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PLANTS COLLECTED ON ISLANDS IN THE WESTERN INDIAN OCEAN DURING  
A CRUISE OF THE M.F.R.V. "MANIHINE," SEPT. - OCT. 1967

by M. D. Gwynne and D. Wood

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# PLANTS COLLECTED ON ISLANDS IN THE WESTERN INDIAN OCEAN DURING A CRUISE OF THE M.F.R.V. "MANIHINE," SEPT.-OCT. 1967

by M. D. Gwynne <sup>1/</sup> and D. Wood <sup>2/</sup>

## INTRODUCTION

The islands covered by this account lie in the Western Indian Ocean between latitudes 5°S - 10°S and longitudes 46°E - 57°E. They are, in order of visiting, Remire (REM in the following table), Daros (DAR, including the islands of Ressource, Fouquet and St. Joseph), Desroches (DES), Coëtivy (COE), Farquhar (FAR, including Ile du Nord, Ile du Sud & Goëlette), Cosmoledo (COS, including Menai & Grand Ile), Astove (AST) and Assomption (ASS). Aldabra was also visited but was not included on the list. These islands are all "low" islands, the highest point on all being the tops of sand dunes. The geological structure has been detailed by Baker (1963) who classes Remire, Daros, Desroches, Coëtivy and Farquhar as sand cays and Cosmoledo, Astove and Assomption as raised reef-rock islands.

Botanically the islands of the Western Indian Ocean have received mixed coverage. The "high" islands such as Mauritius and the granite islands of the main Seychelles group have attracted attention because of their commercial importance and interesting flora. The raised reef-rock islands have been relatively well visited because of their endemic flora and fauna. This is particularly true of Aldabra--the largest of the "low" islands.

The flora of the sand cays is comparatively little known, the most recent systematic account being by Hemsley (1919). Other references to accounts of the flora of islands covered by the present list are to be found in Blake and Atwood (1942), Peters (1957) and Stoddart (1967).

The following list is by no means a complete account of the flora of any of the islands visited. This is particularly so of Farquhar, Cosmoledo, Astove and Assomption, where a combination of a short stay on the islands and a low proportion of the plants in flower produced a collection comparatively meager in relation to what must be the total flora of these islands.

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<sup>1/</sup> East African Agriculture and Forestry Research Organisation, Muguga, Kenya.

<sup>2/</sup> Royal Botanic Garden, Edinburgh, Scotland.

The arrangement of the angiosperm families in the table follows that of Hutchinson (1926 & 1934). This is the sequence used at the East African Herbarium, Nairobi, where the collection was identified. If a species was not represented in the East African Herbarium it was identified from descriptions alone. Numbers in the table are Gwynne & Wood collecting numbers. Most of these are deposited in the East African Herbarium (EA). "S" signifies a sight record only.

## LIST OF PLANTS

	REM	DAR	DES	COE	FAR	COS	AST	ASS
<u>PTERIDOPHYTES</u>								
<u>Psilotum nudum</u> (L.) Beauv.				1109 1153		S		
<u>Acrostichum aureum</u> L.				1088				
<u>Asplenium nidus</u> L.				1085				
<u>Nephrolepis</u> <u>biserrata</u> (Sw.) Schott	890			1085B	1179			
<u>Phymatodes scolo-</u> <u>pendria</u> (Burm.) Ching				1097 1150				
<u>Pteris tripartita</u> Swartz				1084				
<u>ANGIOSPERMS</u>								
<u>LAURACEAE</u>								
<u>Cassytha filifor-</u> <u>mis</u> L.	899	943 948 965	S	S	S	S		
<u>HERNANDIACEAE</u>								
<u>Hernandia</u> <u>sonora</u> L.	S	922 954	1041	1165	S			

	REM	DAR	DES	COE	FAR	COS	AST	ASS
TURNERACEAE								
<u>Turnera ulmi-</u> <u>folia</u> L.	897	927 950 961 988		1148				
CAPPARIDACEAE								
<u>Capparis carti-</u> <u>laginea</u> Decne							1291B	
<u>Cleome strigosa</u> (Boj.) Oliv.						1251	1303	
<u>Cleome viscosa</u> L.	859			S				
<u>Gynandropsis gyan-</u> <u>dra</u> (L.) Briq.					1204			
MORINGACEAE								
<u>Moringa oleifera</u> Lam.						1254		
CRASSULACEAE								
<u>Bryophyllum pin-</u> <u>natum</u> (Lam.) Kurz.		1014		1145	S			
AIZOACEAE								
<u>Sesuvium portulacas-</u> <u>trum</u> (L.) L.						1266	1318	
PORTULACACEAE								
<u>Portulaca</u> <u>oleracea</u> L.	901			1138	1205	1223	1298	
AMARANTHACEAE								
<u>Achyranthes</u> <u>aspera</u> L.	902	1060		1140	1189	1224	1317	
<u>Alternanthera</u> <u>sessilis</u> R. Br.				1108A				
<u>Amaranthus dubius</u> Mart.	860							

