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## A Check List of Angiosperm Flora of Farasan Islands, Kingdom of Saudi Arabia

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**Abstract:** Determination of the specimens of angiosperms collected from the Islands resulted in 21 new records for the Farasan group. A check list is prepared with 133 species in 98 genera belonging to 51 families incorporating the previous records. Current nomenclature of each taxon was provided with important synonyms and arabic names. The habit and nature of world-wide distribution of each species are also given.

**Key words:** Check list, angiosperm flora, Farasan islands, Saudi Arabia

### Introduction

The Red Sea Islands, commonly known as Farasan Islands, are located at the southern part of the Red Sea in a geographic position between 16° 20 to 17° 20 N latitude and 41° 24 to 42° 26 E longitude at an elevation of 0° to 70 m. The islands belong to Jizan district of Saudi Arabia, about 45 km off the Jizan port and cover an overall area of about 600 sq. km. The Farasan Islands are composed of some large and a number of small coral islands of which the prominent islands are: the Farasan Al-Kabir, Sajid, Qummah, Zifaf, Ad-Disan and Dumuq. The first three are the permanently inhabited islands with a population of about 4500 and the remaining serve as places of rest for local fishermen (Alwelaie *et al.*, 1993).

There are a number of published reports on the geology and vegetation of the Farasan archipelago (Fig. 1) made by several workers, such as, Dabbagh *et al.* (1984), Collette (1985), Abulfatih (1992), Alwelaie *et al.* (1993), Hussain and Khoja (1993) and Hassan and Al-Hemaid (1996).

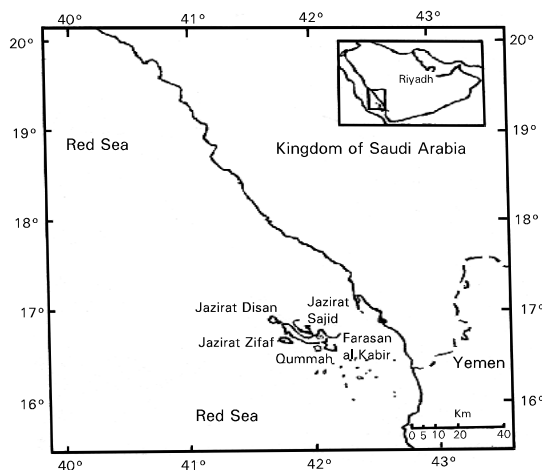


Fig. 1: Map of Farasan Islands

According to Dabbagh *et al.* (1984), the islands were uplifted during the Miocene Era and that the tectonic of the Pleistocene had resulted due to the widening of the Red Sea and thus implying the existence of a previous single land mass. Alwelaie *et al.* (1993) concluded that the islands merely separate the continents of Asia and Africa and thus implying two separate continents. Hassan and

Al-Hemaid (1996) studied the vegetation of the Farasan on the basis of plant migration and concluded that the species appeared to belong to the main Arabian Peninsula flora which was mostly African origin and that the Farasan islands lie some 200 km off the East African coast and about 60-65 km off the western Arabian Peninsula.

Alwelaie *et al.* (1993) recorded 59 species and 50 genera in 33 families from Farasan Islands of which 12 species and 11 genera were in 5 monocot families. Hassan and Al-Hemaid (1996) listed 44 species and 41 genera in 22 families from Farasan Al-Kabir of which 8 species from 6 families were new records for the islands. Later Collette (1999) in her wild flowers of Saudi Arabia listed 61 species and 53 genera in 29 families (including 6 species in 4 monocot families) from Farasan group of which 43 species in 23 families were new records for islands.

### Material and Methods

**Study area:** The Farasan is the largest island of the Farasan archipelago, situated in a geographical location of 16° 42 N latitude and 42° 06 E longitude at an elevation of 0 to 30 m but reaching up to 70 m with some hills formed by coral rocks. This island covers an area of about 369 km<sup>2</sup> (perimeter 215 km) and is about 66 km long and 6-8 km wide and connected to the Sajid island by a 300 m long bridge. The Sajid is the second largest island and covers an area of about 109 km<sup>2</sup> (perimeter 98 km). The Farasan and Sajid Islands together form a largest area of the Farasan group of coral island with some soil formation which influences the development of vegetation. The rest of the islands consists of flat or broken fossil coral surfaces, often with large or small fossil coral sinkholes (Alwelaie *et al.*, 1993).

