A CONTRIBUTION TO THE VASCULAR FLORA OF VEDHARANYAM AND TALAIGNAYAR RESERVE FORESTS, TANJORE DISTRICT, MADRAS STATE

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ABSTRACT

The two reserves dealt with in this paper lie between 70°31'-80° E and 10°-11° N on the eastern coast of peninsular India in Tanjore District, Madras State. The two are separated from each other by about 18 kilometres; the Vedharanyam R. F. lying a little south of Talaignayar. The Vedharanyam R. F. has a Tropical Dry Evergreen type of forest, whereas Talaignayar shows characteristic salt-marsh or swamp vegetation. One new species and 3 new records have been noted.

Two botanical tours were conducted in August 1960 and January 1961 and altogether 218 taxa were collected. All the specimens have been deposited in the Southern Circle Herbarium of Botanical Survey of India, Coimbatore (MH).

INTRODUCTION

The Vedharanyam R. F., also called Kodiakadu Reserve, and Talaignayar R. F., lie between 70°31'-80° E and 10°-11° N on the eastern coast of peninsular India in Tiruthuraipundi Taluk of Tanjore District, Madras State. The Vedharanyam R. F. occupies an area of 5663 hectares, projecting into the Bay of Bengal and Talaignayar R. F. occupies an area of 1236 hectares near the estuary of the river Adappar. The two forests are separated from each other by about 18 kilometres, the Vedharanyam reserve being a little south of Talaignayar.

Vedharanyam is historically an important place. The name ‘Vedharanyam’ means ‘the forest of the Vedhas’, and the place is considered very sacred by the Hindus. There is a legend attached to this place which says that Rama lived sometime in the forest here before invading Ceylon. The adjoining village, Agastyampalli, has a temple to the sage Agasty – the mythical leader of the Brahmin immigration to the south (Madras District Gazetteers –Tanjore, 1906). People from all over the country go to visit a place called Ramarpadam—the highest place in Vedharanyam forest, where two foot marks are seen on a stone which are supposed to indicate the place where Rama stood. Vedharanyam is also a game sanctuary for water birds and migrant flamingos. Herds of deer are seen roaming along the beach, and some sambar are reported to be present in the wooded portion of the forest. Some wild horses are seen here which are said to be not truly feral. The other animal here which is of considerable importance is the...
wild boar. Commercially both these regions are important because of many salt factories situated near them.

Botanically this region remained unexplored. Two Botanical tours, therefore, have been conducted in these forests to cover two seasons of the year 1960-61 which are as follows: I. Exploration—August 1960 ; II. Exploration—January 1961.

SOIL

The subsoil in Vedharanyam is deep and the outer stratum is sandy. Occasionally alluvial deposits with bogs and quicksands are encountered. Humus content is conspicuously low, most of the forest area being covered by sand. On the other hand, the soil in Talaignayar is clayey due to the estuarial nature of the area and consequent successive deposits of alluvial silt brought down by the river Adappar. These alluvial deposits have risen the ground level, thereby exposing the soil to inundation only during the high tides. Talaignayar is covered by extensive lagoons and streams.

CLIMATE AND RAINFALL

Climatically there are two seasons in an year: the warm and the rainy. The warm season is prolonged with high temperature and humidity, the warmest months being April, May and June. During this period occasional rains known as inter-monsoon showers come. However, S. W. Monsoon which begins by the end of June or early July, accompanied by the easterly winds from the sea, reduces the atmospheric temperature. These showers are normally light. However, heavy rainfall is experienced from October to January due to N. E. Monsoon and cyclonic disturbances in the Bay of Bengal. This is also called Winter Monsoon. The annual rainfall for both the areas is about 125-140 centimetres.*

VEGETATION

Vedharanyam:

The vegetation of Vedharanyam is very interesting, for it comes under the Tropical dry evergreen forests (Champion and Seth, 1964). But the wooded portion of this forest is only 50 per cent of the total area; the rest of the area in the north is being occupied by extensive grassy lands and shallow swamps. There is a gradual change-over from such grassy and swampy vegetation to dense growth of stunted dry evergreen type formed by trees having mostly small coriaceous leaves and short boles with spreading crowns. The wooded portion, however, has been disturbed much by the influence of felling, lopping and browsing. Several open places are present which harbour plants of Scrub vegetation. In many places partial inundation takes place during the high tides and in these areas mangrove plants grow luxuriantly.

