512n ± A	A ± 0,001 ± v
0	Surf.	--	--	--
30	1248	4,16	2,1299	2,13
446	1203	4,01	2,0531	2,05
890	1126	3,75	1,9215	1,92
1334	1115	3,71	1,9025	1,90
1778	1045	3,48	1,7832	1,78
2202	786	2,62	1,3414	1,34
2242	fond	--	--	--

VERTICALE 6

12h40' distance 660m

profondeur en cm	nombre de révolutions	n	0,512n ± A	A ± 0,001 ± v
0	Surf.	--	--	--
30	1268	4,22	2,1637	2,16
467	1204	4,01	2,0546	2,05
932	1216	4,06	2,0802	2,08
1397	1144	3,81	1,9522	1,95
1862	971	3,23	1,6568	1,66
2307	622	2,07	1,0613	1,06
2347	fond	--	--	--

VERTICALE 7

12h00' distance 1010m

profondeur en cm	nombre de révolutions	n	0,512n ± A	A ± 0,001 ± v
0	Surf.	--	--	--
30	1283	4,27	2,1893	2,19
483	1286	4,28	2,1944	2,19
967	1193	3,97	2,0357	2,04
1450	1124	3,74	1,9177	1,92
1934	1064	3,54	1,8155	1,82
2397	649	2,16	1,1074	1,11
2437	fond	--	--	--

VERTICALE 8

10h55' distance 1160m

profondeur en cm	nombre de révolutions	n	0,512n ± A	A ± 0,001 ± v
0	Surf.	--	--	--
30	1158	3,86	1,9763	1,98
402	1154	3,84	1,9691	1,97
804	1172	3,90	1,9998	2,00
1206	1073	3,57	1,8278	1,83
1608	997	3,32	1,7013	1,70
1990	886	2,95	1,5119	1,51
2030	fond	--	--	--

VERTICALE 9

10h00' distance 1320m

profondeur en cm	nombre de révolutions	n	0,512n ± A	A ± 0,001 ± v
0	Surf.	--	--	--
30	1076	3,58	1,8360	1,84
450	1071	3,57	1,8278	1,83
800	1026	3,42	1,7510	1,75
1150	891	2,97	1,5206	1,52
1400	831	2,77	1,4182	1,42
1730	653	2,17	1,1141	1,11
1770	fond	--	--	--

VERTICALE 10

9h00' distance 1445m

profondeur en cm	nombre de révolutions	n	0,512n ± A	A ± 0,001 ± v
0	Surf.	--	--	--
30	1055	3,51	1,8058	1,81
303	1037	3,45	1,7694	1,77
607	993	3,31	1,6947	1,69
911	928	3,09	1,5836	1,58
1215	782	2,60	1,3342	1,33
1499	575	1,91	0,9809	0,98
1539	fond	--	--	--

VERTICALE 11

8h10' distance 1605m

profondeur en cm	nombre de révolutions	n	0,512n ± A	A ± 0,001 ± v
0	Surf.	--	--	--
30	931	3,10	1,5887	1,59
215	971	3,23	1,6568	1,66
420	895	2,98	1,5272	1,53
644	830	2,76	1,4161	1,42
858	740	2,46	1,2625	1,26
1073	648	2,16	1,1059	1,11
1113	fond	--	--	--

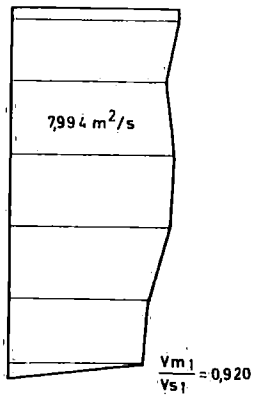
VERTICALE 12

7h15' distance 1745m

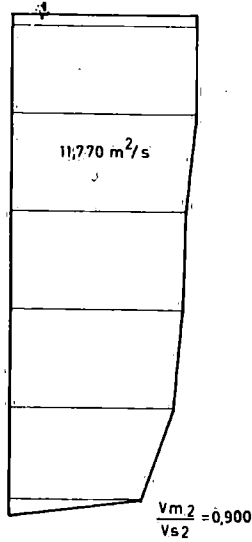
profondeur en cm	nombre de révolutions	n	0,512n ± A	A ± 0,001 ± v
0	Surf.	--	--	--
30	841	2,80	1,4351	1,44
174	889	2,96	1,5170	1,52
347	825	2,75	1,4080	1,41
521	748	2,49	1,2764	1,28
694	604	2,01	1,0306	1,03
868	449	1,49	0,7659	0,77
908	fond	--	--	--

R.D. = 1920 m

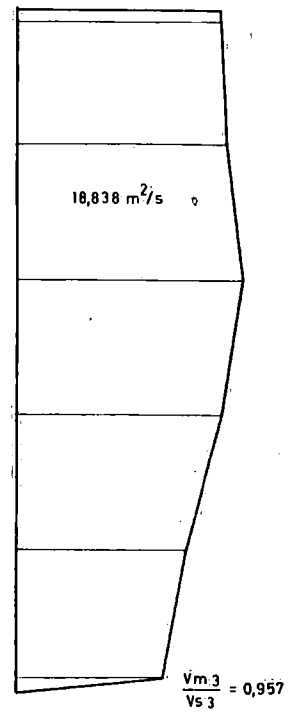
Verticale 1



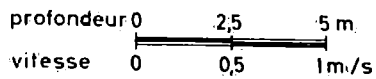
Verticale 2



Verticale 3



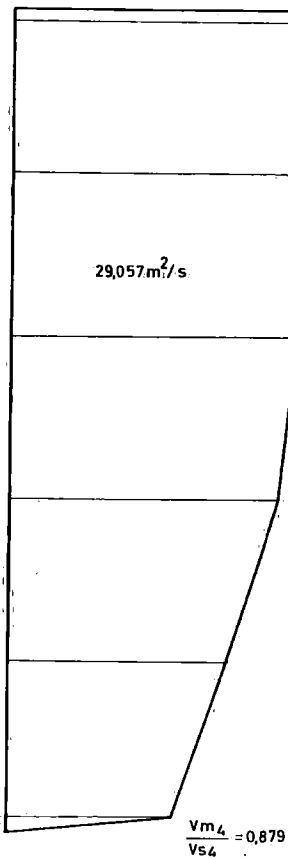
ECHELLE



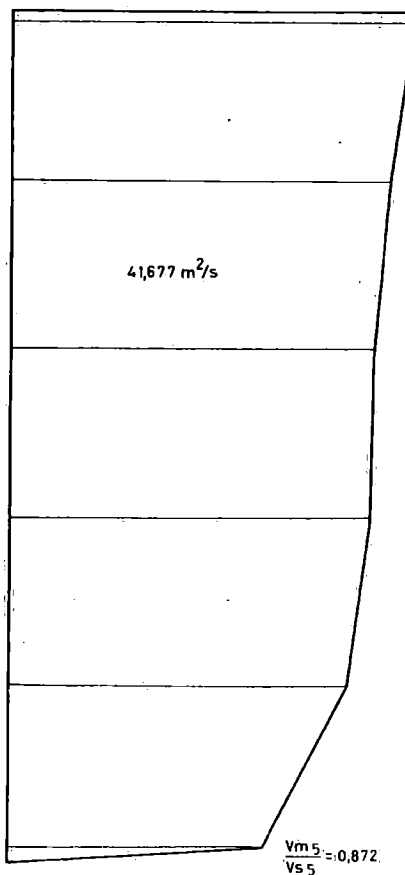
$$v = 0,512n + 0,001$$

$$n > 0,68$$

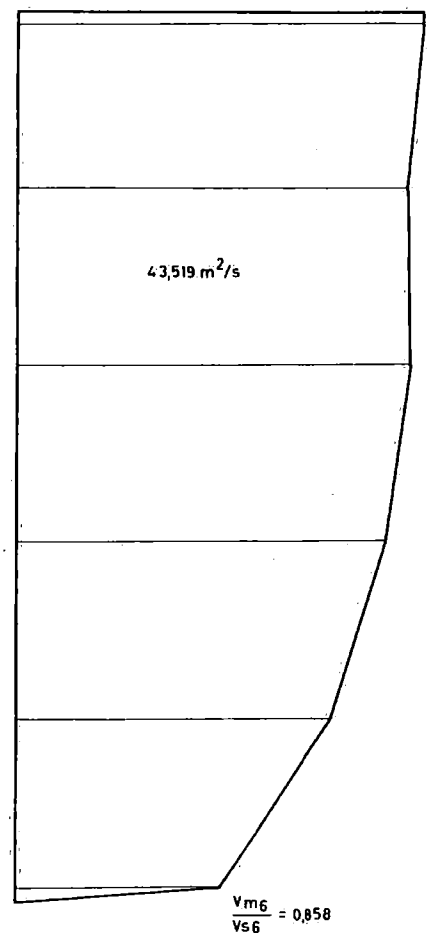
Verticale 4



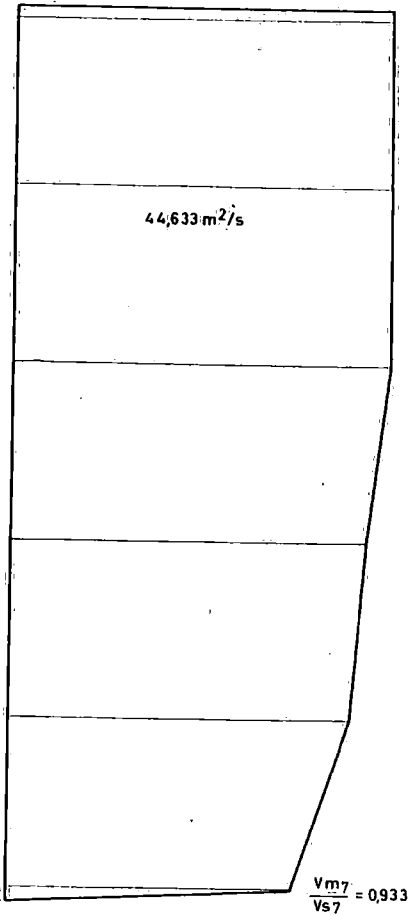
Verticale 5



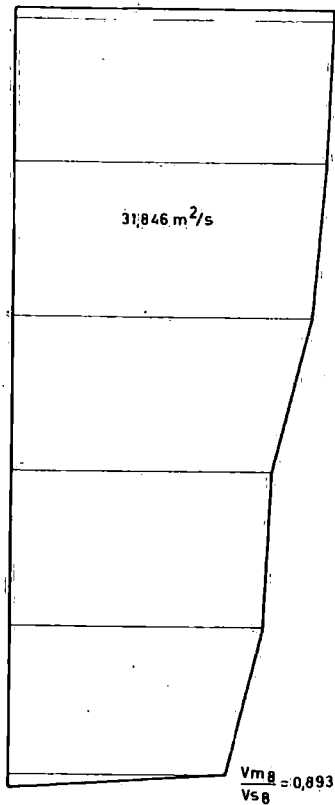
Verticale 6



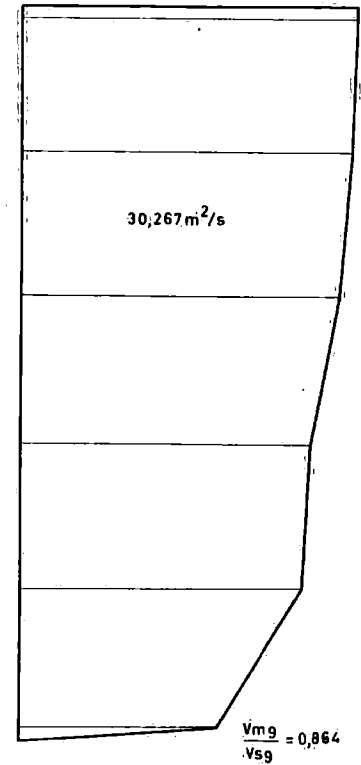
Verticale 7



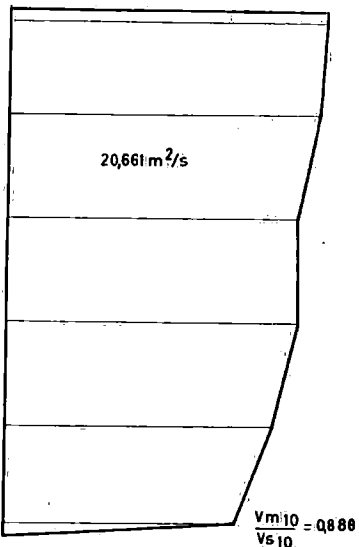
Verticale 8



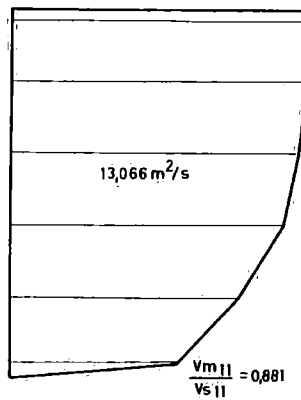
Verticale 9



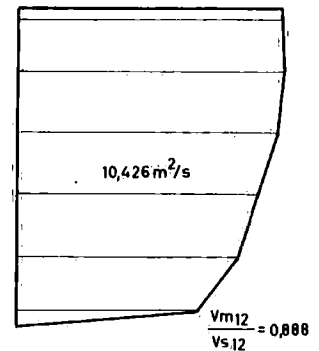
Verticale 10



Verticale 11



Verticale 12

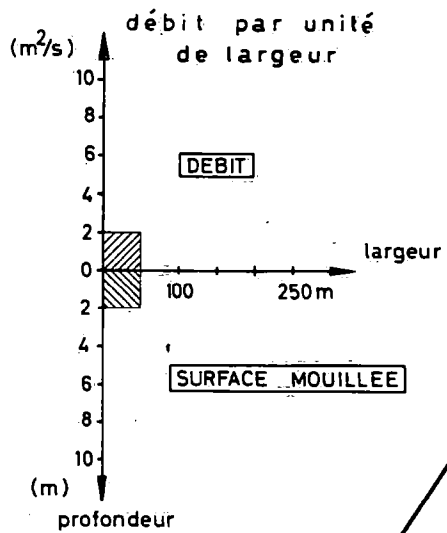


ECHELLE

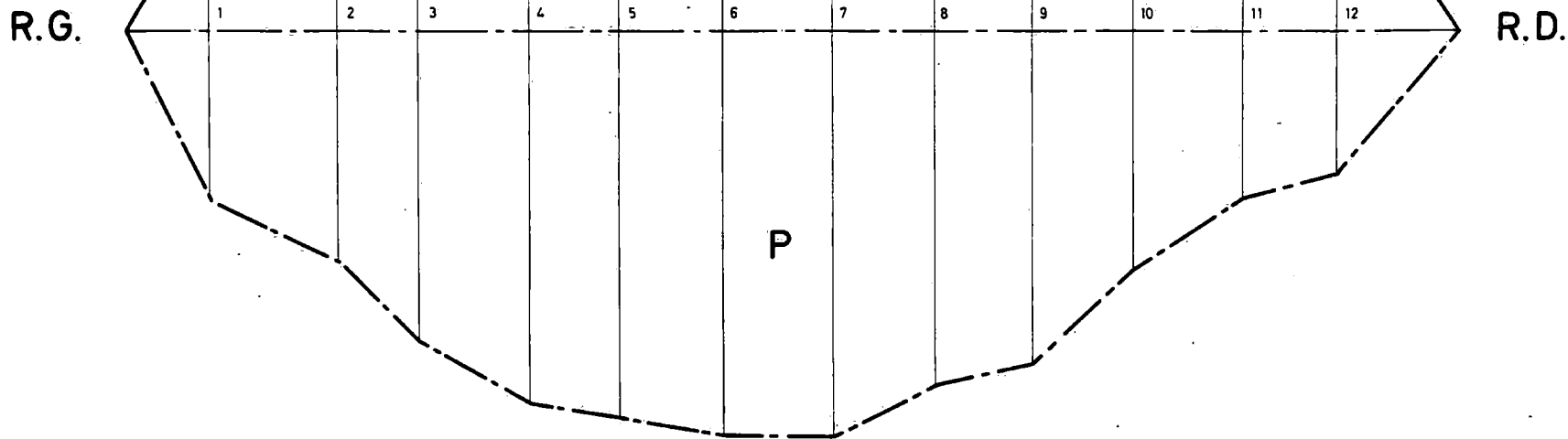
profondeur: 0 2,5 5 m
 vitesse: 0 0,5 1 m/s

$v = 0,512 \cdot n + 0,001$

$n > 0,68$



E.E.BOMA.....=2,52 m
 DEBIT.....= 44.690 m³/s
 SURFACE MOUILLEE.....= 34.243 m²
 PROFONDEUR MAXIMUM.....= 23,55 m
 LARGEUR DE LA SECTION.....= 1920 m



MOULINET OTT
 ARKANSAS I n°15327
 Hélice n°2

MESURE AU MOULINET
 A BANC D'ANVERS
 LE 14 ET 15 - 11 - 1968

MOD. 255

Figure 88 d

R.G. = 0 m

VERTICALE 1

8h07' — distance 115 m

profondeur en cm	nombre de révolutions	n	0,512n ± A	A ± 0,001 ± v
0	Surf.	--	--	--
30	551	1,83	0,9309	0,94
207	566	1,88	0,9656	0,97
413	537	1,79	0,9164	0,92
620	549	1,83	0,9309	0,94
826	448	1,49	0,7644	0,76
1013	368	1,22	0,6277	0,63
1053	fond	--	--	--

VERTICALE 2

7h20' — distance 305 m

profondeur en cm	nombre de révolutions	n	0,512n ± A	A ± 0,001 ± v
0	Surf.	--	--	--
30	617	2,05	1,0526	1,05
204	608	2,02	1,0373	1,04
408	567	1,89	0,9676	0,97
611	571	1,90	0,9743	0,97
815	490	1,63	0,8360	0,84
1019	411	1,37	0,7014	0,70
1039	fond	--	--	--

VERTICALE 3

16h00' — distance 420 m

profondeur en cm	nombre de révolutions	n	0,512n ± A	A ± 0,001 ± v
0	Surf.	--	--	--
30	719	2,39	1,2267	1,23
372	711	2,37	1,2134	1,21
744	626	2,08	1,0680	1,07
1116	623	2,07	1,0629	1,06
1488	561	1,87	0,9574	0,96
1840	353	1,17	0,6021	0,60
1880	fond	--	--	--

VERTICALE 4

15h05' — distance 570 m

profondeur en cm	nombre de révolutions	n	0,512n ± A	A ± 0,001 ± v
0	Surf.	--	--	--
30	935	3,11	1,5953	1,60
466	935	3,11	1,5953	1,60
932	882	2,94	1,5052	1,51
1398	852	2,84	1,4540	1,45
1864	726	2,42	1,2390	1,24
2310	654	2,18	1,1161	1,12
2350	fond	--	--	--

VERTICALE 5

14h08' — distance 695 m

profondeur en cm	nombre de révolutions	n	0,512n ± A	A ± 0,001 ± v
0	Surf.	--	--	--
30	1298	4,32	2,2149	2,21
462	1271	4,23	2,1688	2,17
925	1204	4,01	2,0546	2,05
1387	1164	3,88	1,9865	1,99
1850	1053	3,51	1,7971	1,80
2292	589	1,96	1,0050	1,00
2332	fond	--	--	--

VERTICALE 6

13h10' — distance 855 m

profondeur en cm	nombre de révolutions	n	0,512n ± A	A ± 0,001 ± v
0	Surf.	--	--	--
30	1286	4,28	2,1944	2,19
478	1337	4,45	2,2814	2,28
955	1329	4,43	2,2681	2,27
1433	1075	3,58	1,8344	1,83
1910	1008	3,36	1,7203	1,72
2368	646	2,15	1,1023	1,10
2408	fond	--	--	--

VERTICALE 7

11h43' — distance 1015 m

profondeur en cm	nombre de révolutions	n	0,512n ± A	A ± 0,001 ± v
0	Surf.	--	--	--
30	1192	3,97	2,0341	2,03
467	1202	4,00	2,0510	2,05
934	1213	4,04	2,0700	2,07
1401	1101	3,67	1,8790	1,88
1868	1053	3,51	1,7971	1,80
2315	878	2,92	1,4981	1,50
2355	fond	--	--	--

VERTICALE 8

10h50' — distance 1165 m

profondeur en cm	nombre de révolutions	n	0,512n ± A	A ± 0,001 ± v
0	Surf.	--	--	--
30	997	3,32	1,7013	1,70
466	977	3,25	1,6670	1,67
814	933	3,11	1,5923	1,59
1222	810	2,70	1,3824	1,38
1630	787	2,62	1,3429	1,34
2018	673	2,24	1,1484	1,15
2058	fond	--	--	--

VERTICALE 9

9h50' — distance 1305 m

profondeur en cm	nombre de révolutions	n	0,512n ± A	A ± 0,001 ± v
0	Surf.	--	--	--
30	1055	3,51	1,8001	1,80
384	1038	3,46	1,7715	1,77
769	998	3,32	1,7029	1,70
1154	901	3,00	1,5375	1,54
1539	878	2,92	1,4981	1,50
1904	550	1,83	0,9384	0,94
1944	fond	--	--	--

VERTICALE 10

8h55' — distance 1450 m

profondeur en cm	nombre de révolutions	n	0,512n ± A	A ± 0,001 ± v
0	Surf.	--	--	--
30	983	3,27	1,6773	1,68
273	965	3,21	1,6465	1,65
546	899	2,99	1,5339	1,53
819	902	3,00	1,5390	1,54
1092	827	2,75	1,4110	1,41
1345	707	2,35	1,2062	1,21
1385	fond	--	--	--

VERTICALE 11

7h57' — distance 1610 m

profondeur en cm	nombre de révolutions	n	0,512n ± A	A ± 0,001 ± v
0	Surf.	--	--	--
30	895	2,98	1,5272	1,53
189	913	3,04	1,5580	1,56
379	882	2,94	1,5052	1,51
569	839	2,79	1,4315	1,43
759	703	2,34	1,1996	1,20
929	514	1,71	0,8770	0,88
969	fond	--	--	--

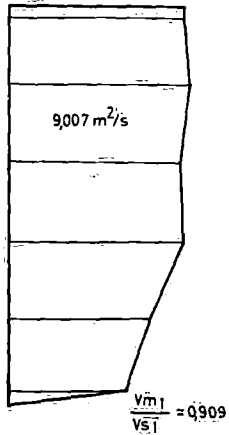
VERTICALE 12

7h05' — distance 1745 m

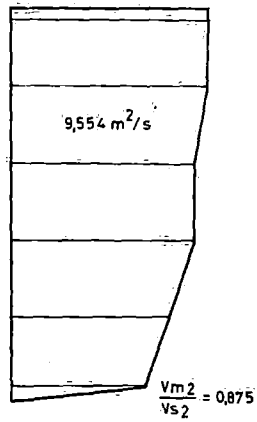
profondeur en cm	nombre de révolutions	n	0,512n ± A	A ± 0,001 ± v
0	Surf.	--	--	--
30	820	2,73	1,3992	1,40
162	826	2,75	1,4095	1,41
326	806	2,68	1,3752	1,38
490	743	2,47	1,2677	1,27
654	681	2,27	1,1622	1,16
798	553	1,84	0,9436	0,94
838	fond	--	--	--

R.D. = 1920 m

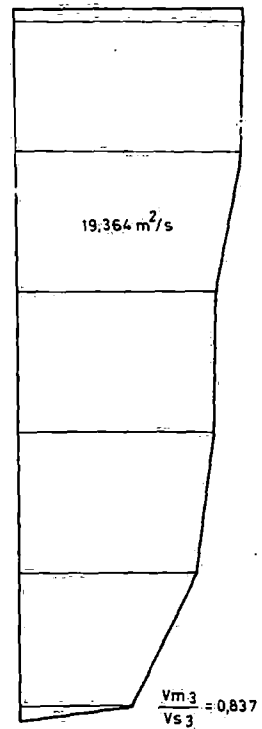
Verticale 1



Verticale 2



Verticale 3

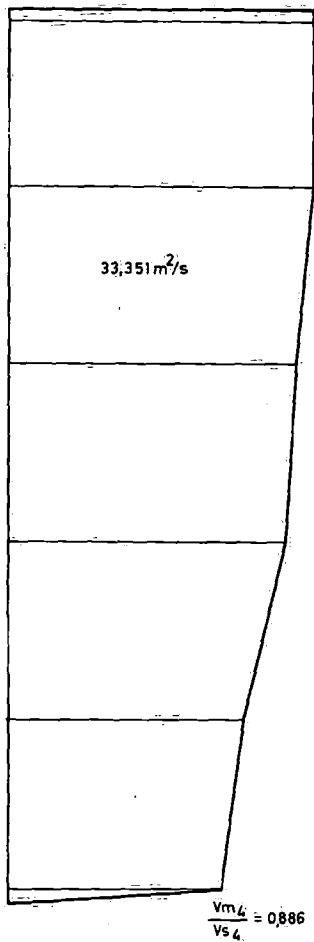


ECHELLE

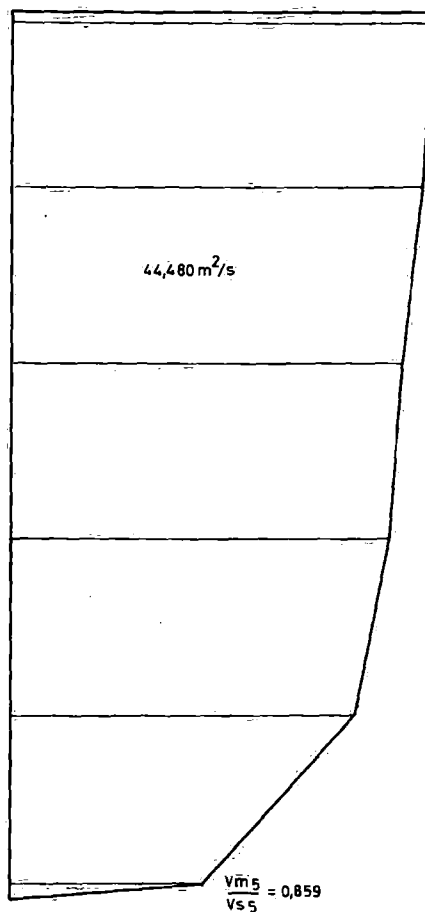
profondeur : 0 2,5 5 m
 vitesse : 0 0,5 1 m/s

$v = 0,512n + 0,001$
 $n > 0,68$

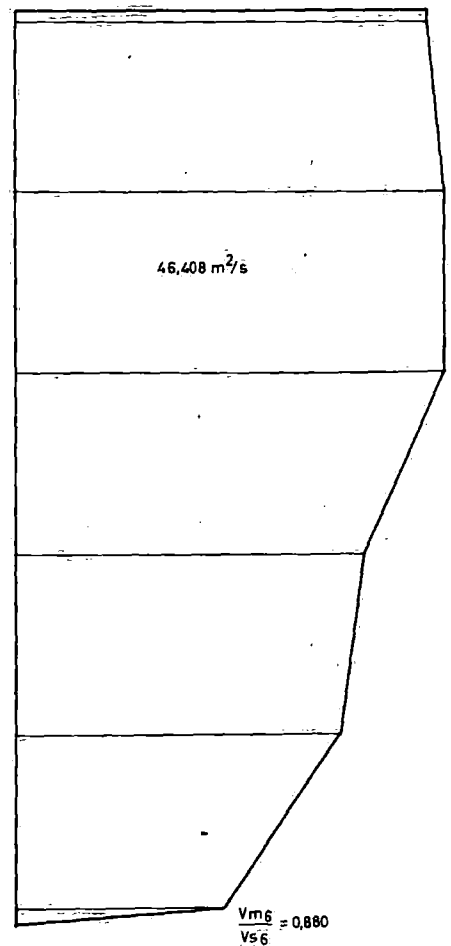
Verticale 4



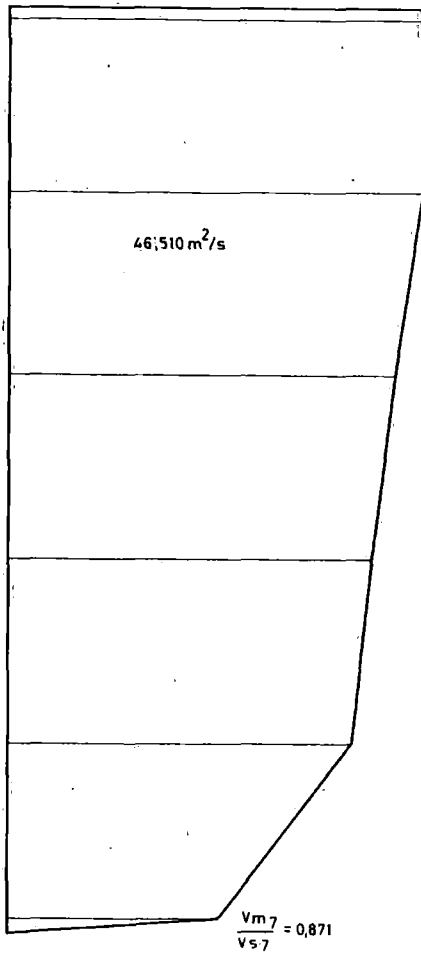
Verticale 5



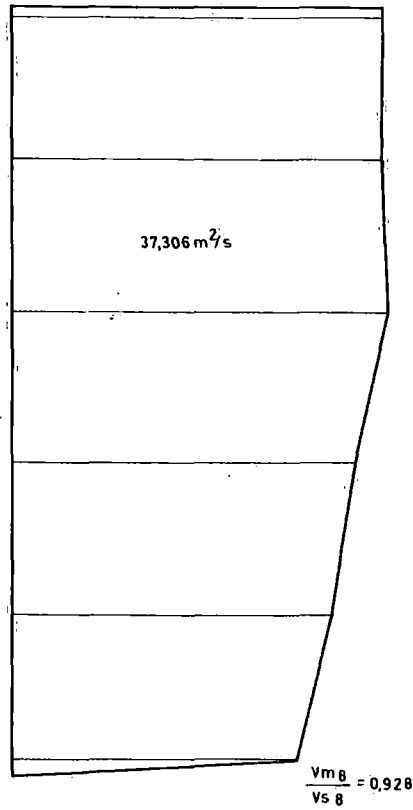
Verticale 6



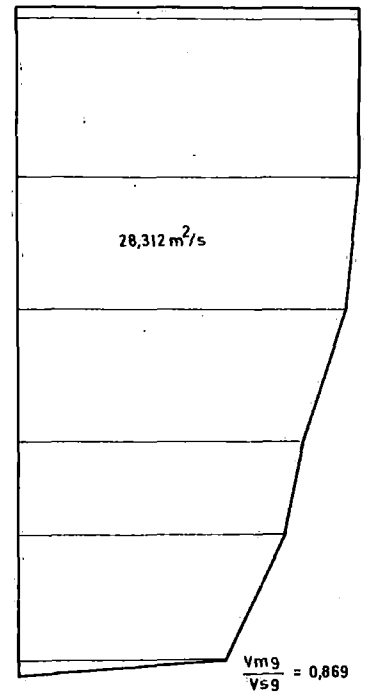
Verticale 7



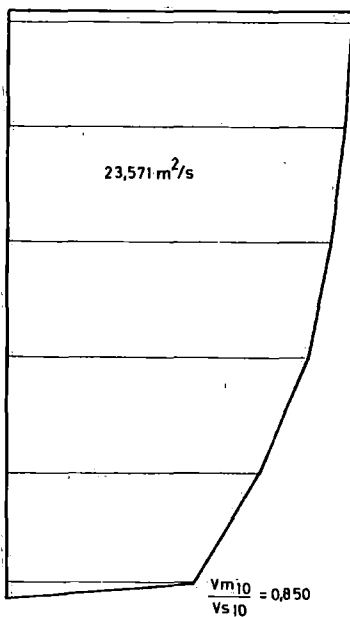
Verticale 8



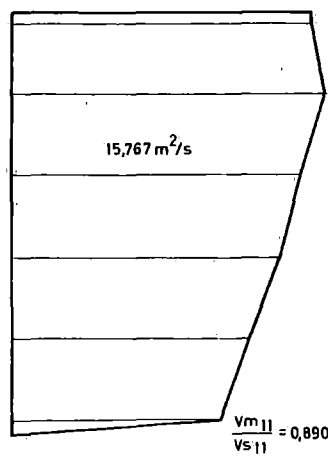
Verticale 9



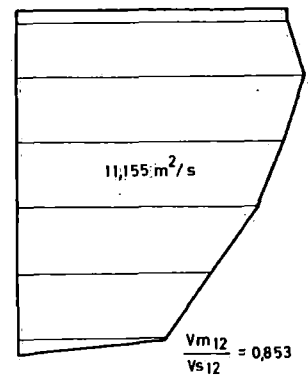
Verticale 10



Verticale 11



Verticale 12



ECHELLE

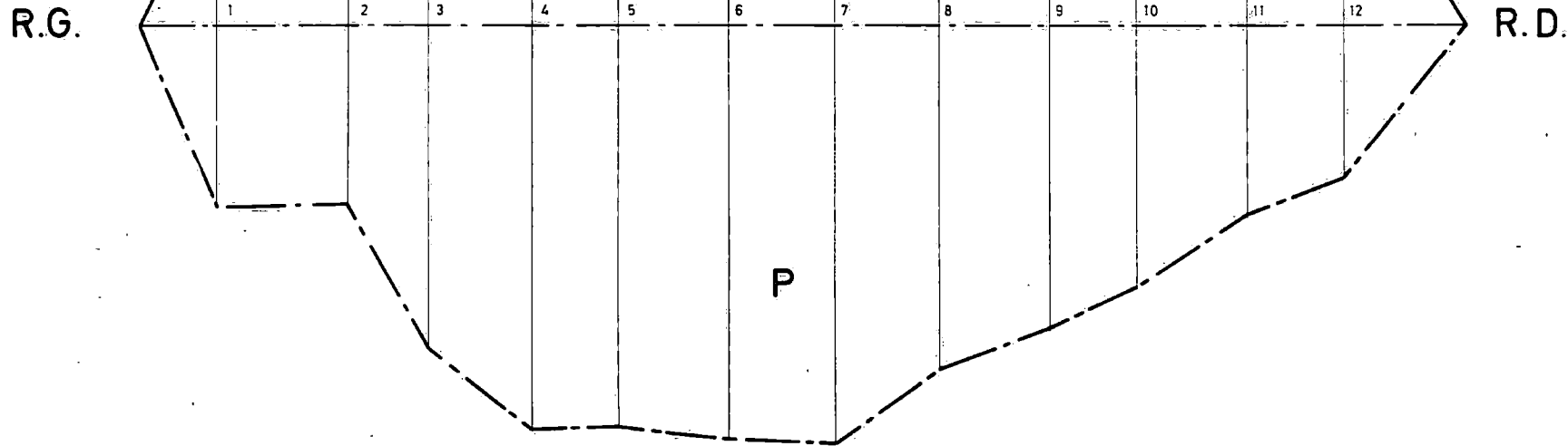
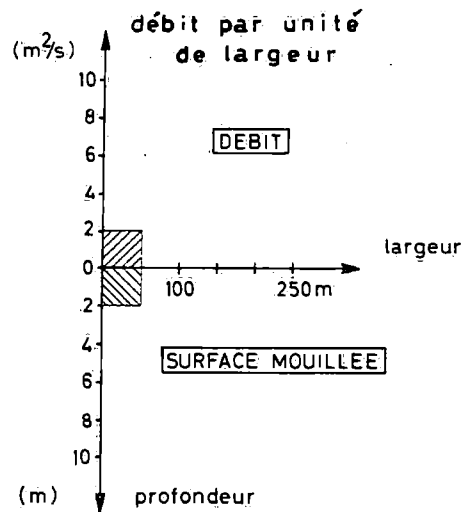
profondeur: 0 25 5m

vitesse: 0 0,5 1 m/s

$v = 0,512 \cdot n + 0,001$

$n > 0,68$

E.E. BOMA = 2,82 m
 DÉBIT = 48019 m³/s
 SURFACE MOUILLÉE = 30706 m²
 PROFONDEUR MAXIMUM = 24,37 m
 LARGEUR DE LA SECTION = 1920 m