**Method:** Very recently, visit was made to the Islands in March 2002 from College of Pharmacy, King Saud University, Riyadh and a thorough survey of the vegetation was done. The specimens so far we came across were collected. All collections were preserved at the herbarium of the College of Pharmacy, KSU.

There had been several trips to the islands also during 1984, 1985 and 2000 and the collections were available at the herbarium of the College of Pharmacy, KSU

A critical examination of all the specimens has been made for identification at the herbarium of the College of Pharmacy with the consultation of the National herbarium of Saudi Arabia (RIY).

Specimens were being recognized here to represent the flora of Farasan Islands and a checklist was prepared with these species. In the check list, current nomenclature of each taxon is provided along with common synonyms, Arabic names, so far known and citing the author with year of first record from the islands. The habit of the plants and their nature of world-wide distribution, viz. cosmopolitan, pantropical, tropical etc., are also indicated.

The families were arranged according to the system of Cronquist

(1981) modified by Kubitzki (1990) and appeared in Mabberley (1997). The genera and species in each family were arranged alphabetically.

The species marked with an asterisk (\*) indicates the new record for the Islands.

## Results and Discussion

The mangrove formation in the coasts of both Farasan and Zifaf Islands were with *Rhizophora mucronata* and *Avicennia marina* (Fig. 2).



Fig. 2: Mangrove formation with *Rhizophora mucronata* Lam.



Fig. 3: *Euphorbia fractiflexa* Carter and Wood



Fig. 4: *Desmidorchis retrospiciens* (Forssk) Ehrb.



Fig. 5: *Limonium axillare* (Forssk) Kuntz

The most dominant species throughout Farasan and Sajid islands were *Limonium axillare* (Fig. 5) *Suaeda monoica*, *Zygophyllum album*, *Z. coccineum*, *Halopeplis perfoliata*, *Capparis spinosa* and *C. cartilaginea* etc.

Near the beaches, the common species were *Atriplex ferinosa*, *Suaeda monoica*, *Halopeplis perfoliata*, *Portulaca oleracea* etc. In most of the abandoned fields there were bushy thickets of *Indigofera caerulea*, *I. oblongifolia*, *I. spinosa*, *I. semitrijuga*, *Astragalus* sp. etc. *Commiphora opobalsamum*, *Maytenus parviflora*, *M. somalensis* etc. formed thickets in many scattered places. Some scattered clumps were also formed in both Farasan and Sajid islands by *Euphorbia fractiflexa* (Fig. 3) and *Desmidorchis retrospiciens* (Fig. 4).

Grasses and sedges were a few and *Aeluropus lagopoides* among them was more common.

Determination of the specimens and survey of literature showed that 21 species under 19 genera belonging to 15 families were not previously recorded in any work and hence these were the new records for Red Sea Islands. All these species appeared to be the part of main Arabian Peninsula flora, most of which were the elements of Africa.

A total of 133 species and 98 genera in 51 families (including 21 species and 18 genera from 6 monocot families) were determined.

## Check list

### Dicotyledonae

**Memispermaceae:** *Cocculus pendulus* (Forster) Diels; *Epibatrium pendulum* Forster; Alwelaie *et al.* (1993); a woody climber; pantropical.

Arabic name: *Labakh Al-Jabar*; *Kathan*

**Caryophyllaceae:** *Polycarpha spicata* Wight and Arn.; *Polycarpha staticiformis* Hochst. and Steudel; Alwelaie *et al.* (1993); a small erect annual herb; pantropical

Arabic name: *Rikhat Muker*

**Aizoaceae:** \**Trianthema portulacastrum* L.; *T. monogyna* L.; a prostrate annual herb; pantropical

Arabic name: *Laani*

*T. sheilae* Miller; Collette (1999); bushy annual or perennial herb; warm temperate

Arabic name: not known

**Amaranthaceae:** *Aerva javanica* (Burm.f.) Juss.ex Schultes; *Iresine javanica* Burm.f.; Alwelaie *et al.* (1993); a perennial herb or subshrub; tropical.

Arabic name: *Arwa*, *Ra*, *Tarfa*, *Tuwwaym*

\**Amaranthus viridis* L.; an erect annual herb; both tropical and temperate

Arabic name: *Shadakh*, *Sinder*, *Santeen*, *Shaeb*, *Da'ad*

*Nothosaerva brachiata* (L.) Wight; *Achyranthus brachiata* L.; Collette (1999); annual herb; tropical.

