

Plant Archives

Journal homepage: http://www.plantarchives.org DOI Url : https://doi.org/10.51470/PLANTARCHIVES.2022.v22.no2.079

STUDIES ON PHYTO DIVERSITY OF MALLIKARJUN HILL ADI : A SACRED GROVE IN KARNATAKA, INDIA

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ABSTRACT Sacred groves comprise of patches of forests or natural vegetation – from a few trees to forests of several acres. Sacred groves are classified into three types 1) Traditional Sacred Groves – It is the place where the village deity resides, who is represented by an elementary symbol 2) Temple Groves – Here a grove is created around a temple and conserved. 3) Groves around the burial or cremation grounds. Sacred groves are ecologically significant because they conserve biodiversity, recharge aquifers and conserve soil. The sacred groves face some threats also, keeping all these views in mind, the present paper deals with the study of angiosperm plants diversity in "Mallikarjun hill Adi" a temple grove located in Adi Tal. Chikkodi, dist. Belgaum, Karnataka and discuss their importance in conservation of regional plant diversity and uses.

Keywords : Sacred groves, Phyto Diversity, Mallikarjun hill Adi.

Introduction

Sacred groves comprise of patches of forests or natural vegetation - from a few trees to forests of several acres - that are usually dedicated to local folk deities (eg. Ayyanar and Amman) or tree spirits Vanadevatais, Gadgil et al., 1975. These spaces are protected by local communities because of their religious beliefs and traditional rituals that run through several generations. The degree of sanctity of the sacred forests varies from one grove to another. In some forests even the dry foliage and fallen fruits are not touched. People believe that any kind of disturbance will offend the local deity, causing diseases, natural calamities or failure of crops. For example, the Garo and the Khasi tribes of northeastern India completely prohibit any human interference in the sacred groves. In other groves, deadwood or dried leaves may be picked up, but the live tree or its branches are never cut. For example, the Gonds of central India prohibit the cutting of a tree but allow fallen parts to be used. Sacred groves are classified into three types 1) Traditional Sacred Groves - It is the place where the village deity resides, who is represented by an elementary symbol 2) Temple Groves -Here a grove is created around a temple and conserved. 3) Groves around the burial or cremation grounds.

Sacred groves are ecologically significant because they 1) Conserve Biodiversity – The sacred groves are important repositories of floral and faunal diversity that have been conserved by local communities in a sustainable manner. They are often the last refuge of endemic species in the geographical region. 2) Recharge of aquifers – The groves is often associated with ponds, streams or springs, which help meet the water requirements of the local people. The vegetative cover also helps in the recharging the aquifers. 3) Soil conservation-The vegetation cover of the sacred groves improves the soil stability of the area and also prevents soil erosion.

The sacred groves have some threats; the threats vary from one region to the other and even from one grove to the other. But the common threats identified are: 1) Disappearance of the traditional belief systems, which were fundamental to the concept of sacred groves. These systems and their rituals are now considered mere superstition. 2) Sacred groves in many parts of our country have been destroyed due to rapid urbanization and developmental interventions such as roads, railways tracks, dams including commercial forestry. Encroachment has led to the shrinkage of some of the largest groves in the country. 3) Many groves are suffering due to 'Sanskritisation' or the transformation of the primitive forms of nature worship into formal temple worship. 4) Invasion by exotic weeds such as Eupatorium odoratum, Lantana camara and Prosopis juliflora is a serious threat to some groves. 5) Pressures due to increasing livestock and fuel wood collection. (ENVIS report).

Keeping all these views in mind, the present paper deals with the study of angiosperm plants diversity in "Mallikarjun hill Adi" a temple grove located in Adi Tal. Chikkodi, dist. Belgaum, Karnataka and discuss their importance in conservation of regional plant diversity and uses.

