



## Extended Naturalization Record of Amaranthaceae species (*Alternanthera philoxeroides* (Martius) Grisebach) to Andhra Pradesh, India

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### Abstract

After critical explorations and examinations, we have been first reporting *Alternanthera philoxeroides* to Andhra Pradesh as a new distributional, from Bhavani Island, Krishna District, which is not earlier reported from Andhra Pradesh.

### INTRODUCTION

Authors collected some interesting plant specimens in different parts of Andhra Pradesh after many field explorations and couple with the critical examination we could identify one plant specimen as *Alternanthera philoxeroides* (Garbari *et al.*, 2001; JK Tiwari *et al.*, 2015; Anderson *et al.*, 2016 & Kumar *et al.*, 2018) which is not earlier reported from Andhra Pradesh (Pullaiah *et al.*, 2018) hence we are reporting as a new record to Andhra Pradesh. The taxonomic treatment, ecology, herbarium specimen and photo plate have been provided.

**Abbreviations:** SKU (Sri Krishnadevaraya University), BR (Boyina Ravi Prasad Rao), MAK (Midigesi Anil Kumar) and PA (Paradesi Anjaneyulu).

*Alternanthera philoxeroides* (Martius) Grisebach, Abh. Konigl. Ges. Wiss. Gottingen. 24: 36. 1879;

### Synonyms

*Achyranthes aphylla* (Glaz.) Standl.; *Achyranthes paludosa* Bunbury; *Achyranthes philoxeroides* (Mart.) Standl.; *Alternanthera aphylla* Glaz.; *Alternanthera philoxerina* Suess.; *Alternanthera philoxeroides* var. *acutifolia* (Moq.) Hicken; *Alternanthera philoxeroides* var. *lancifolia* Chodat;

*Alternanthera philoxeroides* var. *luxurians* Suess.; *Alternanthera philoxeroides* var. *obtusifolia* (Mart.) Hicken; *Alternanthera philoxeroides* var. *phyllantha* (Seub.) R.E.Fr.; *Brandesia martiana* Gillies ex Moq.; *Bucholzia philoxeroides* Mart.; *Celosia amphibia* Salzm. ex Moq.; *Telanthera philoxeroides* Moq.; *Telanthera philoxeroides* var. *acutifolia* Moq.; *Telanthera philoxeroides* var. *denticulata* Seub.; *Telanthera philoxeroides* var. *linearifolia* Chodat; *Telanthera philoxeroides* var. *obtusifolia* Moq.; *Telanthera philoxeroides* var. *phyllantha* Seub.

### Systematic Position

Kingdom: Plantae  
Division: Angiosperms  
Class: Dicotyledons  
Subclass: Monochlamydeae  
Series: Curvembryae  
Family: Amaranthaceae  
Genus: *Alternanthera*  
Species: *A. philoxeroides*.

### Systematic Enumeration

Perennial aquatic stoloniferous herbs, up to 80 cm long; Stem aerial, cylindrical, striate, glabrous,

fistulose, with roots at lower nodes; Leaves cauline, opposite, sessile, elliptic, ovate-oblong, 3.5-7.0 × 0.5-2 cm long, entire, obtuse-acute, midrib prominent on the lower surface, glabrous; Inflorescence terminal and axillary pedunculated heads; peduncle up to 5 cm long; Bracts less than ½ as long as tepals, up to 2 mm long, one veined, ovate, acute, keeled; Flowers monomorphic, actinomorphic, bisexual, regular, white; tepals lanceolate-oblong up to 6 mm long, 1-5 nerved, acute, glabrous; Stamens 5, united at base, pseudostaminodes, lacerate and exceeding the anthers; Ovary reniform, style twice as long as the stigma; stigma papillose; Utricles 1 × 1-1.5 long; Seeds not seen.

**Phenology:** Throughout the year.

**Ecological distribution:** Ponds, ditches, streams.

**Global distribution:**

**Distribution:** India; Native of South America; now established in Argentina, Australia, Brazil, Java, Indo-Malesia, Tropical America.

World: Assam, Karnataka, Kerala, Manipur, Tamil Nadu.

**Native to South America.**

**Specimen examined:** Specimen examined 55317 (SKU), 09-02-2018, Bhavani Island, Krishna

District, Andhra Pradesh, India, coll. BR, MAK & PA.

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A. Herbarium specimen of *Anthernanthera philoxeroides*



*Alternanthera philoxeroides* (Martius) Grisebach



A. *Alternanthera philoxeroides* habit, B. Flowering Twig and C. Head closeup.