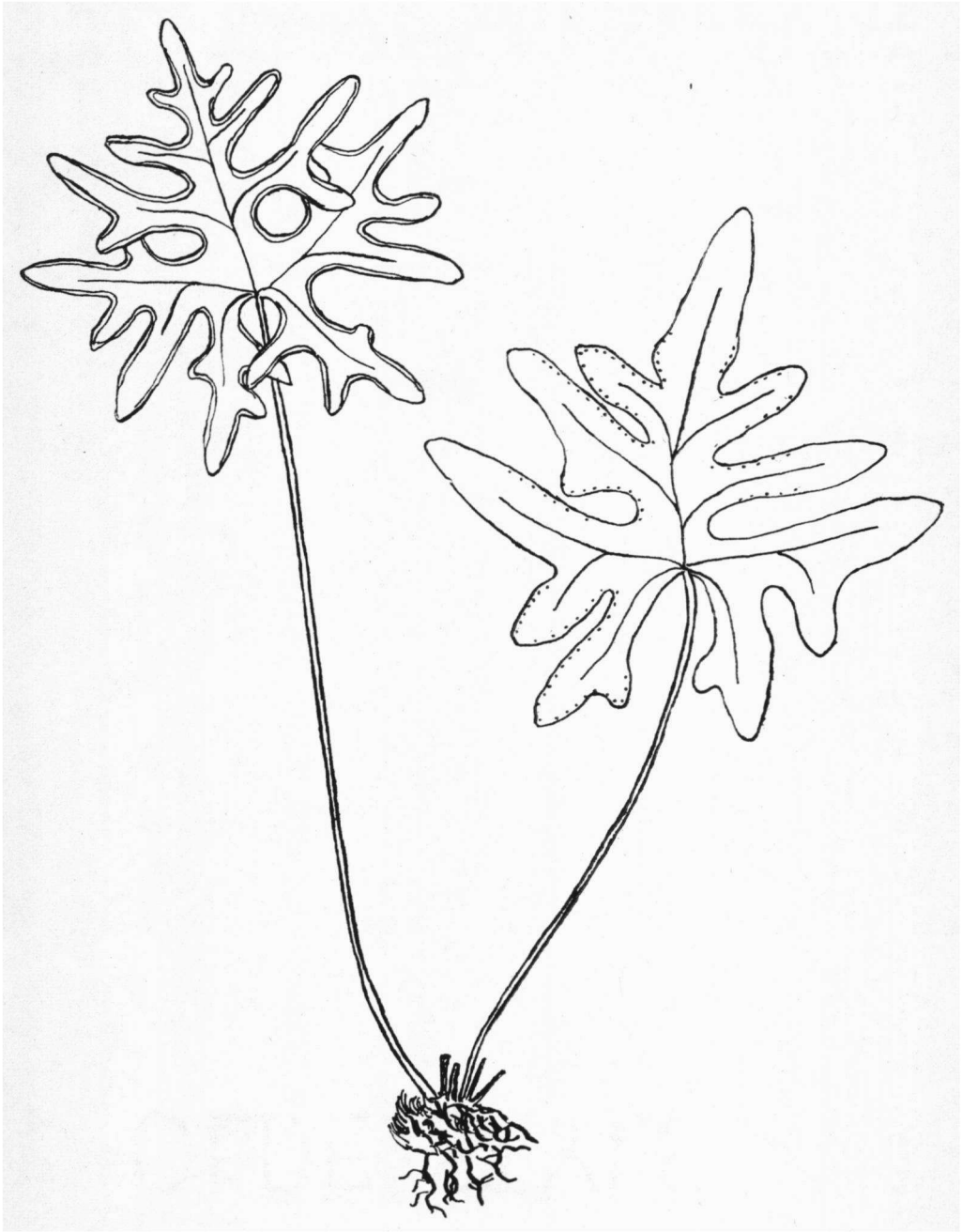


ondary center for the genus in South America. This is the sixth species known from there, not including the widespread and somewhat doubtfully allied *D. concolor*; a concentration of species exceeded only in the southeastern Brazilian Highlands. It is also significant that all the other five species, *D. lomariacea*, *sagittifolia*, *collina*, *varians*, and *pedata* var. *multipartita* are variously disjunct between southeastern Brazil and the Guiana Highlands. Whether *D. conformis* represents a local offshoot of *D. lomariacea* or whether it was evolved, as all other Guiana species evidently were, in southeastern Brazil and migrated via the Andes to the Guianas, can only be determined if it is eventually discovered in Brazil.