The vegetation of Vedharanyam can, therefore, be classified under three categories: i. Sea-shore vegetation, ii. Dry evergreen vegetation, iii. Mangrove vegetation.

i. Sea-shore vegetation: As the Vedharanyam reserve is surrounded on two sides of the Bay of Bengal and on two other sides by salt swamp, the littoral vegetation is prominent. Spinifex littoreus is a conspicuous plant acting as a soil binder at several places. Along with this, Acteopus lagopoides, Aristida setacea, Launaea pinpatifida, Phyla nodiflora, Zostera matrella and others form a carpet of vegetation protecting the soil from erosion. Asystasia gangetica, Eriostemma hysopifolium, Gisekia pharmacoides, Gloriosa superba, Pandanus torrarius, Pedalium maruex and others form the next zone. Pandanus tectorius needs a special mention here, for it acts both as a soil binder and a wind-break. Within some distance from this zone, amidst the partially inundated areas where during the high tides water completely covers the areas, the following plants are abundant: Arthrocenenum indicum, Salicornia ep., Suaeda monoica, S. nudi-flora, etc. In the north, during the period from November to January when the area receives rainfall due to N. E. Monsoon, an aquatic scrophulariaceous plant, Peplidium maritimum is important occurring abundantly near the seashore, presumably preferring a soil not very salish. Hygrophila auriculata again is a very common plant during this period.

The southern side, on the other hand, shows dense growth of Prosopis juliflora. This introduced plant has become naturalized and is showing signs of rapid propagation. This has acted very well as a soil binder. Next zone in this area comprises the thick vegetation of Eugenia bracteata, Ixora arborea, Manilkara hexandra, patches of Opuntia monocantha, Phoelix pusilla, Sapindus emarginatus, Zizyphus oenoplia and others. The following herbaceous plants are common in this area: Asparagus racemosus, Crotonalria striata, Indigofera aspa-

*Data taken from the map showing the Rainfall of India, Published by the Ministry of Education and Scientific Research, Government of India, 1957.
thodes and others. During winter months, ephemeral aquatics like Limnophila indica, Ludwigia
perennis, Neea lam-culata and others are abundant in pools of stagnant fresh-water. Cassurina equi-
setifolia has been successfully exploited both for fuel and as a wind-break.

ii. Dry evergreen vegetation: This forms the major portion of the vegetation in Vedharanyam
called the Kodiakadu Reserve. As indicated earlier, the plants show stunted growth, though Calophyl-
lum inophyllum, Drypetes sepiaria, Lamnes coro-
mandelica, Manilkara hexandra, Mimusops lengi, Walsura trifoliata and others are tall. Manilkara
hexandra is economically important here for its
fruits. At several places Canavalia gladiata and
Mucuna prurita form thick patches of vegetation
on many plants making impenetrable thickets.
Near Ramanpadam, Canthium dioccrum, Cayratia
carnosa, Cissus vitiginea, Hugonia mystax, Meme-
cyron umbellatum, Plecospermum spinosum, Randia
malabarica, Toddalia asiatica Lamk. var.
gracilis and others form major taxa of the region.
Near the roads and pathways, Clerodendrum
inermé, Ficus benghalensis, Vítex negundo and
others are common. In this forest the following
parasitic plants have been collected: Casytha filifor-
mis, Dendrophthoe falcata, Viscum capitellatum,
V. orientale, etc. The epiphytic orchid, Vanda tes-
sellata, is fairly common.

iii. Mangrove vegetation: This vegetation is
seen in low lying areas at various localities in Vedha-
ranym where partial inundation takes place during
the high tides. A luxuriant growth of mangroves,
however, is seen at a place called Muniappeneri.
where the following plants have been collected:
Aegiceras corniculatum, Avicennia alba, Exco-
caria agallocha and Tamarix gallica. Some plants
here which seem to prefer an alkaline type of soil
are: Cleome burmanii, Sarcothamnus intermedium,
Sidá schimperiana, Sphaeranthus amaranthoides, etc.
Tobacco is cultivated at several places. A con-
siderable revenue for the Forest Department is
brought by the sale of fallen leaves of forest plants
as manure.

Talaignayar Reserve Forest:

This region shows characteristic salt-marsh vege-
tation where extensive growth of Suaeda monosca
and S. nudiflora is noted. On either side of the
river Adappar and its tributaries forming an estu-
ary, there is an abundant growth of Acanthus ilici-
folius, Aegiceras corniculatum, Avicennia alba and
Rhizophora candelaria. During the winter mon-
soon, aquatics like Aponogeton alatus, Bergia capen-
sis, Najas graminea and Sphærocoele zeylanica are
common. Pentatràps microphylla is a common
twirer on many plants.

In all 218 taxa spread over 72 families have been
collected. They have been deposited in the Regional
Herbarium, Southern Circle, Botanical Survey of
India, Coimbatore (MH).