	REM	DAR	DES	COE	FAR	COS	AST	ASS
ZYGOPHYLLACEAE								
<u>Tribulus cistoides</u> L.					1193			
LYTHRACEAE								
<u>Pemphis acidula</u> Forst.	955 980 1058				1080	S	S	S
NYCTAGINACEAE								
<u>Boerhavia coccinea</u> Mill.				1162	1185 1211	1258	1314	1330
<u>Boerhavia diffusa</u> L.	877 886	S						
<u>Mirabilis jalapa</u> L.		944A 1029			1199			
<u>Pisonia grandis</u> R. Br.		931 941 947B 986				1228	1300	
PASSIFLORACEAE								
<u>Passiflora foetida</u> L.							1332	
<u>Passiflora suberosa</u> L.	876	962 968 984 1062	S	S	S	S		
CUCURBITACEAE								
<u>Cucumis melo</u> L.				1108B		1255		
<u>Cucurbita pepo</u> L.					1190			
<u>Mukia maderaspatana</u> (L.) Roem.					1194 1219			

	REM	DAR	DES	COE	FAR	COS	AST	ASS
LECYTHIDACEAE								
<u>Barringtonia</u> <u>asiatica</u> (L.) Kurz		920		1119				
COMBRETACEAE								
<u>Terminalia catap-</u> <u>pa</u> L.	907		S	1095	S			
RHIZOPHORACEAE								
<u>Bruguiera gymnor-</u> <u>rhiza</u> (L.) Lam.							1259	
<u>Rhizophora mucro-</u> <u>nata</u> Lam.							1261	
GUTTIFERAE								
<u>Calophyllum ino-</u> <u>phyllum</u> L.	866			1094				
TILIACEAE								
<u>Grewia salicifolia</u> Schinz (vel. sp. aff.)							1257	
<u>Triumfetta procum-</u> <u>bens</u> Forst.				1126A				
MALVACEAE								
<u>Abutilon mauriti-</u> <u>anum</u> (Jacq.) Medic.	870							
<u>Gossypium</u> <u>hirsutum</u> L.		935		1093	1191	1226	1328	
<u>Sida parvifolia</u> DC.	855	972	1035	1166	1210	S	1313	
<u>Sida rhombifolia</u> L.		1027						
<u>Thespesia populnea</u> (L.) Corr.	868							

	REM	DAR	DES	COE	FAR	COS	AST	ASS
<u>Thespesia popul-</u> <u>neoides</u> (Roxb.) Kostel.						1236	1297	
ERYTHROXYLACEAE								
<u>Erythroxylon acran-</u> <u>thum</u> Hemsl.						1233		
EUPHORBIACEAE								
<u>Acalypha claoxy-</u> <u>loides</u> Hutch.						1240	1299 1319 1322	
<u>Acalypha indica</u> L.	874							
<u>Euphorbia cyatho-</u> <u>phora</u> Murr.		1022						
<u>Euphorbia hirta</u> L.	856	1023			1198			
<u>Euphorbia pros-</u> <u>trata</u> Ait.	861							
<u>Euphorbia</u> sp.						1230		
<u>Pedilanthus tithy-</u> <u>maloides</u> (L.) Poit.	905							
<u>Phyllanthus</u> <u>maderaspaten-</u> <u>sis</u> L.	881	975 989 1030	1040 1050	1090 1158	1212		1325	
<u>Phyllanthus</u> <u>amarus</u> Schum. & Thonn.	887							
<u>Ricinus communis</u> L.	S	S		1146		S		
CAESALPINIACEAE								
<u>Caesalpinia bonduc</u> (L.) Roxb.	864					1248		
<u>Cassia occiden-</u> <u>talis</u> L.	863						S	