MOULINET OTT
 ARKANSAS II n°15.327
 Hélice n°2

MESURE AU MOULINET
 A BANC D'ANVERS
 LE 26 ET 27 - 11 - 1968

MOD. 255
 Figure 89 d

MOULINET OTT
 ARKANSAS V n°15.327
 Hélice n°2
 hBoma = 3,11 m

BANC D'ANVERS
 LE 13 ET 14 - 12 - 1968
 Temps. d'observation = 300"

MOD. 255

Figure 90 a

R.G. = 0 m

VERTICALE 1

distance 120 m

profondeur en cm	nombre de révolutions	n	0,512 n ± A	A ± 0,001 ± v
0	Surf.	--	--	--
30	612	2,04	1,0444	1,04
199	626	2,08	1,0649	1,06
399	574	1,91	0,9794	0,96
599	536	1,78	0,9144	0,91
799	462	1,54	0,7884	0,79
979	384	1,28	0,6553	0,66
1019	fond	--	--	--

VERTICALE 2

distance 260 m

profondeur en cm	nombre de révolutions	n	0,512 n ± A	A ± 0,001 ± v
0	Surf.	--	--	--
30	664	2,21	1,1330	1,13
203	662	2,20	1,1294	1,13
405	632	2,10	1,0782	1,08
607	620	2,06	1,0577	1,06
809	488	1,62	0,8325	0,83
991	448	1,49	0,7644	0,76
1031	fond	--	--	--

VERTICALE 3

distance 420 m

profondeur en cm	nombre de révolutions	n	0,512 n ± A	A ± 0,001 ± v
0	Surf.	--	--	--
30	710	2,36	1,2113	1,21
334	718	2,39	1,2252	1,23
668	662	2,20	1,1294	1,13
1002	624	2,08	1,0649	1,06
1336	522	1,74	0,8908	0,89
1650	398	1,32	0,6789	0,68
1690	fond	--	--	--

VERTICALE 4

distance 570 m

profondeur en cm	nombre de révolutions	n	0,512 n ± A	A ± 0,001 ± v
0	Surf.	--	--	--
30	1006	3,35	1,7167	1,72
495	984	3,28	1,6793	1,68
989	906	3,02	1,5462	1,55
1483	822	2,74	1,4028	1,40
1977	660	2,20	1,1264	1,13
2451	444	1,48	0,7577	0,76
2491	fond	--	--	--

VERTICALE 5

distance 722 m

profondeur en cm	nombre de révolutions	n	0,512 n ± A	A ± 0,001 ± v
0	Surf.	--	--	--
30	1228	4,09	2,0956	2,10
481	1226	4,08	2,0920	2,09
960	1128	3,76	1,9251	1,93
1439	1108	3,69	1,8908	1,89
1918	1034	3,44	1,7643	1,76
2377	752	2,50	1,2830	1,28
2417	fond	--	--	--

VERTICALE 6

distance 870 m

profondeur en cm	nombre de révolutions	n	0,512 n ± A	A ± 0,001 ± v
0	Surf.	--	--	--
30	1418	4,72	2,4197	2,42
475	1450	4,83	2,4744	2,47
949	1358	4,52	2,3173	2,32
1423	1264	4,21	2,1570	2,16
1897	1182	3,94	2,0172	2,02
2351	670	2,23	1,1432	1,14
2391	fond	--	--	--

VERTICALE 7

distance 1015 m

profondeur en cm	nombre de révolutions	n	0,512 n ± A	A ± 0,001 ± v
0	Surf.	--	--	--
30	1334	4,44	2,2763	2,28
492	1374	4,58	2,3449	2,34
985	1290	4,30	2,2016	2,20
1478	1216	4,05	2,0751	2,08
1971	1230	4,10	2,0992	2,10
2444	568	1,89	0,9692	0,97
2484	fond	--	--	--

VERTICALE 8

distance 1170 m

profondeur en cm	nombre de révolutions	n	0,512 n ± A	A ± 0,001 ± v
0	Surf.	--	--	--
30	1242	4,14	2,1196	2,12
371	1182	3,94	2,0172	2,02
743	1178	3,92	2,0101	2,01
1115	1140	3,80	1,9456	1,95
1487	1098	3,66	1,8739	1,87
1839	946	3,15	1,6143	1,61
1879	fond	--	--	--

VERTICALE 9

distance 1305 m

profondeur en cm	nombre de révolutions	n	0,512 n ± A	A ± 0,001 ± v
0	Surf.	--	--	--
30	1170	3,90	1,9968	2,00
377	1169	3,89	1,9947	1,99
752	1146	3,82	1,9558	1,96
1127	1126	3,75	1,9215	1,92
1502	918	3,06	1,5667	1,57
1857	755	2,51	1,2881	1,29
1897	fond	--	--	--

VERTICALE 10

distance 1470 m

profondeur en cm	nombre de révolutions	n	0,512 n ± A	A ± 0,001 ± v
0	Surf.	--	--	--
30	1066	3,55	1,8101	1,82
265	1105	3,68	1,8856	1,89
529	1032	3,44	1,7612	1,76
793	997	3,32	1,7013	1,70
1057	807	2,69	1,3772	1,38
1301	687	2,29	1,1724	1,17
1341	fond	--	--	--

VERTICALE 11

distance 1605 m

profondeur en cm	nombre de révolutions	n	0,512 n ± A	A ± 0,001 ± v
0	Surf.	--	--	--
30	1042	3,47	1,7781	1,78
221	1009	3,36	1,7218	1,72
443	970	3,23	1,6552	1,66
665	923	3,07	1,5749	1,57
887	842	2,80	1,4366	1,44
1089	738	2,46	1,2505	1,26
1129	fond	--	--	--

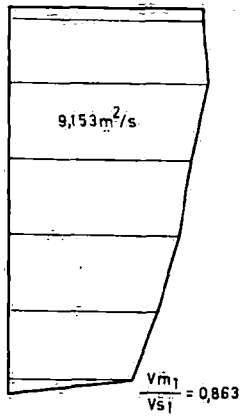
VERTICALE 12

distance 1745 m

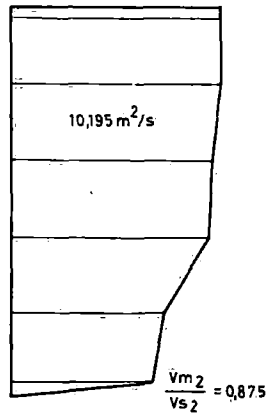
profondeur en cm	nombre de révolutions	n	0,512 n ± A	A ± 0,001 ± v
0	Surf.	--	--	--
30	993	3,31	1,6952	1,70
190	937	3,12	1,5989	1,60
379	952	3,17	1,6245	1,62
568	822	2,74	1,4028	1,40
757	711	2,37	1,2134	1,21
926	571	1,90	0,9743	0,97
966	fond	--	--	--

R.D. = 1920 m

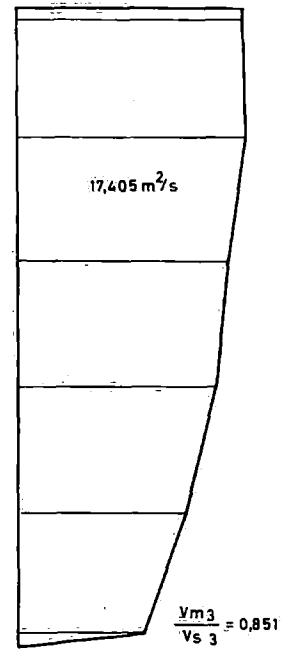
Verticale 1



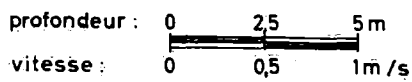
Verticale 2



Verticale 3

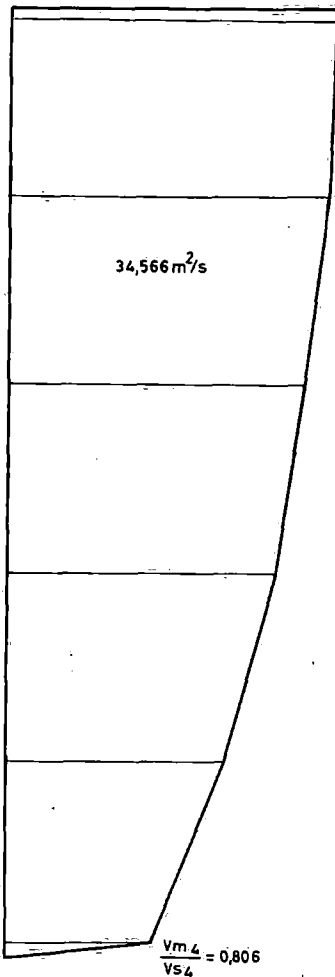


ECHELLE

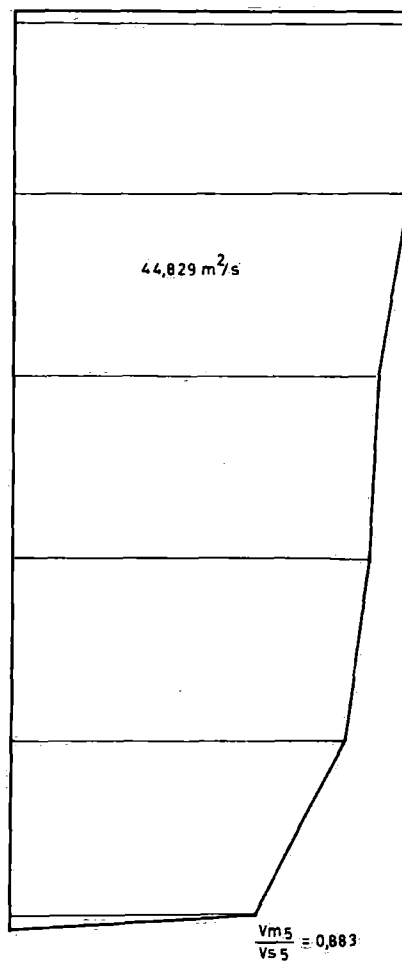


$v = 0,512n + 0,001$
 $n > 0,68$

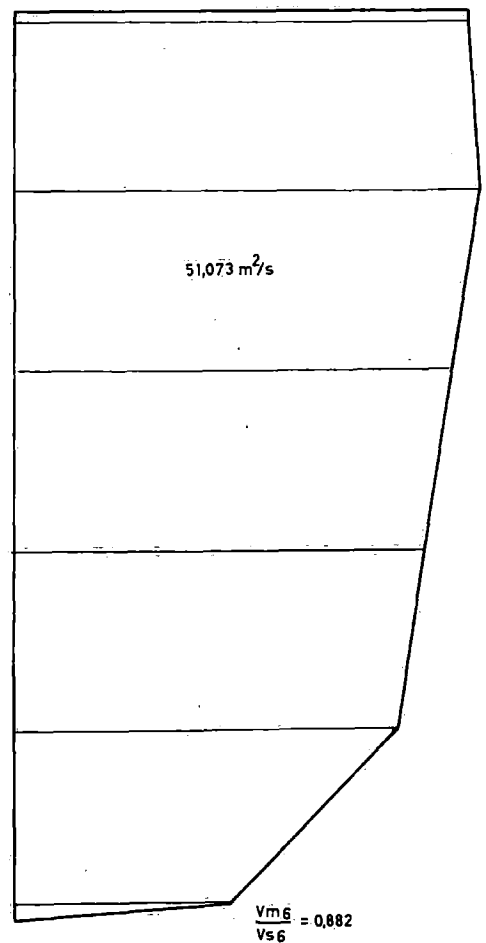
Verticale 4



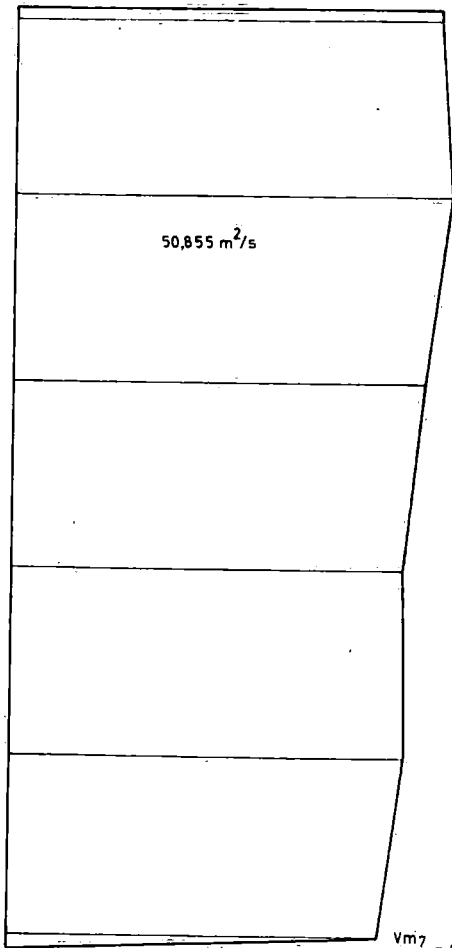
Verticale 5



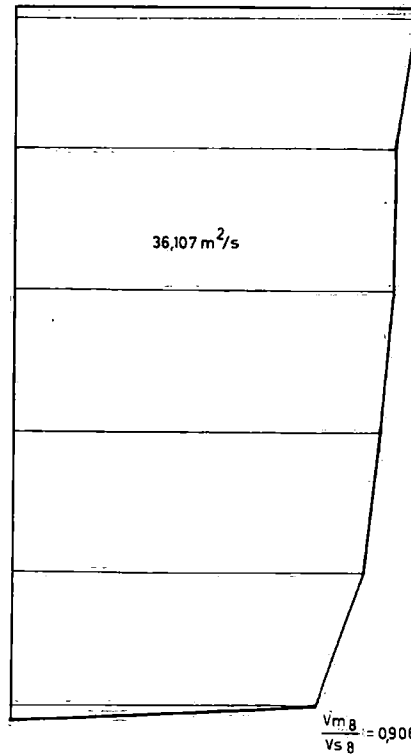
Verticale 6



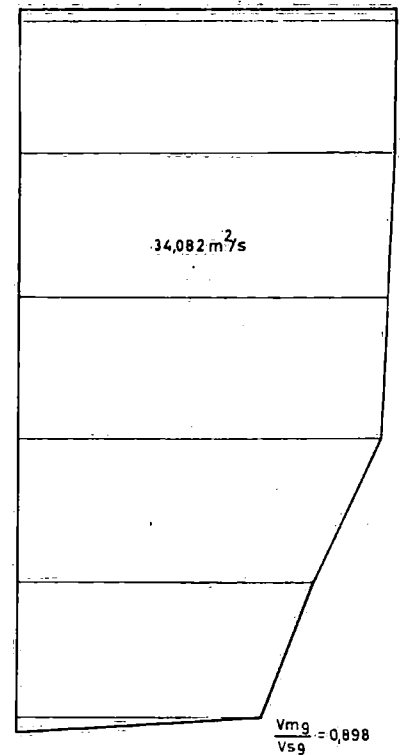
Verticale 7



Verticale 8



Verticale 9

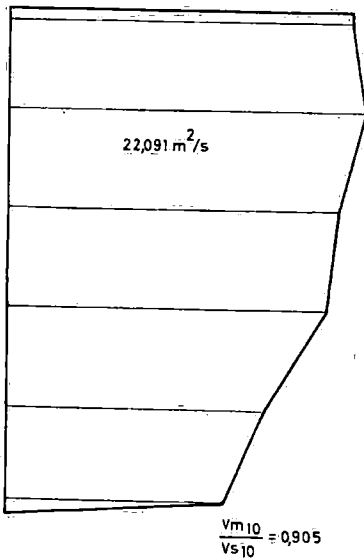


ECHELLE

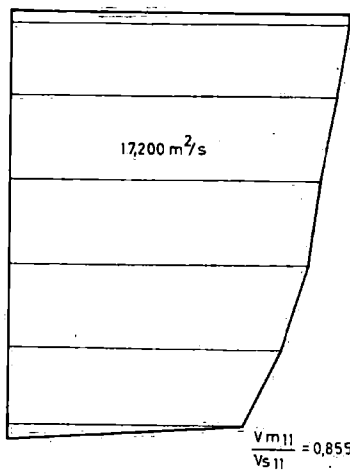
profondeur: 0 2,5 5 m
 vitesse: 0 0,5 1 m/s

$v = 0,512n + 0,001$
 $n > 0,68$

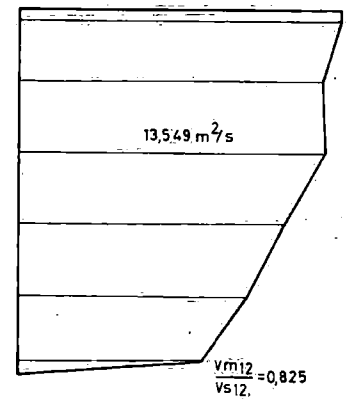
Verticale 10



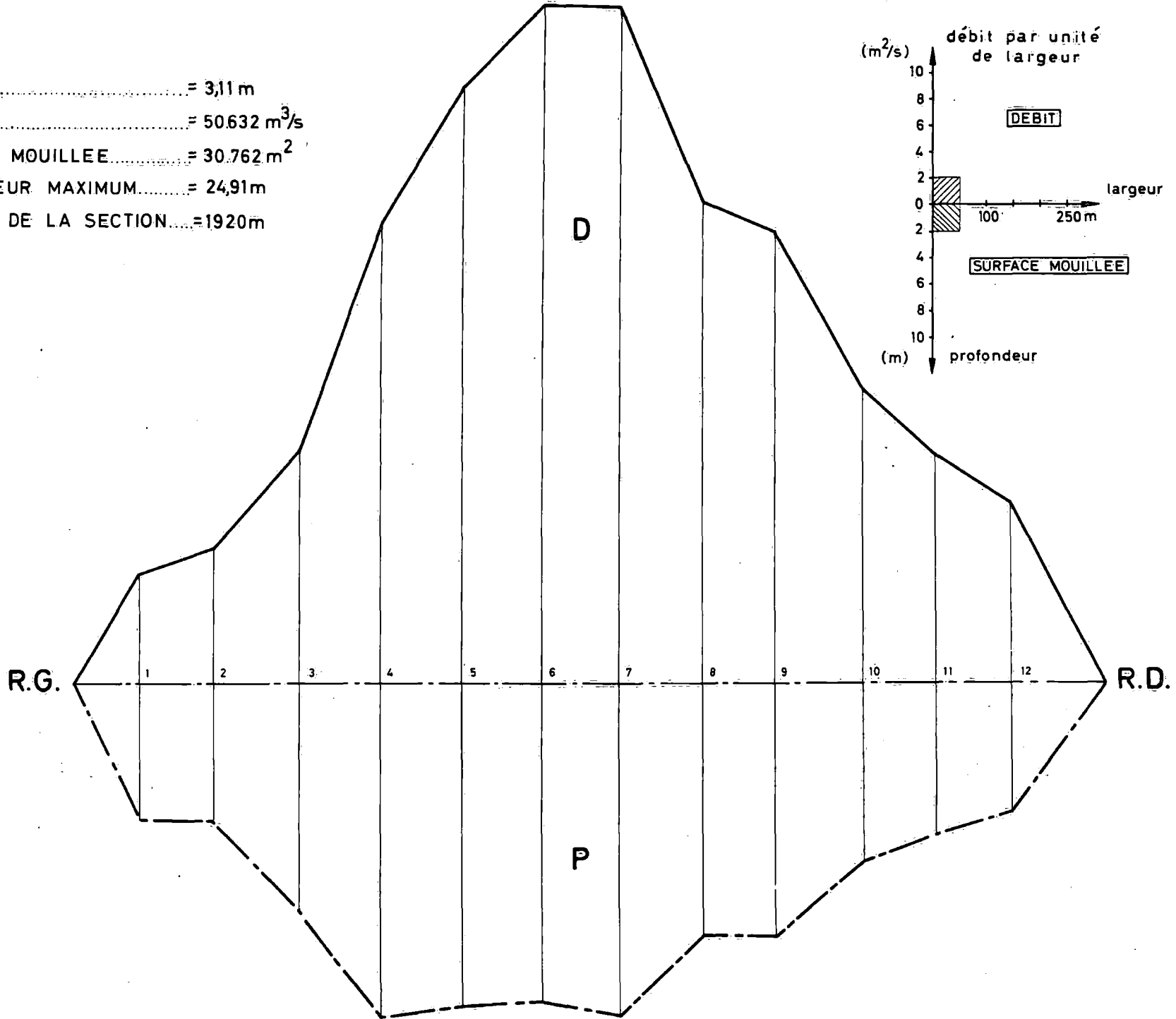
Verticale 11



Verticale 12



E.E.BOMA = 3,11 m
 DEBIT = 50632 m³/s
 SURFACE MOUILLEE = 30.762 m²
 PROFONDEUR MAXIMUM = 24,91m
 LARGEUR DE LA SECTION = 1920m



MOULINET OTT
 ARKANSAS V n°15327
 Hélice n°2

MESURE AU MOULINET
 A BANC D'ANVERS
 LE 13 ET 14 - 12 - 1968

MOD. 255

Figure 90 D

R.G. = 0m

VERTICALE 1

12h30' — distance 40m

profondeur en cm	nombre de révolutions	n	0,512n = A	A + 0,001 = v
0	Surf.	--	--	--
30	444	1,48	0,7578	0,76
134	436	1,45	0,7424	0,74
267	429	1,43	0,7322	0,73
400	400	1,33	0,6810	0,68
533	372	1,24	0,6349	0,64
646	270	0,90	0,4608	0,46
686	fond	--	--	--

VERTICALE 2

7h45' — distance 115m

profondeur en cm	nombre de révolutions	n	0,512n = A	A + 0,001 = v
0	Surf.	--	--	--
30	548	1,83	0,9370	0,94
178	529	1,76	0,9011	0,90
354	523	1,74	0,8909	0,89
530	481	1,60	0,8192	0,82
706	435	1,45	0,7424	0,74
862	344	1,15	0,5888	0,59
902	fond	--	--	--

VERTICALE 3

8h40' — distance 205m

profondeur en cm	nombre de révolutions	n	0,512n = A	A + 0,001 = v
0	Surf.	--	--	--
30	689	2,30	1,1776	1,18
251	678	2,26	1,1571	1,16
501	642	2,14	1,0957	1,10
751	600	2,00	1,0240	1,03
1001	531	1,77	0,9062	0,91
1231	366	1,22	0,6246	0,63
1271	fond	--	--	--

VERTICALE 4

9h30' — distance 290m

profondeur en cm	nombre de révolutions	n	0,512n = A	A + 0,001 = v
0	Surf.	--	--	--
30	702	2,34	1,1981	1,20
251	707	2,36	1,2083	1,21
501	688	2,29	1,1725	1,17
751	611	2,04	1,0445	1,06
1001	559	1,86	0,9523	0,95
1231	374	1,25	0,6400	0,64
1271	fond	--	--	--

VERTICALE 5

10h15' — distance 330m

profondeur en cm	nombre de révolutions	n	0,512n = A	A + 0,001 = v
0	Surf.	--	--	--
30	856	2,85	1,4592	1,46
301	851	2,84	1,4541	1,46
598	824	2,75	1,4080	1,41
895	793	2,64	1,3517	1,35
1192	675	2,25	1,1520	1,15
1469	496	1,65	0,8448	0,85
1509	fond	--	--	--

VERTICALE 6

11h00' — distance 360m

profondeur en cm	nombre de révolutions	n	0,512n = A	A + 0,001 = v
0	Surf.	--	--	--
30	848	2,83	1,4438	1,44
294	834	2,78	1,4234	1,42
585	814	2,71	1,3875	1,39
876	695	2,32	1,1827	1,18
1167	631	2,10	1,0752	1,08
1428	507	1,69	0,8653	0,87
1468	fond	--	--	--

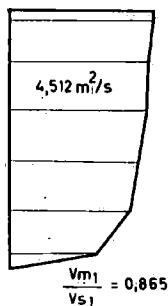
VERTICALE 7

11h45' — distance 435m

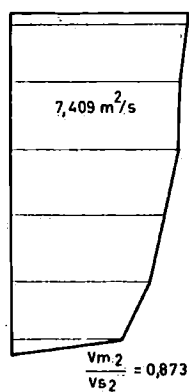
profondeur en cm	nombre de révolutions	n	0,512n = A	A + 0,001 = v
0	Surf.	--	--	--
30	724	2,41	1,2339	1,23
266	737	2,46	1,2595	1,26
532	760	2,53	1,2954	1,30
798	702	2,34	1,1981	1,20
1064	665	2,21	1,1366	1,14
1310	263	0,88	0,4506	0,46
1350	fond	--	--	--

R.D. = 470m

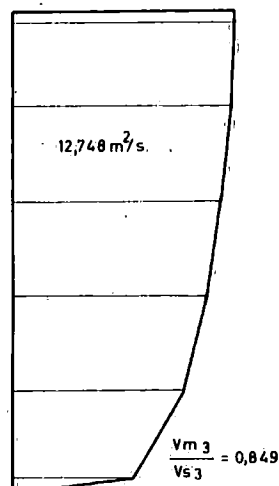
Verticale 1



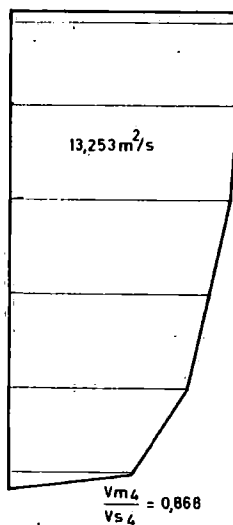
Verticale 2



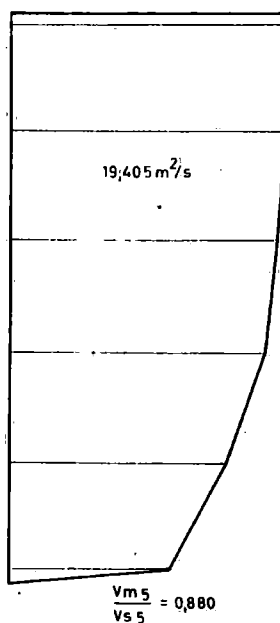
Verticale 3



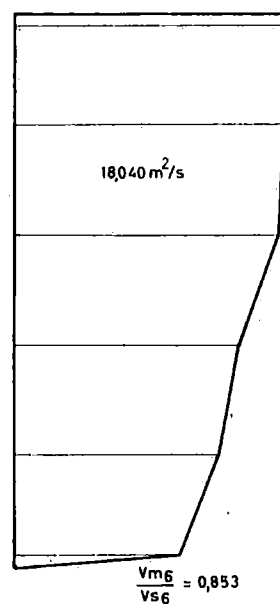
Verticale 4



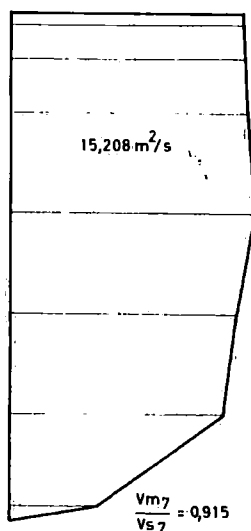
Verticale 5



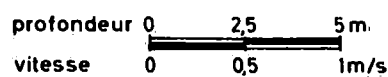
Verticale 6



Verticale 7



ECHELLES



$v = 0,512n + 0,001$
 $n > 0,68$

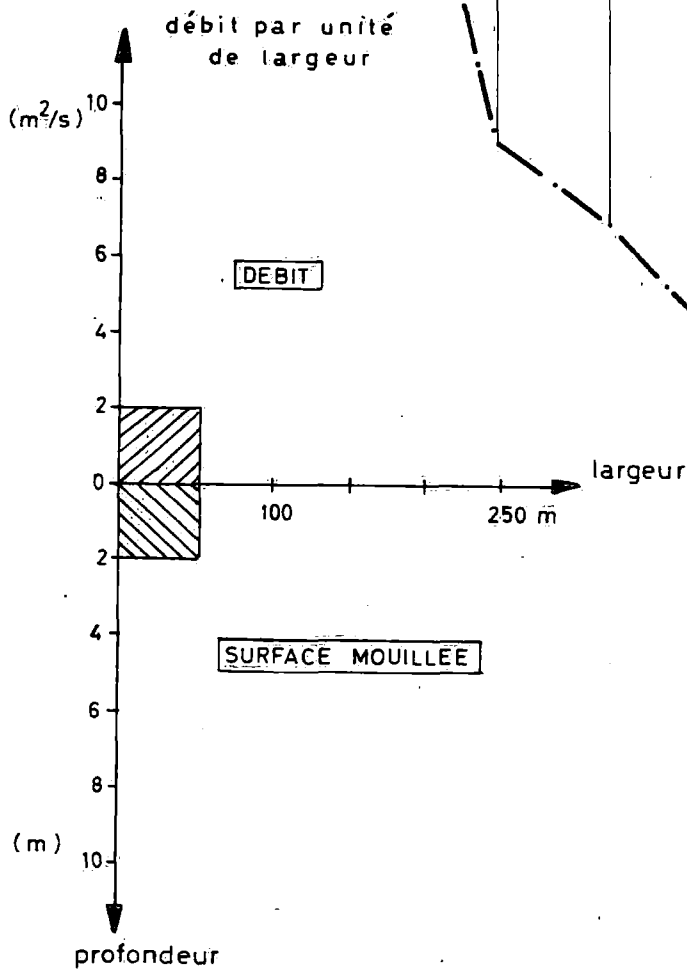
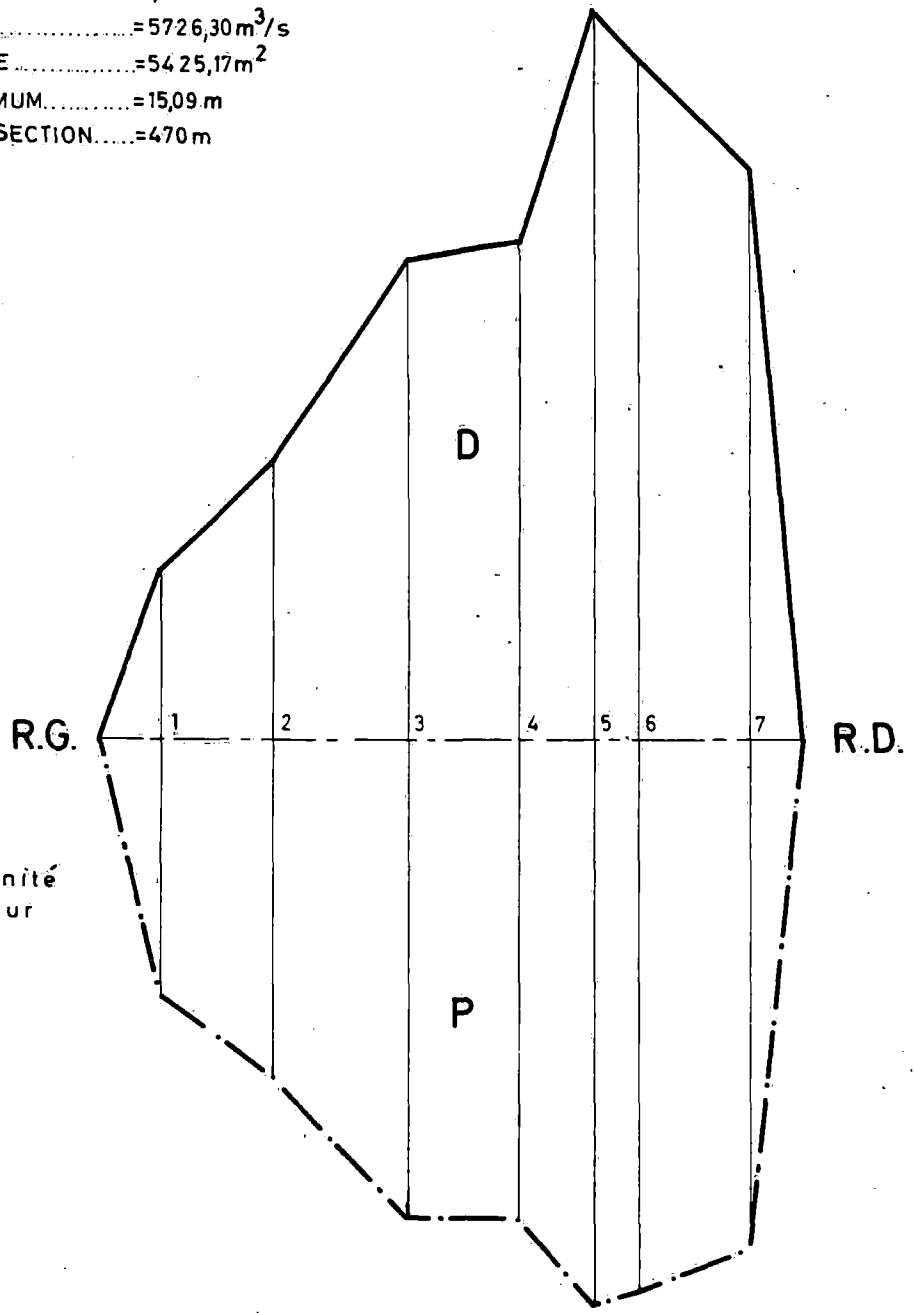
MOULINET OTT
 ARKANSAS-V n° 15.327
 Hélice n°2