Arabic name: not known

**Chenopodiaceae:** *Atriplex farinosa* Forssk.; *A. hastate* Forssk.; Alwelaie *et al.* (1993); a perennial herb; pentropical.

Arabic name: *Osfai*, *Waadah*, *Ralle*

*A. halimus* L.; Collette (1999); a perennial shrub; pentropical.

Arabic name: *Qataf*.

*Comulaca ehrenbergii* Asch.; Alwelaie *et al.* (1993); shrub; pantropical.

Arabic name: *Hade*

*Halopeplis perfoliata* (Forssk.) Bunge. ex Schweinf.; *Salicornia perfoliata* Forssk.; Alwelaie *et al.* (1993); a perennial succulent shrub; tropical.

Arabic name: *Khurrayz*, *Melah-Ratrite*

*Suaeda aegyptica* (Hasselq.) Zohar; *Chenopodium aegypticum* Hasselq.; Collette (1999); annual succulent herb; tropical.

Arabic name: *Mulleih*, *Suwwad*, *Hatlas*, *Qulman*, *Khareiza*

*S. fruticosa* Forssk. Ex Gmel.; Alwelaie *et al.* (1993); perennial shrub; pantropical.

Arabic name: *Suwaidaa*, *Hembth*

*S. monoica* Forssk. ex Gmelin; Alwelaie *et al.* (1993); a large shrub; pan-tropical (warm temperate).

Arabic name: *Asal*, *Sawad*, *Homide*

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\**S. vermiculata* Forssk. ex Gmelin; perennial succulent shrub; pantropical.  
Arabic name: *Suwwad, Tahma*

**Portulacaceae:** \**Portulaca oleracea* L.; prostrate annual herb; pantropical.  
Arabic name: *Rijla, Baqla*

**Plumbaginaceae**

*Limonium axillare* (Forssk.) Kuntze; *Statice axillaries* Forssk Alwelaie *et al.* (1993); small shrub; tropical and pantropical.  
Arabic name: *Qataf, Shalef*  
*L. cylindrifolium* (Forssk.) Verdc.; *Statice cylindrifolium* Forssk.; Alwelaie *et al.* (1993); a perennial herb; pantropical.  
Arabic name: *ksbe*

**Cucurbitaceae:** \**Citrullus colocynthis* (L.) Schrad.; *Cucumis colocynthis* L. a herbaceous prostrate vine; tropical and pantropical.  
Arabic name: *Sharee, Handhal*  
*Cucumis melo* L. var. *agrestis* Naud.; Alwelaie *et al.* (1993); a perennial trailing herb; cold temperate.  
Arabic name: *Sharee, Kharsh, Shammam*  
*Cucumis prophetarum* L.; *C. mascatensis* Gand.; Collenette (1999); a perennial trailing herb; tropical  
Arabic name: *Sharee, Aldheeb, Dheeb*

**Tiliaceae:** *Corchorus depressus* (L.) Stocks; Alwelaie *et al.* (1993); a prostrate perennial herb; tropical.  
Arabic name: *Sateeh, Wekat*  
*Grewia tenax* (Forssk.) Fiori; *Chadara tenax* Forssk.; Alwelaie *et al.* (1993); a scrambling to erect shrub; tropical.  
Arabic name: *Khaddar, Shohat*

**Malvaceae:** *Abutilon figarianum* Webb; Collenette (1999); perennial undershrub; tropical  
Arabic name: *Rine*  
\**A. muticum* (Del. ex DC) Sweet; *A. asiaticum* Guill. & Perr.; perennial herb; pantropical  
Arabic name: *Akran*  
*A. pannosum* (Forst.f.) Schlecht.; *Sida pannosa* Forst.; Alwelaie *et al.* (1993); perennial herb; pantropical.  
Arabic name: *Gargad, Gargadan*  
*Fioria dictyocarpa* (Hochst.) Mattei; *Pavonia dictyocarpa* Hochst.; Collenette (1999); an erect woody herb; warm temperate.  
Arabic name: not known  
\**Gossypium hirsutum* L.; annual to perennial; cultivated; tropical  
*Pavonia arabica* Hochst. ex Steud.; Collenette (1999); perennial herb; pantropical.  
Arabic name: not known