	REM	DAR	DES	COE	FAR	COS	AST	ASS
<u>Tamarindus indica</u> L.				1087				
MIMOSACEAE								
<u>Adenantha</u> <u>pavonina</u> L.		1031						
<u>Leucaena leucoce-</u> <u>phala</u> (Lam.) de Wit	888	919 1016				1186		
PAPILIONACEAE								
<u>Canavalia cathar-</u> <u>tica</u> Thouars				1122				
<u>Gliricidia sepium</u> (Jacq.) Steud.				1086				
<u>Sesbania sericea</u> (Willd.) Link		1002						
CASUARINACEAE								
<u>Casuarina equiseti-</u> <u>folia</u> L.	891	963 1026	S	S	S	S	S	S
MORACEAE								
<u>Ficus</u> sp.					1188	1241		
URTICACEAE								
<u>Pipturus argenteus</u> Wedd.				1136				
<u>Laportea aestuans</u> (L.) Chew	906	942			S			
CELASTRACEAE								
<u>Maytenus senega-</u> <u>lensis</u> (Lam.) Exell							1302	
SALVADORACEAE								
<u>Azima tetraantha</u> Lam.						1243		



	REM	DAR	DES	COE	FAR	COS	AST	ASS
<u>Salvadora angus-</u> <u>tifolia</u> Turrill						1242 1247		
RHAMNACEAE								
<u>Colubrina asiatica</u> (L.) Brongn.						1256 1262	1308	
<u>Scutia myrtina</u> (Burm. f.) Kurz						1244	1294	
SIMAROUBACEAE								
<u>Suriana maritima</u> L.		937 979	1037	1128	1187	S		
SAPOTACEAE								
<u>Sideroxylon</u> <u>inerme</u> L.								1309
APOCYNACEAE								
<u>Ochrosia opposi-</u> <u>tifolia</u> (Lam.) K. Schum.	893	923						
<u>Vinca rosea</u> L.	857	951 1028				S	1327	
ASCLEPIADACEAE								
<u>Pleurostelma</u> <u>cernuum</u> (Decne.) Bullock						1234 1252		
<u>Sarcostemma vini-</u> <u>nale</u> R. Br.						1239	1293	
<u>Secamone fryeri</u> Hemsl.							1296 1333	
RUBIACEAE								
<u>Guettarda</u> <u>speciosa</u> L.	869	930 944B 964 978	1037			S	1321	

	REM	DAR	DES	COE	FAR	COS	AST	ASS
<u>Morinda</u> <u>citrifolia</u> L.		1020		1126B				
<u>Oldenlandia</u> <u>congesta</u> Balf. f.							1326	
COMPOSITAE								
<u>Bidens pilosa</u> L.	880	956 1005			1192			
<u>Gaillardia</u> sp.					1207 1208			
<u>Launaea intybacea</u> (Jacq.) Beauv.						1253	1316	
<u>Launaea sarmentosa</u> (Willd.) O. Ktze						1229		
<u>Tridax procum-</u> <u>bens</u> L.	889	974	S	1113 1121A				
<u>Vernonia cinerea</u> (L.) Less.		970	1047	1147	1196			
<u>Vernonia aldabren-</u> <u>sis</u> Hemsl.							1292	
PLUMBAGINACEAE								
<u>Plumbago aphylla</u> Boiss.						1227	1290	1334
LOBELIACEAE								
<u>Isotoma longiflora</u> (L.) Presl				1146A				
GOODENIACEAE								
<u>Scaevola taccada</u> (Gaertn.) Roxb.	865	977	S	1141	S	S		
BORAGINACEAE								
<u>Cordia subcordata</u> Lam.	867 904	921 947A					1301	

	REM	DAR	DES	COE	FAR	COS	AST	ASS
<u>Tournefortia</u>								
<u>argentea</u> L. f.	903	1019	S	S	S			
SOLANACEAE								
<u>Datura metel</u> L.	882							
<u>Solanum nigrum</u> L.	875	1018						
CONVOLVULACEAE								
<u>Evolvulus</u>								
<u>alsinoides</u> (L.) L.						1231	1331	
<u>Ipomoea pes-caprae</u>								
(L.) R. Br.	894		S			S		
<u>Ipomoea tuba</u>								
(Schlecht.) Don		929	1042	1091	1209	S	1307	
		932		1159	1218			
SCROPHULARIACEAE								
<u>Striga asiatica</u>								
(L.) O. Ktze		939	S	1121B	S			
		969		1142				
ACANTHACEAE								
<u>Asystasia</u>								
<u>bojeriana</u> Nees		1021					1315	
							1324	
<u>Hypoestes</u>								
? <u>aldabrensis</u> Bak.						1225		1329
						1264		
VERBENACEAE								
<u>Avicennia marina</u>								
(Forsk.) Vierh.						1260		
<u>Phyla nodiflora</u>								
(L.) Greene	878	1003	S	1092	S			
<u>Premna obtusifolia</u>								
R. Br.						1250		
<u>Stachytarpheta</u>								
<u>jamaicensis</u> L.	862	S	S	1157				