ENUMERATION

In the following enumeration the system of Ben-
tian and Hooker with certain delimitations of
Hutchinson (1926) is followed. The names of plants
in a family are arranged in alphabetical order.
The name of a taxon is followed by the phenological
data, date of collection, place of collection and collector’s
field number. Every attempt has been made to bring
the names of plants up to date. An asterisk before
a name indicates new distribution for the District.

MARSILEACEAE

Marsilea quadrifolia Linn.
In sporocarps, 23-1-1961, Kodiakadu, Vedharan-
yam, Ellis 11843.

MENISPERMACEAE

Tiliacora amophora (W. & A.) Miers
In flowers, 10-8-1960, near Vedharanyam town-
ship, Sebastine 10660.

Tinospora cordifolia (DC.) Miers.
In buds and flowers, 18-1-1960, near Light House,
Vedharanyam, Ellis 11776.

PAPAVERACEAE

Argemone mexicana Linn.
In flowers and fruits, 23-1-1961, Point Calimere,
Vedharanyam, Ellis 11845.

CAPARACEAE

Cudaba fruticosa (Linn.) Druce.
In flowers, 23-1-1961, Muniappaneri, Vedharany-
ym, Ellis 11850.

CLEOME ELLISIANA Schum. & Thonn.
In flowers and fruits, 23-1-1961, Muniappaneri,
Vedharanyam, Ellis 11838.

C. vicosa Linn.
In flowers and fruits, 20-1-1961, near Vedharan-
yam township, Ellis 11810.

VIOLACEAE

Hybanthus enneaspermus (Linn.) F. V. Muell.
In flowers and fruits, 10-8-1960, Point Calimere,
Vedharanyam, Sebastine 10651.
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CARYOPHYLLACEAE

Polycarpacea corymbosa (Linn.) Lamk.
In flowers, 15-8-1960, Point Calimere, Vedharanyam, Sebastine 1074.

PORTULACACEAE

Portulaca oleracea Linn.

GUTTIFERAE

Calophyllum inophyllum Linn.
In flowers and fruits, 17-1-1960, Point Calimere, Sebastine 10607.

MELIACEAE

Walsara trifoliata (A. Juss.) Harms.
In flowers, 19-1-1961, Kodiakadu, Vedharanyam, Ellis 11791.

RHAMNACEAE

Zizyphus oenoplia (Linn.) Mill.
In flowers, 13-8-1960, Point Calimere, Sebastine 10650.

VITACEAE

Cardiospermum halicacabum Linn.
In flowers and fruits, 18-1-1961, near Light House, Vedharanyam, Ellis 11777.

SAPINDACEAE

Acanthus emarginatus Vahl
In flowers, 19-1-1961, Kodiakadu, Vedharanyam, Ellis 11797.

PAPILIONACEAE

Abrus precatorius Linn.
In flowers, 17-1-1960, Point Calimere, Ellis 11758.

Canavalia gladiata (Jacq.) DC.
In flowers, 19-1-1961, Kodiakadu, Vedharanyam, Ellis 11789.

Crotalaria striata DC.
In flowers and fruits, 13-8-1960, Point Calimere, Sebastine, 10648.

C. verucosa Linn.
In flowers, 19-1-1961, Kodiakadu, Vedharanyam, Ellis 11798.
Desmodium biarticulatum Benth.
  In flowers, 12-8-1960, Manganipillayar thope, near Talaignayar, Sebastine 10686.

D. trilorum DC.
  In flowers, 23-1-1961, Muniappaneri, Vedharanyam, Ellis 11837.

Dolichos falcatus Klein.
  In flowers, 17-1-1961, Point Calimere, Ellis 11754.

Indigofera aspalathoidea Vahl
  In flowers, 19-1-1960, Point Calimere, Vedharanyam, Sebastine 10694.

Macuna prurita Hook.
  In flowers, 23-1-1961, Kodiakadu, Vedharanyam, Ellis 11722.

Parkinsonia aculeata Linn.
  In flowers, 23-1-1961, around Muniappaneri, Vedharanyam, Ellis 11836.

Phaseolus tricolobus Ait.
  In flowers, 17-1-1961, Point Calimere, Ellis 11756.

Pongamia pinnata (Linn.) Pierre
  In flowers, 9-8-1960, near Ramarpadam, Vedharanyam, Sebastine 10645.

Stylosanthes mucronata Willd.
  In flowers, 23-1-1961, Point Calimere, Ellis 11849.

Tephrosia purpurea (Linn.) Pers.
  In flowers, 7-8-1960, Point Calimere, Sebastine 10602.

CAESALPINIACEAE

Cassia auriculata Linn.
  In flowers, 17-1-1961, Point Calimere, Ellis 11745.