MESURE AU MOULINET
 AU CHENAL MAXWELL
 LE 14-9-1968

MOD. 255

Figure 91 c

E.E. BOMA=1,56 m
 DEBIT=5726,30 m³/s
 SURFACE MOUILLEE=5425,17 m²
 PROFONDEUR MAXIMUM=15,09 m
 LARGEUR DE LA SECTION=470 m



W.L. 69.022

MOULINET OTT
 ARKANSAS V n°15327
 Hélice n°2
 hBoma = 1,77m

MATEBA AMONT
 LE 25 ET 26-9-1968
 Temps d'observation = 300"

MOD. 255

Figure 92 a

R.G. = 0m

VERTICALE 5

14h00' — distance 275m

profondeur en cm	nombre de révolutions	n	0,512n = A	A + 0001 = v
0	Surf.	--	--	--
30	605	2,02	1,0342	1,04
97	595	1,98	1,0138	1,02
193	588	1,96	1,0035	1,01
290	566	1,89	0,9679	0,97
387	516	1,72	0,8806	0,88
484	409	1,36	0,6963	0,70
524	fond	--	--	--

VERTICALE 10

13h40' — distance 385m

profondeur en cm	nombre de révolutions	n	0,512n = A	A + 0001 = v
0	Surf.	--	--	--
30	708	2,36	1,2083	1,21
111	701	2,34	1,1981	1,20
222	672	2,24	1,1469	1,15
333	640	2,13	1,0906	1,09
444	614	2,05	1,0496	1,05
555	411	1,37	0,7014	0,70
595	Fond	--	--	--

VERTICALE 4

12h45' — distance 505m

profondeur en cm	nombre de révolutions	n	0,512n = A	A + 0001 = v
0	Surf.	--	--	--
30	656	2,19	1,1213	1,12
152	684	2,28	1,1674	1,17
312	649	2,16	1,1059	1,11
468	596	1,99	1,0189	1,02
624	572	1,91	0,9779	0,98
780	424	1,41	0,7219	0,82
820	fond	--	--	--

VERTICALE 9

12h20' — distance 640m

profondeur en cm	nombre de révolutions	n	0,512n = A	A + 0001 = v
0	Surf.	--	--	--
30	754	2,51	1,2851	1,29
173	744	2,48	1,2698	1,27
347	717	2,39	1,2237	1,22
521	659	2,20	1,1264	1,13
695	552	1,84	0,9421	0,94
869	445	1,48	0,7578	0,76
909	fond	--	--	--

VERTICALE 3

11h20' — distance 785m

profondeur en cm	nombre de révolutions	n	0,512n = A	A + 0001 = v
0	Surf.	--	--	--
30	820	2,79	1,3978	1,40
196	812	2,71	1,3875	1,39
391	766	2,55	1,3056	1,31
586	724	2,49	1,2339	1,23
781	688	2,29	1,1725	1,17
976	411	1,37	0,7014	0,70
1029	fond	--	--	--

VERTICALE 8

11h05' — distance 875m

profondeur en cm	nombre de révolutions	n	0,512n = A	A + 0001 = v
0	Surf.	--	--	--
30	784	2,61	1,3363	1,34
284	767	2,56	1,3107	1,31
569	772	2,57	1,3158	1,32
854	689	2,30	1,1776	1,18
1139	551	1,84	0,9421	0,94
1424	384	1,28	0,6554	0,66
1464	fond	--	--	--

VERTICALE 2

9h50' — distance 1000m

profondeur en cm	nombre de révolutions	n	0,512n = A	A + 0001 = v
0	Surf.	--	--	--
30	874	2,91	1,4829	1,49
316	878	2,93	1,5002	1,50
632	811	2,70	1,3824	1,38
948	797	2,66	1,3619	1,36
1264	680	2,27	1,1622	1,16
1580	446	1,49	0,7699	0,76
1620	fond	--	--	--

VERTICALE 7

9h30' — distance 1165m

profondeur en cm	nombre de révolutions	n	0,512n = A	A + 0001 = v
0	Surf.	--	--	--
30	899	3,00	1,5360	1,54
328	946	3,15	1,6128	1,61
654	918	3,06	1,5667	1,57
984	787	2,62	1,3414	1,34
1312	755	2,52	1,2902	1,29
1640	500	1,67	0,8550	0,86
1680	fond	--	--	--

VERTICALE 1

8h20' — distance 1242m

profondeur en cm	nombre de révolutions	n	0,512n = A	A + 0001 = v
0	Surf.	--	--	--
30	899	3,00	1,5360	1,54
295	883	2,94	1,5083	1,51
610	883	2,94	1,5053	1,51
925	806	2,69	1,3773	1,38
1240	714	2,38	1,2186	1,22
1555	438	1,46	0,7575	0,76
1595	fond	--	--	--

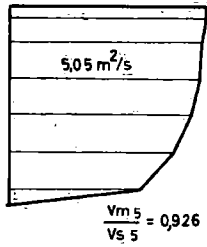
VERTICALE 6

7h45' — distance 1375m

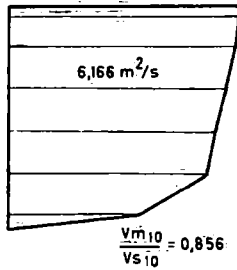
profondeur en cm	nombre de révolutions	n	0,512n = A	A + 0001 = v
0	Surf.	--	--	--
30	799	2,66	1,3619	1,36
165	785	2,62	1,3414	1,34
329	804	2,68	1,3722	1,37
494	777	2,59	1,3261	1,33
659	727	2,42	1,2390	1,24
824	433	1,44	0,7373	0,74
864	fond	--	--	--

R.D. = 1470m

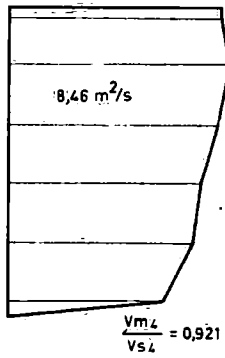
Verticale 5



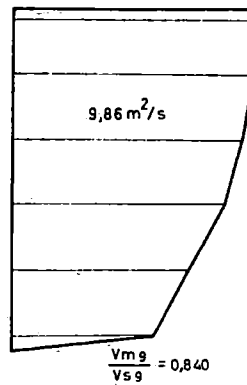
Verticale 10



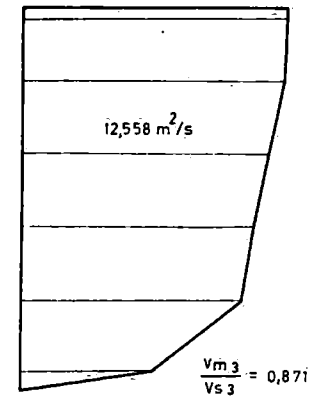
Verticale 4



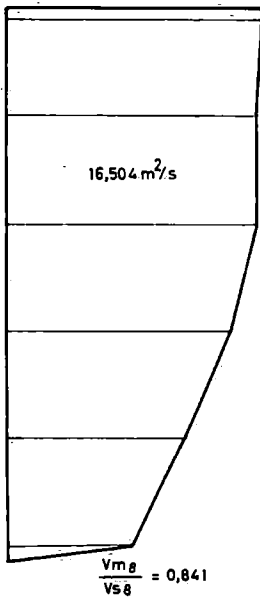
Verticale 9



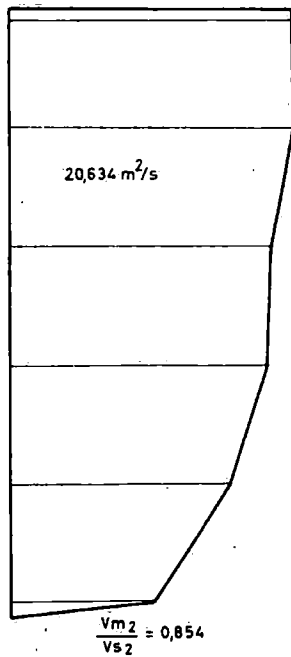
Verticale 3



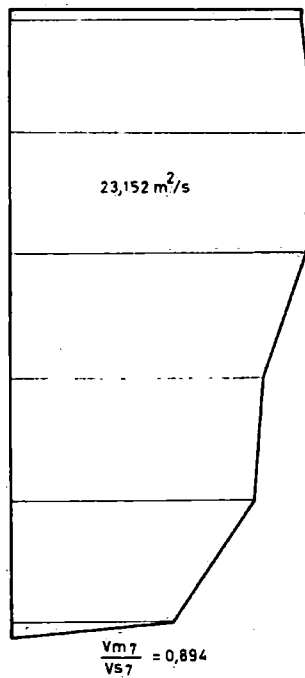
Verticale 8



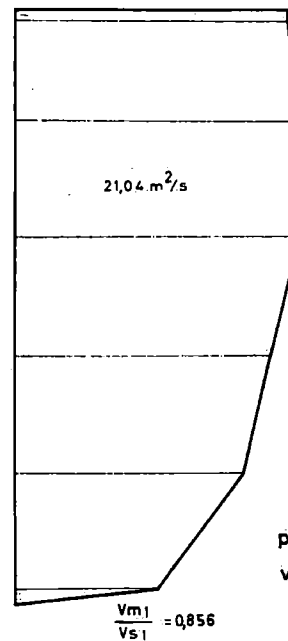
Verticale 2



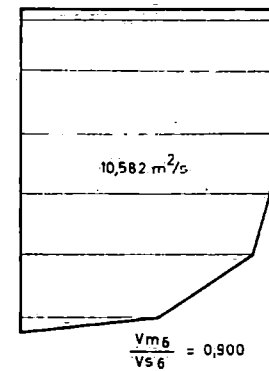
Verticale 7



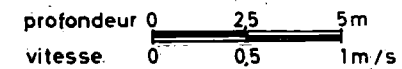
Verticale 1



Verticale 6



ECHELLES



$v = 0,512n + 0,001$
 $n > 0,68$

MOULINET OTT
 ARKANSAS T n°15327
 Hélice n°2

MESURE AU MOULINET
 A MATEBA AMONT
 LE 25 ET 26-9-1968

MOD. 255

Figure 92 b

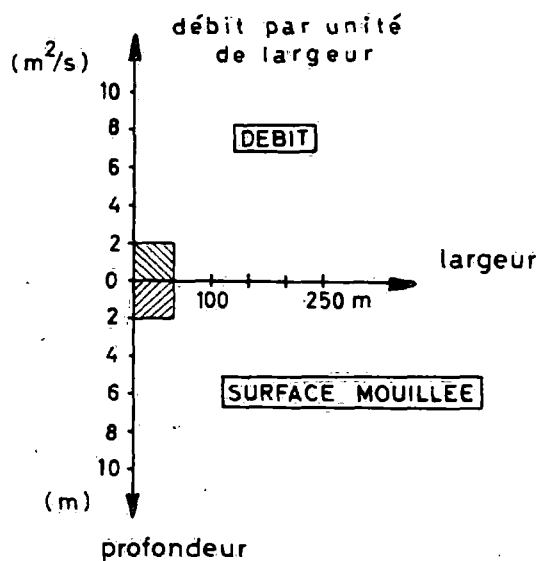
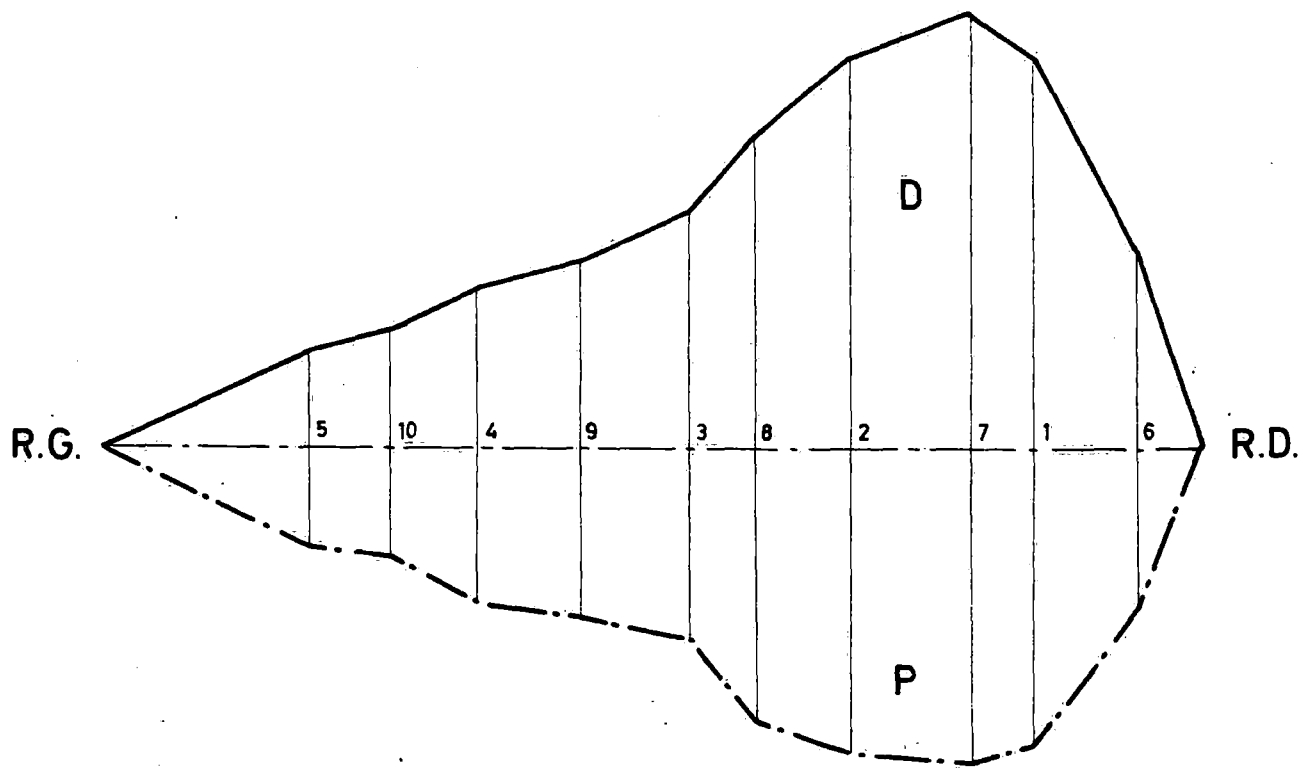
MOULINET OTT
ARKANSAS V n°15327
Hélice n°2

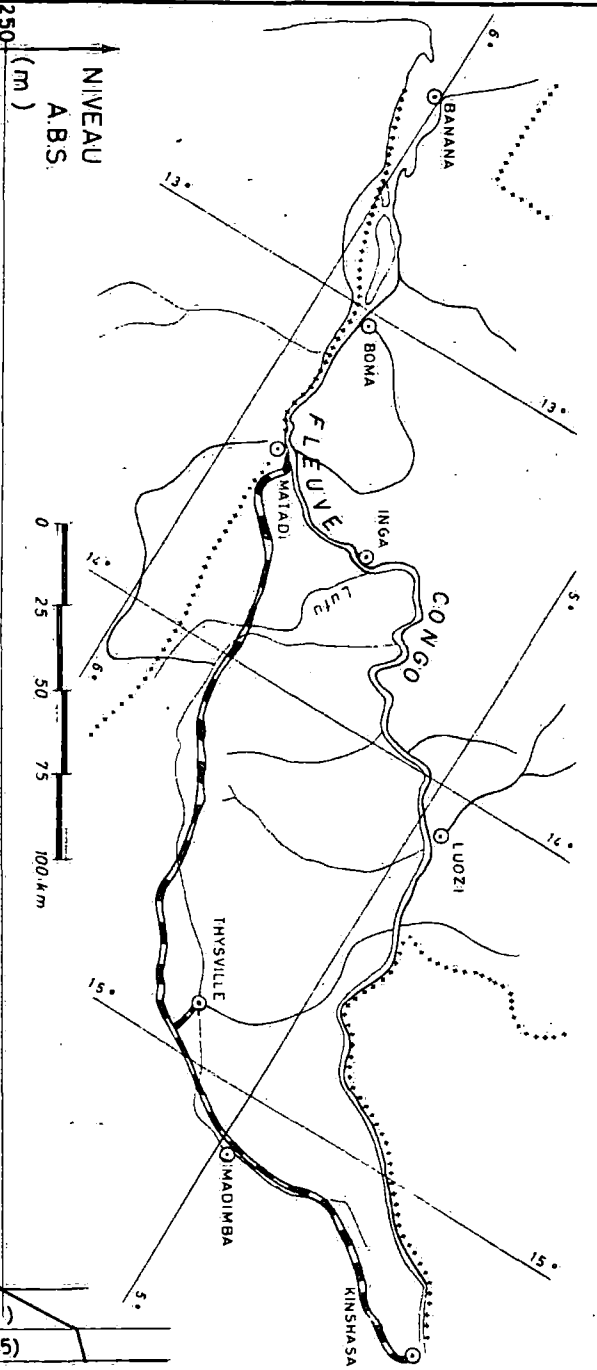
MESURE AU MOULINET
A MATEBA AMONT
LE 25 ET 26-9-1968

MOD. 255

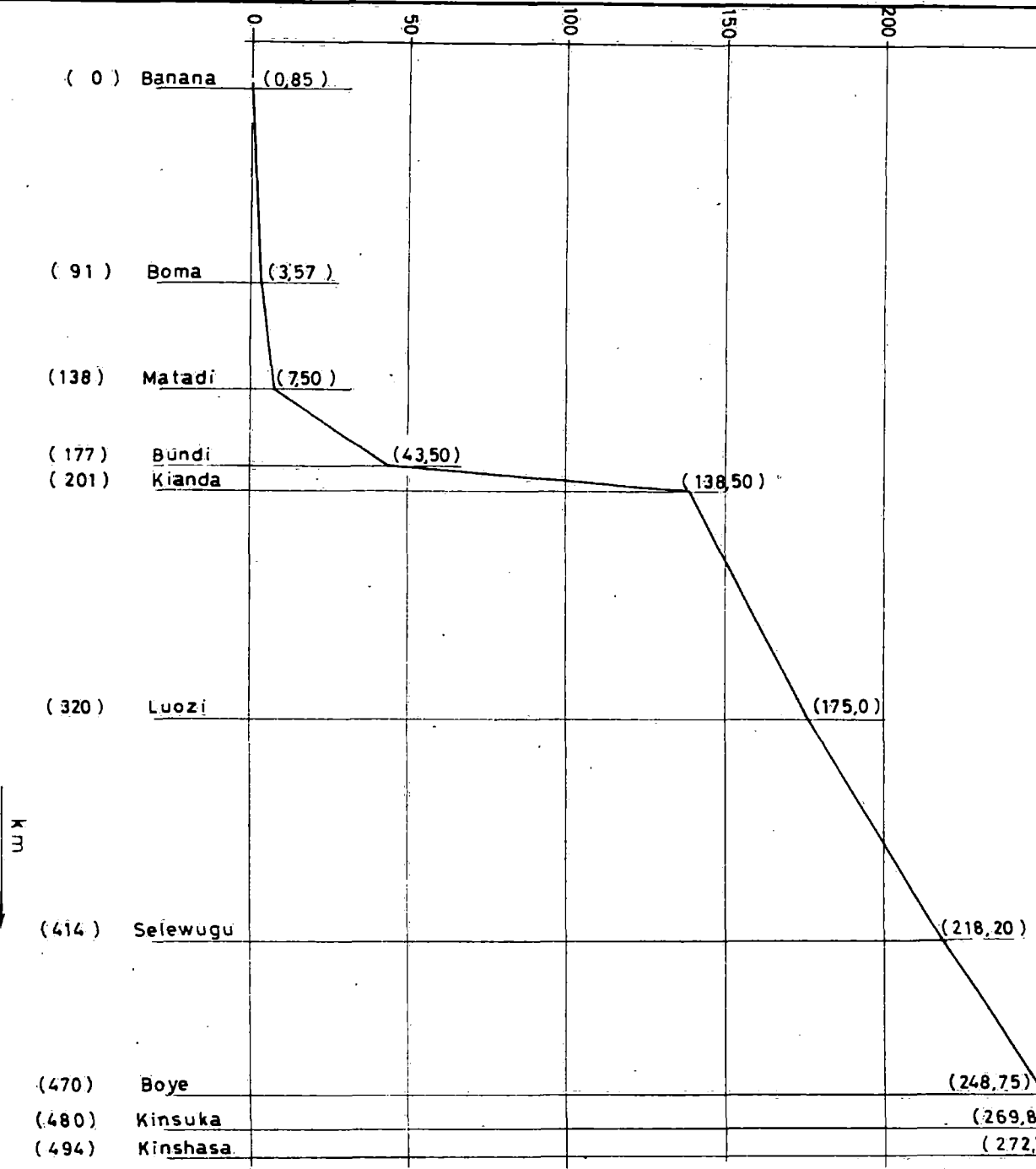
Figure 92 c

E.E. BOMA=1,77m
DEBIT.....=16522,20m³/s
SURFACE MOUILLEE.....=13071,40 m²
PROFONDEUR MAXIMUM.....=16,80m
LARGEUR DE LA SECTION.....=1470m



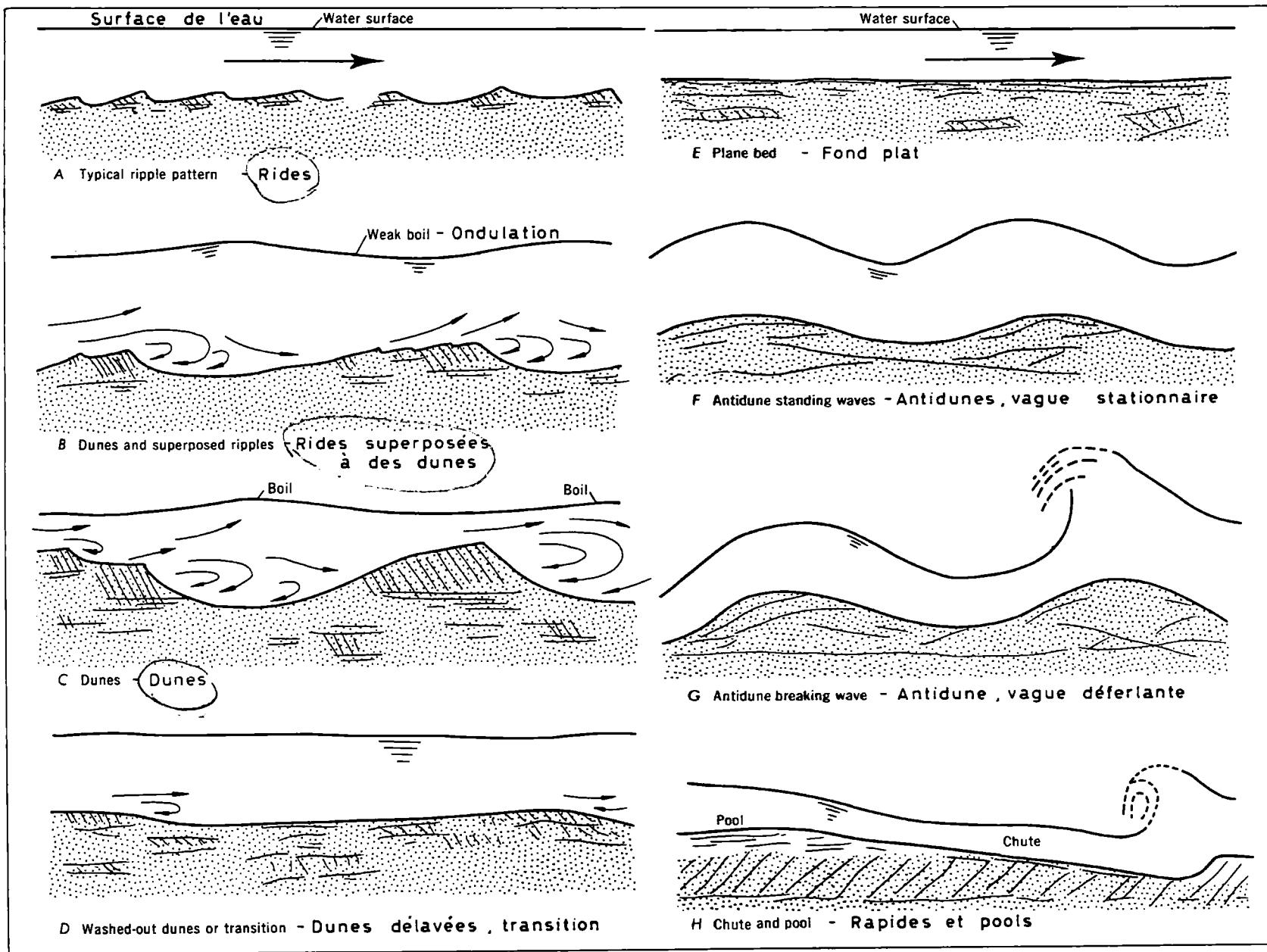


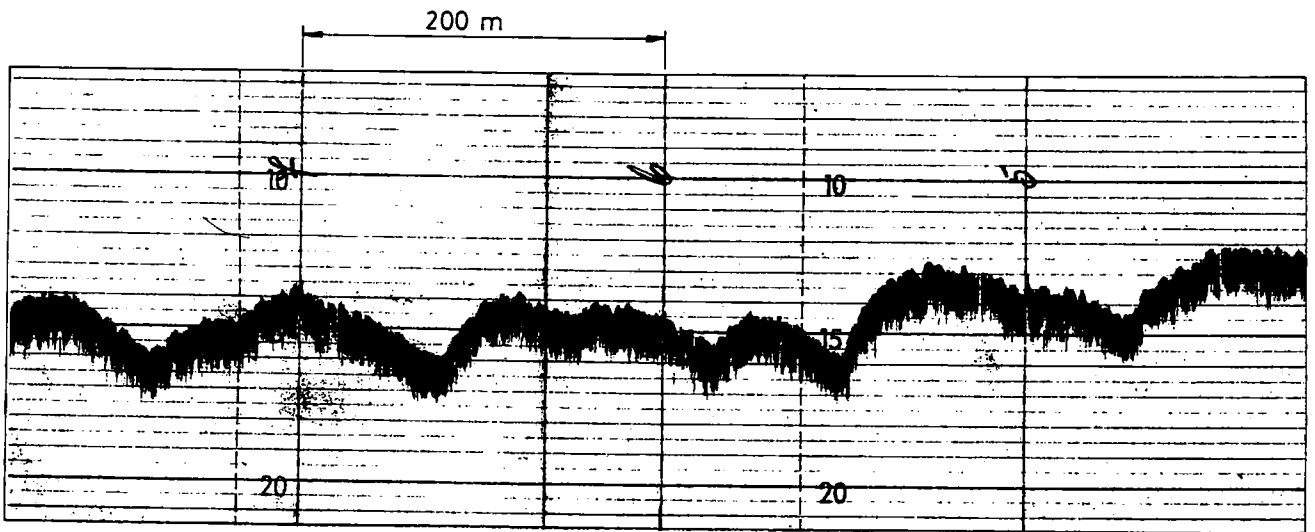
NIVEAU
A.B.S.
(m)



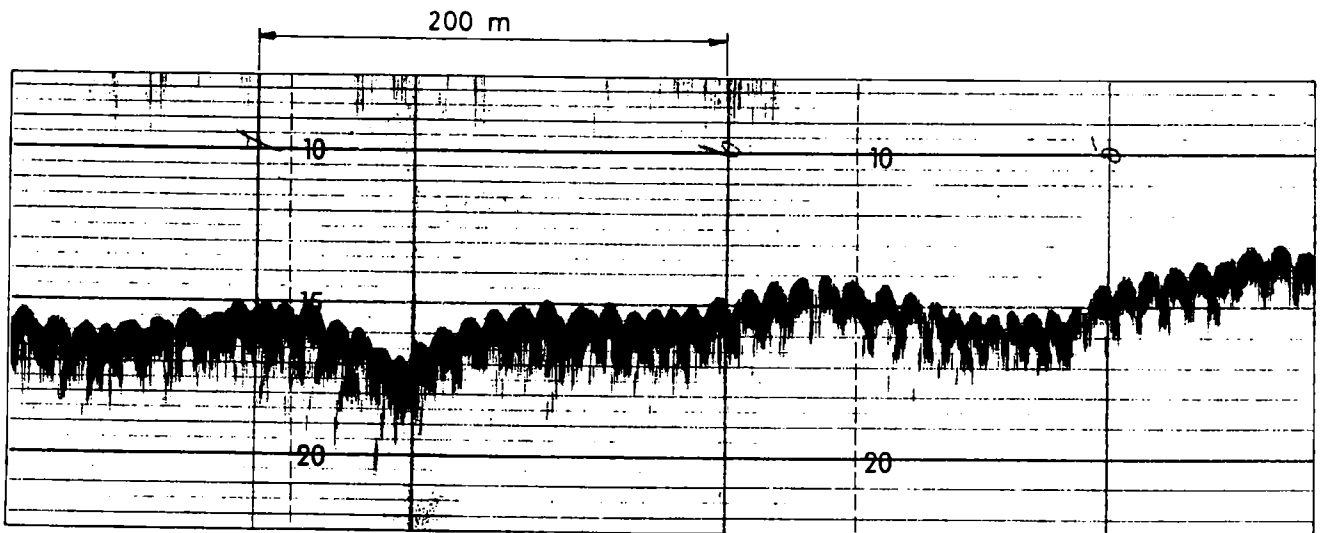
W.L. 69.559

km

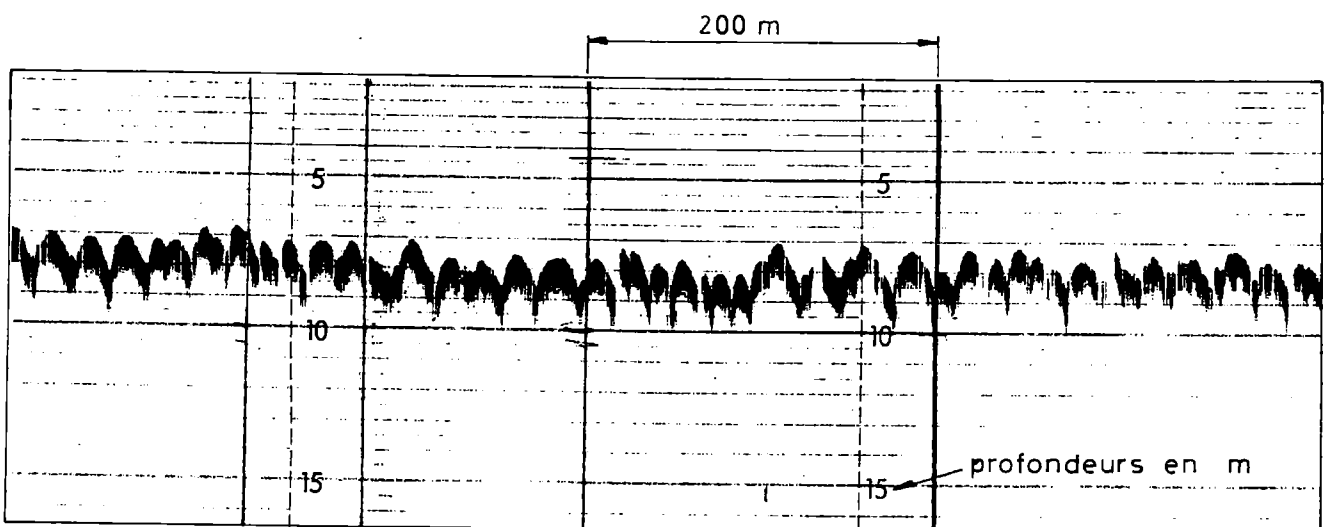




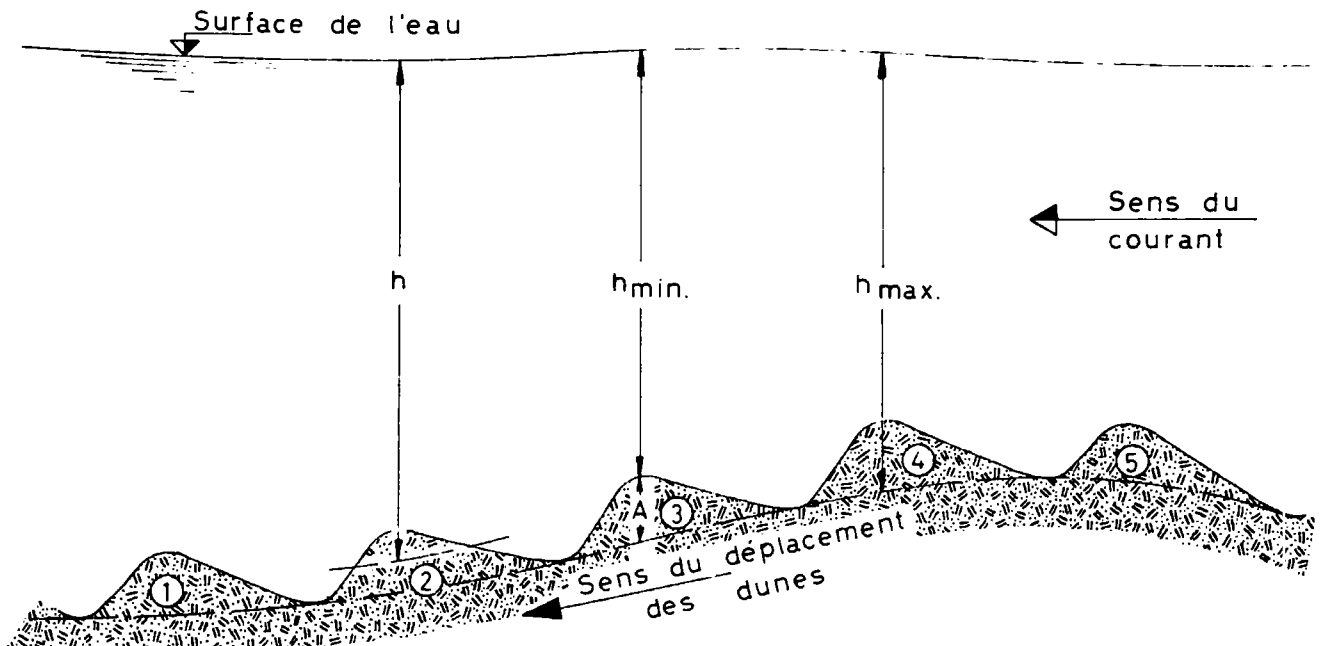
Exemple de dunes



Exemple de rides superposées à des dunes



Exemple de rides

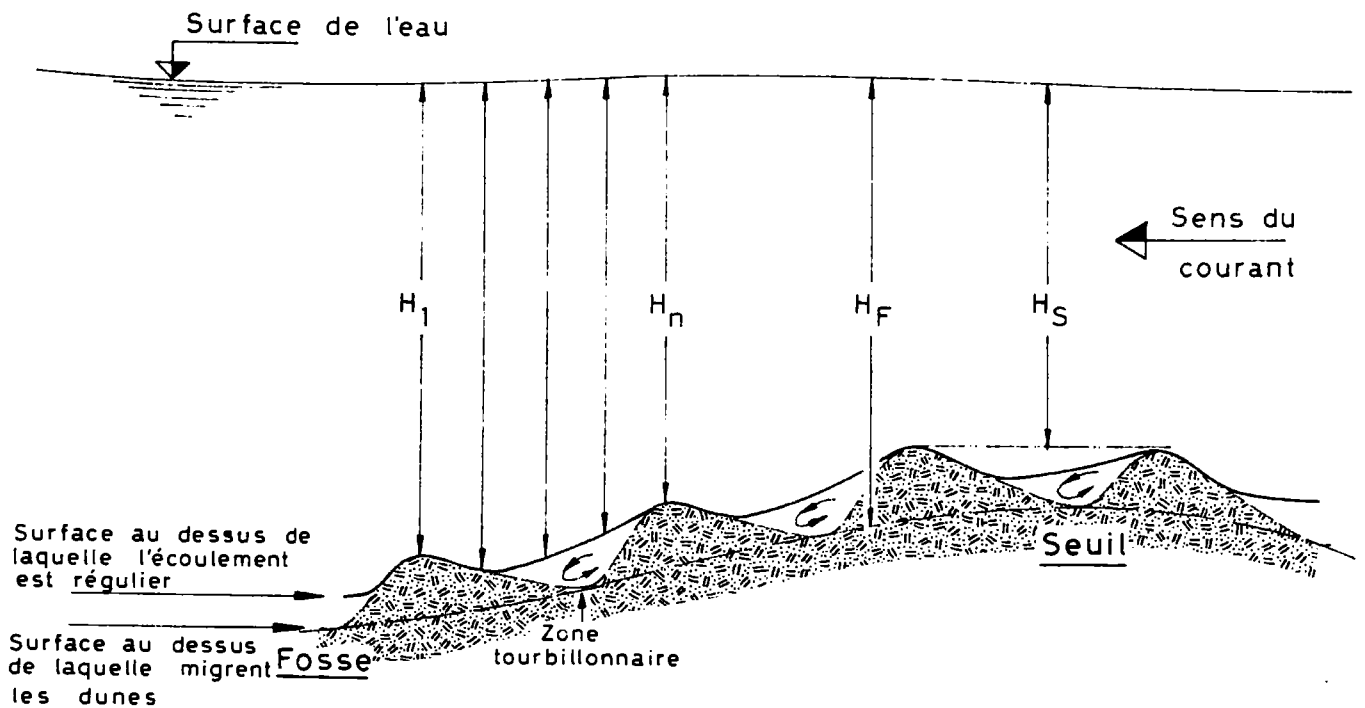


h = profondeur d'eau à mi-hauteur de la dune.