EXPLANATION OF PLATE

PLATE 30

Fertile and sterile leaf of *Doryopteris conformis*, from type. $\times \frac{2}{3}$.



KRAMER AND TRYON—*DORYOPTERIS CONFORMIS*

VEGETATION OF SURINAME VOL. I PART 1|

Table II		J. C. LINDEMAN	
Tree	Number of record Items of forest tree kinds Name not listed	Family	Area of distribution
Species of swamp and marsh forest	1	Triplaris surinamensis	Pol. Car. tA
	2	Peperomia officinalis	Pol. Car. tA
	3	Tabebuia insignis-group	Pol. Car. tA
	4	Ammonia glabra	Pol. Car. tA
	5	Chrysobalanus icaco	Pol. Car. tA
	6	Ficus spp.	Mor. p7
	7	Phyllanthus acidus	Euph. Palm. tA
	8	Demococcus horridus	Pol. Car. tA
	9	Gordia tetrandra	Pol. Car. tA
	10	Cecropia vs. pelata	Pol. Car. tA
Moisture-loving species	11	Coccoloba latifolia	Pol. Car. tA
	12	Spondias monnini	Pol. Car. tA
	13	Cuba pentandra	Pol. Car. tA
	14	Bauhinia spp.	Pol. Car. tA
	15	Nectandra	Pol. Car. tA
	16	Andira inermis/oriacea	Pol. Car. tA
	17	Euterpe oleracea	Pol. Car. tA
	18	Vitellaria surinamensis	Pol. Car. tA
	19	Inga spp. var. bispinosa	Pol. Car. tA
	20	Mauritia flexuosa	Pol. Car. tA
Species of evergreen seasonal forest	21	Caryocarpus microcarpum	Pol. Car. tA
	22	Gesneria americana	Pol. Car. tA
	23	Simaba multiflora	Pol. Car. tA
	24	Autumyrea pyrifolia	Pol. Car. tA
	25	Amannia guianensis	Pol. Car. tA
	26	Mouritia spp.	Pol. Car. tA
	27	Dioscorea guianensis	Pol. Car. tA
	28	Carapa procera	Pol. Car. tA
	29	Maximiliana maripa	Pol. Car. tA
	30	Symphonia globulifera	Pol. Car. tA
Species of young ridges	31	Licania macrophylla	Pol. Car. tA
	32	Eschweilera longipes	Pol. Car. tA
	33	Eschweilera spp.	Pol. Car. tA
	34	Rhedia kappelerii	Pol. Car. tA
	35	Burmannia vs. Catostemma	Pol. Car. tA
	36	Copaifera guianensis	Pol. Car. tA