**Moraceae:** *Ficus cordata* ssp. *salicifolia* (Vahl) Berg; *F. salicifolia* Vahl; Alwelaie *et al.* (1993); a small tree; tropical and warm temperate.  
Arabic name: *Hamate, Tha'ab*  
*F. glumosa* Del.; Collenette (1999); a branched shrub or small tree; tropical.  
Arabic name: *Athab*  
*F. populifolia* Vahl; *Urostigma populifolia* (Vahl) Miq.; Collenette (1985); a small tree; both tropical and warm temperate.  
Arabic name: *Vudah, Mudah*

**Urticaceae:** *Forsskaolea viridis* Ehrenb.; Collenette (1999); an annual herb; tropical.  
Arabic name: *Lassage*

**Euphobiaceae:** *Dalechampia scandens* var. *cordofana* (Hocst. Ex Webb) Muell.; Collenette (1999); twining herb; tropical.  
Arabic name: not known  
*Euphorbia fractiflexa* Carter and Wood.; Alwelaie *et al.* (1993); a spiny leafless succulent; warm temperate.  
Arabic name: *Halibe, Alboom, Harmale*  
*Flueggea leucopyrus* Willd.; *Phyllanthus leucophylla* (Willd.) Koenig ex Roxb.; Collenette (1999); a dioecious shrub;

pantropical.  
Arabic name: \**F. virosa* (Roxb. ex Willd.) Voigt.; *Phyllanthus virosus* Roxb. ex Willd.; *F. microcarpa* Blume; a dioecious shrub or small tree; sub-tropical.  
Arabic name: not known  
\**Jatropha glauca* Vahl; *Croton lobatum* sensu Forssk non L.; *J. lobata* (Forssk.) Muell.; shrub, sub-tropical.  
Arabic name: *Medjersche, Obab*  
*Micrococca mercurialis* (L.) Benth.; *Tragia mercurialis* L.; Collenette (1999); annual erect herb; tropical.  
Arabic name: not known  
\**Phyllanthus maderaspatensis* L.; a monoecious annual or perennial herb; tropical  
Arabic name: not known  
\**P. rotundifolius* Klein ex Willd.; a monoecious annual herb; sub-tropical.  
Arabic name: *Araq Qaat, Haleeb.*

**Ericaceae:** \**Erica arborea* L.; a small tree; both tropical and warm temperate.  
Arabic name: *Shandhaf, Khulanj Shajri*

**Residaceae:** *Ochradenus baccatus* Del.; Hassan & Al-Hemaid (1996); dioecious or polygamous shrub; warm temperate  
Arabic name: *Qardha*

**Capparidaceae:** \**Cadaba longifolia* DC.; a large shrub; tropical.  
Arabic name: *Ghassa, Matlawi*  
*C. rotundifolia* Forssk.; Alwelaie *et al.* (1993); a large shrub; tropical and warm temperate.  
Arabic name: *Gutbe, Qadhab*  
*Capparis cartilaginea* Decne; *C. sinaica* Veill.; Alwelaie *et al.* (1993); a spiny shrub; warm temperate.  
Arabic name: *Shafallah, Laasf*  
*C. deciduas* (Forssk.) Edgew.; *Sodada decidua* Forssk.; *Capparis aphylla* Roth; Alwelaie *et al.* (1993); a large shrub; tropical  
Arabic name: *Tandhab, Sodad*  
\**C. spinosa* var. *mucronifolia* (Boiss) Hedge and Lamond; *C. aegyptica* Lam.; spiny shrub; warm temperate.  
Arabic name: *Shafallah, Kabar, Lasaf*  
*Cleome brachycarpa* Vahl ex DC.; *C. brevisiliqua* Schultes, f.; *C. vahliana* Fresen; Alwelaie *et al.* (1993); perennial herbaceous shrub; tropical.  
Arabic name: *Zefrah*  
*C. noeana* Boiss; Collenette (1999); perennial herb; warm temperate.  
Arabic name: not known  
*Maerua oblongifolia* (Forssk.) A.Rich; *Capparis oblongifolia* Forssk.; Alwelaie *et al.* (1993); a scandant shrub; tropical.  
Arabic name: *Sarh*