$h_{min.}$ = profondeur minimum à hauteur de la dune n° 3

$h_{max.}$ = profondeur maximum à hauteur de la dune n° 4

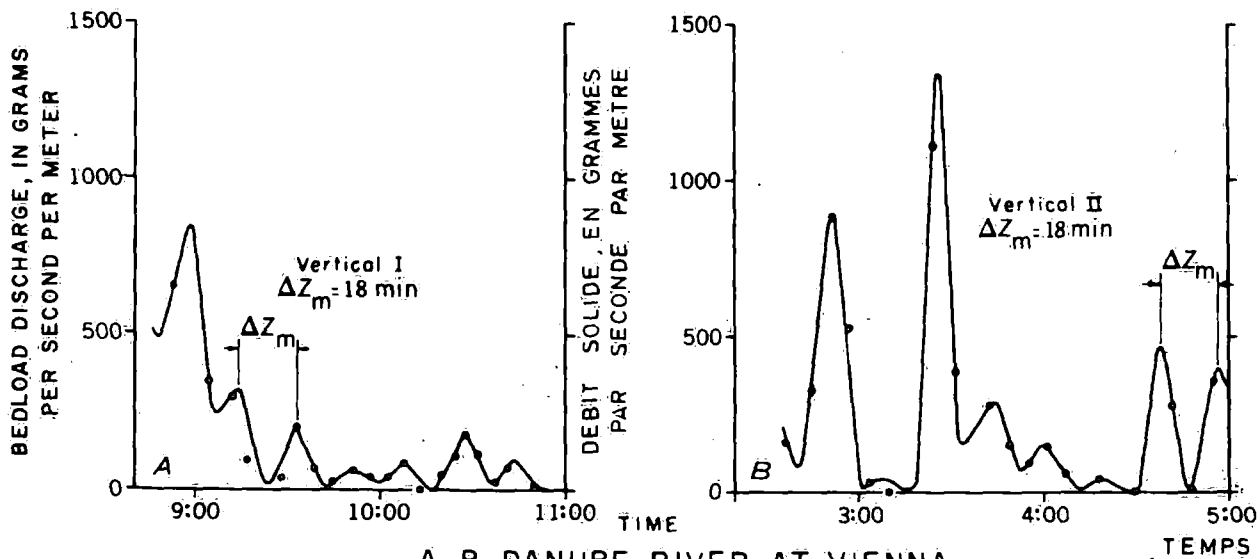
A = amplitude de la dune



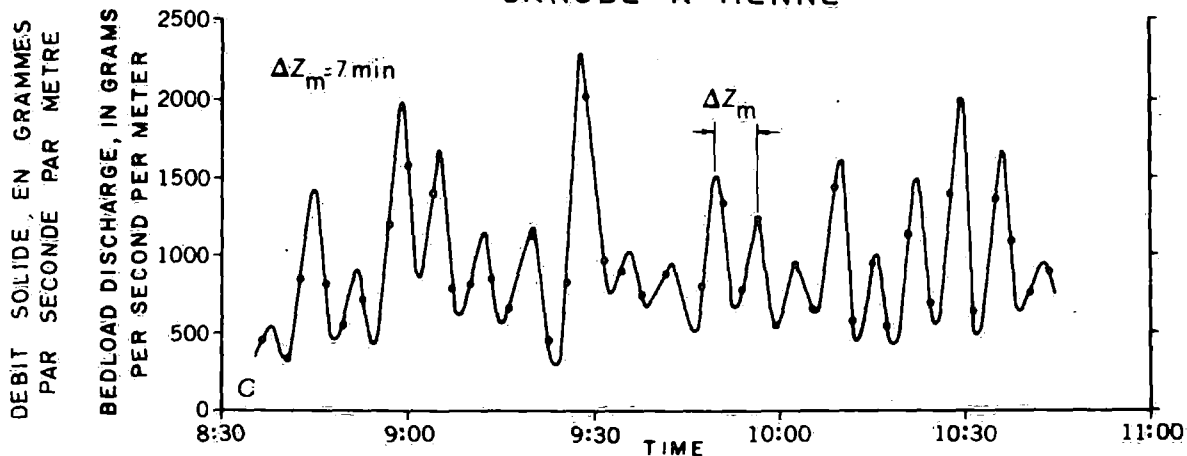
$H_1 \dots H_n$ = hauteur d'eau dans laquelle l'écoulement est régulier

H_F = hauteur de la surface de l'eau au-dessus de la surface sur laquelle se déplacent les dunes.

H_S = hauteur d'eau au-dessus du seuil.

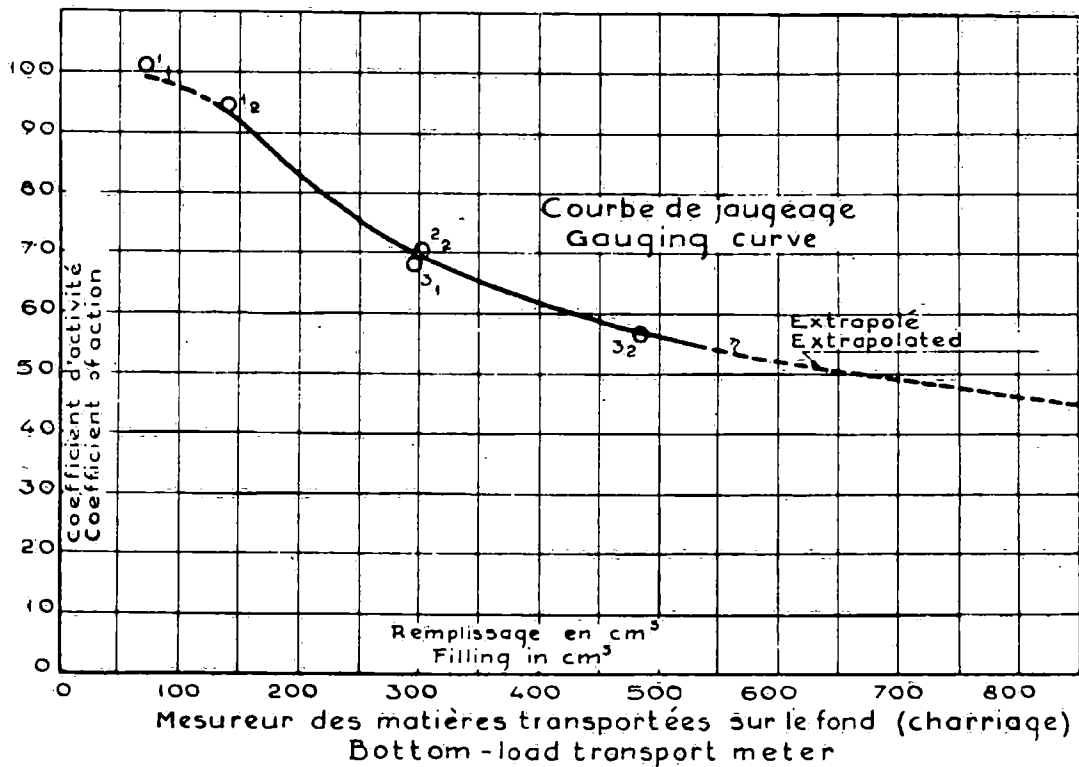
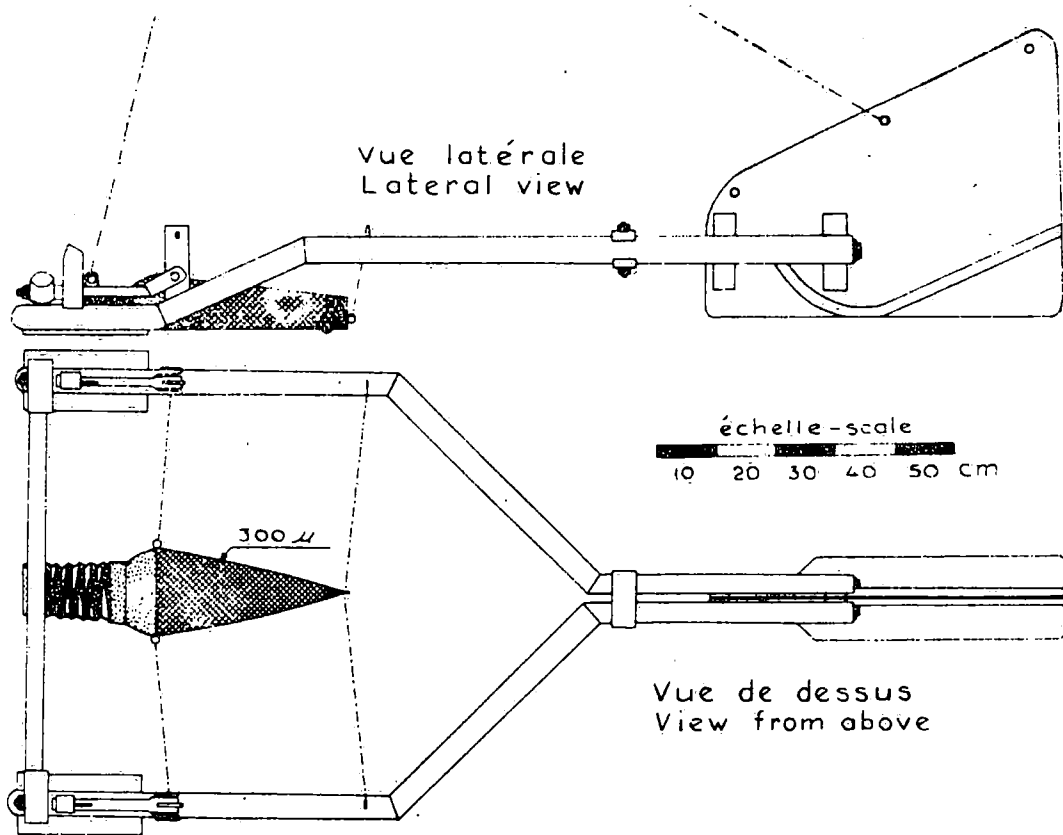


A, B, DANUBE RIVER AT VIENNA
(measurements by Ehrenberger)
DANUBE A VIENNE

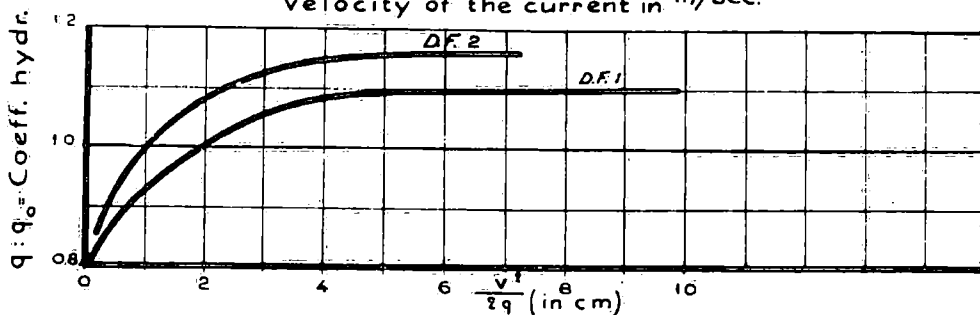
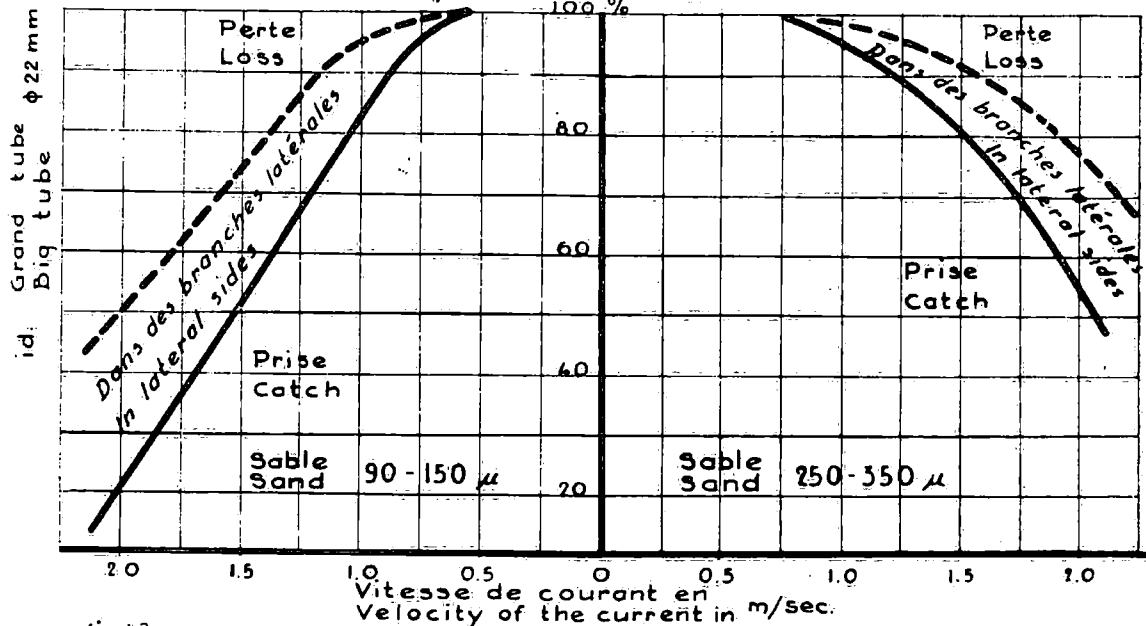
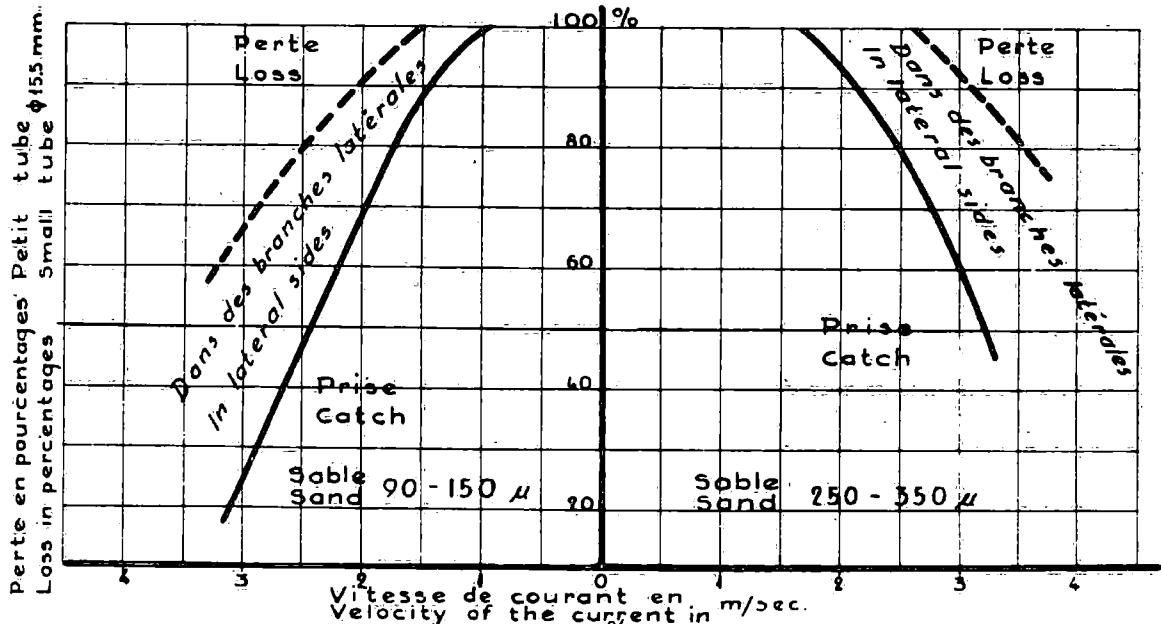


C, INN RIVER AT KIRCHBICHL
(measurements by Muhlhofer)
RIVIERE INN A KIRCHBICHL

H2 HUBBELL D. W. 1967. Apparatus and techniques for measuring bedload. Geological Survey water-supply paper 1748-US. G.P.O.

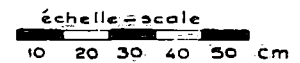
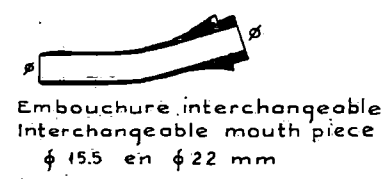
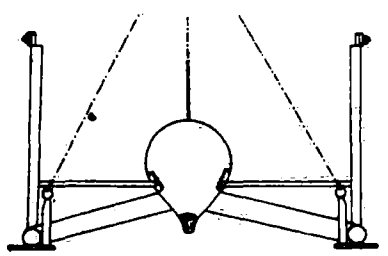
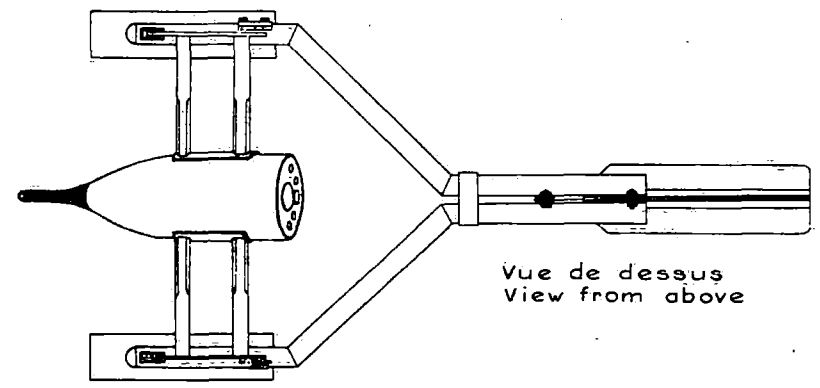
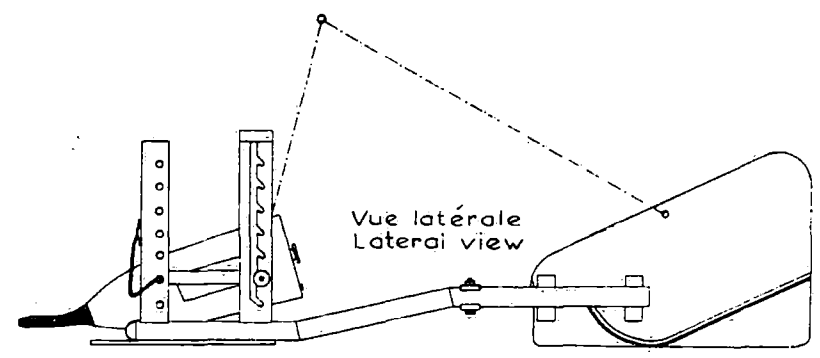


VAN TIL K. 1956. Le transport de sable dans les bras du Rhin aux Pays-Bas. Bulletin de l'association internationale permanente des congrès de navigation, Bruxelles.

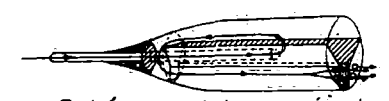
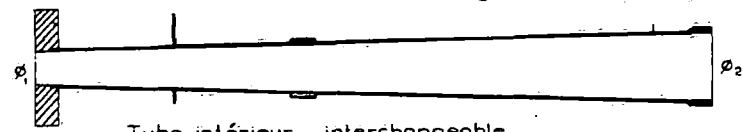
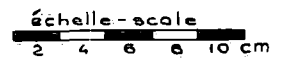
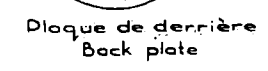
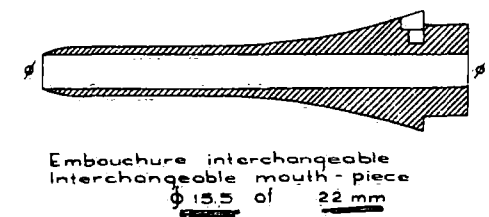
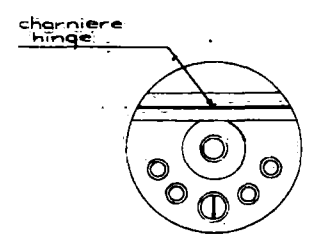
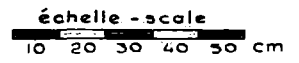
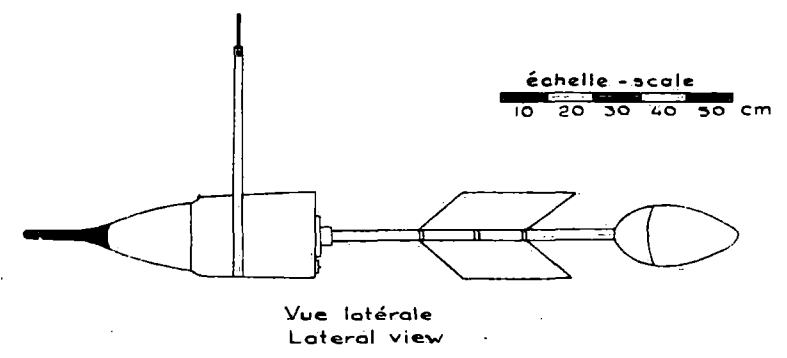


Courbes de jaugeage d'une bouteille de Delft.
Gauging curves of a Delfts bottle

VAN TILK, 1956. Le transport de sable dans les bras du Rhin
aux Pays-Bas. Bulletin de l'association internationale
permanente des congrès de navigation. Bruxelles.

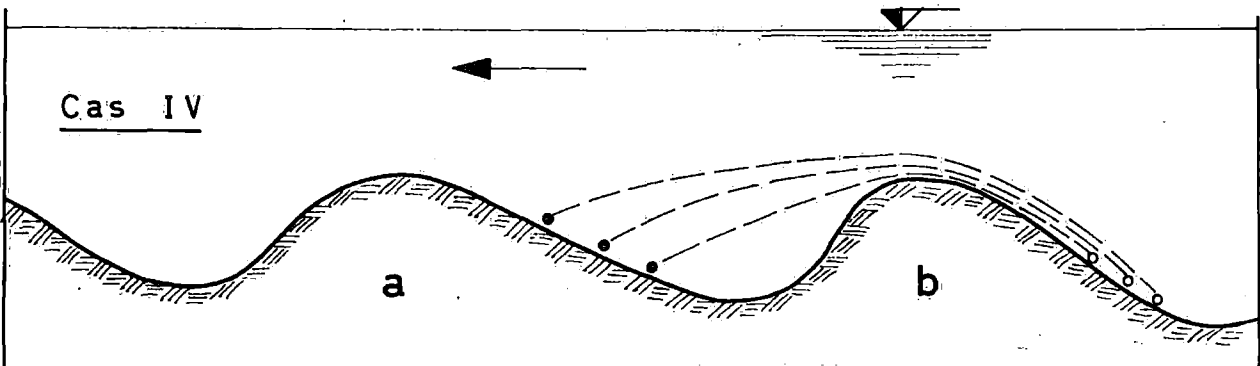
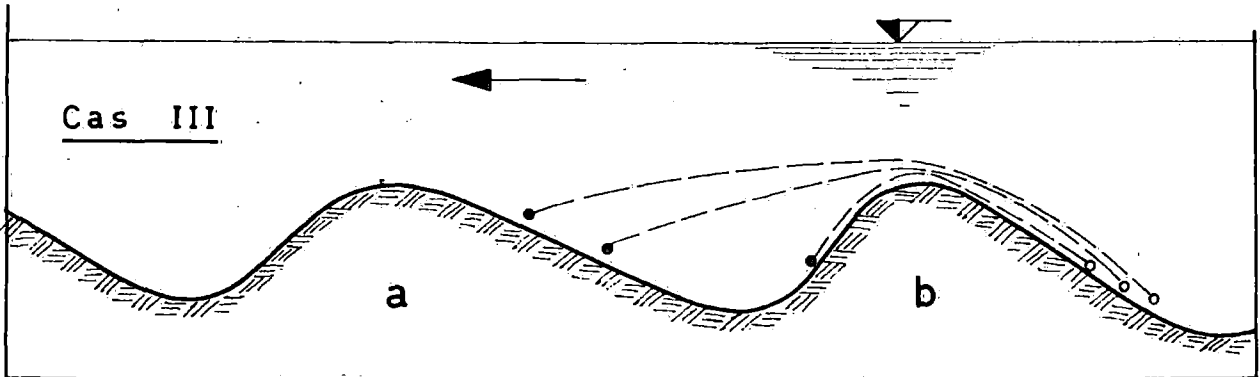
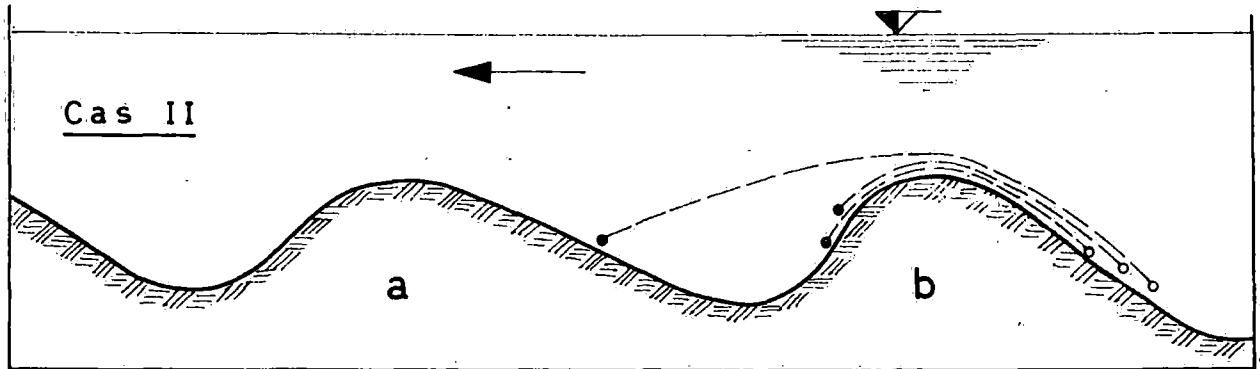
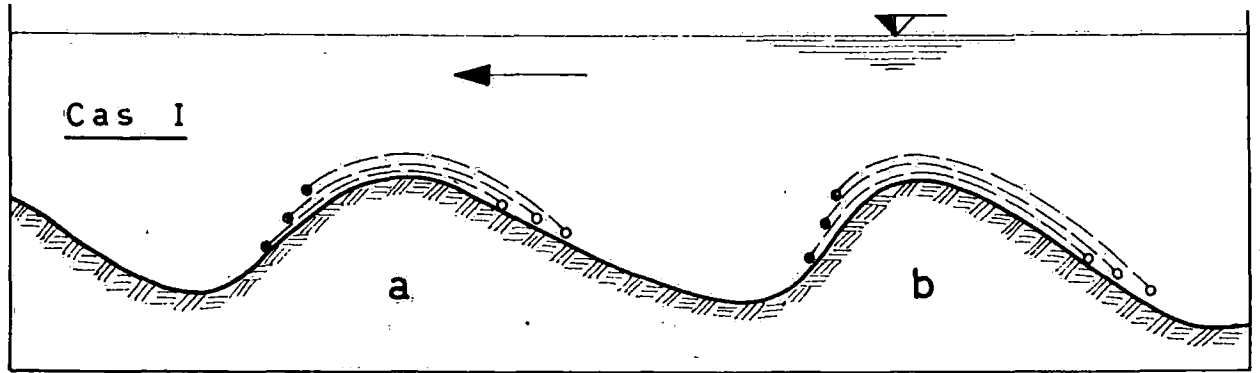


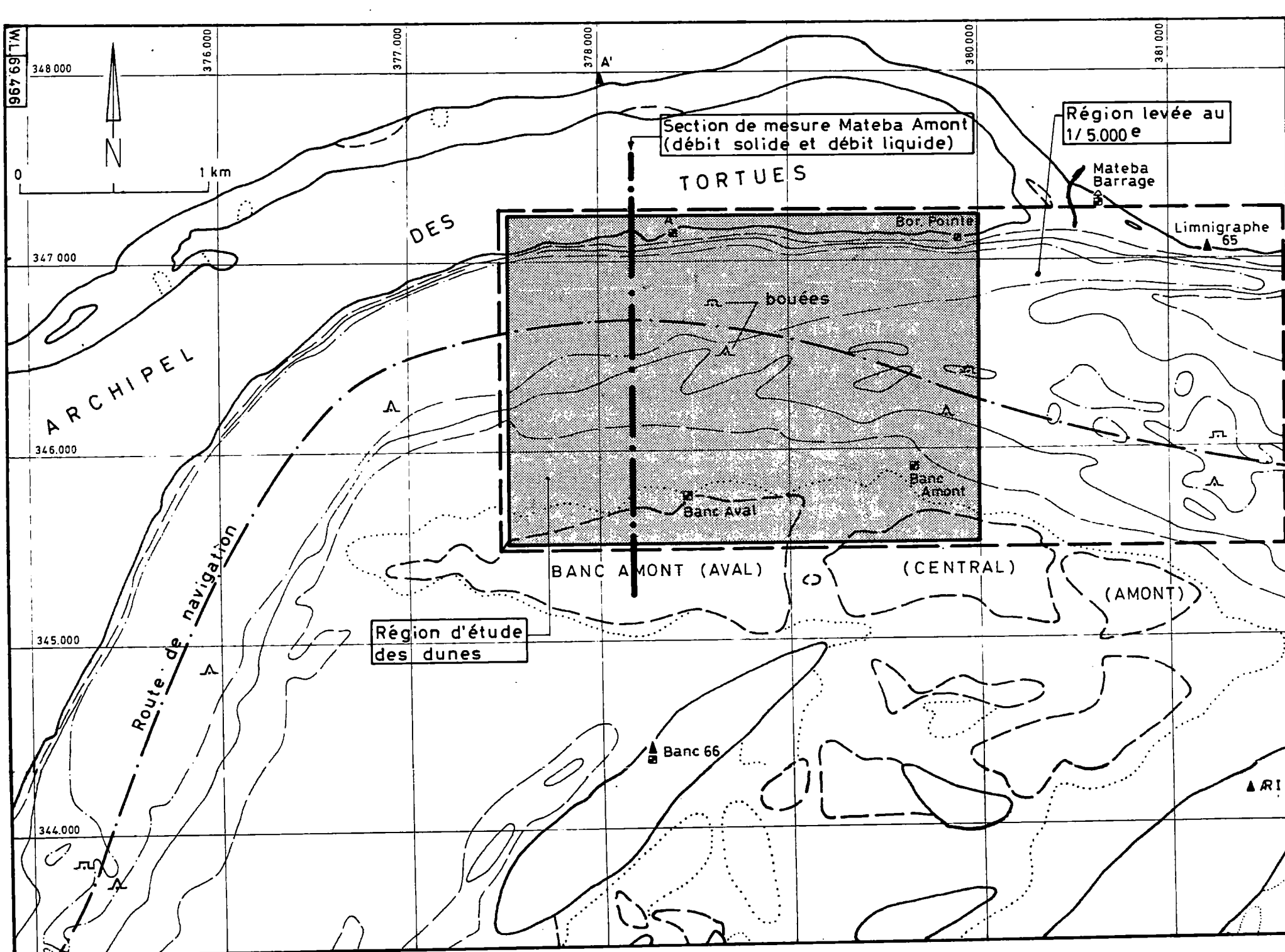
Bouteille de Delft sur traineau
Delft bottle on sleigh



Bouteille de Delft suspendue à un câble. (DF1)
Delft bottle suspended from cable

VI VAN TIL K. 1956. Le transport de sable dans les bras du Rhin aux Pays-Bas. Bulletin de l'association internationale permanente des congrès de navigation. Bruxelles.