Material and Methods

Study area

Adi (Chikodi) is a village in the southern state of Karnataka, India. It is located in the Chikodi taluka of Belgaum district in Karnataka with Latitude 16.4961598 Longitude 74.3726732. (Figure-1). The average annual

rainfall recorded during 2021-22 is 808 mm. Its population is nearly 5000. It is located near Bangalore-Pune highway in the state of Karnataka, belgavi dist.Kannada is the local language. Adi is famous for Shri Mallikarjun (Gram Daivat) and Shri Dattatraya (Parmatmraj Maha raja) temple located on Shri Mallikarjun Devasthan Hill. Which is 75kms away from the belgaum city karnataka and 30kms from Kolhapur (MH). Shri Mallikarjun devsthan is also known as shri adi Mallyya or sanjeevan giri Adi. Infront of Mallikarjun temple Shrungi Brungi is present and on back side goddess Shri Bhramarabika Devi mandir which is one of the Mahasakthi and both are believed to be self-manifested. On the right side of the Mallikarjun hill a famous Shri Datta Devstan Temple is present which is maintained by Shri Paramatmaraj Maharaj. Totally the hill side view shows like a mahalinga. No any other place like this, Devastana administration has taken all measures for the piligram's. Every year during shravan month lakhs of devotees visited to this hill.

Field Work: Extensive field visits were carried out, at monthly intervals during 2021-22 to document the floristic diversity of Mallikarjun hill the sacred grove. Specimens of flowering plants were collected and identified with the aid of different regional floras (Hooker, 1872-1897; Saldhana 1984, 1996, Singh, 1984; Seetharam 2000). Lists of endangered, threatened and rare plants found in the sacred groves were prepared with the help of published works. The survey tours had been planned in such a way that it was possible to cover all the seasons and months of the year. Thus, it was made possible to have a comprehensive and exhaustive study of the vegetation of the entire area which resulted in the representative collection of medicinal plants at monsoon and post monsoon period. It also covered different habitats in the area like rocky and open grassland. Photographs have been taken at different stages of development of plants, landscape, forest view, canopy and other general feature for interpretation and aesthetic value (Plate 1).



Fig. 1 : Location map of the study area



PLATE 1 : Scenic view of the study area Mallikarjun hill, Adi sacred grove

Result and Discussion

The present study deals with floristic composition of angiosperms grown and nurtured in the sacred grove located in Shri Mallikarjun Devasthan hill Adi. Species diversity In all, 160 plant species belonging to 133 genera and 58 families have been recorded from the area under study. The monocots were represented by 28 species belonging to 20 genera and 10 families, and dicots contributing 128 species belonging to 109 genera and 44 families. While remaining 4 species belonging to 4 genera and 4 families are lower plants. Based on habit classification of the enumerated plants, the majority of species were herbs (66 species) followed by trees (56 species) and shrubs (26 species) climbers (12 species). The most species rich families included Fabaceae as the dominant family with 15 species, followed by Poaceae (11 species), Euphorbiaceae and Mimoceae (9 species each). Flora of this sacred grove is enriched by Karnataka forest department regularly. Local grazing animals causes somewhat treat to this grove.