**Salvadoraceae:** *Salvadora persica* L.; *S. wightiana* Planch. ex Thwaites; Alwelaie *et al.* (1993); a branched shrub; warm temperate.  
Arabic name: *Araake, Siwak, Miswak*

**Saxifragaceae:** *Vahlia digyna* (Retz.) Kuntz.; Collenette (1999); herb; warm temperate.  
Arabic name: not known

**Mimosaceae:** *Acacia ehrenbergiana* Hayne; *Mimosa flava* Forssk.; Alwelaie *et al.* (1993); small tree; warm temperate.  
Arabic name: *Salam*  
*A. tortilis* (Forssk.) Hayne; *Mimosa tortilis* Forssk.; Hassan and Al-Hemaid (1996); a large shrub; warm temperate.  
Arabic name: *Samar*  
*Prosopis juliflora* (SW) DC.; *Mimosa juliflora* SW; Collenette (1999);  
Arabic name: *Prosopis*

**Caesalpinaceae:** Arabic name: *Sanna Makki*  
*S. holosericea* (Fresen) Greuter; *Cassia holosericea* Farsen; Alwelaie *et al.* (1993); herbaceous shrub; tropical and subtropical.  
Arabic name: *Ashrake*

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**Fabaceae:** *Alysicarpus glutameus* (Vahl) DC; *Hedysarum glutameus* Vahl; Collenette (1999); a branched herb; tropical.

Arabic name: not known

*Argyrolobium* sp.; Collenette (1999); a perennial shrublet.

Arabic name: not known

\**Astragalus* sp.; a bushy shrub Arabic name: not known  
*Indigofera caerulea* Roxb.; Alwelaie *et al.* (1993); a bushy shrublet; tropical

Arabic name: *Nelah*

*I. linifolia* (L.f.) Retz.; *Hedysarum linifolium* L.f.; Collenette (1999); prostrate annual herb; tropical and subtropical.

Arabic name: not known

*I. oblongifolia*; *I. Pauciflora* Del.; Alwelaie *et al.* (1993); a robust shrublet; tropical.

Arabic name: *Dasam, Hasa'f*

*I. spinosa* Forssk.; Alwelaie *et al.* (1993); much branched spiny shrub; tropical.

Arabic name: *Subrg, Qataf, Hil, Qasar*

*I. semitrijuga* Forssk.; *I. somalensis* Vatke; Collenette (1999); semi-prostrate herb; warm temperate.

Arabic name: not known

*Rhynchosia minima* (L.) DC.; *Dolichos minimus* L. Alwelaie *et al.* (1993); perennial herb; tropical and subtropical

Arabic name: not known

*Tephrosia purpurea* (L.) Pers.; *Cracca purpurea* L.; Alwelaie *et al.* (1993); perennial herb; tropical.

Arabic name: *Barsime aljable*

*Taverniera cuneifolia* (Roth) Arn.; *Hedysarum cuneifolium* Roth; Collenette (1999); shrub; tropical.

Arabic name: not known

*T. lappacea* (Forssk.) DC.; *Hedysarum lappaceum* Forssk.; Collenette (1999); a subshrub; tropical and subtropical.

Arabic name: *Hab-Al-adkir.*

**Lythraceae:** *Ammania baccifera* L.; *A. aegyptiaca* Willd.; Collenette (1999); annual branched herb; cosmopolitan.

Arabic name: not known.

**Rhizophoraceae:** *Rhizophora mucronata* Lam.; Alwelaie *et al.* (1993); tree, tropical coastal (mangrove).

Arabic name: *Qandal.*

**Celastraceae:** \**Maytenus parviflora* (Vahl) Sebsebe; *Celastrus parviflorus* Vahl.; a spiny shrub; warm temperate.

Arabic name: not known

\**M. senegalensis* (Lam.) Exell; *Celastrus senegalensis* Lam.; large shrub or small tree; tropical and subtropical.

Arabic name: not known

*M. somalensis* (Loes.) Cufod.; Alwelaie *et al.* (1993); small tree, subtropical.

Arabic name: not known.

**Rhamnaceae:** *Ziziphus spina-christi* (L.) Wild.; *Rhamnus spina-christi* L.; Alwelaie *et al.* (1993); tree.

Arabic name: *Sider.*

**Vitaceae:** *Cissus quadrangularis* L.; Alwelaie *et al.* (1993); climbing herb; tropical.

Arabic name: *Sala.*

**Polygalaceae:** *Polygala erioptera* DC.; *P. thurmanniana* Chodat; Collenette (1999); perennial herb; tropical and subtropical.