MISSION 1968

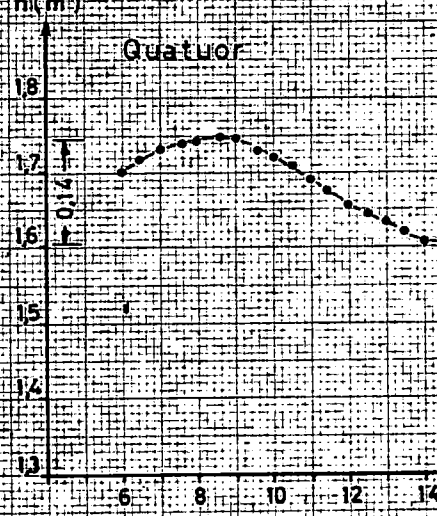
MATEBA AMONT - REGION ETUDIEE
 EN DETAIL DU POINT DE VUE
 SEDIMENTOLOGIQUE

MOD. 255

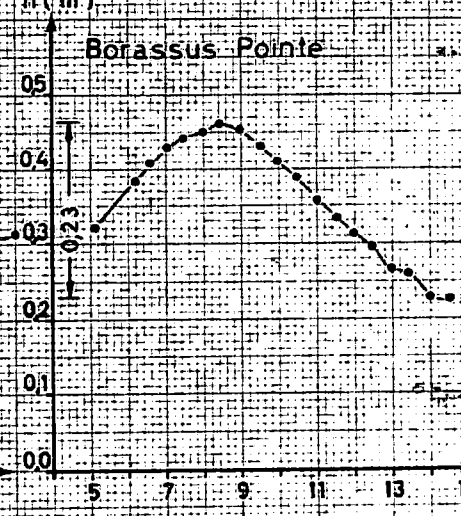
Figure 102

W.L. 66769

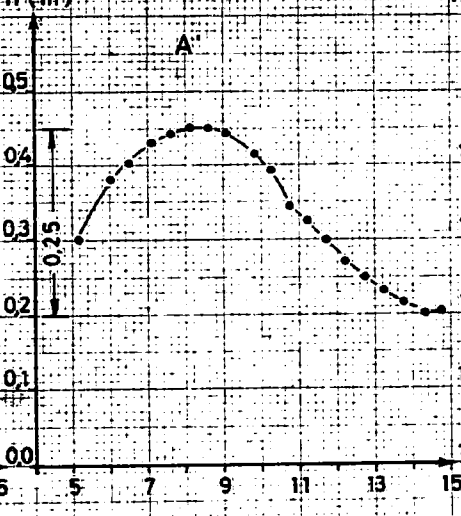
Cotes hydrogr
h(m)



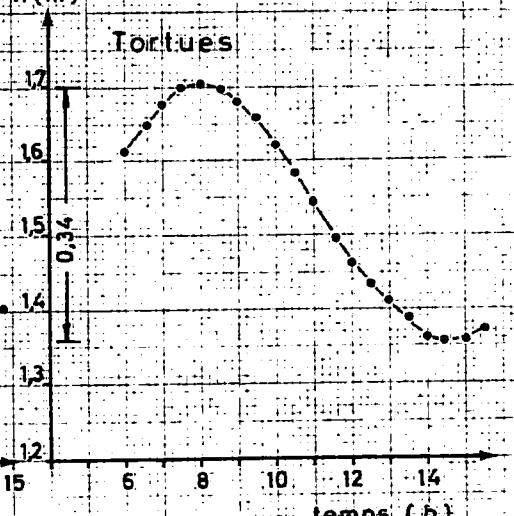
h(m)



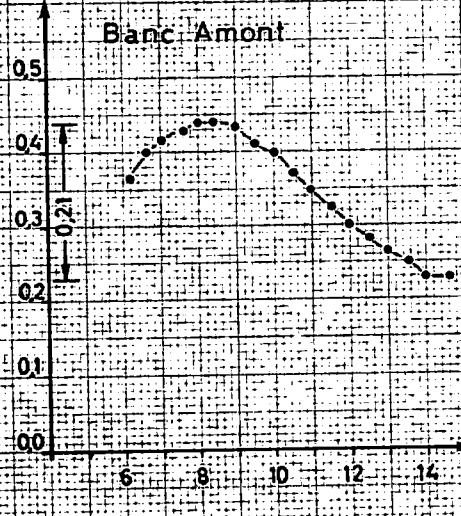
h(m)



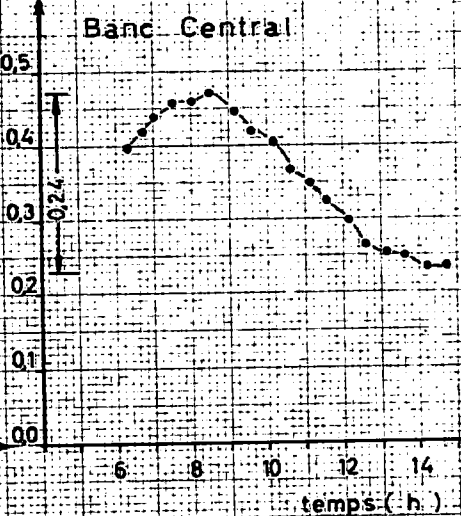
Cotes hydrogr
h(m)



h(m)



h(m)



* zéro placé environ au niveau des plus basses eaux de 1968

MISSION 1968
TRANSPORT SOLIDE

MESURE MATEBA AMONT
DU 25 / 9 / 1968
Lectures d'échelles
limnimétriques

MOD. 255
SEDIMENTOLOGIE
Figure 103

MISSION 1968
TRANSPORT SOLIDE

MATEBA AMONT
25-26/9/68
TRANSPORT SOLIDE
MESURE A L'APPAREIL
B.T.M.A.

MOD. 255
SEDIMENTOLOGIE

Figure 104 a

Verticale	Prise n°	heure	t (sec)	g (cm³)	c	$\frac{g \times 8,64}{t \times c \times 8,5} = a$ (m³/m. 24 hrs)	a. moyen	
1 (25-9-68)	a		120	19,0	1	$\frac{19 \times 8,64}{120 \times 1 \times 8,5} = 0,159$		
	b		120	15,5	1	$\frac{15,5 \times 8,64}{120 \times 1 \times 8,5} = 0,130$		
	c		120	10,0	1	$\frac{10,0 \times 8,64}{120 \times 1 \times 8,5} = 0,084$		
	d		120	35,0	0,98	$\frac{95 \times 8,64}{120 \times 0,98 \times 8,5} = 0,810$		
	e		120	23,0	1	$\frac{23,0 \times 8,64}{120 \times 1 \times 8,5} = 0,192$		
Σ							1,375	0,275
2 (25-9-68)	a	09.50.26	120	53,5	1	$\frac{53,5 \times 8,64}{120 \times 1 \times 8,5} = 0,453$		
	b	10.06.23	120	21,0	1	$\frac{21,0 \times 8,64}{120 \times 1 \times 8,5} = 0,178$		
	c	10.18.35	150	12,0	1	$\frac{12,0 \times 8,64}{150 \times 1 \times 8,5} = 0,081$		
	d	10.30.40	180	12,0	1	$\frac{12,0 \times 8,64}{180 \times 1 \times 8,5} = 0,068$		
	e	10.42.50	130	10,0	1	$\frac{10,0 \times 8,64}{130 \times 1 \times 8,5} = 0,078$		
Σ							0,851	0,170
3 (25-9-68)	a	11.24.20	140	12,0	1	$\frac{12,0 \times 8,64}{140 \times 1 \times 8,5} = 0,088$		
	b	11.36.00	120	2,5	1	$\frac{2,5 \times 8,64}{120 \times 1 \times 8,5} = 0,021$		
	c	11.42.45	120	2,0	1	$\frac{2,0 \times 8,64}{120 \times 1 \times 8,5} = 0,017$		
	d	11.48.30	120	7,5	1	$\frac{7,5 \times 8,64}{120 \times 1 \times 8,5} = 0,063$		
	e	11.58.	150	13,5	1	$\frac{13,5 \times 8,64}{150 \times 1 \times 8,5} = 0,092$		
Σ							0,281	0,056
4 (25-9-68)	a	12.45.00	120	10,0	1	$\frac{10,0 \times 8,64}{120 \times 1 \times 8,5} = 0,085$		
	b	12.51.30	120	7,5	1	$\frac{7,5 \times 8,64}{120 \times 1 \times 8,5} = 0,063$		
	c	12.58.10	140	111,5	0,96	$\frac{111,5 \times 8,64}{140 \times 0,96 \times 8,5} = 0,842$		
	d	13.06.15	120	12,0	1	$\frac{12,0 \times 8,64}{120 \times 1 \times 8,5} = 0,102$		
	e	13.13.00	120	3,5	1	$\frac{3,5 \times 8,64}{120 \times 1 \times 8,5} = 0,029$		
Σ							1,121	0,224
5 (25-9-68)	a	13.56.20	120	21,0	1	$\frac{21,0 \times 8,64}{120 \times 1 \times 8,5} = 0,176$		
	b	14.03.35	150	16,0	1	$\frac{16,0 \times 8,64}{150 \times 1 \times 8,5} = 0,109$		
	c	14.10.40	120	77,0	1	$\frac{77,0 \times 8,64}{120 \times 1 \times 8,5} = 0,645$		
	d	14.20.25	120	43,0	1	$\frac{43,0 \times 8,64}{120 \times 1 \times 8,5} = 0,360$		
	e	14.28.00	120	400,0	0,62	$\frac{400,0 \times 8,64}{120 \times 0,62 \times 8,5} = 5,495$		
Σ							6,785	1,357
Σ a, b, c, d							1,290	0,258

Verticale	Prise n°	heure	t (sec)	g (cm³)	c	$\frac{g \times 8,64}{t \times c \times 8,5} = a$ (m³/m. 24 hrs)	a. moyen	
6 (26-9-68)	a	07.47.20	120	8,5	1	$\frac{8,5 \times 8,64}{120 \times 1 \times 8,5} = 0,071$		
	b	07.56.05	120	2,0	1	$\frac{2,0 \times 8,64}{120 \times 1 \times 8,5} = 0,017$		
	c	08.04.15	240	10,0	1	$\frac{10,0 \times 8,64}{240 \times 1 \times 8,5} = 0,042$		
	d	08.16.00	120	2,5	1	$\frac{2,5 \times 8,64}{120 \times 1 \times 8,5} = 0,021$		
	e	08.26.00	120	1,1	1	$\frac{1,1 \times 8,64}{120 \times 1 \times 8,5} = 0,009$		
Σ							0,160	0,032
7 (26-9-68)	a	09.45.30	120	117,0	0,96	$\frac{117,0 \times 8,64}{120 \times 0,96 \times 8,5} = 1,020$		
	b	09.53.30	60	7,0	1	$\frac{7,0 \times 8,64}{60 \times 1 \times 8,5} = 0,117$		
	c	09.56.20	70	16,0	1	$\frac{16,0 \times 8,64}{70 \times 1 \times 8,5} = 0,232$		
	d	10.04.15	60	4,75	1	$\frac{4,75 \times 8,64}{60 \times 1 \times 8,5} = 0,080$		
	e	10.17.15	120	20,0	1	$\frac{20,0 \times 8,64}{120 \times 1 \times 8,5} = 0,167$		
Σ							1,616	0,323
8 (26-9-68)	a	11.08.45	120	7,5	1	$\frac{7,5 \times 8,64}{120 \times 1 \times 8,5} = 0,063$		
	b	11:16.30	120	4,5	1	$\frac{4,5 \times 8,64}{120 \times 1 \times 8,5} = 0,038$		
	c	11:24.10	120	13,0	1	$\frac{13,0 \times 8,64}{120 \times 1 \times 8,5} = 0,109$		
	d	11.31.40	120	6,0	1	$\frac{6,0 \times 8,64}{120 \times 1 \times 8,5} = 0,050$		
	e	11.39.00	120	8,0	1	$\frac{8,0 \times 8,64}{120 \times 1 \times 8,5} = 0,067$		
Σ							0,327	0,065
9 (26-9-68)	a	12.22.00	120	6,0	1	$\frac{6,0 \times 8,64}{120 \times 1 \times 8,5} = 0,050$		
	b	12.31.40	120	11,0	1	$\frac{11,0 \times 8,64}{120 \times 1 \times 8,5} = 0,092$		
	c	12.39.45	120	12,5	1	$\frac{12,5 \times 8,64}{120 \times 1 \times 8,5} = 0,104$		
	d	12.48.35	120	3,5	1	$\frac{3,5 \times 8,64}{120 \times 1 \times 8,5} = 0,029$		
	e	12.56.20	120	9,0	1	$\frac{9,0 \times 8,64}{120 \times 1 \times 8,5} = 0,075$		
Σ							0,350	0,070
10 (26-9-68)	a	13.41.45	120	5,0	1	$\frac{5,0 \times 8,64}{120 \times 1 \times 8,5} = 0,042$		
	b	13.48.45	120	339,5	0,66	$\frac{339,5 \times 8,64}{120 \times 0,66 \times 8,5} = 4,215$		
	c	13.55.25	120	27,0	1	$\frac{27,0 \times 8,64}{120 \times 1 \times 8,5} = 0,226$		
	d	14.04.30	150	29,0	1	$\frac{29,0 \times 8,64}{150 \times 1 \times 8,5} = 0,234$		
	e	14.15.40	120	75,0	1	$\frac{75,0 \times 8,64}{120 \times 1 \times 8,5} = 0,627$		
Σ							5,344	1,069
Σ a, c, d, e							1,127	0,225

W. L. 69.580

(+ terre)
(érosion
de la rive
de l'île
de Tortue)

Verticale	profond' (m)	profond' des prélèvs (m)	d (h-0,40) (m)	temps par point (min)	temps par vert (min)	F	g (cm ³)	$\frac{g \times d \times F}{t}$	= c (m ³ /m.24 hrs)
1 (15-9-68) 8h22/8h22	15,95	14,45	15,55	5	40	7,58	1,75	$\frac{1,75 \times 15,55 \times 7,58}{40}$	5,16
	12,60								
	10,65								
	8,70								
	6,75								
	4,85								
2 (25-9-68) 9h54/10h34	16,20	14,80	15,80	5	40	7,58	4,2	$\frac{4,2 \times 15,80 \times 7,58}{40}$	12,58
	12,80								
	10,85								
	8,90								
	6,90								
	4,95								
3 (25-9-68) 11h13/12h2	10,30	9,30	9,90	5	40	7,58	5,3	$\frac{5,3 \times 9,90 \times 7,58}{40}$	9,96
	8,05								
	6,80								
	5,55								
	4,35								
	3,10								
4 (15-9-68) 12h44/13h11	8,20	7,30	7,80	5	40	7,58	3,0	$\frac{3,0 \times 7,80 \times 7,58}{40}$	4,44
	6,30								
	5,30								
	4,40								
	3,40								
	2,45								
5 (15-9-68) 13h57/14h12	5,20	4,45	4,80	5	35	7,58	0,8	$\frac{0,8 \times 4,80 \times 7,58}{35}$	0,83
	3,75								
	3,10								
	2,40								
	1,70								
	1,05								

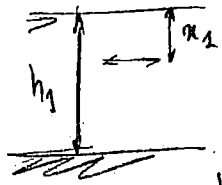
Verticale	profond' (m)	profond' des prélèvs (m)	d (h-0,40) (m)	temps par point (min)	temps par vert (min)	F	g (cm ³)	$\frac{g \times d \times F}{t}$	= c (m ³ /m.24 hrs)
6 (26-9-68) 7h52/8h27	(7,00)	6,45	6,60	5	35	3,79	9	$\frac{9 \times 6,60 \times 3,79}{35}$	6,43
	5,20								
	4,20								
	3,30								
	2,35								
	1,40								
7 (26-9-68) 9h33/10h11	16,80	15,40	16,40	5	40	3,79	6	$\frac{6 \times 16,40 \times 3,79}{40}$	9,32
	13,35								
	11,30								
	9,25								
	7,20								
	5,15								
8 (26-9-68) 11h07/11h47	14,60	13,30	14,20	5	40	3,79	10,0	$\frac{10 \times 14,20 \times 3,79}{40}$	15,49
	11,50								
	9,35								
	8,00								
	6,20								
	4,45								
9 (26-9-68) 12h22/13h2	9,10	8,15	8,70	5	40	3,79	12,0	$\frac{12 \times 8,70 \times 3,79}{40}$	9,89
	7,10								
	6,00								
	4,90								
	3,80								
	2,70								
10 (26-9-68) 13h16/14h15	5,95	5,20	5,55	5	35	3,79	13,0	$\frac{13 \times 5,55 \times 3,79}{35}$	7,61
	4,40								
	3,60								
	2,80								
	2,00								
	1,20								

Verticale	Prise n°	hauteur h (m)	épaisseur d (m)	t (min)	F	g	$\frac{g \times d \times F}{t} = b$ (m ³ /m. 24 hrs)	Σ b (d=0,30m)
1 (25-9-68)	I	0,15	0,10	10	3,79	43	$\frac{43 \times 0,10 \times 3,79}{10} = 1,630$	4,560
	II	0,25	0,10	10	3,79	37	$\frac{37 \times 0,10 \times 3,79}{10} = 1,400$	
	III	0,35	0,10	10	3,79	40	$\frac{40 \times 0,10 \times 3,79}{10} = 1,520$	
2 (15-9-68)	I	0,15	0,10	10	3,79	275	$\frac{275 \times 0,10 \times 3,79}{10} = 10,40$	18,66
	II	0,25	0,10	10	3,79	97	$\frac{97 \times 0,10 \times 3,79}{10} = 3,68$	
	III	0,35	0,10	10	3,79	121	$\frac{121 \times 0,10 \times 3,79}{10} = 4,58$	
3 (15-9-68)	I	0,15	0,10	10	3,79	140	$\frac{14,0 \times 0,10 \times 3,79}{10} = 0,530$	1,572
	II	0,25	0,10	10	3,79	120	$\frac{12,0 \times 0,10 \times 3,79}{10} = 0,455$	
	III	0,35	0,10	10	3,79	15,5	$\frac{15,5 \times 0,10 \times 3,79}{10} = 0,587$	
4 (15-9-68)	I	0,15	0,10	10	3,79	205	$\frac{20,5 \times 0,10 \times 3,79}{10} = 0,777$	1,705
	II	0,25	0,10	10	3,79	14,0	$\frac{14,0 \times 0,10 \times 3,79}{10} = 0,530$	
	III	0,35	0,10	10	3,79	10,5	$\frac{10,5 \times 0,10 \times 3,79}{10} = 0,398$	
5 (15-9-68)	I	0,15	0,10	10	3,79	17,0	$\frac{17,0 \times 0,10 \times 3,79}{10} = 0,644$	1,440
	II	0,25	0,10	10	3,79	9,0	$\frac{9,0 \times 0,10 \times 3,79}{10} = 0,341$	
	III	0,35	0,10	10	3,79	12,0	$\frac{12,0 \times 0,10 \times 3,79}{10} = 0,455$	

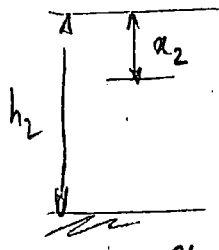
Verticale	Prise n°	hauteur h (m)	épaisseur d (m)	t (min)	F	g	$\frac{g \times d \times F}{t} = b$ (m ³ /m. 24 hrs)	Σ b (d=0,30m)
6 (26-9-68)	I	0,15	0,10	5	3,79	5,0	$\frac{5 \times 0,10 \times 3,79}{5} = 0,379$	0,810
	II	0,25	0,10	5	3,79	2,5	$\frac{2,5 \times 0,10 \times 3,79}{5} = 0,189$	
	III	0,35	0,10	5	3,79	3,2	$\frac{3,2 \times 0,10 \times 3,79}{5} = 0,242$	
7 (26-9-68)	I	0,15	0,10	5	3,79	2095	$\frac{209,5 \times 0,10 \times 3,79}{5} = 15,890$	17,785
	II	0,25	0,10	5	3,79	14	$\frac{14 \times 0,10 \times 3,79}{5} = 1,061$	
	III	0,35	0,10	5	3,79	11	$\frac{11 \times 0,10 \times 3,79}{5} = 0,834$	
8 (26-9-68)	I	0,15	0,10	5	3,79	1920	$\frac{192 \times 0,10 \times 3,79}{5} = 14,510$	13,630
	II	0,25	0,10	5	3,79	135	$\frac{13,5 \times 0,10 \times 3,79}{5} = 1,022$	
	III	0,35	0,10	5	3,79	14,5	$\frac{14,5 \times 0,10 \times 3,79}{5} = 1,098$	
9 (26-9-68)	I	0,15	0,10	5	3,79	30,5	$\frac{30,5 \times 0,10 \times 3,79}{5} = 2,310$	3,636
	II	0,25	0,10	5	3,79	10,5	$\frac{10,5 \times 0,10 \times 3,79}{5} = 0,796$	
	III	0,35	0,10	5	3,79	7,0	$\frac{7 \times 0,10 \times 3,79}{5} = 0,530$	
10 (26-9-68)	I	0,15	0,10	10	3,79	205	$\frac{20,5 \times 0,10 \times 3,79}{10} = 0,777$	2,615
	II	0,25	0,10	10	3,79	25,0	$\frac{25 \times 0,10 \times 3,79}{10} = 0,948$	
	III	0,35	0,10	10	3,79	23,5	$\frac{23,5 \times 0,10 \times 3,79}{10} = 0,880$	

W.L. 69.581

W'est-il pas intéressant d'avoir pour toutes les mesures le m^e
% de la hauteur



$$x_1 = k \cdot h_1$$



$$x_2 = k \cdot h_2$$

$k \%$

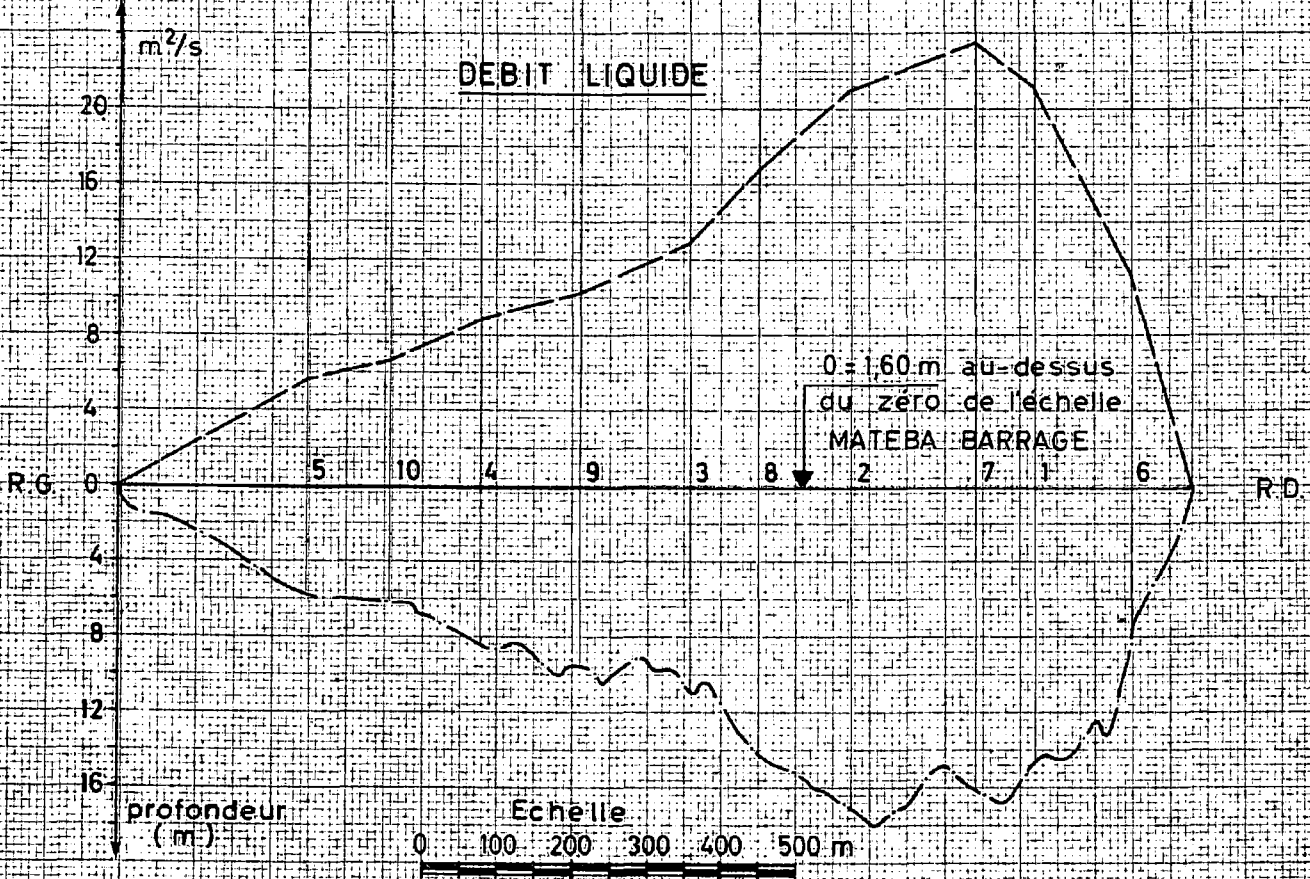
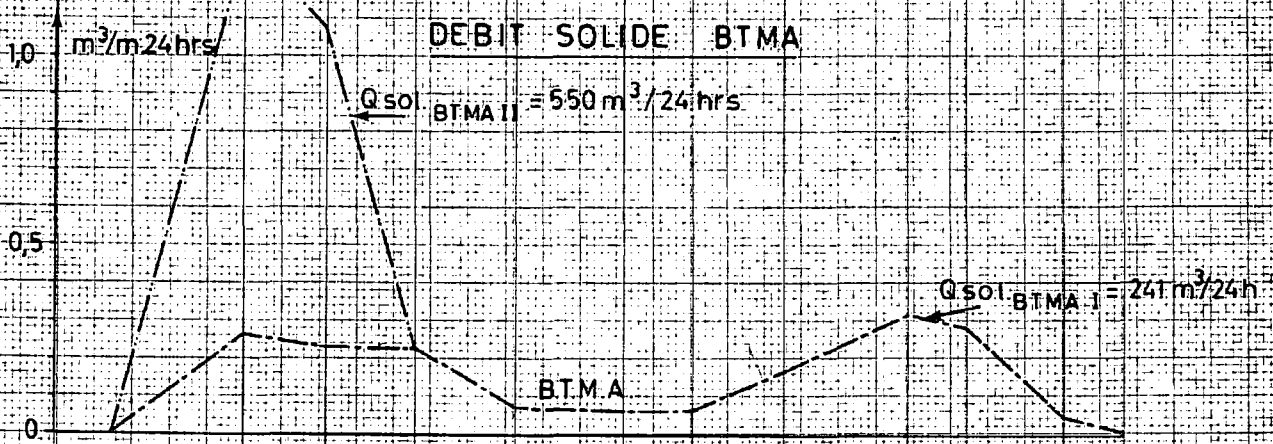
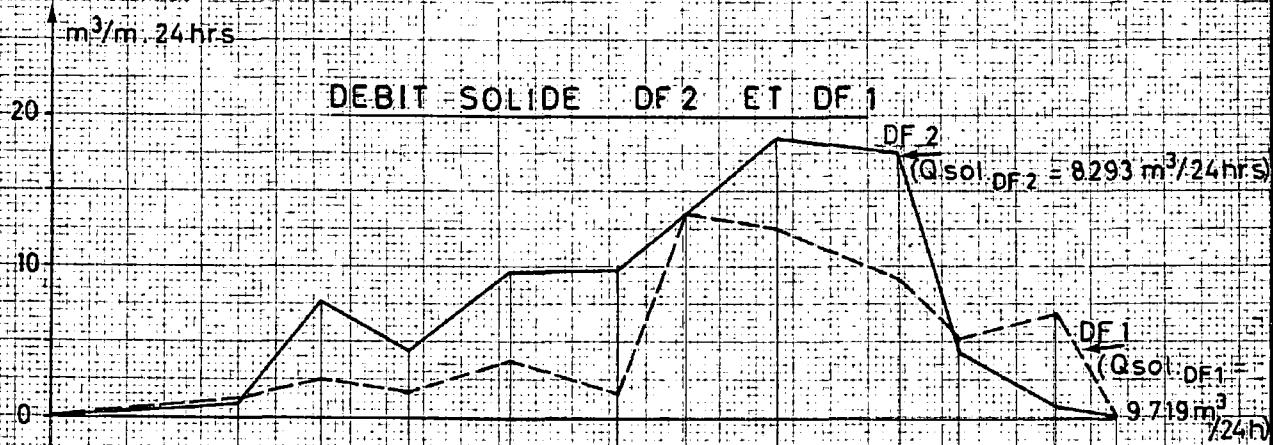
PROFOND.	PROFONDEUR DES POINTS EN DESSOUS DU NIVEAU D'EAU (en mètres)						minutes par point	minutes à verté.	
1.20	0.15	0.40	0.70	≈ 58,3%			10	30	
1.30	0.15	0.45	0.75	≈ 57,7%			10	30	
1.40	0.15	0.50	0.80	≈ 57,1%			10	30	
1.50	0.20	0.55	0.90	60%			10	30	
1.60	0.20	0.60	1.00	62,5%			10	30	
1.70	0.20	0.65	1.10	64,7%			10	30	
1.80	0.25	0.70	1.15	63,9%			10	30	
1.90	0.25	0.75	1.25	65,8%			10	30	
2.00	0.20	0.60	1.00	1.40			9	36	
2.10	0.20	0.65	1.05	1.50			9	36	
2.20	0.25	0.70	1.15	1.60			9	36	
2.30	0.25	0.70	1.20	1.65			9	36	
2.40	0.25	0.75	1.25	1.75			9	36	
2.50	0.20	0.65	1.05	1.50	1.90		7	35	
2.60	0.20	0.65	1.10	1.55	2.00		7	35	
2.70	0.25	0.70	1.15	1.60	2.05		7	35	
2.80	0.25	0.70	1.20	1.70	2.15		7	35	
2.90	0.25	0.75	1.25	1.75	2.25		7	35	
3.00	0.25	0.80	1.30	1.80	2.35		7	35	
3.10	0.25	0.80	1.35	1.90	2.45		7	35	
3.20	0.30	0.85	1.40	1.95	2.50		7	35	
3.30	0.30	0.85	1.45	2.05	2.60		7	35	
3.40	0.30	0.90	1.50	2.10	2.70		7	35	
3.50	0.25	0.80	1.30	1.80	2.35	2.85	6	36	
3.60	0.25	0.80	1.30	1.85	2.40	2.90	6	36	
3.70	0.30	0.80	1.35	1.90	2.45	3.00	6	36	
3.80	0.30	0.85	1.40	2.00	2.55	3.10	6	36	
3.90	0.25	0.75	1.25	1.75	2.25	2.75	3.25	5	35
4.00	0.25	0.75	1.30	1.80	2.30	2.80	3.30	5	35
4.10	0.25	0.80	1.30	1.85	2.40	2.90	3.45	5	35
4.20	0.25	0.80	1.35	1.90	2.45	3.00	3.50	5	35
4.30	0.30	0.85	1.40	1.95	2.50	3.05	3.60	5	35
4.40	0.30	0.85	1.45	2.00	2.55	3.15	3.70	5	35
4.50	0.30	0.90	1.45	2.05	2.65	3.20	3.80	5	35
4.60	0.30	0.90	1.50	2.10	2.70	3.30	3.90	5	35
4.70	0.30	0.90	1.55	2.15	2.75	3.40	4.00	5	35
4.80	0.30	0.95	1.55	2.20	2.85	3.45	4.10	5	35
4.90	0.30	0.95	1.60	2.25	2.90	3.55	4.15	5	35