C. fistula Linn.
  In flowers, 7-8-1960, Point Calimere, Sebastine 10615.

C. obtusa Roxb.
  In flowers, 15-8-1960, Point Calimere, Sebastine 10717.

C. occidentalis Linn.
  In flowers, 7-8-1960, Point Calimere, Sebastine 10610.

C. tora Linn.
  In flowers, 23-1-1961, Muniappaneri, Vedharanyam, Ellis 11842.

MIMOSACEAE

Acacia arabica Willd.
  In flowers, 11-8-1960, Pinchenkotagam, near Talaignayar, Sebastine 10672.

Dichrostachys cinerea (Linn.) Wt. & Arn.
  In flowers, 8-8-1960, Kodiakadu, Vedharanyam, Sebastine 10623.

Prospis juliflora DC.
  In flowers, 19-1-1961, Ramarpadam, Vedharanyam, Ellis 11800.

RHIZOPHORACEAE

Rhizophora candelaria DC.
  In flowers, 12-8-1960, Talaignayar, Sebastine 10686.

MYRTACEAE

Eugenia bracteata (Wild.) Roxb.
  In flowers and fruits, Point Calimere, Sebastine 10696.

Syzygium cumini (Linn.) Skeels.
  In flowers, 7-8-1960, Point Calimere, Sebastine 10606.

LEGUMINOSAE

Barringtonia acutangula (Linn.) Gaertn.
  In flowers, 11-8-1960, Pinchenkotagam, near Talaignayar, Sebastine 10671.

MELASTOMACEAE

Memecylon unbellatum Burm. f.
  In flowers, 9-8-1960, near Ramarpadam, Vedharanyam, Sebastine 10639.

LYTHRACEAE

Ammania baccifera Linn.
  In flowers, 18-1-1961, Point Calimere, Ellis 11763.

Nesaea lanceolata Koehne.
  In flowers, 21-1-1961, Kodiakadu, Vedharanyam, Ellis 11818.

ONAGRACEAE

Ludwigia perennis Linn.
  In flowers, 2-1-1961, Kodiakadu, Vedharanyam, Ellis 11817.

CUCURBITACEAE

Coccinia indica Wt. & Arn.
  In flowers, 18-1-1961, Point Calimere, Ellis 11770.

Mukia maderaspatana (Linn.) M. Roem.
  In flowers, 11-8-1960, Pinchenkotagam, near Talaignayar, Sebastine 10679.

Momordica dioica Roxb.
  In flowers, 18-1-1961, Point Calimere, Ellis 11764.

CACTACEAE

Opuntia monacantha Haw.
  In flowers, 20-1-1961, near Vedharanyam Townsh.

MOLLUGINACEAE

Giselia pharmacoidea Linn.
  In flowers, 22-1-1961, Point Calimere, Ellis 11824.
Glinus oppositifolius (Linn.) A. DC.
In flowers, 11-8-1960, Pinchenkotagam, near Talaignayar, Sebastine 10665.

Mollugo disticha Ser.
In flowers, 12-8-1960, Manganipillayar thope, near Talaignayar, Sebastine 10684.

M. pentaphylla Linn.
In flowers, 15-8-1960, Point Calimere, Sebastine 10718.

RUBIACEAE

Borveria articulata (Linn. f.) F.N. Will.
In flowers, 15-8-1960, Point Calimere, Vedharanyam, Sebastine 10671.

Canthium dicoccum (Gaertn.) Merr.
In flowers, 9-8-1960, near Ramarpadam, Vedharanyam, Sebastine 10640.

Dentella repens Forst.
In flowers, 11-8-1960, Pinchenkotagam, near Talaignayar, Sebastine 10666.

Ixora arborea Roxb. ex Sm.
In flowers, 12-8-1960, Point Calimere, Sebastine 10699.

Oldenlandia biflora Linn.
In flowers, 11-8-1960, Pinchenkotagam, near Talaignayar, Sebastine 10675.

O. corymbosa Linn.
In flowers, 12-8-1960, Manganipillayar thope, near Talaignayar, Sebastine 10681.

O. herbacea Roxb.
In flowers, 19-1-1961, Kodiakadu, Vedharanyam, Ellis 1796.

Pavetta indicula Linn.
In flowers, 8-8-1960, Kodiakadu, Vedharanyam, Sebastine 10624.

Randia dumetorum Lamk.
In flowers, 8-8-1960, Kodiakadu, Vedharanyam, Sebastine 10620.

R. malabarica Lamk.
In flowers, 9-8-1960, Ramarpadam, Vedharanyam, Sebastine 10644.

Tarenna asiatica (Linn.) Sant. & Merch.
In flowers, 19-1-1961, Ramarpadam, Vedharanyam, Ellis 17999.