Arabic name: not known

*Polygala* sp.; Alwelaie *et al.* (1993); perennial herb.

Arabic name: not known.

**Burseraceae:** *Commiphora erythraea* (Ehrenb.) Engler; Alwelaie *et al.* (1993); tree; Tropical and subtropical.

Arabic name: not known

*C. opobalsamum* (L.) Engler; *Amyris opobalsamum* L.; *A. gileadensis* Roxb.; *C. gileadensis* (Roxb.) Christensen; Alwelaie *et al.* (1993); small tree; warm temperate.

Arabic name: *Allege, Bisham, Balsam, Risha'a.*

**Zygophyllaceae:** \**Zygophyllum album* L.f.; perennial shrub; warm

temperate.

Arabic name: *Bolble, Ratreet*

*Z. coccineum* L.; Alwelaie *et al.* (1993); perennial shrublet; warm temperate.

Arabic name: *Batbat, Harme, Ratreet.*

*Z. simplex* L.; Alwelaie *et al.* (1993); annual much branched herb; subtropical.

Arabic name: *Hirme, Qarmal*

**Periplocaceae:** *Leptadenia pyrotechnica* (Forssk.) Decne; Hassan and Al-Hemaid (1996); leafless shrub, tropical.

Arabic name: *Markh*

**Asclepiadaceae:** *Calotropis procera* (Ait.) Ait.f.; *Asclepias procera* Ait; Hassan and Al-Hemaid (1996); a large branched shrub; tropical.

Arabic name: *Ushaar*

*C. edulis* (Edgew.) Benth.ex Hook.f.; *Boucerosia edulis* Edgew.; *Cryptolluma edulis* (Edgew.) Plowes; Collenette (1999); rounded angle succulent; warm temperate.

Arabic name: *Asnab, Daghabees, Gadmal*

*Desmidorchis retrospiciens* (Forssk.) Ehrenb.; *Caralluma retrospiciens* Forssk.; *C. resueliana* (Courb.ex Brongn.) Cufod.; Alwelaie *et al.* (1993); 4-angled succulent, tropical and warm temperate.

Arabic name: *Galthy*

*Glossonema* sp. aff. *boveanum* (Decne) Decne; Collenette (1999); perennial branched herb; tropical and warm temperate.

Arabic name: *Kabesh*

*Pentatropis spiralis* (Forssk.) Decne; *Asclepias spiralis* Forssk.; Alwelaie *et al.* (1993); a woody twiner; tropical.

Arabic name: not known.

**Solanaceae:** *Solanum surratense* Burm.f.; Collenette (1999); leafy herb; subtropical.

Arabic name: *Bgyne.*

**Convolvulaceae:** *Convolvulus glomeratus* Choisy; *C. arabicus* Hochst ex Hall.f.; Alwelaie *et al.* (1993); perennial prostrate herb; subtropical.

Arabic name: *Rakhame*

*C. pilosellifolia* Desr.; Collenette (1999); perennial prostrate herb; warm temperate.

Arabic name: *Khatame*

*Cuscuta pedicellata* Ledeb.; Collenette (1999); perennial herb over other plants; warm temperate.

Arabic name: not known

*Ipomoea hochstetteri* House; *I. quinquefolia* Hall. f.; Collenette (1999); twining herb; subtropical.

Arabic name: not known

\**I. sinensis* ssp. *blepharosepala* (Rich) Meeuse; *I. Blepharosepala* Rich; *I. Cardiosepala* Bak. and Wright; a tangled trailing herb; subtropical.

Arabic name: not known

**Boraginaceae:** *Heliotropium zeylanicum* (Burm.f.) Lam.; Collenette (1999); perennial herb; subtropical.

Arabic name: not known.

**Verbenaceae:** \**Chascanum marrubifolium* Fenzl ex Walp.; *Bouchea marrubifolia* (Fenzl ex Walp.) Scau.; a branched herbaceous undershrub; tropical and subtropical.

Arabic name: not known

*Premna resinosa* (Hoochst.) Schau.; *Holochiloma resinosa* Hochst.; Hassan and Al-Hemaid (1996); a much branched shrub; tropical.

