

Supplementary table 3: List of *Polycarpaea* (Caryophyllaceae), *Cyperus* and *Fimbristylis* (Cyperaceae) species with C₃ type carbon isotope values.

Species	Distribution in SW Asia	Isotope value (‰)	Source
<i>Polycarpaea caespitosa</i> Balf.	Endemic of Socotra	-25.32	Komarov Institute Herbarium -Socotra, Bayley Balfour , Aug. 1880, No.683) - endemic from Socotra Island (Yemen)
<i>Polycarpaea repens</i> (Forssk.) Aschers. & Schweinf.	Arabian Peninsula, Pakistan	-23.83	Komarov Institute Herbarium - Egypt, Sinai, dunes between Al-Kantara and Al-Arish, Bochantsev, 09.05.1962
<i>Polycarpaea spicata</i> Wight ex Arn.	S Iran, Pakistan, Arabian Peninsula	-23.42	Komarov Institute Herbarium - Socotra, Bayley Balfour, Feb.-Mar. 1880, No.671
<i>Cyperus pulcherrimus</i> Willd. ex Kunth	Doubtful record from Pakistan	-27.43	Komarov Institute Herbarium - Indonesia, Java, H. Zollinger, No. 638
<i>Fimbristylis turkestanica</i> (Regel) B. Fedtsch.	Whole SW Asia	-21.7	Herbarium Edinburgh - Iran, Gilan, Lagrosh.Lham Khaleh, 20.07.2000, Naqinezhad, 3 Eoo283472