	37	Artocarpus integrum	Pol. Car. tA
	38	Hymenaea coubertii	Pol. Car. tA
	39	Mora coccinea	Pol. Car. tA
	40	Rourea guianensis	Pol. Car. tA
Species of Corone ridges	41	Hibiscus tiliaceus	Pol. Car. tA
	42	Macrolebium vs. bifolium	Pol. Car. tA
	43	Cynometra hostmanniana	Pol. Car. tA
	44	Bombax speciosum	Pol. Car. tA
	45	Vitex spp.	Pol. Car. tA
	46	Sclerolobium melinonii	Pol. Car. tA
	47	Panarea carpinifera	Pol. Car. tA
	48	Tapiira guianensis	Pol. Car. tA
	49	Pronium spp. var. guianensis	Pol. Car. tA
	50	Cenchrus spp.	Pol. Car. tA
Species of open ridges	51	Manilkara bidentata	Pol. Car. tA
	52	Duroia eripolia	Pol. Car. tA
	53	Amajoua guianensis	Pol. Car. tA
	54	Gouania	Pol. Car. tA
	55	Miconia myriantha	Pol. Car. tA
	56	Pithecellobium lupanba	Pol. Car. tA
	57	Gustavia augusta	Pol. Car. tA
	58	Wittia alba	Pol. Car. tA
	59	Ravensara guianensis	Pol. Car. tA
	60	Alseia	Pol. Car. tA
Species of open ridges	61	Jacaranda copais	Pol. Car. tA
	62	Bombax glaberrimum	Pol. Car. tA
	63	Hybanthus vs. hostmannii	Pol. Car. tA
	64	Simarouba amara	Pol. Car. tA
	65	Passiflora	Pol. Car. tA
	66	Pithecellobium latifolia	Pol. Car. tA
	67	Licania cf. heteromorphia	Pol. Car. tA
	68	Licania micrantha	Pol. Car. tA
	69	Licania apicalis	Pol. Car. tA
	70	Mitella	Pol. Car. tA
Species of open ridges	71	Salvia	Pol. Car. tA
	72	Xylocarpus	Pol. Car. tA
	73	Licania guianensis	Pol. Car. tA
	74	Pithecellobium	Pol. Car. tA
	75	Couratari spp.	Pol. Car. tA
	76	Eschweilera corrug./florib.	Pol. Car. tA
	77	Eschweilera guianensis	Pol. Car. tA
	78	Dioscorea guianensis	Pol. Car. tA
	79	Eperua falcata	Pol. Car. tA
	80	Anthephila acida	Pol. Car. tA
Species of open ridges	81	Pithecellobium	Pol. Car. tA
	82	Rhedia benthamiana	Pol. Car. tA
	83	Koffleria cf. Guianensis	Pol. Car. tA