Arabic name: *Shaqab.*

**Avicenniaceae:** *Avicennia marina* (Forssk.) Vierh.; *Sceura marina* Forssk.; Alwelaie *et al.* (1993); a mangrove tree with pneumatophore; tropical and subtropical.

Arabic name: *Shoura-Qarm.*

**Labiatae:** \**Ajuga arabica* Davis; bushy subshrub; endemic.

Arabic name: *Wabaira*

*Basilicum polystachion* (L.) Moench; *Ocimum polystachion* L.;

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*Plectranthus parviflorus* Willd.; Collenette (1999); a much branched herb; tropical and subtropical.  
Arabic name: not known  
\**Leucas urticifolia* (Vahl) R.Br.; *Phlomis urticifolia* Vahl; herb; subtropical.  
Arabic name: *Amogdah*

**Scrophulariaceae** *Kickxia corallicola* Sutton; Alwelaie *et al.* (1993); a scandent perennial herb; endemic.  
Arabic name: not known  
*Lindenbergia indica* (L.) Vatke; *Dodartia indica* L.; *L. abyssinica* Hochst.; Collenette (1999); woody based perennial herb; tropical and subtropical.  
Arabic name: not known  
*Striga* sp.; Collenette (1999); herb.  
Arabic name: not known.

**Orobanchaceae:** *Cistanche phelypaea* (L.) Cout.; *Lathraea phelypaea* L.; *C. tabulosa* (Schenk) Hook.f.; Collenette (1999); a succulent perennial; subtropical.  
Arabic name: *Bassole*.

**Acanthaceae:** *Blepharis ciliaris* (L.) Burt; *Ruellia ciliaris* L.; Alwelaie *et al.* (1993); much branched perennial herb; tropical.  
Arabic name: *Naqee, Zughaf*  
*Ecbolium viride* (Forssk.) Alston; *Justicia viridis* Forssk.; *J. rotundifolia* Nees; Collenette (1999); herb, tropical.  
Arabic name: *Khussair, Madair, Maraidah*.

**Asteraceae:** *Launaea intybacea* Jacq.) Beauverd; *Lactuca intybacea* Jacq.; Alwelaie *et al.* (1993); herb; cosmopolitan.  
Arabic name: *Bagra*  
*L. procumbens* (Roxb.) Rom. and Raj.; *Prenanthes procumbens* Roxb.; Collenette (1999); perennial herb; cosmopolitan.  
Arabic name: *Bagra*

**Rubiaceae:** *Kohautia caespitosa* Schnitzl.; *Hedyotis schimperi* Presl. Alwelaie *et al.* (1993); perennial herb with woody base; tropical.  
Arabic name: *Takwee*.

**Monocotyledonae**  
Palmae: *Hyphaene thebaica* (L.) Mart.; Alwelaie *et al.* (1993); small tree, warm temperate.  
Arabic name: *Dome*.

**Juncaceae:** *Juncus rigidus* Mey.; Hassan and Al-Hemaid (1996); annual grass, temperate.  
Arabic name: *Halfa*.

**Cyperaceae:** *Cyperus bulbosus* Vahl; Collenette (1999); an annual herb; subtropical and warm temperate.  
Arabic name: *Sade*  
*C. conglomeratus* Rottb.; Alwelaie *et al.* (1993); an annual herb; subtropical and warm temperate.  
Arabic name: *Thendh*  
*C. jemicus* Rottb.; Alwelaie *et al.* (1993); an annual herb; subtropical.  
Arabic name: *Sade*

**Gramineae (Poaceae):** *Aeluropus lagopoides* (L.) Trin. ex Thwaites; *Dactylis lagopoides* L.; Alwelaie *et al.* (1993); a perennial rhizomatous grass, sub tropical.  
Arabic name: *Iqrish, hirraib*  
*Cynodon dactylon* (L.) Pers.; *C. occidentalis* Willd. ex Steud.; Hassan and Al-Hemaid (1996); a perennial rhizomatous grass; tropical and warm temperate.  
Arabic name: *Thayyal, Najil*  
*Dichanthium faveolatum* (Delile) Roberty; *Andropogon faveolatum* Delile; Alwelaie *et al.* (1993); perennial grass; sub tropical and warm temperate.  
Arabic name: not known  
*Dinebra retroflexa* (Vahl) Panzer; *Cynosurus retroflexa* Vahl; Collenette (1999); annual grass; sub tropical and warm temperate.  
Arabic name: *Danaib, Dhanab*  
*Drake-Brockmania somalensis* (Hackel) Stapf; *Eleusine somalensis*