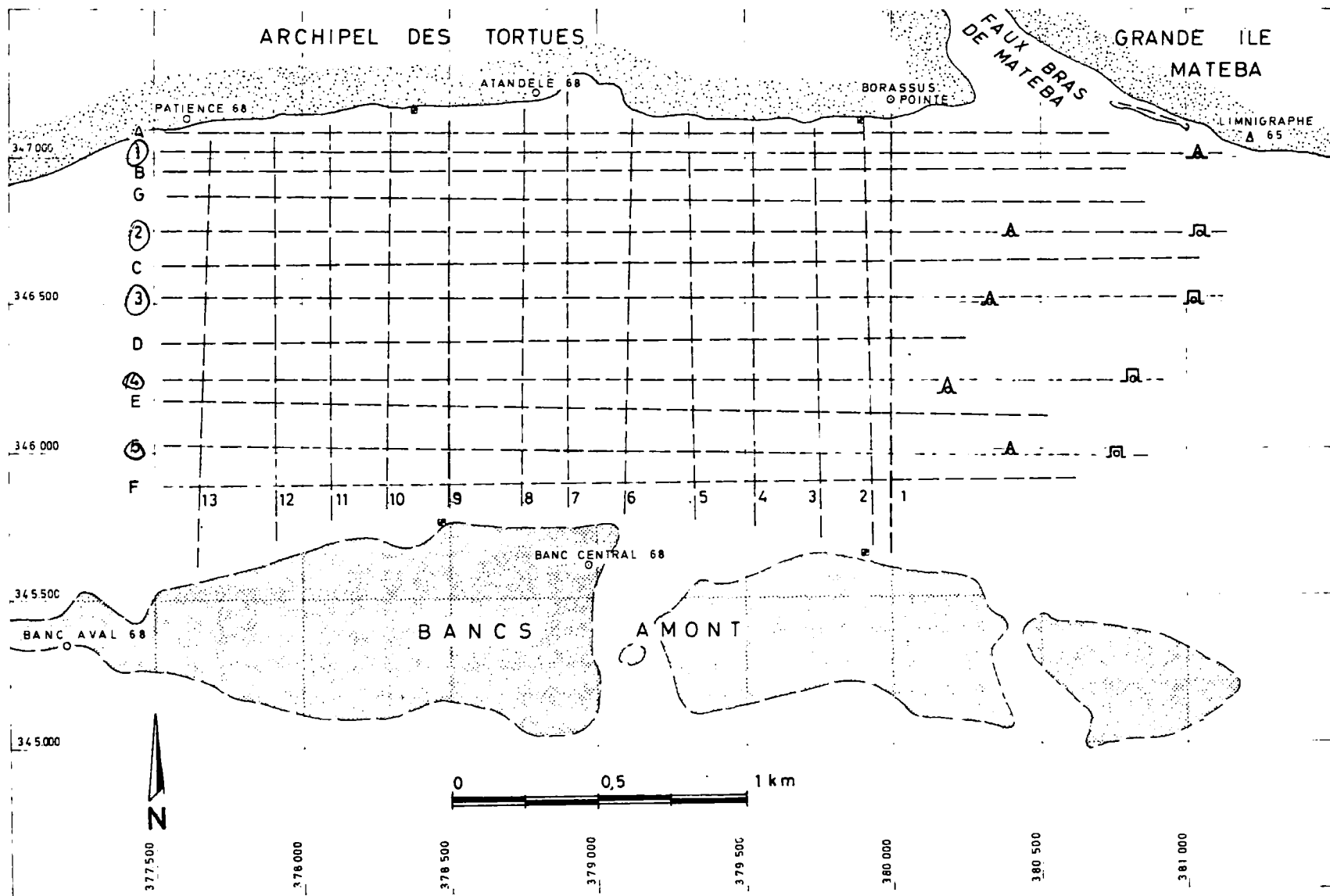
PROFOND.	PROFONDEUR DES POINTS EN-DESSOUS DU NIVEAU D'EAU (en mètres)								minutes par point	minutes p. vertic.
	0.35	1.00	1.65	2.30	2.95	3.60	4.25	4.90		
5.00	0.35	1.00	1.65	2.30	2.95	3.60	4.25		5	35
5.10	0.35	1.00	1.70	2.35	3.00	3.70	4.35		5	35
5.20	0.35	1.05	1.70	2.40	3.10	3.75	4.45		5	35
5.30	0.35	1.05	1.75	2.45	3.15	3.85	4.55		5	35
5.40	0.35	1.05	1.80	2.50	3.20	3.95	4.65		5	35
5.50	0.35	1.10	1.80	2.55	3.30	4.00	4.75		5	35
5.60	0.35	1.10	1.85	2.60	3.35	4.10	4.85		5	35
5.70	0.40	1.15	1.90	2.65	3.40	4.15	4.95		5	35
5.80	0.40	1.15	1.95	2.70	3.45	4.25	5.00		5	35
5.90	0.40	1.20	1.95	2.75	3.55	4.30	5.10		5	35
6.00	0.40	1.20	2.00	2.80	3.60	4.40	5.20		5	35
6.10	0.40	1.20	2.05	2.85	3.65	4.50	5.30		5	35
6.20	0.40	1.25	2.05	2.90	3.75	4.55	5.40		5	35
6.30	0.40	1.25	2.10	2.95	3.80	4.65	5.45		5	35
6.40	0.45	1.30	2.15	3.00	3.85	4.70	5.55		5	35
6.50	0.45	1.30	2.20	3.05	3.90	4.80	5.65		5	35
6.60	0.45	1.35	2.20	3.10	4.00	4.90	5.75		5	35
6.70	0.45	1.35	2.25	3.15	4.05	4.95	5.85		5	35
6.80	0.45	1.35	2.30	3.20	4.10	5.05	5.95		5	35
6.90	0.45	1.40	2.30	3.25	4.20	5.10	6.05		5	35
7.00	0.45	1.40	2.35	3.30	4.25	5.20	6.15		5	35
7.10	0.50	1.45	2.40	3.35	4.30	5.25	6.20		5	35
7.20	0.50	1.45	2.45	3.40	4.35	5.35	6.30		5	35
7.30	0.50	1.50	2.45	3.45	4.45	5.40	6.40		5	35
7.40	0.45	1.30	2.20	3.05	3.95	4.80	5.70	6.55	5	40
7.50	0.45	1.35	2.20	3.10	4.00	4.90	5.75	6.65	5	40
7.60	0.45	1.35	2.25	3.15	4.05	4.95	5.85	6.75	5	40
7.70	0.45	1.35	2.30	3.20	4.10	5.00	5.95	6.85	5	40
7.80	0.45	1.40	2.30	3.25	4.15	5.10	6.00	6.95	5	40
7.90	0.45	1.40	2.35	3.30	4.20	5.15	6.10	7.05	5	40
8.00	0.50	1.45	2.40	3.35	4.30	5.25	6.20	7.15	5	40
8.10	0.50	1.45	2.40	3.40	4.35	5.30	6.25	7.20	5	40
8.20	0.50	1.45	2.45	3.40	4.40	5.35	6.35	7.30	5	40
8.30	0.50	1.50	2.45	3.45	4.45	5.45	6.40	7.40	5	40
8.40	0.50	1.50	2.50	3.50	4.50	5.50	6.50	7.50	5	40
8.50	0.50	1.50	2.55	3.55	4.55	5.55	6.60	7.60	5	40
8.60	0.50	1.55	2.55	3.60	4.60	5.65	6.65	7.70	5	40
8.70	0.50	1.55	2.60	3.65	4.65	5.70	6.75	7.80	5	40
8.80	0.55	1.60	2.60	3.70	4.75	5.80	6.85	7.90	5	40
8.90	0.55	1.60	2.65	3.70	4.80	5.85	6.90	7.95	5	40

PROFOND.	PROFONDEUR DES POINTS EN-DESSOUS DU NIVEAU D'EAU (en mètres)								minutes par point	minutes p. vertic.
	0.55	1.60	2.70	3.75	4.85	5.90	7.00	8.05		
9.00	0.55	1.60	2.70	3.75	4.85	5.90	7.00	8.05	5	40
9.10	0.55	1.65	2.70	3.80	4.90	6.00	7.10	8.15	5	40
9.20	0.55	1.65	2.75	3.85	4.95	6.05	7.15	8.25	5	40
9.30	0.55	1.65	2.80	3.90	5.00	6.10	7.25	8.35	5	40
9.40	0.55	1.70	2.80	3.95	5.05	6.20	7.30	8.45	5	40
9.50	0.55	1.70	2.85	4.00	5.10	6.25	7.40	8.55	5	40
9.60	0.60	1.75	2.90	4.05	5.20	6.35	7.50	8.65	5	40
9.70	0.60	1.75	2.90	4.10	5.25	6.40	7.55	8.75	5	40
9.80	0.60	1.75	2.95	4.10	5.30	6.45	7.65	8.80	5	40
9.90	0.60	1.80	2.95	4.15	5.35	6.55	7.75	8.90	5	40
10.00	0.60	1.80	3.00	4.20	5.40	6.60	7.80	9.00	5	40
10.10	0.60	1.80	3.05	4.25	5.45	6.65	7.90	9.10	5	40
10.20	0.60	1.85	3.05	4.30	5.50	6.75	7.95	9.20	5	40
10.30	0.60	1.85	3.10	4.35	5.55	6.80	8.05	9.30	5	40
10.40	0.65	1.90	3.15	4.40	5.65	6.90	8.15	9.40	5	40
10.50	0.65	1.90	3.15	4.40	5.70	6.95	8.20	9.45	5	40
10.60	0.65	1.90	3.20	4.45	5.75	7.00	8.30	9.55	5	40
10.70	0.65	1.95	3.20	4.50	5.80	7.10	8.35	9.65	5	40
10.80	0.65	1.95	3.25	4.55	5.85	7.15	8.45	9.75	5	40
10.90	0.65	1.95	3.30	4.60	5.90	7.25	8.55	9.85	5	40
11.00	0.65	2.00	3.30	4.65	5.95	7.30	8.60	9.95	5	40
11.10	0.65	2.00	3.35	4.70	6.00	7.35	8.70	10.05	5	40
11.20	0.70	2.05	3.40	4.70	6.10	7.45	8.80	10.10	5	40
11.30	0.70	2.05	3.40	4.75	6.15	7.50	8.85	10.20	5	40
11.40	0.70	2.05	3.45	4.80	6.20	7.55	8.95	10.30	5	40
11.50	0.70	2.10	3.45	4.85	6.25	7.65	9.00	10.40	5	40
11.60	0.70	2.10	3.50	4.90	6.30	7.70	9.10	10.50	5	40
11.70	0.70	2.10	3.55	4.95	6.35	7.75	9.25	10.60	5	40
11.80	0.70	2.15	3.55	5.00	6.40	7.85	9.25	10.70	5	40
11.90	0.70	2.15	3.60	5.05	6.45	7.90	9.35	10.80	5	40
12.00	0.75	2.20	3.65	5.10	6.55	8.00	9.40	10.90	5	40
12.10	0.75	2.20	3.65	5.10	6.60	8.05	9.50	11.00	5	40
12.20	0.75	2.20	3.70	5.15	6.65	8.10	9.60	11.05	5	40
12.30	0.75	2.25	3.70	5.20	6.70	8.20	9.65	11.15	5	40
12.40	0.75	2.25	3.75	5.25	6.75	8.25	9.75	11.25	5	40
12.50	0.75	2.25	3.80	5.30	6.80	8.30	9.85	11.35	5	40
12.60	0.75	2.30	3.80	5.35	6.85	8.40	9.90	11.45	5	40
12.70	0.75	2.30	3.85	5.40	6.90	8.45	10.00	11.50	5	40
12.80	0.80	2.30	3.90	5.45	7.00	8.55	10.10	11.60	5	40
12.90	0.80	2.35	3.90	5.45	7.05	8.60	10.15	11.70	5	40

PROFOND.	PROFONDEUR DES POINTS EN DESSOUS DU NIVEAU D'EAU (en mètres)									minutes par point	minutes p.vatic.
	0.80	2.35	3.95	5.50	7.10	8.65	10.25	11.80	13.40		
13.00	0.80	2.35	3.95	5.50	7.10	8.65	10.25	11.80	13.40	5	40
13.10	0.80	2.40	3.95	5.55	7.15	8.75	10.30	11.90	13.50	5	40
13.20	0.80	2.40	4.00	5.60	7.20	8.80	10.40	12.00	13.60	5	40
13.30	0.80	2.40	4.05	5.65	7.25	8.85	10.50	12.10	13.70	5	40
13.40	0.80	2.45	4.05	5.70	7.30	8.95	10.55	12.20	13.80	5	40
13.50	0.80	2.45	4.10	5.75	7.35	9.00	10.65	12.30	13.90	5	40
13.60	0.85	2.50	4.15	5.80	7.45	9.10	10.70	12.40	14.00	5	40
13.70	0.85	2.50	4.15	5.80	7.50	9.15	10.80	12.50	14.10	5	40
13.80	0.85	2.50	4.20	5.85	7.55	9.20	10.90	12.55	14.20	5	40
13.90	0.85	2.55	4.20	5.90	7.60	9.30	10.95	12.65	14.30	5	40
14.00	0.85	2.55	4.25	5.95	7.65	9.35	11.05	12.75	14.40	5	40
14.10	0.85	2.60	4.30	6.00	7.70	9.45	11.10	12.85	14.50	5	40
14.20	0.85	2.60	4.30	6.05	7.75	9.50	11.20	12.95	14.60	5	40
14.30	0.85	2.60	4.35	6.10	7.80	9.55	11.30	13.00	14.70	5	40
14.40	0.90	2.65	4.40	6.15	7.90	9.65	11.40	13.10	14.80	5	40
14.50	0.90	2.65	4.40	6.15	7.95	9.70	11.45	13.20	14.90	5	40
14.60	0.90	2.65	4.45	6.20	8.00	9.75	11.50	13.30	15.00	5	40
14.70	0.90	2.70	4.45	6.25	8.05	9.85	11.60	13.40	15.10	5	40
14.80	0.90	2.70	4.50	6.30	8.10	9.90	11.70	13.50	15.20	5	40
14.90	0.90	2.75	4.55	6.35	8.15	9.95	11.80	13.60	15.30	5	40
15.00	0.90	2.75	4.55	6.40	8.20	10.05	11.85	13.70	15.40	5	40
15.10	0.90	2.75	4.60	6.45	8.25	10.10	11.90	13.75	15.50	5	40
15.20	0.90	2.75	4.60	6.45	8.30	10.15	12.00	13.85	15.60	5	40
15.30	0.90	2.80	4.65	6.50	8.40	10.25	12.10	13.95	15.70	5	40
15.40	0.95	2.80	4.70	6.55	8.40	10.30	12.20	14.05	15.80	5	40
15.50	0.95	2.85	4.70	6.60	8.50	10.40	12.25	14.15	15.90	5	40
15.60	0.95	2.85	4.75	6.65	8.55	10.45	12.35	14.25	16.00	5	40
15.70	0.95	2.85	4.80	6.70	8.60	10.50	12.45	14.35	16.10	5	40
15.80	0.95	2.90	4.80	6.75	8.65	10.60	12.50	14.40	16.20	5	40
15.90	0.95	2.90	4.85	6.75	8.70	10.65	12.60	14.45	16.30	5	40
16.00	0.95	2.90	4.85	6.80	8.75	10.70	12.70	14.60	16.40	5	40
16.10	1.00	2.95	4.90	6.90	8.85	10.80	12.75	14.70	16.50	5	40
16.20	1.00	2.95	4.95	6.90	8.90	10.85	12.80	14.80	16.60	5	40
16.30	1.00	3.00	4.95	6.95	8.95	10.95	12.95	14.90	16.70	5	40
16.40	1.00	3.00	5.00	7.00	9.00	11.00	13.00	15.00	16.80	5	40
16.50	1.00	3.00	5.00	7.05	9.05	11.05	13.05	15.10	16.90	5	40
16.60	1.00	3.05	5.05	7.10	9.10	11.15	13.15	15.20	17.00	5	40
16.70	1.00	3.05	5.10	7.15	9.15	11.20	13.25	15.30	17.10	5	40
16.80	1.05	3.10	5.15	7.20	9.25	11.30	13.35	15.40	17.20	5	40
16.90	1.05	3.10	5.15	7.25	9.30	11.35	13.40	15.50	17.30	5	40

PROFOND.	PROFONDEUR DES POINTS EN DESSOUS DU NIVEAU D'EAU (en mètres)									minutes par point	minutes par vertic.
	0.80	2.75	4.60	6.45	8.30	10.15	12.00	13.85	15.70		
17.00	0.80	2.75	4.60	6.45	8.30	10.15	12.00	13.85	15.70	5	45
17.10	0.95	2.80	4.65	6.50	8.35	10.20	12.10	13.90	15.80	5	45
17.20	0.95	2.80	4.65	6.55	8.40	10.25	12.15	14.00	15.80	5	45
17.30	0.95	2.80	4.70	6.55	8.45	10.35	12.20	14.10	15.95	5	45
17.40	0.95	2.85	4.70	6.60	8.50	10.40	12.30	14.15	16.05	5	45
17.50	0.95	2.85	4.75	6.65	8.55	10.45	12.35	14.25	16.15	5	45
17.60	0.95	2.85	4.75	6.70	8.60	10.50	12.40	14.30	16.20	5	45
17.70	0.95	2.90	4.80	6.70	8.65	10.55	12.50	14.40	16.30	5	45
17.80	0.95	2.90	4.85	6.75	8.70	10.60	12.55	14.50	16.40	5	45
17.90	0.95	2.90	4.85	6.80	8.75	10.70	12.60	14.60	16.50	5	45
18.00	1.00	2.95	4.90	6.85	8.80	10.75	12.70	14.65	16.60	5	45
18.10	1.00	2.95	4.90	6.90	8.85	10.80	12.80	14.75	16.70	5	45
18.20	1.00	2.95	4.95	6.90	8.90	10.85	12.85	14.80	16.80	5	45
18.30	1.00	3.00	4.95	6.95	8.95	10.90	12.95	14.95	16.90	5	45
18.40	1.00	3.00	5.00	7.00	9.00	11.00	13.00	15.00	17.00	5	45
18.50	1.00	3.00	5.00	7.05	9.05	11.05	13.05	15.05	17.10	5	45
18.60	1.00	3.05	5.05	7.05	9.10	11.10	13.10	15.15	17.20	5	45
18.70	1.00	3.05	5.10	7.10	9.15	11.20	13.20	15.25	17.30	5	45
18.80	1.00	3.05	5.10	7.15	9.20	11.25	13.30	15.35	17.40	5	45
18.90	1.05	3.10	5.15	7.20	9.25	11.30	13.35	15.40	17.50	5	45
19.00	1.05	3.10	5.15	7.25	9.30	11.35	13.40	15.50	17.55	5	45
19.10	1.05	3.10	5.20	7.25	9.35	11.40	13.50	15.60	17.65	5	45
19.20	1.05	3.15	5.20	7.30	9.40	11.50	13.60	15.65	17.75	5	45
19.30	1.05	3.15	5.25	7.35	9.45	11.55	13.65	15.75	17.85	5	45
19.40	1.05	3.15	5.25	7.40	9.50	11.60	13.70	15.80	17.90	5	45
19.50	1.05	3.20	5.30	7.45	9.55	11.70	13.80	15.90	18.05	5	45
19.60	1.05	3.20	5.35	7.45	9.60	11.75	13.85	16.00	18.15	5	45
19.70	1.05	3.20	5.35	7.50	9.65	11.80	13.95	16.10	18.20	5	45
19.80	1.10	3.25	5.40	7.55	9.70	11.85	14.00	16.15	18.30	5	45
19.90	1.10	3.25	5.40	7.60	9.75	11.90	14.10	16.25	18.40	5	45
20.00	1.10	3.25	5.45	7.60	9.80	12.00	14.15	16.30	18.50	5	45
20.10	1.10	3.30	5.50	7.65	9.85	12.05	14.25	16.45	18.65	5	45
20.20	1.10	3.30	5.50	7.70	9.90	12.10	14.30	16.50	18.70	5	45
20.30	1.10	3.30	5.55	7.75	9.95	12.15	14.40	16.60	18.80	5	45
20.40	1.10	3.35	5.55	7.80	10.00	12.20	14.45	16.70	18.90	5	45
20.50	1.10	3.35	5.60	7.80	10.05	12.30	14.50	16.75	19.00	5	45
20.60	1.15	3.35	5.60	7.85	10.10	12.35	14.60	16.85	19.10	5	45
20.70	1.15	3.40	5.65	7.90	10.15	12.40	14.65	16.90	19.20	5	45
20.80	1.15	3.40	5.65	7.95	10.20	12.50	14.75	17.00	19.30	5	45
20.90	1.15	3.40	5.70	8.00	10.25	12.50	14.80	17.10	19.35	5	45





A, B : Bouées d'alignement des profils de sondage

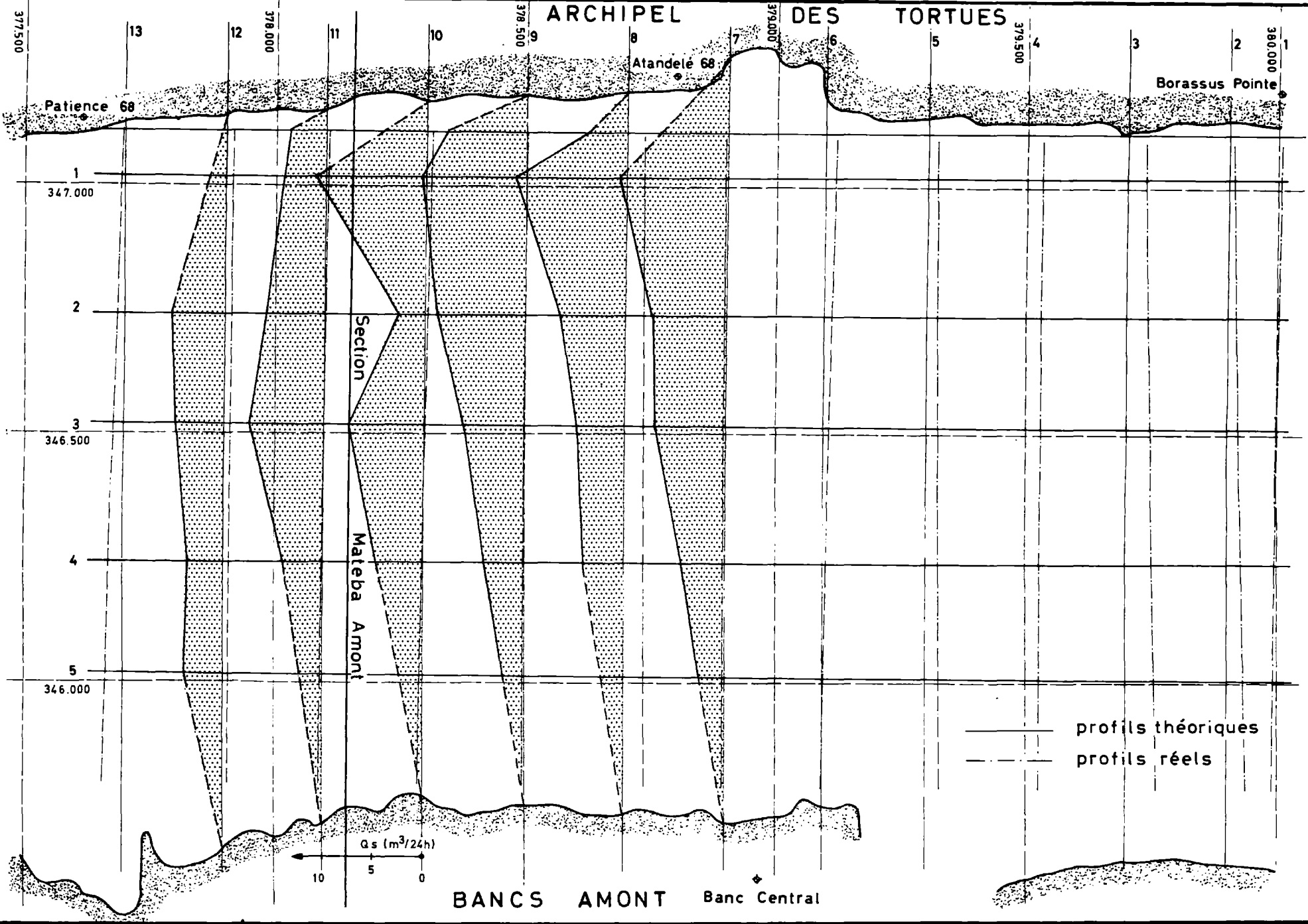
ARCHIPEL DES TORTUES

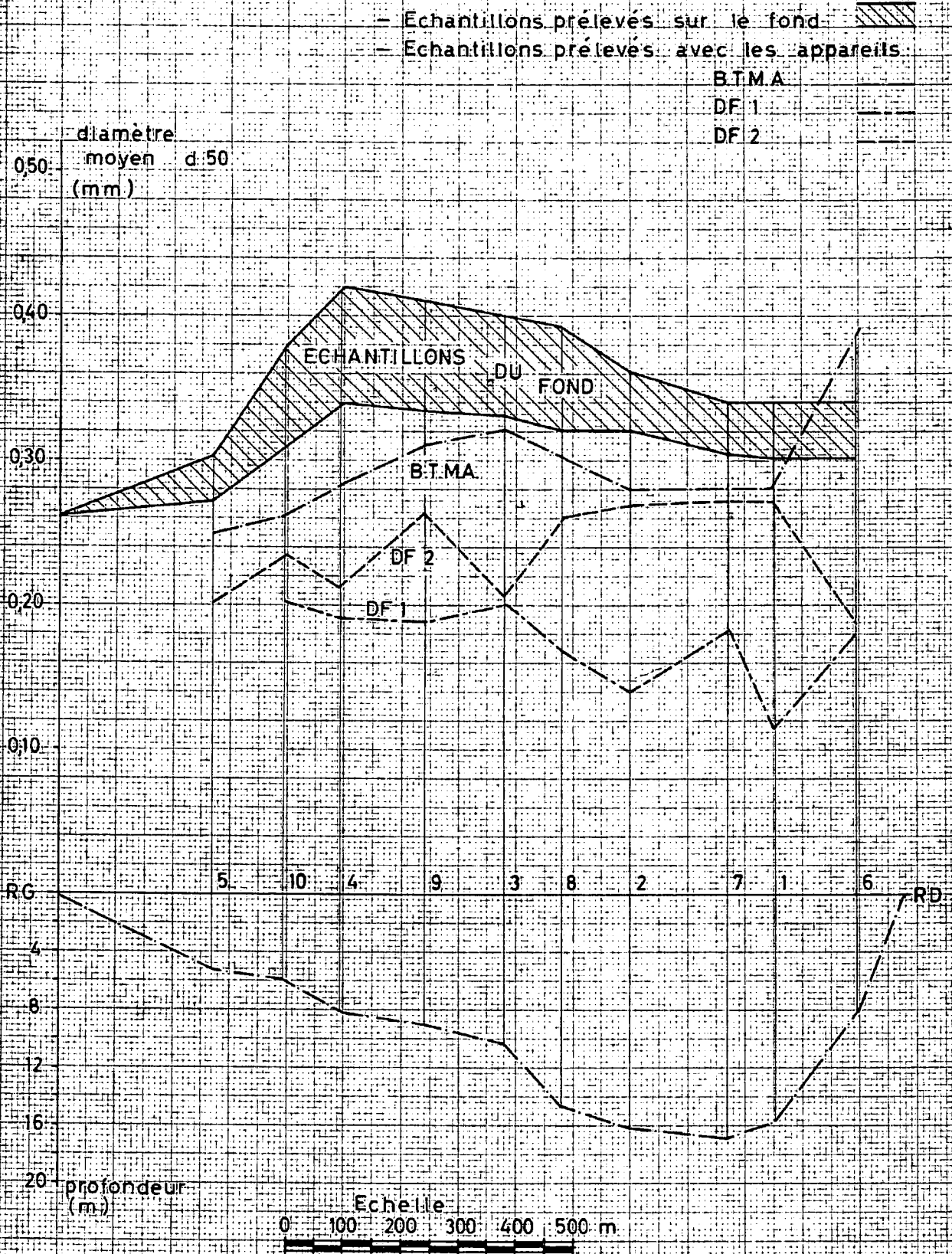
MATEBA AMONT
Mesures du 25-9-1968

Calcul du débit solide
par la méthode de la
migration des dunes

MOD. 255
SEDIMENTOLOGIE

Figure 108



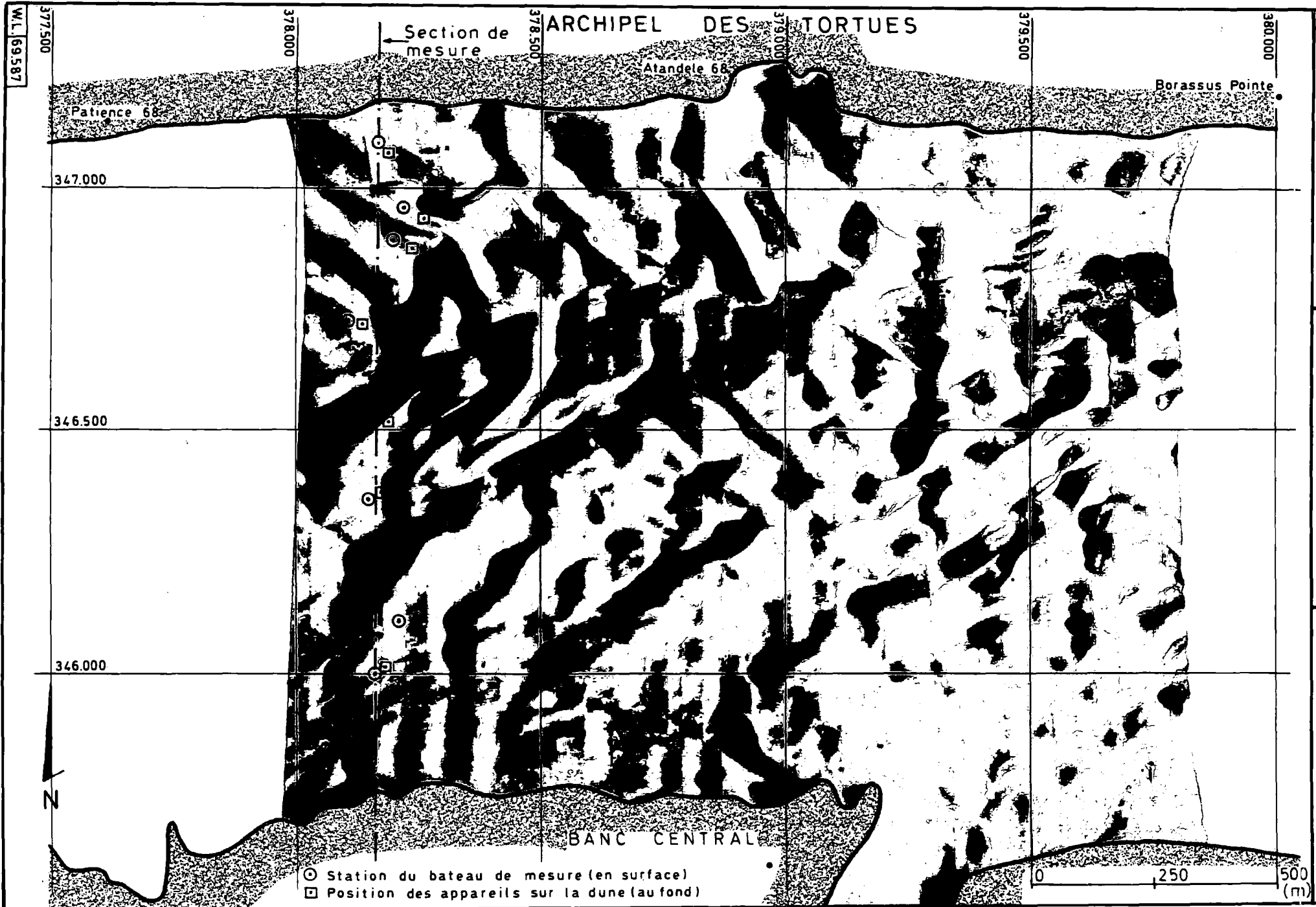


Mission 1968
Transport solide

MATEBA AMONT - 25-26/9/68
Stations de mesure dans
la section

MOD. 255
SEDIMENTOLOGIE

Figure 110



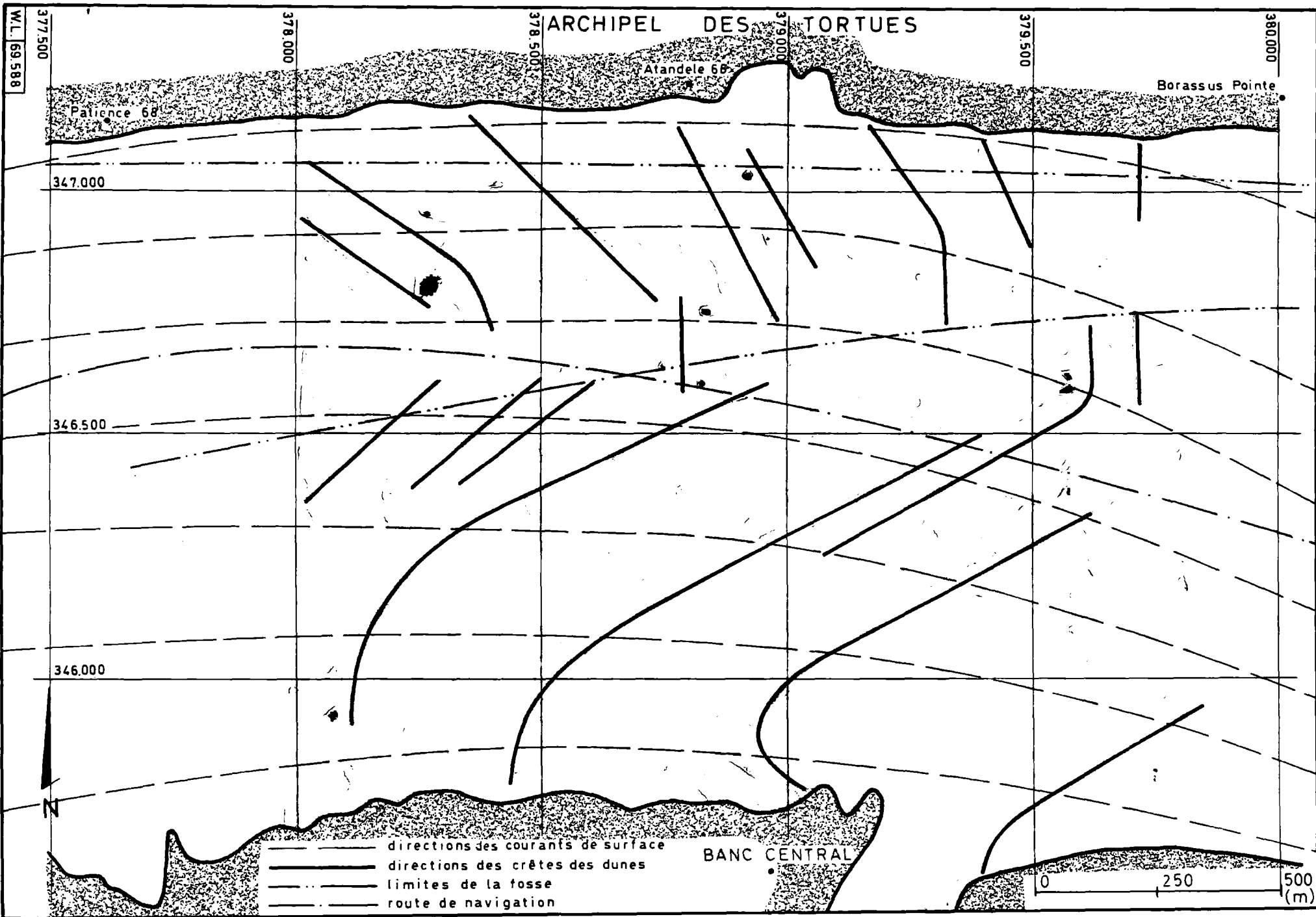
M.L. 69.587

Mission 1968
Transport solide

MATEBA AMONT — 25/9/68
Directions générales de l'a-
lignement des crêtes des dunes