COMPOSITAE

Acanthospermum hispidum DC.
In flowers, 23-1-1961, Point Calimere, Ellis 11847.

Ageratum conyzoides Linn.
In flowers, 17-1-1961, Point Calimere, Vedharanyam, Ellis 11743.

Blumea obliqua (Linn.) Druce.
In flowers, 7-8-1960, near the Beach, Point Calimere, Sebastine 10695.

Eclipta prostrata Linn.
In flowers, 11-8-1960, Pinchenkotagam, near Talaignayar, Sebastine 10664; in flowers, 18-1-1961, Forest near Light House, Vedharanyam, Ellis 11773.

Epaltes divaricata Cass.
In flowers, 23-1-1961, Point Calimere, Ellis 11834.

Launaea pinnatifida Cass.
In flowers, 7-8-1960, on the Beach, Point Calimere, Sebastine 10694.

Sphaeranthus amaranthoides Burm. f.
In flowers, 14-8-1960, on the banks of Adappar river, Talaignayar, Sebastine 10705.

MYRSINACEAE

Aegiceras corniculatum (Linn.) Blanco.
In flowers, 14-8-1960, near Ramarpadam, Vedharanyam, Sebastine 10702.

SAPOTACEAE

Manilkara hexandra (Roxb.) Dub.
In flowers, 13-8-1960, Kodiakadu, Vedharanyam, Sebastine 10702.

MINUSOPS ELENGI Linn.
In flowers, 13-8-1960, Kodiakadu, Vedharanyam, Sebastine 10702.

SALVADORACEAE

Azima tetragonantha Lamk.
In flowers, 8-8-1960, near Light House, Sebastine 10635.

Salvadora persica Linn.
In flowers, 8-8-1960, Kodiakadu, Vedharanyam, Sebastine 10631.

APOCYNACEAE

Catharanthus roseus (Linn.) G. Don
In flowers and fruits, 13-8-1960, Point Calimere, Sebastine 10690 (rose), Sebastine 10691 (white).

CARLSSON CARMOSAS Linn.
In flowers, 8-8-1960, Kodiakadu, Vedharanyam, Sebastine 10627.

ASCLEPIADACEAE

Calotropis gigantea R. Br.
In flowers, 8-8-1960, near Light House, Vedharanyam, Sebastine 10636.
Ceroxepiga candelabrum Linn.
In flowers, 19-1-1961, Kodiakadu, Vedharanyam, Ellis 11788.

Leptadenia reticulata Wt. & Arn.
In flowers, 9-8-1960, Ramarpadam, Vedharanyam, Sebastine 10641.

Pentatropb (Linn. f.) Bullock.
In flowers, 14-8-1960, Talaignayar, Sebastine 10706.

Pergularia daemia (Forsk.) Chiov.
In flowers, 17-1-1961, Point Calimere, Ellis 11749.

Sarcostemma intermedium Dene.
In flowers, 23-1-1961, Muniappaneri, Vedharanyam, Ellis 11839.

Tylophora indica (Burm. f.) Merr.
In flowers, 7-8-1960, Point Calimere, Sebastine 10609; in flowers, 19-1-1961, Point Calimere, Ellis 11782.

Crotalaria

C. sessilifolia Roem. & Schult.
In flowers, 18-1-1961, near Light House, Vedharanyam, Ellis 11774.

Enicostemma hyssopifolium (Willd.) Verdcorn.
In flowers, 10-8-1960, Point Calimere, Sebastine 10658.

BORAGINACEAE

Heliotropium curassavicum Linn.
In flowers, 8-8-1960, near Light House, Sebastine 10634.

CONVOLVULACEAE

Argyreia pennata Choisy.
In flowers, 12-8-1960, Point Calimere, Vedharanyam, Sebastine 10701.

Evolvulus alsonoides (Linn.) Linn.
In flowers, 10-8-1960, Point Calimere, Sebastine 10653.

Kivca hypocraterinormis Choisy.
In flowers, 18-1-1961, Point Calimere, Ellis 11707.

SOLANACEAE

Physalis minima Linn.
In flowers, 22-1-1961, Point Calimere, Ellis 11835.

P. peruviana Linn.
In flowers, 20-1-1961, near Vedharanyam Town,

Solanum surattense Burm. f.
In flowers, 7-8-1960, Point Calimere, Sebastine 10621.

S. trilobatum Linn.
In flowers, 18-1-1961, Point Calimere, Ellis 11769.

SCROPHULARIACEAE

Limnophila indica (Linn.) Druce.
In flowers, 21-1-1961, Kodiakadu, Vedharanyam, Ellis 11816.