Table 1	: Phytodiversit	y of sacred grove	located in Shri N	/lallikarjun Dev	asthan hill Adi
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S. No.	Botanical Name	Family name	Habit	Status	Vernacular name
1.	Abrus precatorius Wall.	Fabaceae	Cl	Common	Gunj
2.	Abutilon indicum (L.) Sweet.	Malvaceae	S	Common	Mudrika
3.	Acacia auriculiformis	Mimoceae	Т	Common	Austrelian babhul
4.	Acacia conciana	Mimoceae	CL	Rare	Shikekai
5.	Acacia farnesiana	Mimoceae	Т	Common	Sweet acacia
6.	Acacia nilotica	Mimoceae	Т	Common	Babhul
7.	Acacia catechu	Mimoceae	Т	Rare	Khair
8.	Achyranthes aspera L.	Amaranthaceae	Н	Common	Agada
9.	Aegle marmelos (L.) Corr.	Rutaceae	Т	Common	Bel
10.	Agave americana	Agavaceae	S	Common	Gayapat
11.	Ageratum conyzoides L.	Asteraceae	Н	Common	Billygoat weed
12.	Albizia lebbeck	Fabaceae	Т	Common	Woman's tongue tree
13.	Aloe barbadensis Miller.	Liliaceae	Н	Rare	korphad
14.	Alternanthera sessilis (L.) R.Br.	Amaranthaceae	Н	Common	Golkusal
15.	Amaranthus spinosus L.	Amaranthaceae	Н	Common	Spiny Amaranth
16.	Amaranthus viridis L.	Amaranthaceae	Н	Common	Green Amranth
17.	Annona reticulata	Annonaceae	Т	Rare	Ramphal
18.	Annona squamosa L.	Annonaceae	Т	Rare	Sitaphal
19.	Argemone mexicana L.	Papaveraceae	Н	Common	Pivala dhotara
20.	Artabotrys zeylanicus	Anonaceae	S	Rare	Green chapha
21.	Azadirachta indica A. Juss.	Meliaceae	Т	Common	Neem
22.	Barleria cristata L.	Acanthaceae	Н	Common	Koranti
23.	Bauhinia purpurea	Caesalpiniaceae	Т	Rare	Kanchan
24.	Bautea monosperma	Fabaceae	Т	Common	Palas
25.	Bidens pilosa L.	Asteraceae	Н	Rare	Morshend
26.	Bixa orellana	Bixaceae	S	Rare	Shendri
27.	Boerhavia diffusa L.	Nyctaginaceae	Н	Common	Punarnava
28.	Bougainvillea spectabilis Willd	Nyctaginaceae	S	Common	Paper flower
29.	Bombax ceiba	Bombacaceae	Т	Rare	katesavar
30.	Brachiari aramosa (L.) Stapf.	Poaceae	Н	Common	Signal grass
31.	Caesalpinia bonduc	Caesalpiniaceae	CL	Rare	Sagargota
32.	Caesalpinia pulcherrima (L.) Sw.	Caesalpinaceae	S	Rare	Shankasur
33.	Calotropis gigantea (L.) R. Br.	Asclepiadaceae	S	Common	Rui
34.	Calocasia esculanta	Araceae	Н	Rare	Green taro
35.	Canna indica	Cannaceae	Н	Rare	karadal
36.	Cardiospermum halicacabum	Sapindaceae	Н	Rare	Kapalphodi
37.	Carrisa carandus	Apocynaceae	S	Common	Karavand
38.	Caryota urens	Arecaceae	Т	Rare	Bherli mad
39.	Cassia tora L.	Caesalpinaceae	S	Common	Takala
40.	Catharanthus roseus (L.) G. Don.	Apocynaceae	Н	Rare	sadaphuli
41.	Celosia cristata L.	Amaranthaceae	Н	Rare	kurdu
42.	Citrus limon L.	Rutaceae	S	Rare	limbu
43.	Clerodendron inermis	Verbenaceae	S	Rare	koynel
44.	Cleome viscosa	Capparaceae	Н	Rare	Tick weed
45.	Clitoria ternatea	Papilionaceae	Н	Rare	gokarn
46.	Clorophytum borivilianum	Liliaceae	Н	Common	Safed musali
47.	Cocus nucifera	Arecaceae	Т	Rare	Naral