	84	Spizella guianensis	Pol. Car. tA
	85	Swartzia banna	Pol. Car. tA
	86	Clusia nemorosa/fockiana	Pol. Car. tA
	87	Zamia venusta	Pol. Car. tA
	88	Liga cf. alba prostrata	Pol. Car. tA
	89	Pithecellobium cf. Laria procera	Pol. Car. tA
	90	Karwinskianthus cf. Didymopanax	Pol. Car. tA
Species of open ridges	91	Protholobium cf. Sagittifolium	Pol. Car. tA
	92	Hirtella paniculata	Pol. Car. tA
	93	Madia montana	Pol. Car. tA
	94	Byrsonima coriacea var.	Pol. Car. tA
	95	Eugenia wulfschlageliana	Pol. Car. tA
	96	Plumeria vs. articulata	Pol. Car. tA
	97	Cereus sp.	Pol. Car. tA
	98	Pisonia albertiana	Pol. Car. tA
	99	Cratogeomys	Pol. Car. tA
	100	Qualea cf. coerulea	Pol. Car. tA
Species of open ridges	101	Homalium guianense/rac.	Pol. Car. tA
	102	Guarea guaya	Pol. Car. tA
	103	Pithecellobium	Pol. Car. tA
	104	Gouania glabra	Pol. Car. tA
	105	Yareta scholera	Pol. Car. tA
	106	Vismia cayan/consertifl.	Pol. Car. tA
	107	Rourea sp.	Pol. Car. tA
	108	Tococa guianensis	Pol. Car. tA
	109	Bougainvillea	Pol. Car. tA
	110	Oreocarya surinamensis	Pol. Car. tA
Species of open ridges	111	Astrocaryum paramacca	Pol. Car. tA
	112	Swartzia sp. pendula	Pol. Car. tA
	113	Licania cf. leptostachya	Pol. Car. tA
	114	Annona vs. montana	Pol. Car. tA
	115	Coussipia guianensis	Pol. Car. tA
	116	Sapium ciliatum	Pol. Car. tA
	117	Alseia	Pol. Car. tA
	118		Pol. Car. tA
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	120		Pol. Car. tA
Species of open ridges	121	Hura crepitans	Pol. Car. tA
	122	Tillandsia megaphylla	Pol. Car. tA
	123	Casipoua macrophylla	Pol. Car. tA
	124	Bomarea undulata	Pol. Car. tA
	125	Arachis cf. Pera	Pol. Car. tA
	126	Dioscorea	Pol. Car. tA
	127	Pithecellobium	Pol. Car. tA
	128	Parkia spida	Pol. Car. tA
	129	Annona ovata	Pol. Car. tA