MOD. 255
SEDIMENTOLOGIE

Figure 111



W.L. 69.588
377.500

378.000

378.500

ARCHIPEL DES TORTUES

379.000

379.500

380.000

Patience 68

Atandele 68

Borassus Pointe

347.000

346.500

346.000

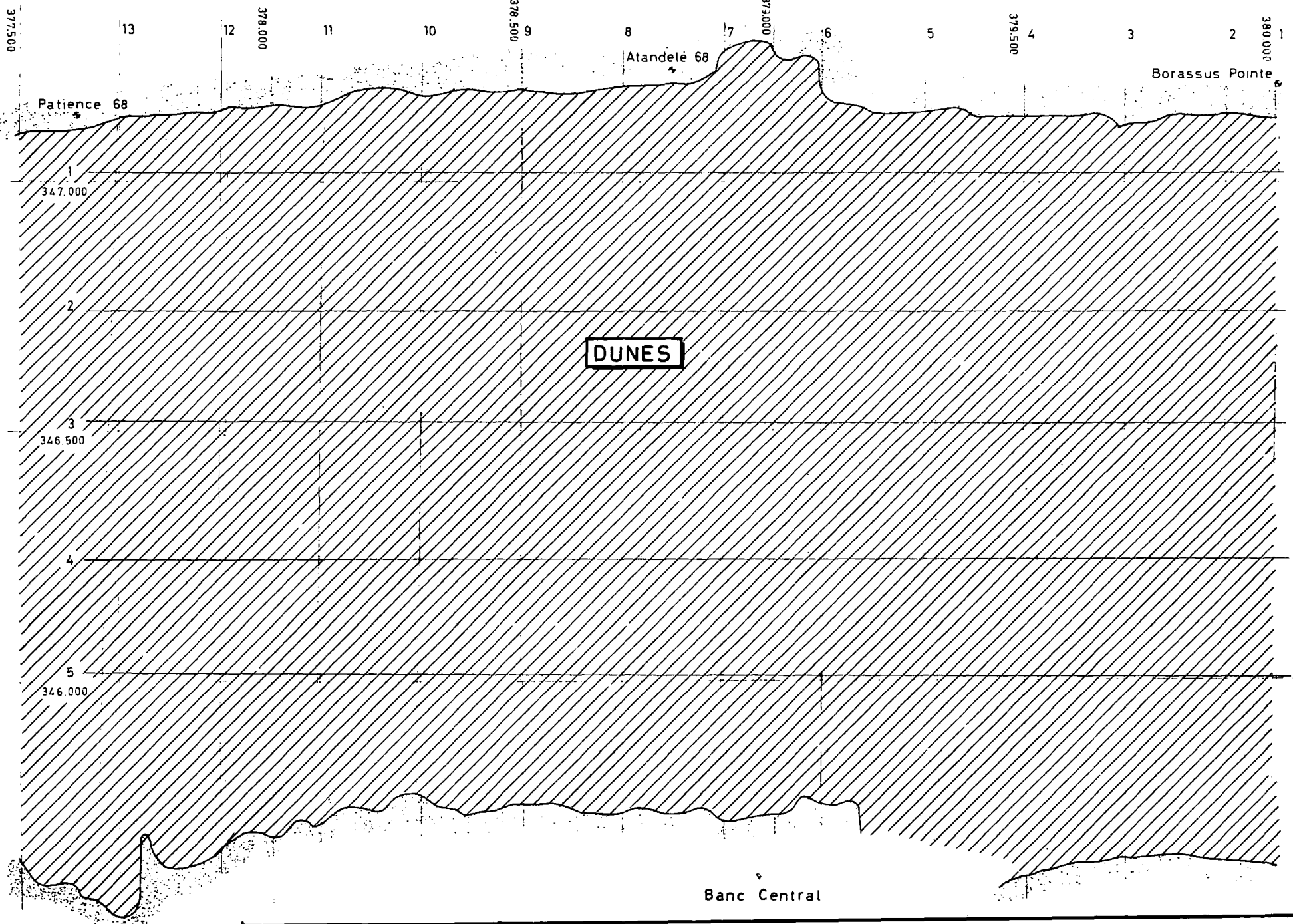
N

- directions des courants de surface
- directions des crêtes des dunes
- - - limites de la fosse
- - - route de navigation

BANC CENTRAL

0 250 500 (m)

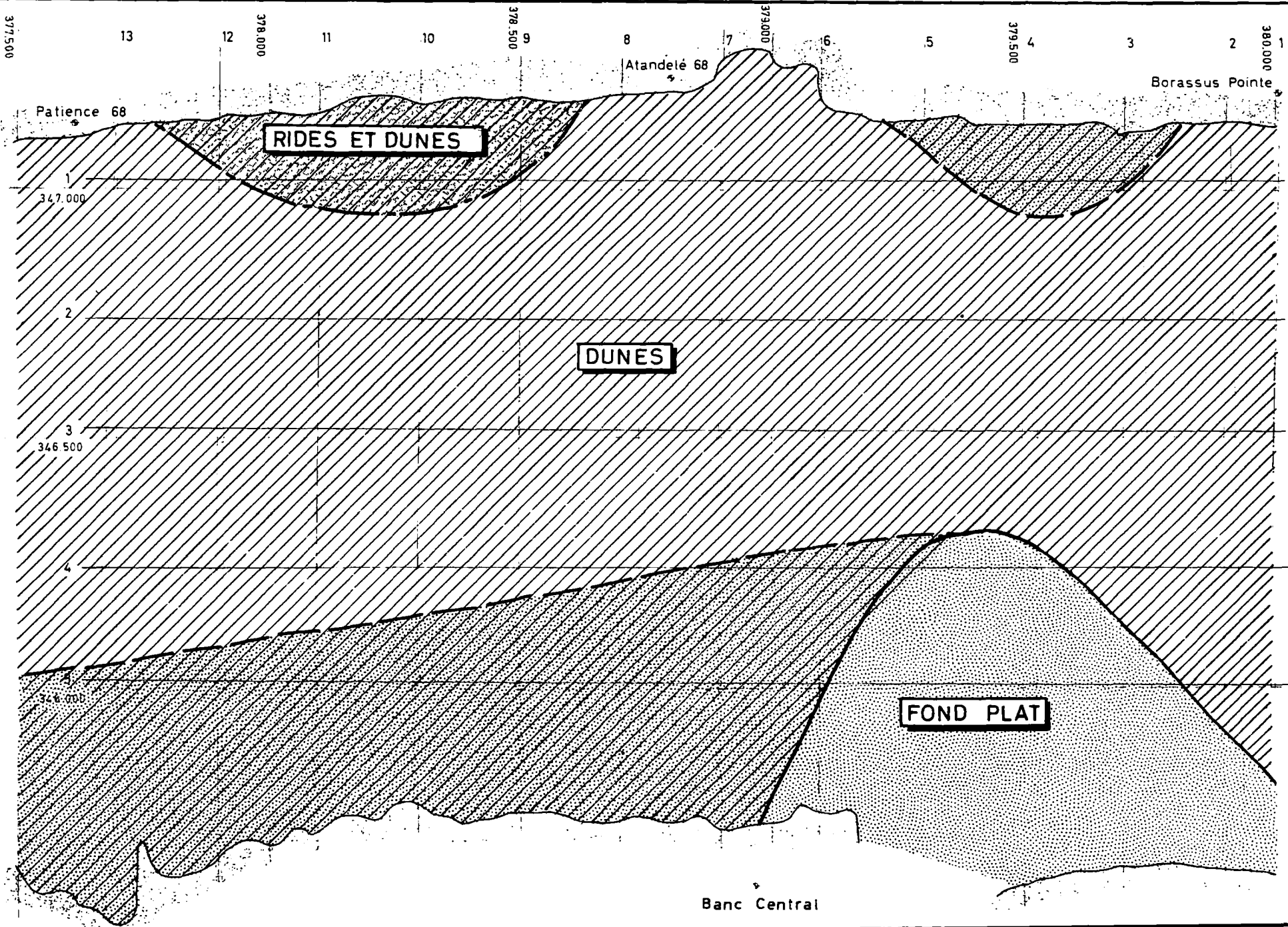
W.L. 69.526



EVOLUTION DES FONDS
SITUATION 19/9/68

EVOLUTION DES DUNES
ET RIDES AU COURS DE
LA GRANDE CRUE 1968

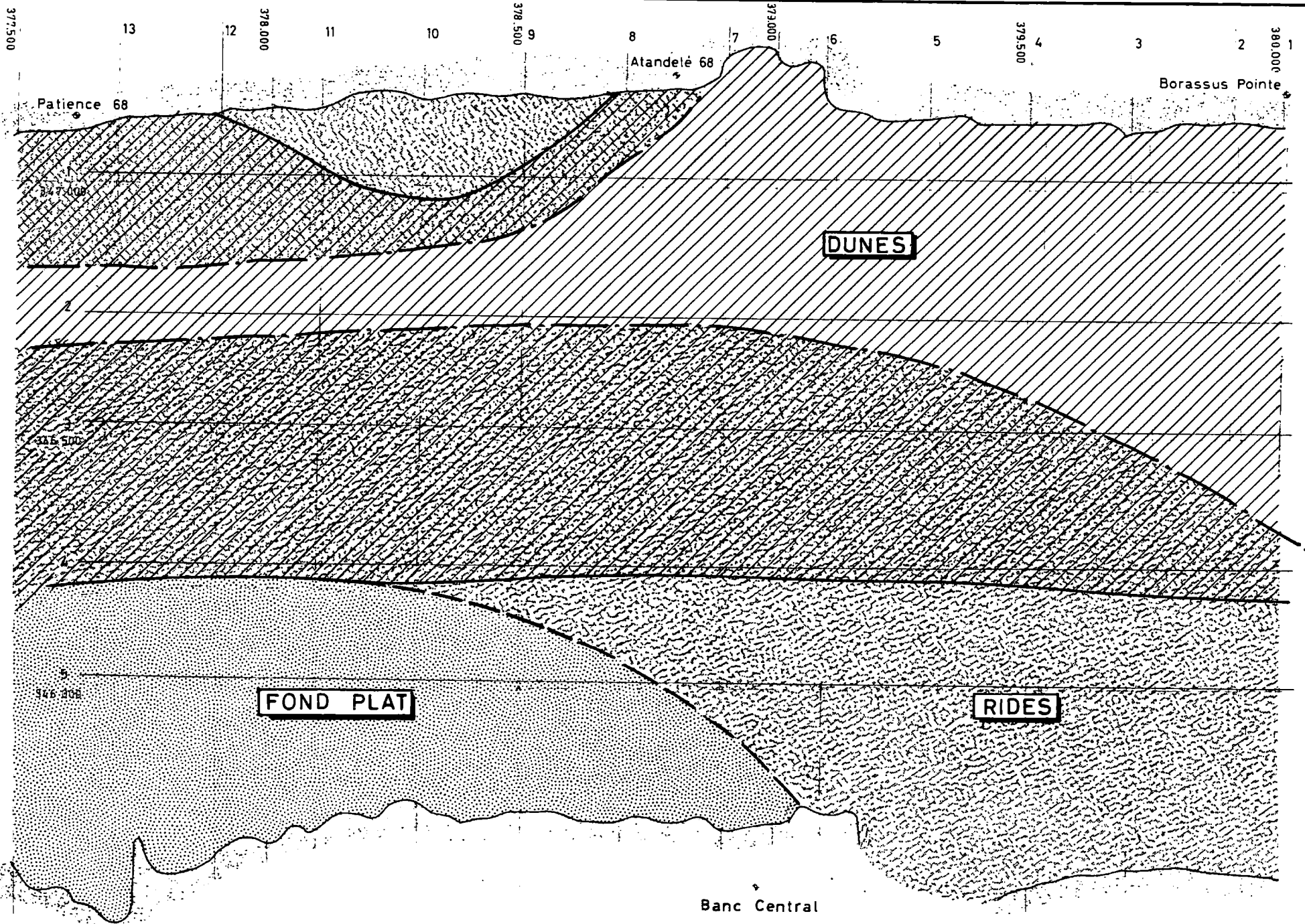
MOD. 255
Figure 112 a



EVOLUTION DES FONDS
SITUATION 16/10/68

EVOLUTION DES DUNES
ET RIDES AU COURS DE
LA GRANDE CRUE 1968

MOD. 255
Figure 112 b



EVOLUTION DES FONDS
SITUATION 20/11/68

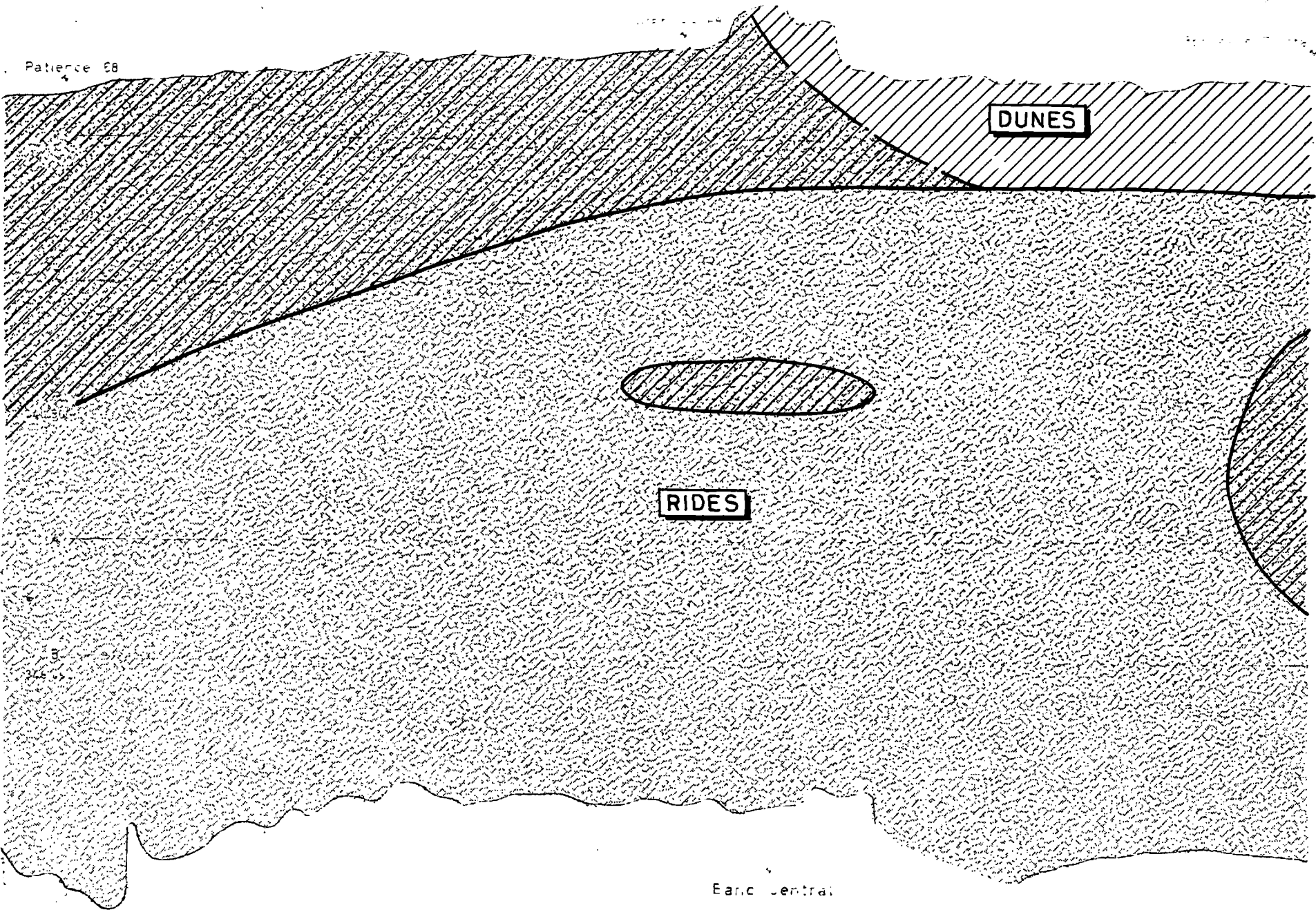
EVOLUTION DES DUNES
ET RIDES AU COURS DE
LA GRANDE CRUE 1968

MOD 255

Figure 112 c

Banc Central

Patience 68



DUNES

RIDES

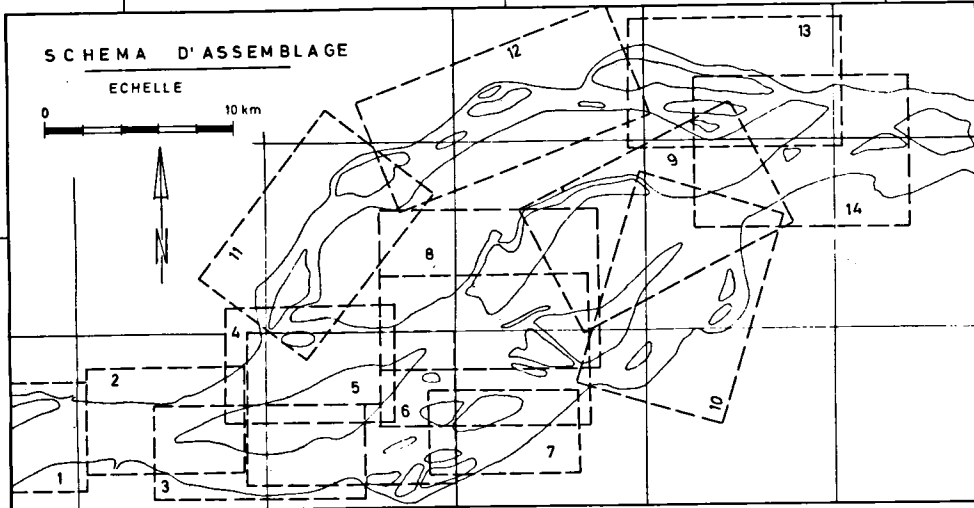
Eric Lentrain

EVOLUTION DES FONDS
SITUATION 24/12/68

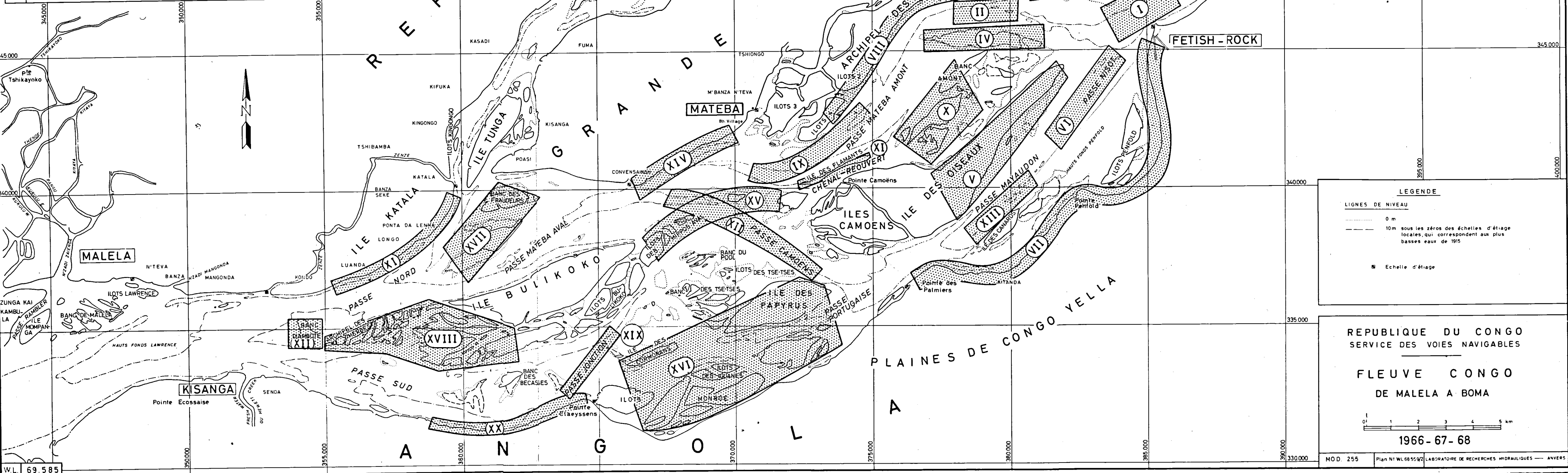
EVOLUTION DES DUNES
ET RIDES AU COURS DE
LA GRANDE CRUE 1968

MOD.255

Figure 112 d



1	Région de Malela	n° 249.40	décembre 1966
2	Passe Nord	n° 240.152	nov. 1968
3	Passe Sud	n° 246.11	oct. 1968
4	Maleba Aval	n° 241.194	sept.-oct. 1968
5	Passes Monroe Bulikoko Jonction	n° 247.11	oct. 1968
6	Pool de Camoens	n° 242.221	mai 1968
7	Passe Portugaise	n° 248.24	août 1968
8	Jonction Mateba Amont	n° 245.93	juin-juillet 1968
9	Mateba Amont (Partie A1)-Banc d'Anvers (Partie A1)	n° 245.94	juillet 1968
10	Pool de Fetish-Rock	n° 243.94	janvier-février 1968
11	Maxwell Partie Aval	n° 25.56	mai 1966
12	Maxwell Partie Centrale	n° 25.57	juin 1966
13	Maxwell Partie Amont	n° 25.58	juin-juillet 1966
14	Région du Banc d'Anvers	n° 244.57	février 1967



LEGENDE

LIGNES DE NIVEAU
 - - - - - 0 m
 - - - - - 10m sous les zéros des échelles d'étiage locales, qui correspondent aux plus basses eaux de 1915

■ Echelle d'étiage

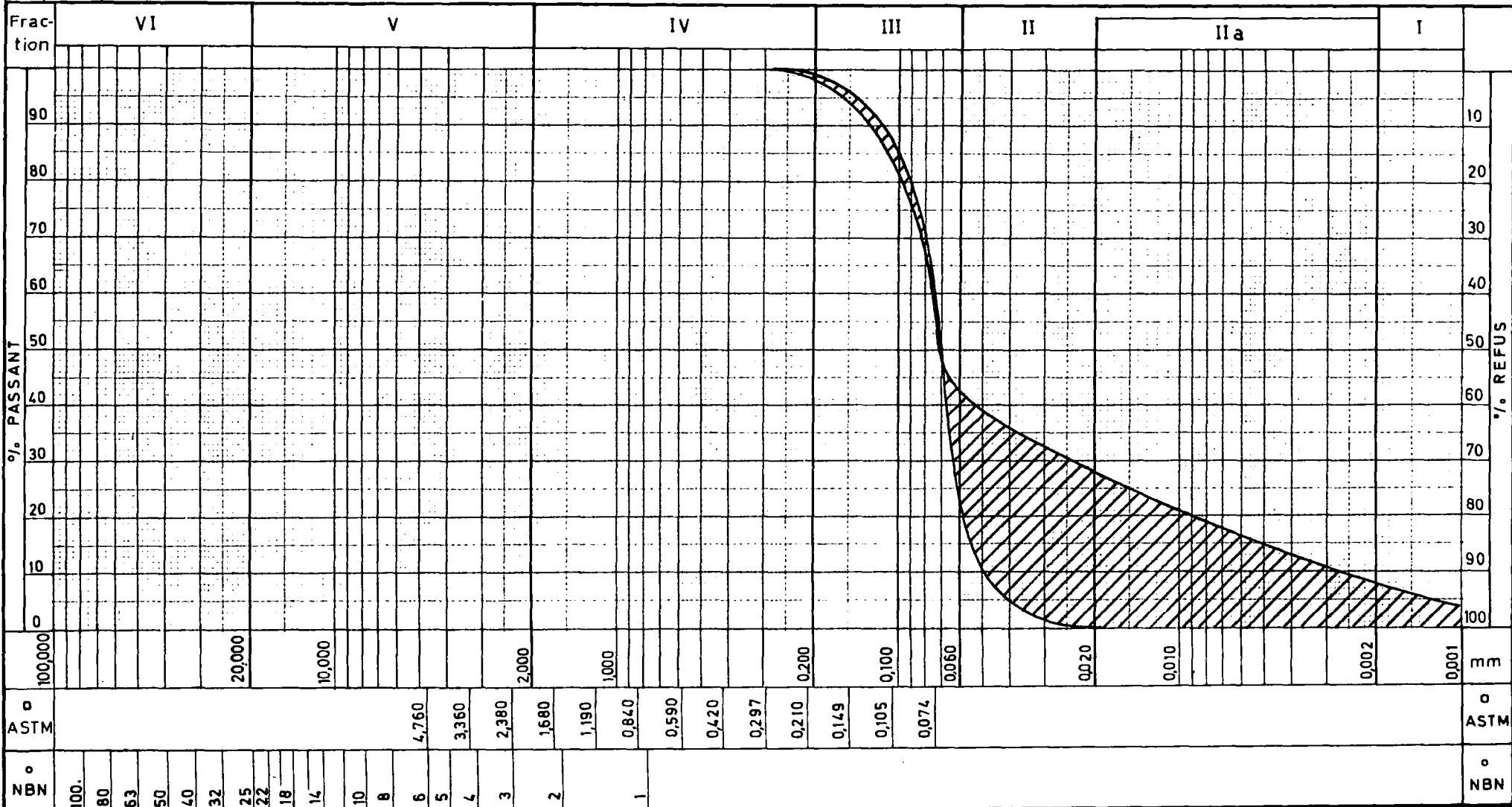
REPUBLIQUE DU CONGO
SERVICE DES VOIES NAVIGABLES

FLEUVE CONGO
DE MALELA A BOMA

1 0 1 2 3 4 5 km

1966-67-68

MOD. 255 Plan N° WL 68 55 92 LABORATOIRE DE RECHERCHES HYDRAULIQUES - ANVERS



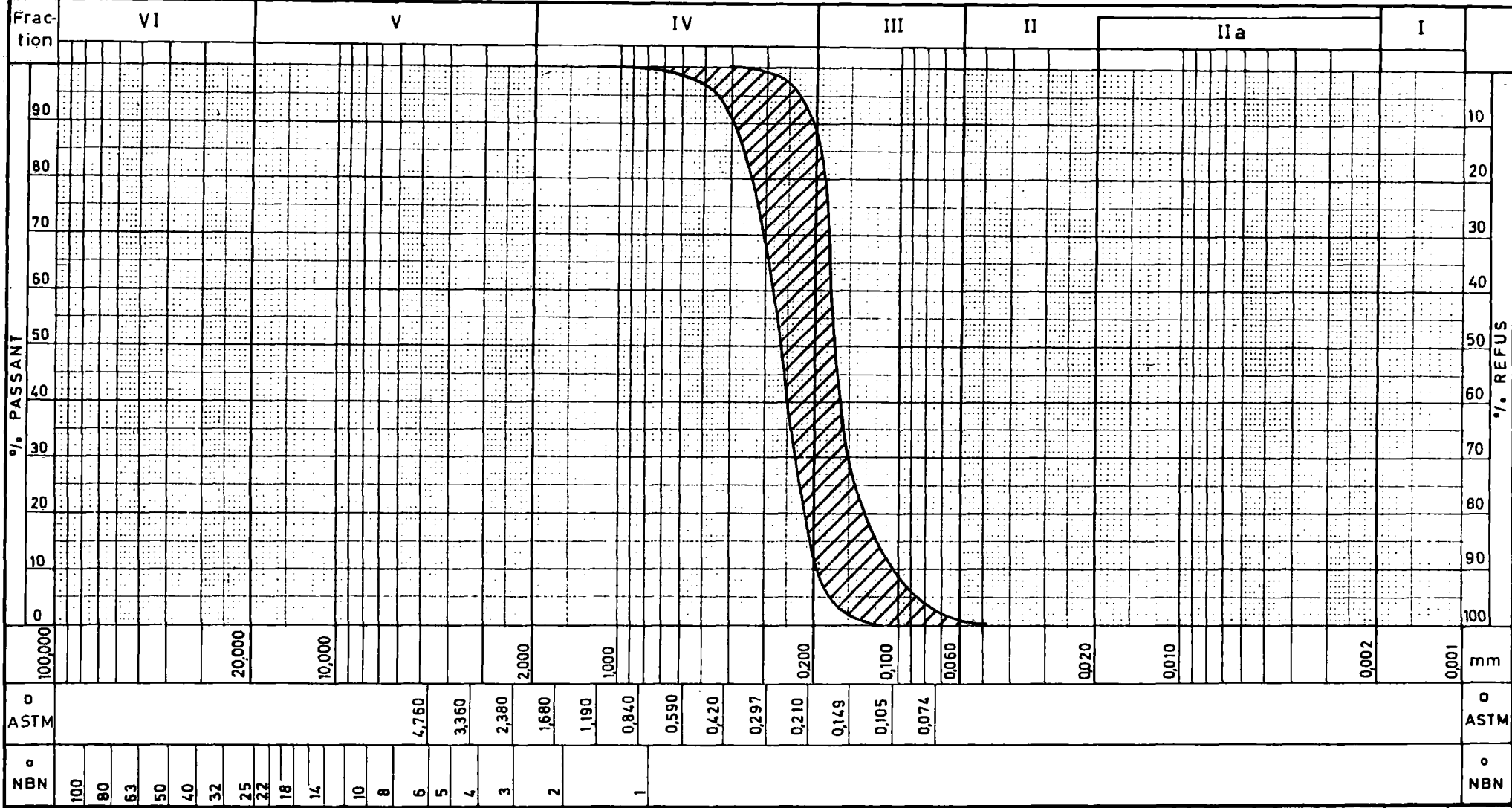
Analyses granulométriques

SEDIMENTS DES RIVES
 ZONE V b
 ILE DES OISEAUX
 Echantillons d'argile

MOD255

Echantillon N°	Nature du terrain	d50	> VI	VI	V	IV	III	II	I	IIa (120µ)	LL	LP	IP	M hum	Ca	ES	ESV
M 968 S02	Argile																
M 368 S04	Argile																

Figure 119



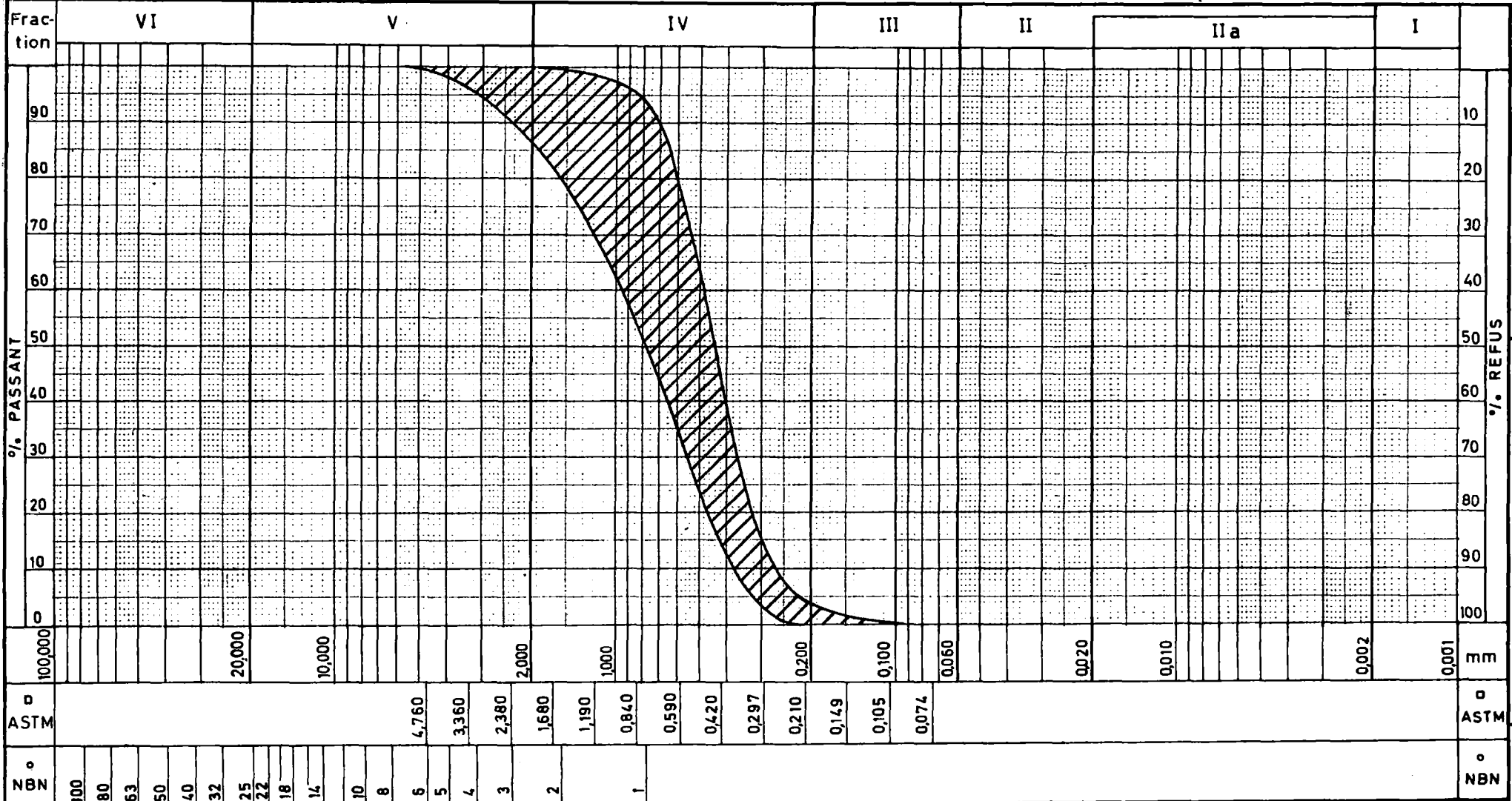
Echantillon N°	Nature du terrain	d50	> VI	VI	V	IV	III	II	I	II a (20µ)	LL	LP	IP	M hum	Ca	ES	ESV
M 368 508,09,15	Sable																
M968 S18, 20, 21	Sable																