	REM	DAR	DES	COE	FAR	COS	AST	ASS
HYDROCHARITACEAE								
<u>Thalassia hemprichii</u> (Ehrenb.) Aschers.		1056						
ZANNICHELLIACEAE								
<u>Cymodocea ciliata</u> Aschers.	854 898	940 1057	1031A					
<u>Cymodocea</u> sp.					1216			
<u>Halodule uninervis</u> (Forsk.) Aschers.				1130				
<u>Syringodium</u> <u>isoetifolium</u> (Aschers.) Dandy		1007						
COMMELINACEAE								
<u>Commelina ?diffusa</u> Burm. f.	896							
LILIACEAE								
<u>Asparagus</u> sp.						1265		
<u>Lomatophyllum</u> <u>borbonicum</u> Willd.							1295	S
ARACEAE								
<u>Alocasia macror-</u> <u>rhiza</u> (L.) Schott				1089				
<u>Colocasia esculenta</u> (L.) Schott				1152				
AMARYLLIDACEAE								
<u>Crinum angustum</u> Roxb.		957	S	S	S			
AGAVACEAE								
<u>Agave</u> sp.							S	
<u>Furcraea</u> sp.				1085A				

	REM	DAR	DES	COE	FAR	COS	AST	ASS
PALMAE								
<u>Cocos nucifera</u> L.	S	S	S	S	S	S	S	S
PANDANACEAE								
<u>Pandanus utilis</u> Bory				1096				
ORCHIDACEAE								
<u>Vanilla planifolia</u> Andr.		945		S				
CYPERACEAE								
<u>Cyperus</u> <u>?rotundus</u> L.				1110				
<u>Fimbristylis dichotoma</u> (L.) Vahl				1098 1111 1114 1115 1117 1151				
<u>Fimbristylis cymosa</u> R. Br.	873	924 958 959 983 1004 1008 1009 1010	1032	1127 1135 1155	1181 1213			
<u>Kyllinga cartilaginea</u> K. Schum.				1134 1156				
<u>Kyllinga erecta</u> Schum.				1107A				
<u>Kyllinga melanosperma</u> Nees	892							
<u>Kyllinga polyphylla</u> Kunth	879			1112				

	REM	DAR	DES	COE	FAR	COS	AST	ASS
<u>Mariscus dubius</u> (Rottb.) Hutch.	885 900	971 1013	1036 1048	1154				
<u>Mariscus ligularis</u> (L.) Hutch.	895	960		1144 1168	1183	S		
<u>Pycneus poly-</u> <u>stachyus</u> (Rottb.) Beauv.				1116				
GRAMINEAE								
<u>Cenchrus echinatus</u> L.		936			1201			
<u>Cenchrus mitis</u> Anders.	872							
<u>Chloris</u> sp.						1237		
<u>Cynodon</u> sp.			1052					
<u>Dactyloctenium</u> <u>aegyptium</u> (L.) Beauv.	884	934 966 987 1059	1039	1131 1143 1160	S	1263	1291A 1320	
<u>Digitaria horizon-</u> <u>talis</u> Willd.		946 1025	1034			1238		
<u>Digitaria timoren-</u> <u>sis</u> (Kunth) Balansa				1124 1133 1139 1161	1202		1323	
<u>Eleusine indica</u> (L.) Gaertn.		925B 1024	1045		1200 1206			
<u>Enteropogon</u> sp.			1044					
<u>Eragrostis ciliaris</u> (L.) R. Br.		967						

	REM	DAR	DES	COE	FAR	COS	AST	ASS
<u>Eragrostis tenella</u> (L.) Roem. & Schult.			1033	1137 1167				
<u>Eragrostis tenella</u> (L.) Roem. & Schult. var. <u>insularis</u> Hubb.	858 883	925A 928 981	1043	1132 1164	S	S		
<u>Lepturus repens</u> (G. Forst.) R. Br.		926 982		1123	S			
<u>Lepturus</u> sp.								1249
<u>Panicum maximum</u> Jacq.						1203		1235
<u>Paspalum distichum</u> L.								1182
<u>Pennisetum polystachium</u> (L.) Schult.								1184
<u>Saccharum officinarum</u> L.	908							
<u>Sclerodactylon macrostachyum</u> (Benth.) Camus								1335
<u>Sporobolus virginicus</u> (L.) Kunth								1310
<u>Stenotaphrum dimidiatum</u> (L.) Brongn.			1051	1118 1163				
<u>Stenotaphrum micranthum</u> (Desv.) Hubb.	871	973 985 1061				1197		

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