	130	(var.) Pavlovskia Aspidosperma	Pol. Car. tA
Species of open ridges	131	Oreocarya polygyna	Pol. Car. tA
	132	Humiria florib. balsam.	Pol. Car. tA
	133	Bombax flaviflorum	Pol. Car. tA
	134	Licania incana	Pol. Car. tA
	135	Oreocarya conularia	Pol. Car. tA
	136	Dimorphanthera conjugata	Pol. Car. tA
	137	Conomorpha magnoliifolia	Pol. Car. tA
	138		Pol. Car. tA
	139		Pol. Car. tA
	140		Pol. Car. tA
Species of open ridges	141	Monticordia arborea	Pol. Car. tA
	142	Bonania tetrandria	Pol. Car. tA
	143	Bectium indicum	Pol. Car. tA
	144	Acrostichum aureum	Pol. Car. tA
	145	Heliconia sp.	Pol. Car. tA
	146	Cotus spp. white/red	Pol. Car. tA
	147	Estada polystachya	Pol. Car. tA
	148	Paullinia pinata	Pol. Car. tA
	149	Cayratia arborea	Pol. Car. tA
	150	Geonoma sp.	Pol. Car. tA
Species of open ridges	151	Ichonophion obliquus/grac.	Pol. Car. tA
	152	Bouanana	Pol. Car. tA
	153	Quassia amara	Pol. Car. tA
	154	Tetractera asperula	Pol. Car. tA
	155	Cephaelis spp.	Pol. Car. tA
	156	Hypolethium longifol. var.	Pol. Car. tA
	157	Olyra latifolia	Pol. Car. tA
	158	Diplazium latifolia	Pol. Car. tA
	159	Monotagma pluriparticatum	Pol. Car. tA
	160	Cyperus chalaranthus	Pol. Car. tA
Species of open ridges	161	Solanum asperum	Pol. Car. tA
	162	Scleria lig-nigrum/secaus	Pol. Car. tA
	163	Heliconia pithocorum	Pol. Car. tA
	164	Panicum crura	Pol. Car. tA
	165	Nesomakia	Pol. Car. tA
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Species of open ridges	391		Pol. Car. tA
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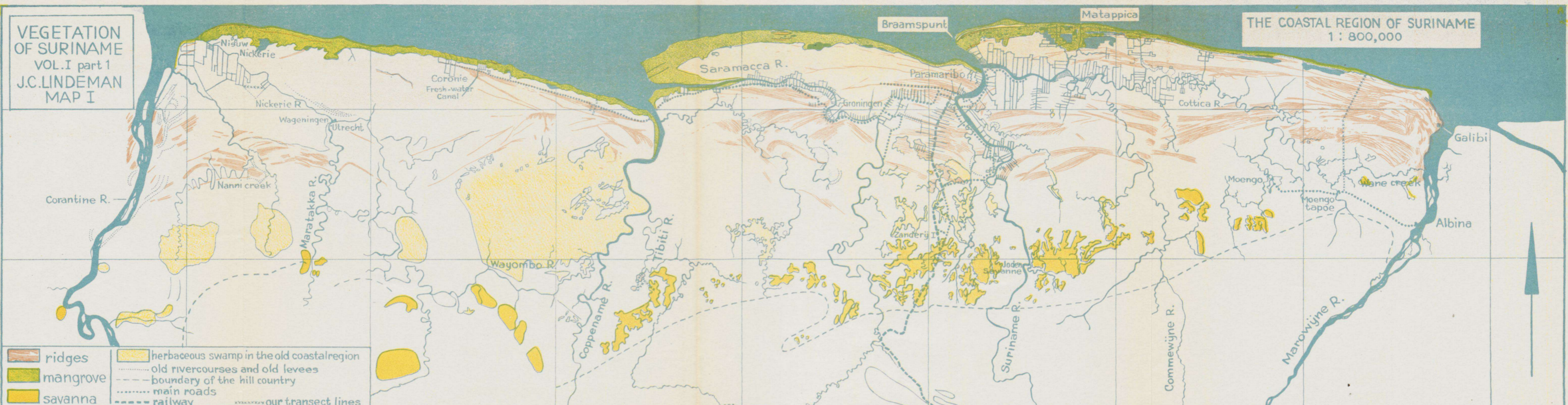
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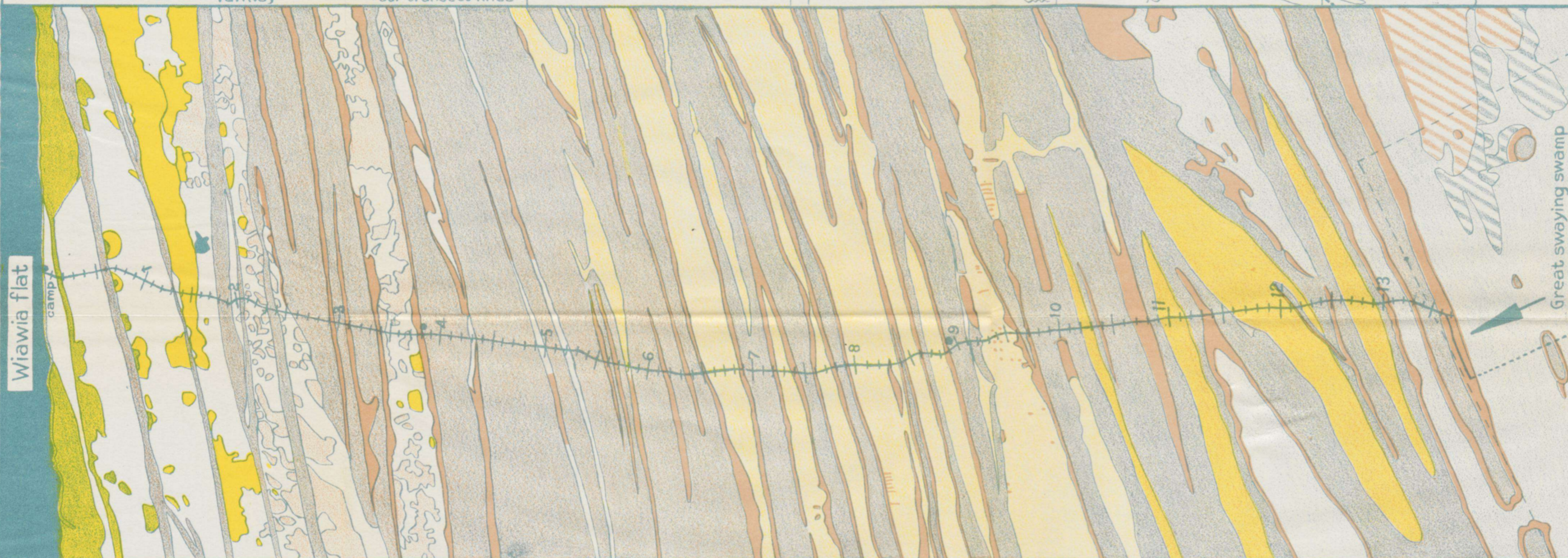
Table III

ANALYSES OF SOIL SAMPLES. ALL FIGURES IN PER CENT OF OVEN-DRY SOIL.