Lindernia crustacea (Linn.) F. Muell.
In flowers, 19-1-1961, Kodiakadu, Vedharanyam, Ellis 11788.

L. hirta (Cham. & Schl.) Mukerjee
In flowers, 17-1-1961, Kodiakadu, Vedharanyam, Ellis 11750.

Pepelidium maritimum (Linn. f.) Wett.
In flowers and fruits, 18-1-1961, near Light House, Ellis 11779.

Sopubia delphinifolia (Linn.) G. Don.
In flowers, 18-1-1961, Point Calimere, near the sea shore, Ellis 11765.

PEDALIACEAE

Pedalium murex Linn.
In flowers, 7-8-1960, Beach, Point Calimere, Sebastine 10603.

MARTYNIACEAE

Martynia annua Linn.
In flowers, 19-1-1961, near Light House, Ellis 11778.

ACANTHACEAE

Acanthus ilicifolius Linn.
In flowers, 11-8-1960, Vellanganny, near Talaig-

Adhatoda vasica Nees
In flowers, 7-8-1960, Point Calimere, Sebastine 10614.

Andrographis echioides (Linn.) Nees
In flowers, 15-8-1960, Point Calimere, Sebastine 10713.

Asystasia gangetica (Linn.) T. Anders.
In flowers, 22-1-1961, Point Calimere, Ellis 11823.

Hygrophila auriculata (Schumach.) Heine
In flowers, 18-1-1961, Point Calimere, Ellis 11771.

Justicia betonica Linn.
In flowers, 12-8-1960, Manganipillayar thope, Sebastine 10689.

J. prostrata (C. B. Cl.) Gamble
In flowers, 11-8-1960, Pinchenkotagam, near Tal-

J. tranquiculariensis Linn. f.
In flowers and fruits, 15-8-1960, near Point Cali-

Ruellia prostrata Poir.
In flowers, 15-8-1960, Point Calimere, Sebastine 10709.
VERBENACEAE

Avicennia alba Bi.
In flowers, 9-8-1960, Ramarpadam, Vedharanyam, Sebastine 10646.

Clerodendrum inerme (Linn.) Gaertn.
In flowers, 9-8-1960, Ramarpadam, Vedharanyam, Sebastine 10644.

Gmelina asiatica Linn.
In flowers, 8-8-1960, Kodiakadu, Vedharanyam, Sebastine 10625.

Phylia nodiflora (Linn.) Greene
In flowers, 7-8-1960, Point Calimere, Sebastine 10611.

Premna serratifolia Linn.
In flowers, 15-8-1960, Point Calimere, Sebastine 10710.

Vitex negundo Linn.
In flowers, 7-8-1960, Point Calimere, Sebastine 10613.

LAMIACEAE

Anisomeles indica O. Ktze.
In flowers, 17-1-1961, Point Calimere, Ellis 11748.

Genisporum teniflorum (Linn.) Merr.
In flowers, 10-8-1960, Point Calimere, Sebastine 10657.

Leucas diffusa Benth.
In flowers, 17-1-1961, Point Calimere, Ellis 11753.

Ocimum sanctum Linn.
In flowers, 18-1-1961, Point Calimere, Ellis 11772.

NYCTAGINACEAE

Boerhavia diffusa Linn.
In flowers, 7-8-1960, Point Calimere, Sebastine 10622.

AMARANTHACEAE

Achyranthes aspera Linn.
In flowers, 17-1-1961, Point Calimere, Ellis 11747.

Aerva lanata (Linn.) Juss.
In flowers, 7-8-1960, Point Calimere, Sebastine 10618.

Allmania nodiflora R. Br. var. procumbens Hook. f.
In flowers, 11-8-1960, Manganipillayar thope, near Talaignayar, Sebastine 10682.

Alternanthera paronychoides St. Hill.
In flowers, 11-8-1960, Pinchenkotagam, near Talaignayar, Sebastine 10677.

Comphrena celosioides Mart.
In flowers, 20-1-1961, near Vedharanyam Township, Ellis 11812.

CHENOPODIACEAE

Arthrocnemum indicum Moq.
In flowers, 18-1-1961, Point Calimere, on the sea shore near marshy places, Ellis 11762.

Suaeda monoica Forsk.
In flowers, 8-8-1960, Kodiakadu, Vedharanyam, Sebastine 10632.

S. nodiflora Moq.
In flowers, 7-8-1960, Sea shore, Point Calimere, Sebastine 10619.

ARISTOLOCHIACEAE

Aristolochia bracteata Retz.
In flowers, 10-8-1960, Point Calimere, Sebastine 10656.