Hackel; *E. tenella* L.; Collenette (1999); annual grass, warm temperate.  
Arabic name: not known  
*Eragrostis lepida* (Rich) Hochst. ex Steud.; *Poa lepida* Rich; Collenette (1999); annual grass; temperate (tropics)  
Arabic name: not known  
*Hyparrhenia hirta* (L.) Stapf; *Andropogon hirtus* L.; Alwelaie *et al.* (1993); perennial grass; sub tropical.  
Arabic name: *Sakhber*  
*Panicum turgidum* Forssk.; Alwelaie *et al.* (1993); perennial grass; temperate.  
Arabic name: *Ithmam, Thamam*  
*Paspalidium desertorum* (Rich) Stapf; *Panicum desertorum* Rich; *P. arabicum* Steud.; Collenette (1999); a perennial grass; warm temperate.  
Arabic name: not known  
*Sporobolus helvolus* (Trin.) Durand and Schinz; *Vilfa helvola* Trin.; Alwelaie *et al.* (1993); perennial grass; tropical and subtropical.  
Arabic name: *Dafrah*  
*S. ioclados* (Nees ex Trin.) Nees; Hassan and Al-Hemaid (1996).  
Arabic name: not known  
*Tricholaena teneriffae* (L.f.) Link; *Saccarum teneriffae* L.f.; Alwelaie *et al.* (1993); a perennial grass; subtropical and warm temperate.  
Arabic name: *Hemthem*  
*Urochondra setulosa* (Trin.) Hubb.; *Vilfa setusa* Trin.; Alwelaie *et al.* (1993); a perennial rhizomatous grass; subtropical and warm temperate.  
Arabic name: not known.

**Asparagaceae:** *Asparagus flagellaris* (Kunth) Jessop; Alwelaie *et al.* (1993); shrub; warm temperate.  
Arabic name: *Gab*.

**Hyacinthaceae:** *Dipcadi* sp.; Collenette (1999); perennial herb.  
Arabic name: not known  
Aloaceae (Asphodelaceae) *Aloe vera* var. *officinalis* (Forssk.) Baker; Alwelaie *et al.* (1993); a succulent perennial herb; subtropical and warm temperate.  
Arabic name: *Sabar*.

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**References**

- Abulfatih, H.A., 1992. Vegetation zonation along an altitudinal gradient between sea level and 3000 meters in southwestern Saudi Arabia. *J. King Saud Univ.*, 4: 57-97.  
Alwelaie, A. N., S.A. Chaudhary and Y. Alwetaid, 1993. Vegetation of some Red Sea Islands of the Kingdom of Saudi Arabia. *J. Arid Env.*, 24: 287-296.  
Collenette, S., 1985. An illustrated Guide to the Flowers of Saudi Arabia. Metrology and Environmental Protection Administration, Kingdom of Saudi Arabia. Scorpion Publishing Ltd., London, pp: 424.  
Collenette, S., 1999. Wild flowers of Saudi Arabia. National Commission for Wildlife Conservation and Development (NCWCD), Riyadh, pp: 799.  
Cronquist, A., 1981. An integrated system of classification of flowering plants. Colombia University Press.  
Dabbagh, A.I., H. Hotzl and H. Schnier, 1984. Farasan Island. In: Quaternary Periods in Saudi Arabia. Jado, A. and I. Zotl (Eds.), Vol. 2. Springer-Verlag, Wienn and New York.  
Hassan, H.M. and F.M. Al-Hemaid, 1996. Composition, origin and migration trends of perennial vegetation in the Farasan El-Kabir Island (Red Sea), Saudi Arabia *Biol. Sci.*, 4: 5-15.  
Hussain, M.I. and T.M. Khoja, 1993. Intertidal and subtidal blue-green algal mats of open and mangrove areas in the Farasan Archipelago (Saudi Arabia), *Red Sea. Bot. Mar.*, 36: 377-388.  
Kubitzki, K., 1990. The Families and Genera of Vascular Plants. Cambridge University Press.  
Mabberley, D.J., 1997. The Plant-Book (2nd. Ed.). Cambridge University Press, pp: 777-798.