Sample number	Locality	Depth in cm	Clay + silt <20 μ	Fine sand <200 μ	Coarse sand >200 μ	Humus	pH H_2O	pH KCl	Lime	Potash	Phosphoric acid	Chloride	Chloride in swamp or soil water in mg/l
1048	1st swamp km 0.1	0-50	96	1	1	2.0	7.6	6.9	0.18	0.16	—	—	21,000-34,000
1083	2nd swamp km 0.5	10-50	95	4	0	0.9	8.7	8.3	0.14	0.11	—	—	17,600-18,300
1084		50-150	89	9	0	2.4	8.0	7.6	—	—	—	3.03	
1137	N.-side 4th swamp km 1.36	15-50	92	4	0	3.7	5.1	4.4	—	0.06	0.018	0.94	1860
1138		50-150	90	6	0	3.5	5.0	4.6	—	—	—	1.31	
1144	4th swamp km 1.565	50-150	95 ^o	3	0	1.8	8.2	7.4	0.22	—	—	0.64	3160
1160	5th swamp km 1.93	10-100	96	3	0	1.0	7.2	6.2	0.12	0.06	0.025	0.40	4120
1174	6th swamp km 2.1	10-50	96	2	0	1.6	5.9	4.9	—	0.05	0.010	0.19	1280
1175		50-100	96	3	0	1.2	6.9	6.0	—	—	—	0.35	
1178	6th swamp km 2.165	0-150	94	4	0	1.6	6.3	5.8	—	—	—	0.39	1020
1186	7th swamp km 2.45	10-150	92	6	0	1.6	5.3	4.7	—	0.05	0.018	0.23	1020
1190	7th swamp km 2.5	65-180	91 ^o	4	3	2.3	3.3	3.1	—	—	—	0.19	1020
1225	8th swamp km 3.6	50-150	88	11	0	1.3	5.0	4.2	—	—	—	0.11	100
1265	swamp at km 7.65	45-100	88	10	1	1.2	5.2	4.0	—	0.08	—	0.03	40-60
N1	pond in Huntley creek	0-15	95	3	0	2.5	6.9	5.9	tr.	0.08	0.013	1.15	590
N3	S.W.-side of Bigie pan	10-20	91	5	0	3.8	6.3	5.5	—	0.08	0.013	0.57	300
N4	swamp W. of van Wouw canal	10-20	97	0	0	3.0	6.5	5.4	—	0.03	0.009	0.06	40
N5	swamp S. of Clara polder km 5.1	20-25	87	10	0	2.8	5.7	4.5	—	0.04	0.004	0.24	±900
N6	levee of Corantine R. km 6	0-15	92	1	0	7.0	6.2	5.0	—	0.06	0.037	0.23	1500
N14	swamp along Huntley creek	10-20	92	3	1	3.5	7.0	6.3	0.08	0.065	0.008	0.92	310
N18	parwa forest opposite N. Nickerie	0-10	85	10	1	4.0	6.5	5.7	0.04	0.08	0.028	0.18	19,300
Average			92.5	4.5	0.3	2.5							
	swamp S. of Nickerie R.	0-20	97	0.2	0	3.0	5.5	4.3	—	0.011	0.004	0.02	
	line W. of Utrecht km 6	30-50	99	0.6	0	—	5.2	4.2	—	—	—	—	
type I		0-20	91	0.6	0	8.8	5.2	4.5	—	0.009	0.008	0.007	25 : on 15 May 1949
	Idem km 1	30-50	98	0.5	0	—	5.4	4.3	—	—	—	—	
		0-20	88	4	0	4.9	5.6	—	—	0.027	0.004	—	
type II	swamp meadow S. of Clara polder, 200 m of S.E. corner	30-50	97	4	0	—	7.0	—	—	—	—	—	
	swamp N. of Nickerie R., line W. of Utrecht, W. branch km 6	0-15	94	1	0	4.7	5.85	—	—	0.027	0.006	0.025	
		30-50	99	tr.	0	—	7.3	—	—	0.023	0.008	0.045	