Analyses granulométriques

SEDIMENTS DES RIVES
ZONE VIII
ARCHIPEL DES TORTUES

MOD.255

Figure 121

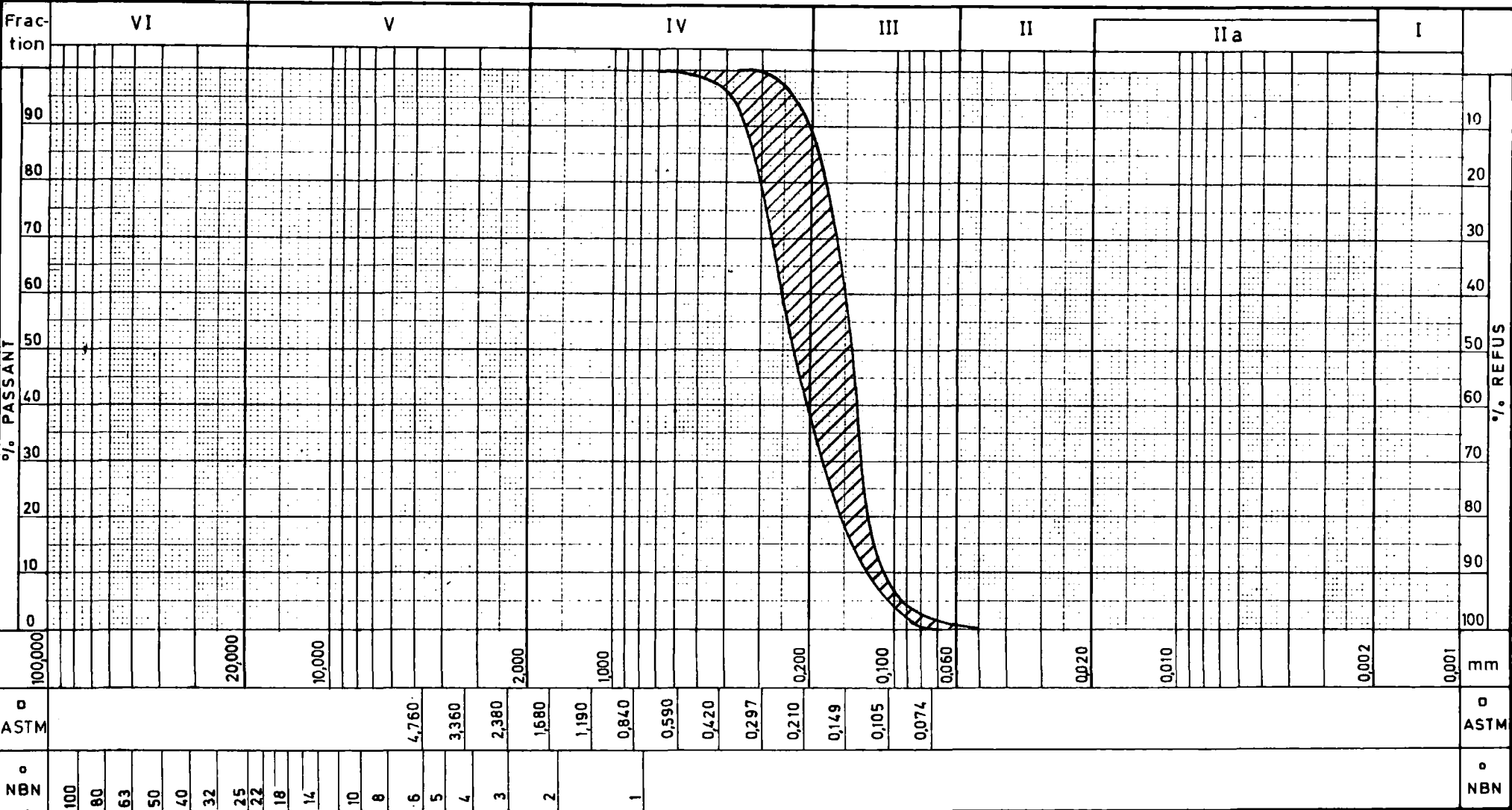


Analyses granulométriques

SEDIMENTS DU LIT
ZONE XIII
PASSE MAYAUDON

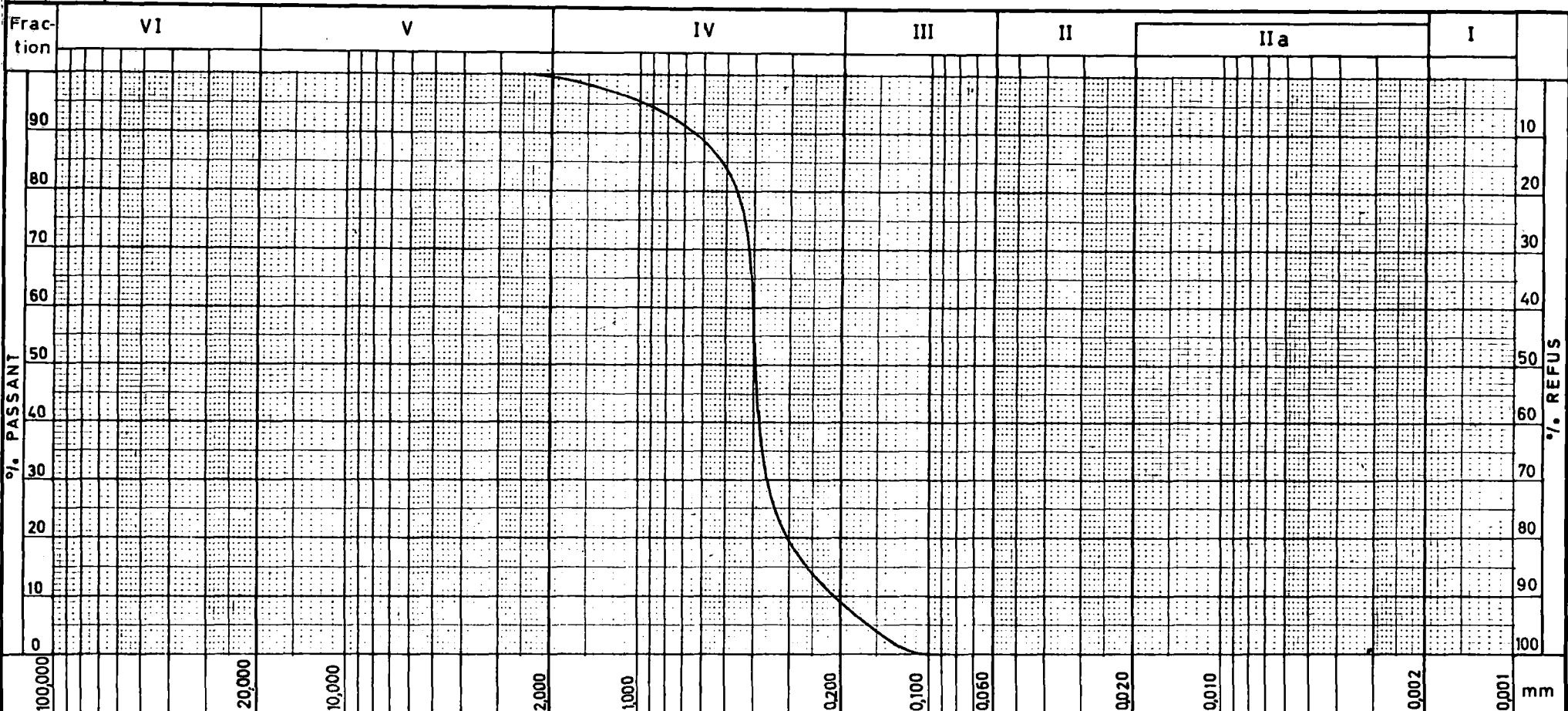
MOD.255

Echantillon N°	Nature du terrain	d50	> VI	VI	V	IV	III	II	I	IIa (20µ)	LL	LP	IP	M _{hum}	Ca	ES	ESV
M667 S22,23,24	Sable																



Echantillon N°	Nature du terrain	d50	> VI	VI	V	IV	III	II	I	II a (20µ)	LL	LP	IP	M hum	Ca	ES	ESV
M968 S15,16	Sable																
M 968 S61	Sable																

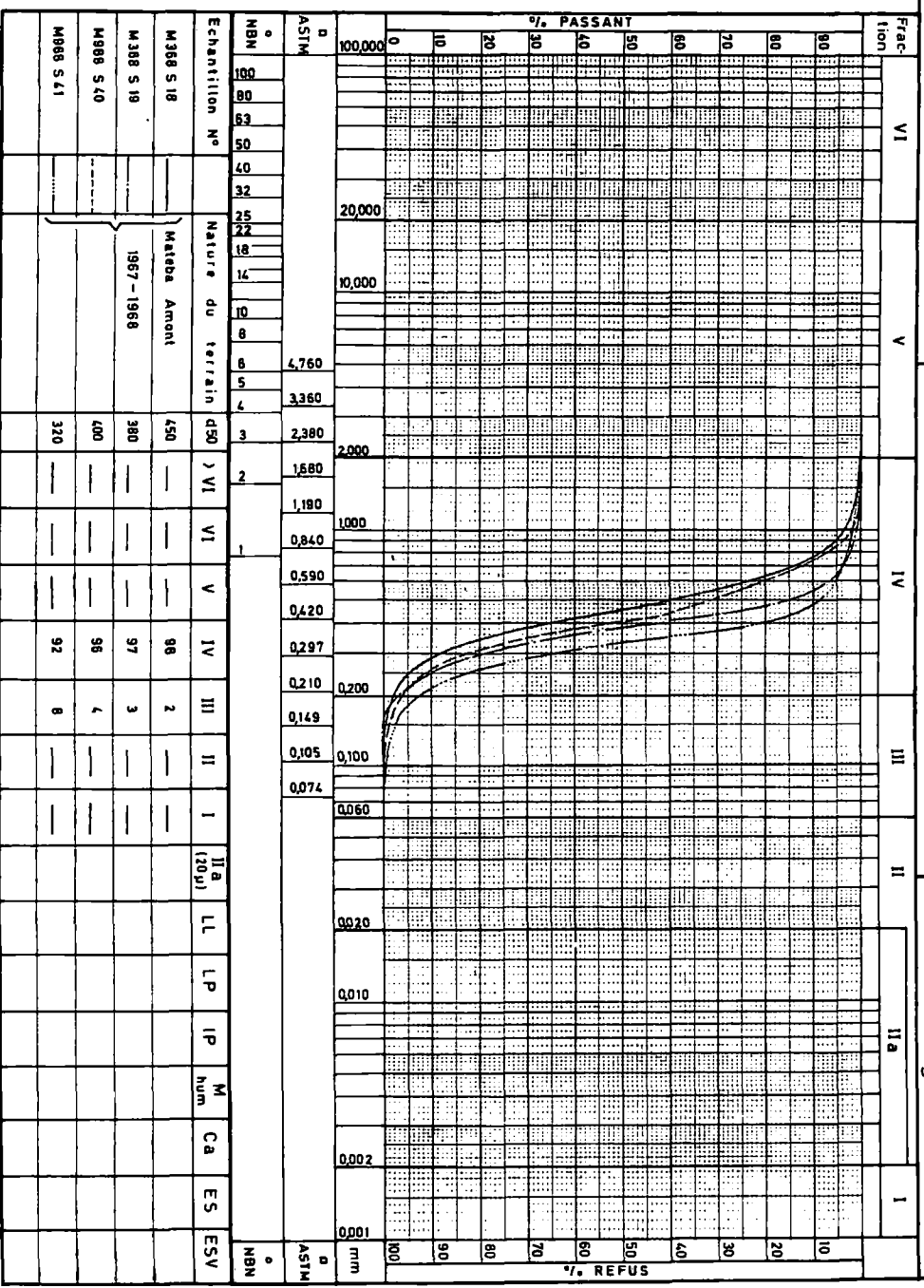
ASTM	NBN
100,000	100
20,000	80
10,000	63
	50
	40
	32
	25
	22
	18
	14
	10
	8
	6
4,760	5
3,360	4
2,380	3
1,680	2
1,190	1
0,840	
0,590	
0,420	
0,297	
0,210	
0,149	
0,105	
0,074	
0,060	
0,020	
0,010	
0,002	
1,000	



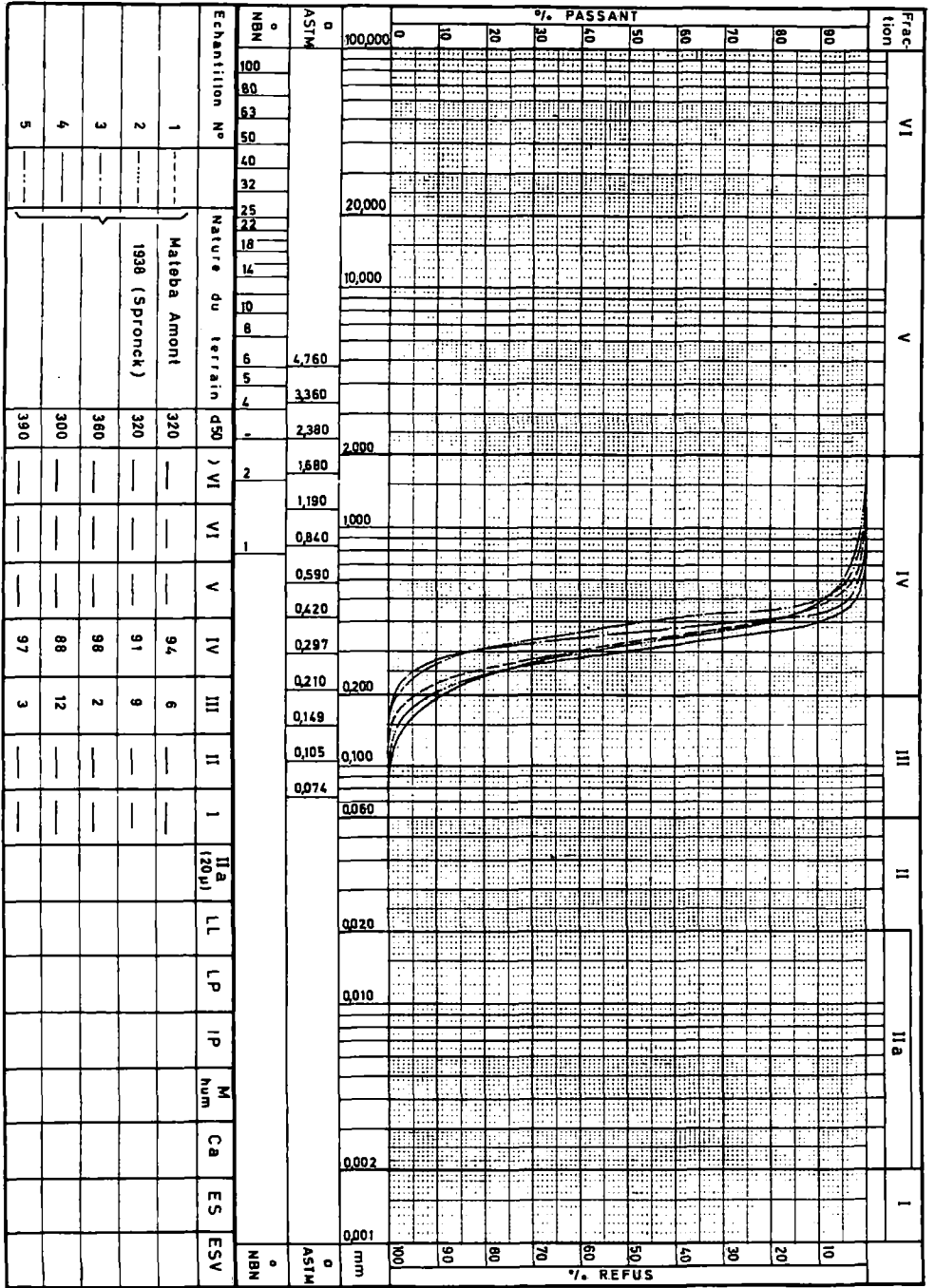
ASTM	NBN
100	100
80	80
63	63
50	50
40	40
32	32
25	25
22	22
18	18
14	14
10	10
8	8
6	6
5	5
4	4
3	3
2	2
1	1
4,750	
3,360	
2,380	
1,680	
1,190	
0,840	
0,590	
0,420	
0,297	
0,210	
0,149	
0,105	
0,074	

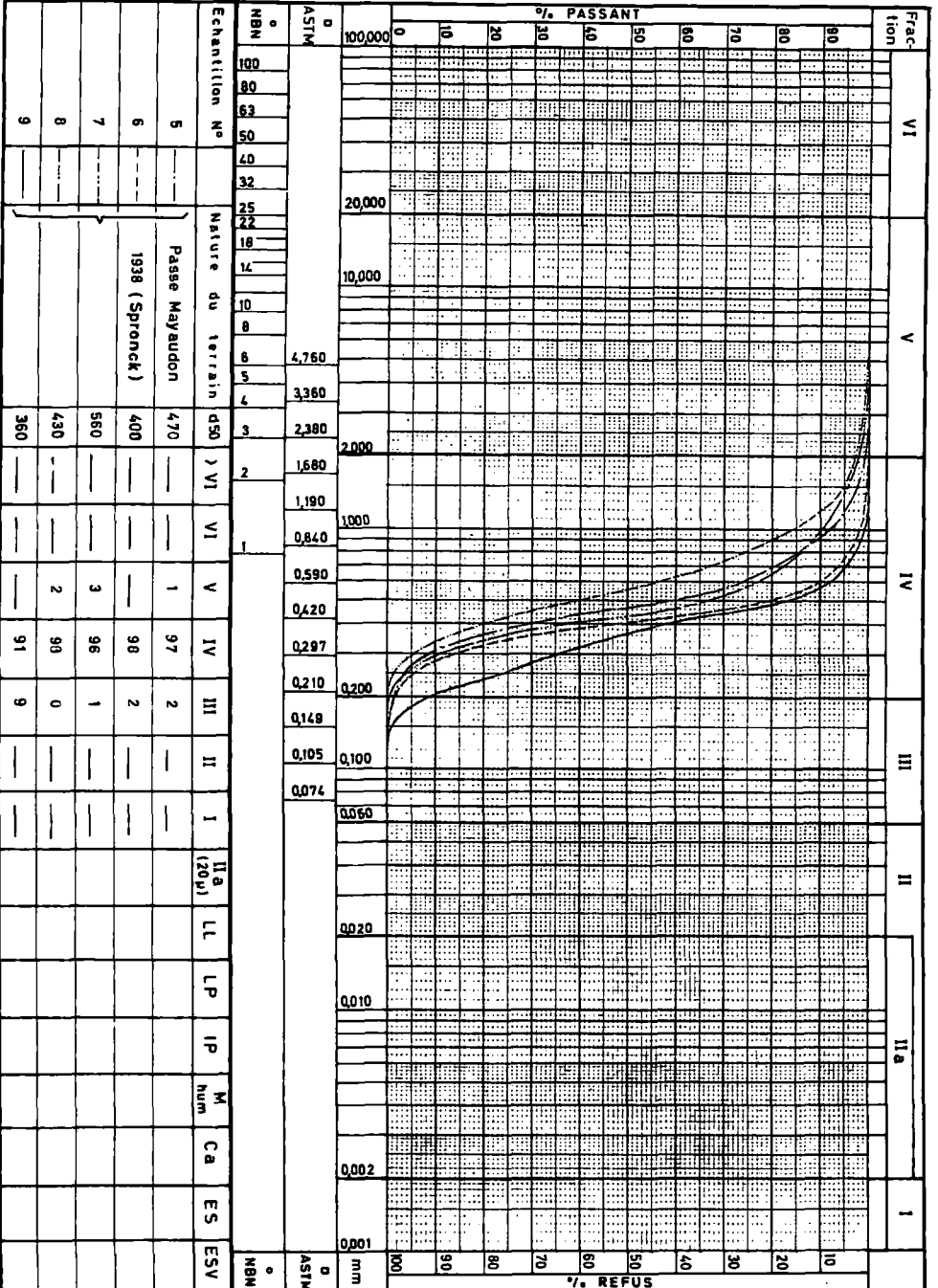
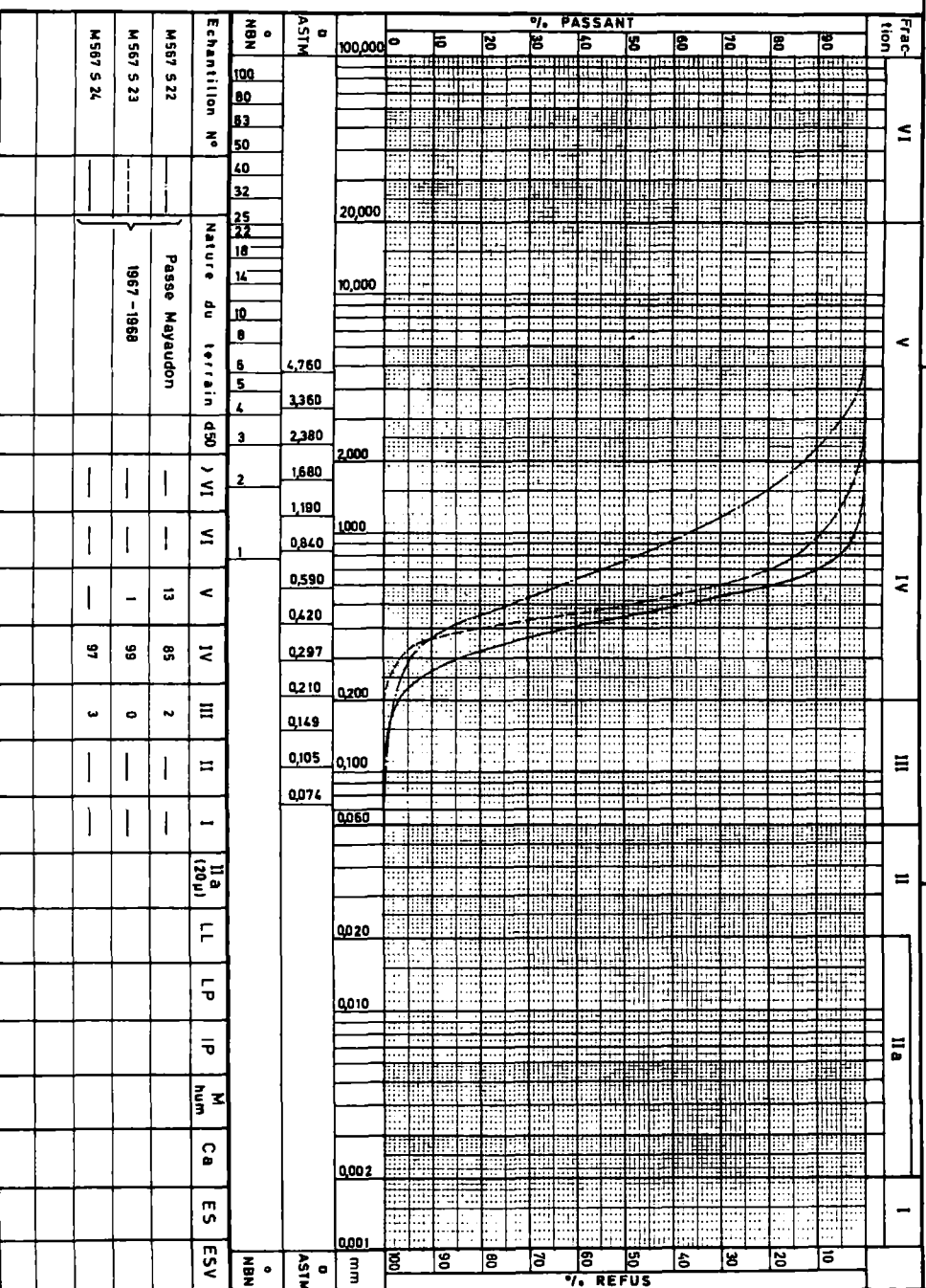
Echantillon N°	Nature du terrain	d50	> VI	VI	V	IV	III	II	I	IIa (20 μ)	LL	LP	IP	M hum	Ca	ES	ESV
M969 S55	Sable																

Analyses granulométriques
 SEDIMENTS DU LIT
 ZONE XIX
 PASSE JONCTION
 MOD.255
 Figure 131



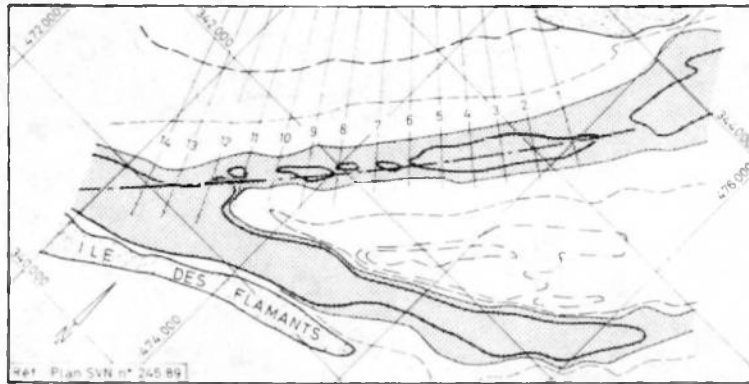
WL 69.396





WL. 69.397

24-25 Avril 1968

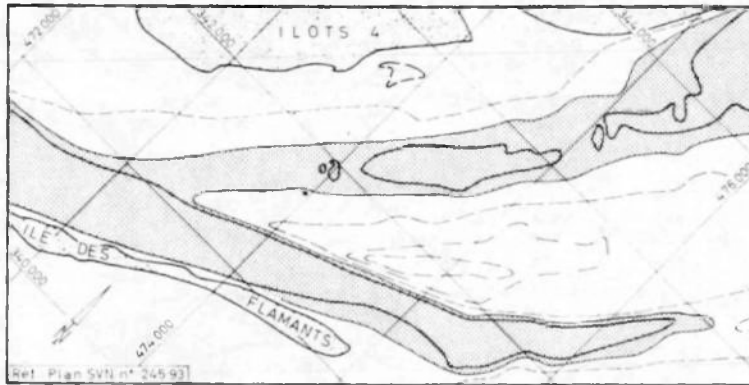


Axe Route de Navigation
(Profils de sondage)

Isobathe de

- 0 m
- 1 m
- 3 m
- 5 m
- 8 m
- 10 m

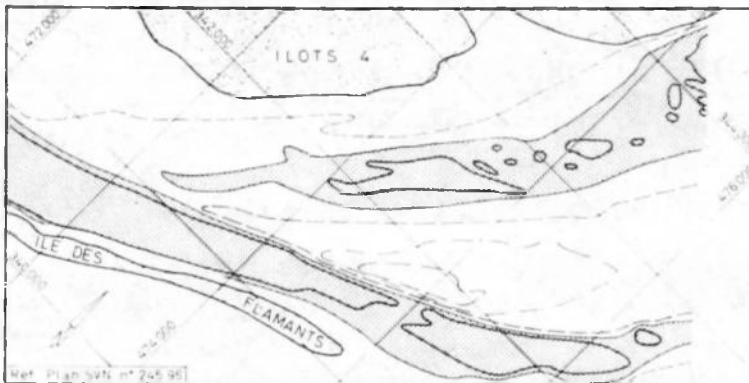
Juin-Juillet 1968



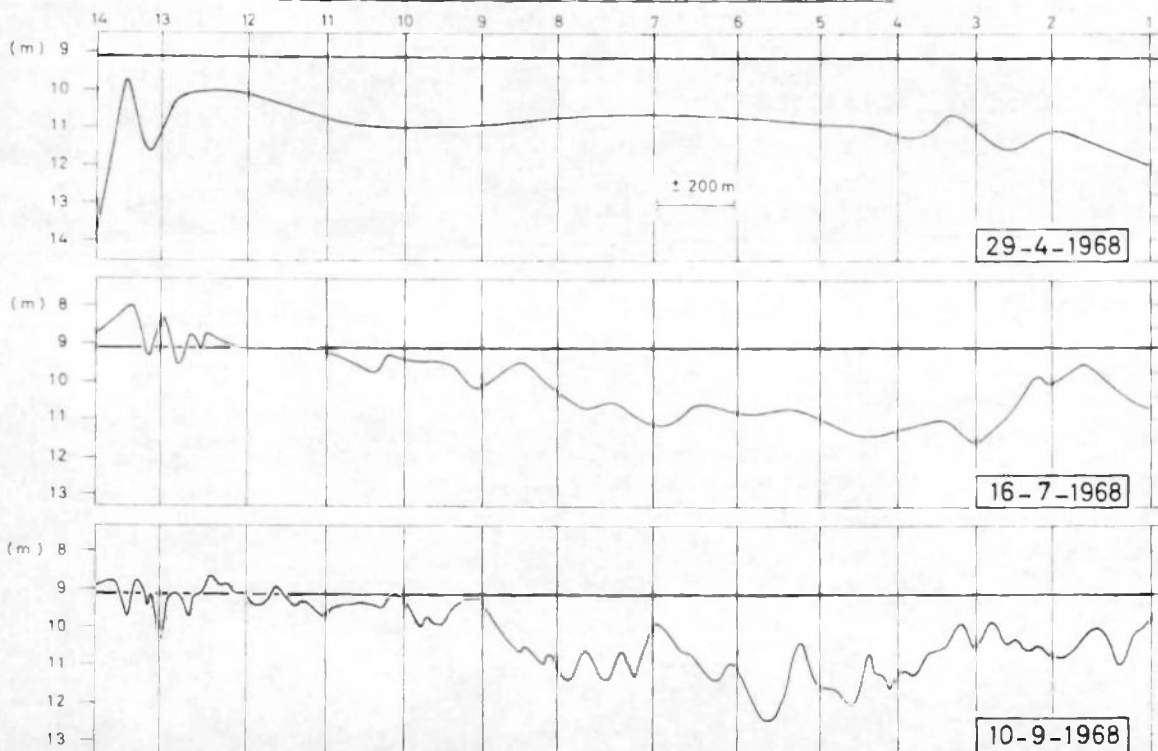
Echelle

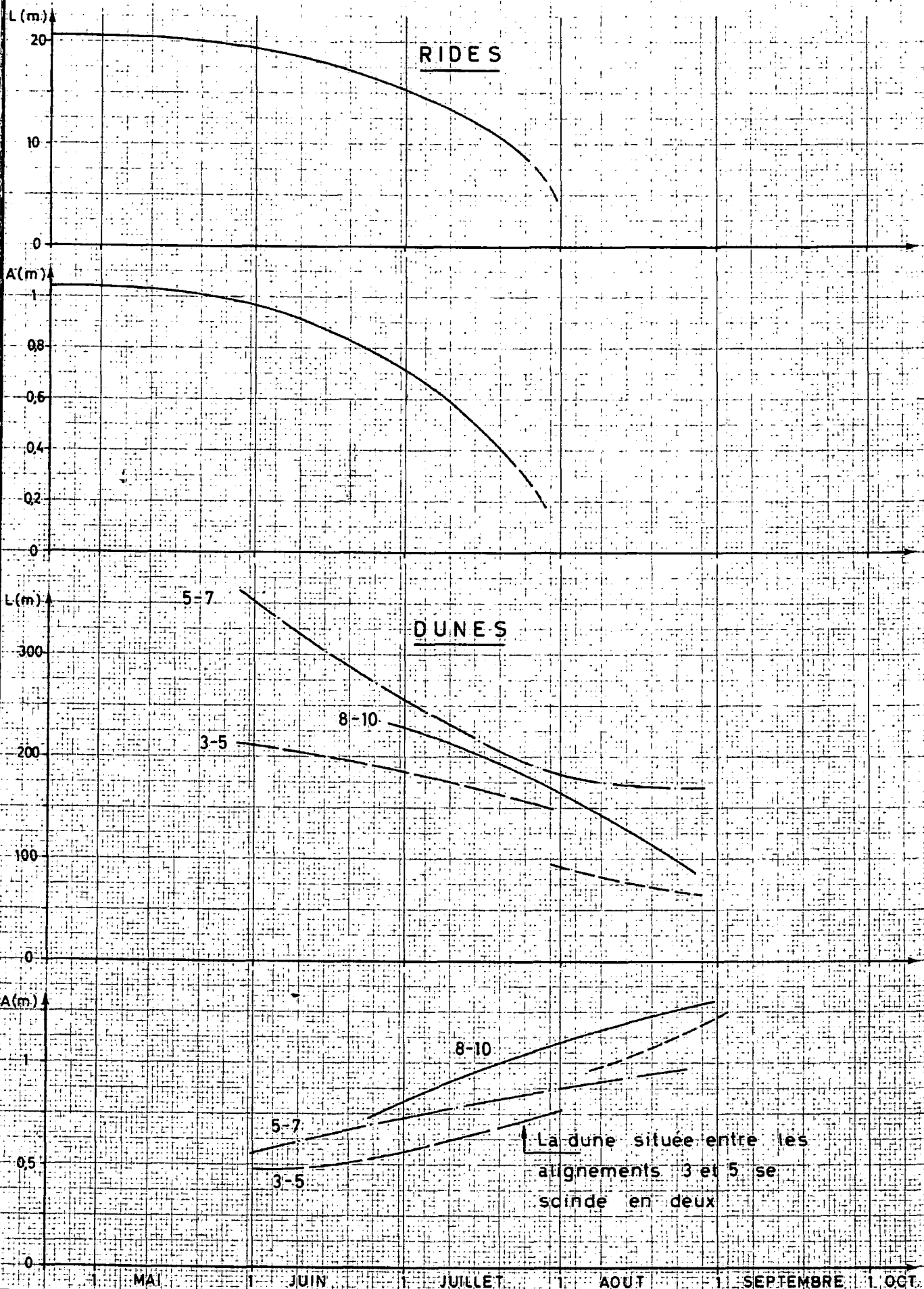
0 1km

17 Septembre 1968



PROFILS DE SONDAGE





EVOLUTION D'UNE DUNE
DU SEUIL CENTRAL
(Alignements 3 à 5)

MOD. 255

MISSION 1968

Figure 139