48.	Commelina benghalensis L.	Commelinaceae	Н	Common	kena
49.	Corchorus capsularis L.	Tiliaceae	Н	Common	White jute
50.	Crossandra infundibuliformis L.	Acanthaceae	Н	Sporadic	Aboli
51.	Crotalaria verrucosa L	Fabaceae	Н	Common	Blue rattlepod
52	Cyanotis cristata (L) D Don	Commelinaceae	Н	Sporadic	Crested Dew grass
53	Cynotis burmanniana Wight	Commelinaceae	Н	Sporadic	Dew grass
53.	Cynodon daetylon (I.) Pers	Poaceae	н	Common	Durva
55	Cynodon dderylon (L.) Ters.	Doncono	п П	Common	Nivershe
55.	Cyperus minaorensis	Comoreae	П		Nivaisiia
50.	Cyperus rotunaus L.	Cyperaceae	П	Sporadic	Inagarinotha
57.	Dalbergia sisso	Fabaceae		Rare	Indian rosewood
58.	Datura metal L.	Solanaceae	H	Common	Dhotara
59.	Decaschistia trilobata	Malvaceae	H	Rare	Mysore mallow
60.	Delonix regia	Caesalpiniaceae	Т	Common	Gulmohar
61.	Dendrocalamus strictus	Poaceae	S	Rare	Bamboo
62.	Digitaria ciliaris (Retz.) Koeler.	Poaceae	Н	Sporadic	crabgrass
63.	Emblica officinalis	Euphorbiaceae	Т	Rare	Amala
64.	Eragrostis unioloides	Poaceae	Н	Sporadic	Siteche pohe
65.	Eriocaulon tuberiferum	Eriocaulaceae	Н	Sporadic	pangend
66.	Erythrina stricta	Fabaceae	Т	Rare	Pangara
67.	Eucalyptus globulus	Myrtaceae	Т	Common	Nilgiri
68.	Euphorbia antiquorum L.	Euphorbiaceae	S	Common	Dudhi
69.	Euphorbia hirta L.	Euphorbiaceae	Н	Common	Asthma plant
70.	Euphorbia tirucalli L.	Euphorbiaceae	Т	Common	Indian tree spurge
71.	Ficus benghalensis L.	Moraceae	Т	Rare	Vad
72.	Ficus racemosa L.	Moraceae	Т	Rare	Umbar
73.	Ficus religiosa L	Moraceae	Т	Rare	Pimpal
74	Ficus virens	Moraceae	T	Rare	Payar
75	Gliricidia senium	Fabaceae	T	Common	Rat poison tree
76	Gloriosa superba I	Liliaceae	CI	Rare	kalalavi
70.	Comphrana sarrata I	Amaranthacaaa	U U	Sporadia	Globe amaranth
77.	Hibisous ovalifolius (Forsk.) Vahl	Malvacaaa	п П	Sporadic	Grope leaved mallow
70.	Hibiscus rosa sinensis I	Malvaceae	11 S	Doro	Jasvandi
79.	Hibiscus Iosa-sinensis L.	Lamiaaaaa	5	Common	Diamut
<u>80.</u>	Hypus suareolens L.	Dalaamiaaaaa	3	Common	Tanada
81.	Impatiens balsamina L.	Baisamaceae	H CI	Common	Terada
82.	Ipomoea obscura (L.) Ker-Gawl.	Convolvulaceae	CL	Common	Morning glory
83.	Jasminum malabaricum Wight.	Oleaceae	CL	Sporedic	Kusar
84.	Jatropha curcas L.	Euphorbiaceae	S	Common	Mogali Erand
85.	Justicia adathoda L. f.	Acanthaceae	S	Rare	Adulasa
86.	Lantana camara L.	Verbenaceae	S	Sporadic	Ghaneri
87.	Lawsonia inermis L.	Lytharaceae	S	Rare	Mehandi
88.	Leucas aspera (Willd.) Link.	Lamiaceae	Н	Sporadic	Shakroba
89.	Mallotus philippensis	Euphorbiaceae	Т	Rare	Kunkuphal
90.	Mangifera indica	Anacardiaceae	Т	Rare	Amba
91.	Melia azedarach L.	Meliaceae	Т	Rare	kadulimb
92.	Michelia champaca	Magnoliaceae	Т	Rare	Sonchapha
93.	Mimosa pudica L.	Mimosaceae	Н	Rare	lajalu
94.	Mimusops elengi	Sapotaceae	Т	Rare	Bakuli
95.	Morinda citrifolia	Rubiaceae	Т	Sporadic	Noni
96.	Musa paradisiaca L.	Musaceae	Т	Rare	keli
97.	Neolamarckia cadamba	Rubiaceae	Т	Common	Burflower tree
98	Nyctanthes arbor-tristis L.	Nyctaginaceae	Т	Rare	Parijatak
99	Oberonia falconeri	Orchidaceae	Ĥ	Rare	Hiravi chapati aamari
100	Ocimum americanum L	Lamiaceae	Н	Common	Lime basil
101	Ocimum basilicum I	Lamiaceae	Н	Sporadic	Sweet hasil
101.	Ocimum tenuifolium I	Lamiaceae	Н	Sporadic	Holy havil
102.	Opuntia stricta (How) How	Cactaceae	۱۱ ۲	Sporadio	Nivdung
103.	Oralis corniculata I	Ovalidação	о С	Sporadia	Ambushi
104.	Danioum oumiflorum Homese	Danaaceae	п 11	Sporadia	Cross
103.	Таписит ситурогит погнет.	Poaceae	П	Sporaule	Cuirren
100.	Panteum maximum Jacq.	Poaceae	H	Common	Guinea grass
107.	Parthinium nysterophorus L.	Asteraceae	Н	Common	Gajargavat
108.	Peltophorum pterocarpum	Fabaceae	T	Common	Copper pod tree