type III	N. levee of Nickerie R.	0-20	90	1	0	7.5	4.9	—	—	0.019	0.008	—	
	W. of Utrecht	30-50	99	1	0	—	4.7	—	—	—	—	—	
	levee of Corantine R.	0-20	77	21	0	1.9	5.8	4.7	—	—	0.002	0.023	
	23 km S. of Nanni creek	30-50	78	22	0	—	5.8	4.7	—	—	—	—	
		0-10	59	11	0	30*	4.1	3.6	—	0.04	0.023	0.27	1020
	pegasse km 2.45 Wiawia line	0-10	36	16	1	47*	3.1	3.0	—	0.024	0.018	0.26	300
Nickerie	peat of floating island in Nanni cr.	20-40	61	13	0	26.5	4.2	3.4	—	0.028	0.018	0.09	20
	swamp savanna N. of Nickerie R.	0-10	67 ^o	24	0	8.5	6.4	5.6	—	0.08	0.033	0.30	14,280
	opposite Nieuw Nickerie	10-20	66 ^o	35	1	2.8	6.8	6.1	0.06	0.07	0.017	0.14	
	swamp km 0.12 2nd line Coronie	30-75	62 ^o	35	1	1.2	5.8	4.9	—	0.014	0.010	0.02	70
	swamp km 5.76	30-105	43 ^o	40.5	15.5	0	4.5	3.8	—	—	—	0.015	40-60
		15-30	82	5	4	8.5*	4.7	3.7	—	0.015	—	—	15-20
	swamplet km 9.73	30-85	74	7	18	1.3	4.5	3.6	—	0.012	0.006	0.019	
		85-95	27	6	66	0.7	4.6	3.8	—	—	—	0.021	
		15-40	62	26	8	4.0	4.8	3.6	—	0.013	0.006	0.02	
	islet in swamp km 9.31	40-75	63	27	8	2.5	4.7	3.5	—	—	—	0.025	
Wiawia line		75-95	67	25	3	4.6	4.6	3.6	—	—	—	0.08	
	depression km 10.35	15-30	65	13	17	5	4.5	4.0	—	0.012	0.005	0.013	
		30-65	55	15	28	1.6	4.5	3.8	—	0.010	0.005	0.017	
	marsh forest	65-80	53 ^o	39.5	9	0.6	4.7	3.8	—	—	—	0.014	
		80-95	58 ^o	39	2.2	0.6	4.6	3.8	—	—	—	0.015	
	depression km 12.16	15-45	56 ^o	36	3.5	2.4	4.4	3.9	—	0.010	0.005	0.010	
	marsh forest	45-60	32 ^o	38	28.5	0.8	5.0	4.1	—	0.01	0.004	0.014	
		60-95	20 ^o	63	17	0.4	4.6	3.9	—	—	—	0.015	
type V		0-20	23	73.5	4.5	2.7	6.2	5.4	—	0.010	0.006	0.001	
	line W. of Maratukka River near Cupido km 1.5	35-50	26	71.5	4.2	5.1	5.1	3.8	—	—	—	—	
	marsh forest	60-70	49	49.5	4.3	—	5.1	3.7	—	—	—	—	
		0-20	69	30	0	2.6	5.3	—	—	0.011	0.002	—	
	Idem km 1.9	25-40	82	18	0	—	5.0	—	—	—	—	—	
		50-65	83	18	0	—	6.7	—	—	—	—	—	
	3 m S. of shell bar	0-25	8 ^o	74	3.5	14*	5.9	5.0	—	0.013	0.013	0.023	80
	2nd line	25-35	9 ^o	74.5	4	2.5	7.9	7.4	12.8	0.010	0.010	0.009	
		35-80	5 ^o	89	4.3	0.8	8.0	7.6	4.9	0.008	0.009	0.019	
	swamp border S. of this bar	12-60	5 ^o	86	0.3	1.7	7.8	7.5	6.8	0.009	0.012	0.007	
	swamp border N. of this bar	15-65	4 ^o	95	tr.	0.4	8.1	6.8	0.4	0.007	0.009	0.027	
		65-130	2 ^o	71.5	1.3	0.3	8.2	7.7	23.1	—	—	0.006	