LAURACEAE

Cassytha filiformis Linn.
In flowers, 19-1-1961, Kodiakadu, Vedharanyam, Ellis 11794.

LORANTHACEAE

Dendrophthoe falcata (Linn. f.) Etting.
In flowers, 9-8-1960, Ramarpadam, Vedharanyam, Sebastine 10642.

Viscum capitellatum Sm.
In flowers, 21-1-1961, Kodiakadu, Vedharanyam, Ellis 11819.

V. orientale Willd.
In flowers, 9-8-1960, Muniappaneri, Vedharanyam, Sebastine 10647.

EUPHORBIACEAE

Acalypha indica Linn.
In flowers, 11-8-1960, Pinchenkotagam, near Talaignayar, Sebastine 10673.

Croton bonplandianum Baill.
In flowers, 8-8-1960, near Light House, Sebastine 10633.

Drypetes sepalaria (Wt. & Arn.) Pax et K. Hoffm.
In flowers, 19-1-1961, Kodiakadu, Vedharanyam, Ellis 11792.

Euphorbia antiquorum Linn.

Excoecaria agallocha Linn.
In female flowers, 19-1-1961, Point Calimere, Ellis 11784; in female flowers, 9-8-1960, Muniappaneri, Sebastine 10649; in male flowers, 9-8-1960, Sebastine 10648.

E. hirta Linn.
In flowers, 15-8-1960, Point Calimere, Sebastine 10715.
Excoecaria microphylla Heyne
In flowers, 10-8-1960, Point Calimere, Sebastine 10652.

Jatropha curcas Linn.
In flowers, 13-8-1960, Point Calimere, Sebastine 10653.

J. goosypifolia Linn.
In flowers, 7-8-1960, Point Calimere, Sebastine 10658, 10659.

J. tanjorensis Ellis et Saroja
In flowers, 21-1-1961, Kallimedu, near Talaignayar, Ellis 11809.
Note: This taxon is allied to J. glandulifera Roxb. but differs in having leaves lobed above the middle, stipules shorter with a few filiform glandular divisions, flowers polygamous and petals connate to one third their length at the base in bisexual flowers.

Kirganelia reticulata Baill.
In flowers, 19-1-1961, Point Calimere, Ellis 11785.

Micrococa mercurialis Benth.
In flowers, 23-1-1961, Point Calimere, Ellis 11832.

Phyllanthus niruri Linn.
In flowers, 18-1-1961, near Light House, Ellis 11781.

P. rotundifolius Klein.
In flowers, 10-8-1960, Point Calimere, Sebastine 10654.

Securinega leucopterus (Willd.) Muell.-Arg.
In flowers, 8-8-1960, Kodiakadu, Vedharanyam, Sebastine 10656.

Synostemon bacciforme (Linn.) Webster.
In flowers, 10-8-1960, Point Calimere, Sebastine 10655.

MORACEAE

Ficus benghalensis Linn.
In syconia, 12-8-1960, Manganipillayar thope, near Talaignayar, Sebastine 10687.

F. hispida Linn.
In syconia, 12-8-1960, Manganipillayar thope, near Talaignayar, Sebastine 10688.

Placospernum spinosum Trec.
In flowers, 13-8-1960, Kodiakadu, Vedharanyam, Sebastine 10704.

URTICACEAE

*Flearya interrupta Gaud.
In male flowers, 23-1-1961, Point Calimere, Ellis 11830.

CASUARINACEAE

Casuarina equisetifolia Forst.
In male flowers, 17-1-1961, Point Calimere, Vedharanyam, Ellis 11752; in female flowers, 17-1-1961, Ellis 11755.

HYDROCHARITACEAE

Ottelia alismoides (Linn.) Pers.
In flowers, 20-1-1961, Kallimedu, Vedharanyam, Ellis 11808.

Vallisneria spiralis Linn.
In flowers, 11-8-1960, Pinchenkotagam, near Talaignayar, Sebastine 10674.

ORCHIDACEAE

Vanda tessellata Hook.
In flowers, 13-8-1960, Kodiakadu, Vedharanyam, Sebastine 10698.

LILIACEAE

Asparagus racemosus Willd.
In flowers, 21-1-1961, Kodiakadu, Vedharanyam, Ellis 11815.

Gloriosa superba Linn.
In flowers, 19-1-1961, near Light House, Vedharanyam, Ellis 11775.

COMMELINACEAE

Aniclema dimorphum Dalz.
In flowers, 17-1-1961, Point Calimere, Ellis 11759.

Commelina attenuata Koenig
In flowers, 17-1-1961, Point Calimere, Ellis 11746.