110. Phyllanhus madras Schum Euphorbiaceae H Sportnök Madras led flower 111. Phylatis minima L. Solanaeeae H Rare Natras led flower 113. Pithacetlobium didee (Rob.) Benth. Minosaccae T Rare Natras led flower 113. Pithacetlobium didee (Rob.) Benth. Piumbaginaeae H Common Chitrak 114. Plumbaginaeae H Common Chitrak Chitrak 115. Petmeria rubra Apocynaccae T Common Ashok 116. Polydihin longifola Anoaccaee T Common Karanj 118. Portucae oleracea Portospis cineraria (L.) Druce Minosaceae T Common Karanj 120. Prosopis cineraria (Sw) DC. Minosaceae S Common Sugarcane 121. Quisqualis indica Combretaceae S Common Sugarcane 123. Succharum officinarum Poaceae T Common Sugarcane 124. Sumanea saman Fabaceae T Common Fabaceae	109.	Phoenix sylvestris	Arecaceae	Т	Rare	Shindi
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125. Santalum album L. Santalaceae T Rare Chandan 126. Setaria intermediate Roem. & Schultes. Poaceae H Common Pandar 127. Setaria pumila (Poir), Roem. & Schultes. Poaceae H Common Yellow foxtail 128. Setaria verticillata (L.) P. Beauv. Poaceae H Common Falanel weed 130. Smithin setulosa Fabaceae H Common Kawla 131. Solanum nigrum Solanaceae H Rare Black night shade 132. Spathodea companulata L. Bignoniaceae T Rare African tulip tree 133. Spathodea companulata L. Bignoniaceae Sparadic Tikoma 135. Tabernaemontana citrifolia Apocynaceae S Rare Marigold 136. Tagtes erecta L. Asteraceae H Rare Chinch 138. Frades erecta L. Caesalpinaceae T Rare Harigold 137. Tamarindus indica L. Caesalpinaceae T Common Sag 140.	124.	Samanea saman	Fabaceae	Т	Common	Rain tree
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160.Funaria hygrometricaFunariaceaeHCommonMoss	159.	Riccia crystallina L.	Ricciaceae	Н	Common	Liverworts
	160.	Funaria hygrometrica	Funariaceae	Н	Common	Moss

 \mathbf{T} – Tree; \mathbf{S} – Shrub; \mathbf{Cl} – Climber; \mathbf{H} – Herb.

Conclusion

Sacred groves are important for both conservation, lively hood development and in modification of landscape. The sacred grove as a unique unit in the rural landscape, it performs several ecological functions, which can directly or in directly help in the maintenance of ecosystem health of all interacting landscape units. So it is suggested that degraded grove should be immediately regenerated and need to conduct awareness programme among the rural people regarding importance and utility of sacred grove.



PLATE 2 : Photographs of some of the plants of the grove.

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