	depression km 0.514	0-25	20 ^o	74	0.1	7.5*	6.5	6.1	—	0.017	0.010	0.053	360
	2nd line	25-100	9 ^o	89	0.2	0.6	8.2	7.2	0.15	0.011	0.006	0.033	
Coronie		0-25	11	75.5 ^o	0.4	13.5 ^o	5.6	5.0	—	0.019	0.013	0.044	220
	Idem km 0.585	20-50	14	84 ^o	tr.	1.4	7.0	6.2	0.04	0.006	—	0.037	
		50-120	7	90 ^o	0.2	0.4	8.2	7.3	1.9	—	—	0.014	
		0-25	14 ^o	77	0.1	9.5*	5.3	4.4	—	0.014	0.009	0.037	240-260
	Idem km 0.66	25-45	12 ^o	86.5	0.4	0.8	7.5	6.9	0.16	0.007	0.007	0.023	
		45-110	6 ^o	89.5	0.3	0.6	8.7	7.5	3.0	—	—	0.025	
	Idem km 0.88	0-20	4 ^o	91.5	0.3	3.7	6.4	5.8	—	0.008	0.010	0.034	2160
		30-50	6 ^o	90	0.5	1*	8.2	7.4	2.3	0.016	0.007	0.077	
		0-20	24 ^o	59.5	0.5	16*	5.2	4.4	—	0.023	0.014	0.069	
	Idem km 1.1	20-60	12 ^o	83.5	0.5	3.7	5.8	4.9	—	0.007	0.005	0.027	140
		60-150	5 ^o	91.5	0.2	0.4	8.1	7.6	2.3	—	—	0.074	
type IV		0-20	11	85	<2.5	2.3	6.5	5.3	—	0.004	0.023	0.002	
	sand ridge in Cupido	30-50	15	82.5	<2	—	6.0	4.4	—	—	—	—	
	Maratukka River	60-80	7	89	<2.9	—	5.8	4.2	—	—	—	—	
	ridge S. of Clara polder	0-10	2 ^o	74	21	3.4	6.3	5.7	—	0.012	0.007	0.026	
Nickerie		0-10	26	13	48	6.5*	8.5	8.1	6.3	0.030	0.102	0.16	
	ridgelet opposite Nieuw Nickerie	40-50	9	6	41	0.4	8.7	8.4	44.3	0.026	0.075	0.18	6000
		90-100	4	22	41	0.3	8.5	8.2	32.8	0.041	0.047	0.31	
	shell deposit seadyke Nickerie	0-15	0 ^o	9.5	64	0.3	7.4	7.1	25.2	0.01	0.020	0.026	
	ridge border km 6.46 Wiawia line	45-60	1 ^o	13	87.5	0.6	6.2	4.7	—	0.005	0.005	0.006	40-60
	Idem km 6.83	15-60	17	80	80	1.3	5.8	4.8	—	0.005	0.009	0.010	
	ridge pl. Katwijk, Commewijne R.	10-20	1 ^o	53	55	0.6	6.7	6.5	—	0.004	0.009	0.005	45



- ridges
- mangrove
- savanna
- herbaceous swamp in the old coastal region
- old rivercourses and old levees
- boundary of the hill country
- main roads
- railway
- our transect lines



LEGENDA

- Mangrove
- Strand mangrove
- Machaerium lunatum scrub (brantimakka)
- Erythrina swamp wood (koffiemamma)
- Salt and brackish swamps 1st, 2nd and 3^d type
- Cyperus giganteus swamps
- Swamps 6th type. * Undeep parts in swaying swamps without floating peat
- Marsh forest and marsh scrub
- Evergreen seasonal forest
- Fields (grondjes) and secondary growth
- Savanna forest and dense scrub
- Savanna
- Scrub wood

Transect Moengo tapoe - Wiawia flat 1:40,000

