A NEW COMBINATION AND THE NEW RECORDS OF THE GENUS ZYGOPHYLLUM

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Zygophyllum atriplicoides is a variable species. Evidences are shown that Z. eurypterum is synonym of Z. atriplicoides. Z. megacarpum is reduced to a varietal rank and the new combination Z. atriplicoides var. megacarpum is made. Z. qatarense with mostly unifoliolate leaves is recorded from S. Iran as a very common species. Z. miniatum var. miniatum is recorded from Iran for the first time.

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Zygophyllum یک تركيب جديد و گزارش‌های جديدی از جنس

از: خديجه اخيانی

ارزنتر شکل ظاهری گونه‌ای متنوع است. شواهد Zygophyllum atriplicoides گونه Z. eurypterum که گونه متعدد گونه مز کوراست.

Z. atriplicoides به سطح وریتته تقلیل می‌یابد و ترکیب جدید Z. megacarpum ساخته می‌شود var. megacarpum

گونه Z. qatarense با برگ‌های غالباً تک بر گچی گوزنی از جنوب ایران بعنوان گونه‌ای فراوان معرفی می‌گردد. وریتته Z. miniatum var. miniatum برای اولین بار از ایران گزارش داده می‌شود.
Introduction

Revising the genus *Zygophyllum* for the Flora of Iran revealed evidences for some changes in the taxonomic position of some taxa. A new combination seemed to be necessary to make. Also new records for the flora of Iran were known. The new combination and the new records are explained.

New combination

In majority of Floras, *Zygophyllum eurypterum* is known as a species having fruits with 4 wings and *Z. atriplicoides* and *Z. megacarpum* as species with 5 wings on their fruits. Referring to existing specimens in herbaria of Plant Pests and Diseases Research Institute (EVIN) and Research Institute of Forests & Rangelands (TARI) and inspections of living specimens around Kuh-e Genu in Hormozgan province, have revealed that, although in specimens, the number of wings of fruit is constant, but in the most cases wing numbers of specimens ranges from 3 to 5. It is also concluded that there is no correlation between shape, size of leaves and fruits. On the other hand flowers appear in white and yellow colour. Therefore these characters mentioned above, are not reliable for distinguishing them as distinct species. With these variations conclusions are as following.


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1. Fruit more than 30 mm. in diameter.
   var. *megacarpum*

2. Fruit up to 30 mm in diameter.
   var. *atiplicoides*

- - var. *atiplicoides*


- - var. *megacarpum* (Boriss) Akhiani, *comb. nov.*


New Records


The nearest species to this *Zygophyllum*, is *Z. propinquum*. It is recognized by having cylindric bifoliolate leaves. While in *Z. qatarense* most leaves are unifoliolate with obconical shape. It seems all specimens determined under the name of *Z. propinquum*, in fact are *Z. qatarense*. 
Distribution: Qatar, Oman, United Arab Emirates, Saudi Arabia, Bahrain, Kuwait, Iraq and Iran.

Iran: Hormozgan: 15 km W. of Bandar-e Charak, sea level, Assadi & Akhani 61995; ca. 100 km SEE of Lar. near the Sartang village, 300 m, Assadi & Sardabi 41925; Bandar-Abbas: Queshm, S. of Dargahan, 40 m, Wandelbo & Foroughi 15598; Khonosorkh, 20 m, Mozaffarian 49315; Nakhl-e Nakhoda, 10 m, Mozaffarian 45054; Between Bandar-e Charak and Rostagh, 50 m, Mozaffarian 49417; Ab-e Garm-e Khamir, 60 m, Mozaffarian 45283; E. of Bandar-e Pol, margin of Pol river, 20 m, Mozaffarian 45146; 20 km E. of Bandar Khamir on road form Bandar Abbas to Bandar Lengeh, sea level, Akhiani, Khatamsaz & Zaifi 68033. -Baluchestan: 5 km on road from Rask to Chahbahar, 400 m, Runemark, Assadi & Sardabi 22536; 135 km, on road from Rask to Chahbahar, 200 m, Runemark, Assadi & Sardabi 22477.

**Zygophyllum miniatum** Cham & Schlechtend var. *miniatum*

This variety differs from var. *englerianum* M. Pop. by having smaller fruits and leaves. Also number of leaflets in var. *miniatum* is between 1-3 pairs. Its distribution extends from central Asia to Afghanistan and C. of Iran.

Iran: Semnan, 20 km SE. on road to Biarjomand, 1490 m, Freitag & Mozaffarian 28313; Sorkheh Dahaghin, 1250 m, Mozaffarian 58854; Towran protected area, desert mountain, about 50 km. SE. of Toroud, 800-850 m, Freitag & Mozaffarian 28667.

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Fig.1. *Zygophyllum qatareense* (x 1.8).
Fig. 2. Zygophyllum miniatum var. miniatum (x 2; fruit x 4).
Fig. 3. *Zygophyllum miniatum* var. *englerianum* (× 1.6; fruit × 3.3).
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