Cyanotis papilionacea Schult. f.
In flowers, 17-1-1961, Point Calimere, Vedharanyam, Ellis 11751.

PALMACEAE

Phoenix pusilla Gaertn.

PANDANACEAE

Pandanus tectorius Soland.
In female flowers, 17-1-1961, Point Calimere, near the sea shore, Ellis 11757.

APONOGETONACEAE

Aponogeton natans Engl.

NAJADACEAE

*Najas graminea Del.
In flowers and fruits, 19-1-1961, Agasthayampallii, Ellis 11802.
ERIOTHERIACEAE
Eriocaulon quinquangularare Linn.
In glumes, 18-1-1961, Point Calimere, Ellis 11765.

CYPERACEAE
Bulbostylis baritinus Kunth
In glumes, 15-8-1960, Point Calimere, Sebastine 10721.

Cyperus arcuarius Retz.
In glumes, 15-8-1960, Point Calimere, Sebastine 10707.

C. arizatus Rottb.

C. compressus Linn.
In glumes, 23-1-1961, Point Calimere, Ellis 11827.

C. deformis Linn.
In glumes, 20-1-1961, Thalaignayar, Ellis 11803.

C. exaltatus Retz.
In glumes, 11-8-1960, Pinchenkotagam, near Talaignayar, Sebastine 10663.

Fimbristylis ferruginea (Linn.) Vahl
In glumes, 11-8-1960, Vellanganny, near Talaignayar, Sebastine 10667.

F. miliaea (Burm. f.) Vahl
In glumes, 11-8-1960, Pinchenkotagam, near Talaignayar, Sebastine 10667.

F. polytrichoides R. Br.
In glumes, 7-8-1960, Beach, Point Calimere, Sebastine 10620.

Kylinga monochrome (Rottb.
In glumes, 19-1-1961, Point Calimere, Ellis 11783.

Scirpus squarrosum Linn.

GRAMINEAE
Aeluropus lagopoides (Linn.) Trim.
In glumes, 18-1-1961, Point Calimere, on the sea shore, Ellis 11761.

Aristida setacea Retz.
In glumes, 12-8-1960, Point Calimere, Sebastine 10697.

Chloris barbata Sw.
In glumes, 15-8-1960, Point Calimere, Sebastine 10708.

Cynodon dactylon (Linn.) Pers.
In glumes, 23-1-1961, Point Calimere, Ellis 11846.

Dactyloctenium aegyptium (Linn.) P. Beauv.
In glumes, 23-1-1961, Point Calimere, Ellis 11836.

Eragrostis tenella (Linn.) P. Beauv. ex Roem. & Schult.
In glumes, 15-8-1960, Point Calimere, Sebastine 10720; 21-1-1961. Ellis 11835.

E. riparia (Willd.) Nees
In glumes, 7-8-1960, Point Calimere, Sebastine 10612.

Heteropogon contortus (Linn.) P. Beauv.
In glumes, 12-8-1960, Manganipillayar thope, near Talaignayar, Sebastine 10683.

Imperata cylindrica (Linn.) P. Beauv. var. major (Nees) C. E. Hubb. & ex Hubb. & Vaughan.
In glumes, 11-8-1960, Pinchenkotagam, near Talaignayar. Sebastine 10668.

* Myriostachya wightiana (Nees) Hook. f.
In glumes, 11-8-1960, Vellangenny, near Talaignayar, Sebastine 10662.

Ophiurus exaltatus (Linn.) O. Ktze.
In glumes, 11-8-1960, Pinchenkotagam, near Talaignayar, Sebastine 10670.

Oplismenus burmannii (Rottb.) P. Beauv.
In glumes, 23-1-1961, Point Calimere, Ellis 11831.

O. compositus (Linn.) P. Beauv.
In glumes, 19-1-1961, Kodiakadu, Vedharanyam, Ellis 11703.

Perois indica (Linn.) O. Ktze.
In glumes, 12-8-1960, Manganipillayar thope, near Talaignayar, Sebastine 10685.

Saccharum spontaneum Linn.
In glumes, 20-1-1961, Kallimedu, near Talaignayar, Ellis 11806.

Sacciolepis indica (Linn.) A. Chase
In glumes, 23-1-1961, on compound walls of Forest Bungalow, Point Calimere, Ellis 11851.

Spinifex littoreus (Burm. f.) Merr.
In male flowers, 16-1-1961, Point Calimere, on the sea shore, Ellis 11760; in female flowers, 23-1-1961. Ellis 11844.

Zoysia matrella (Linn.) Merr.
In glumes, 7-8-1960, Beach, Point Calimere, Sebastine 16000.

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