**Juncus fernandez-carvajaliae**

Assessment by: Romero Zarco, C., Carapeto, A., Pinto Cruz, C., García Murillo, P.G., Ríos Ruiz, S. & Fraga i Arquimbau, P.

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Taxonomy

<table>
<thead>
<tr>
<th>Kingdom</th>
<th>Phylum</th>
<th>Class</th>
<th>Order</th>
<th>Family</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plantae</td>
<td>Tracheophyta</td>
<td>Liliopsida</td>
<td>Poales</td>
<td>Juncaceae</td>
</tr>
</tbody>
</table>

Taxon Name: *Juncus fernandez-carvajaliae* Romero Zarco & V. Arán

Taxonomic Source(s):

Taxonomic Notes:
A newly described annual species (Romero-Zarco and Arán 2013), it is akin to *Juncus tenageia* Ehrh. ex L. fil.

Assessment Information

Red List Category & Criteria: Data Deficient ver 3.1
Year Published: 2018
Date Assessed: August 2, 2015

Justification:

This species is endemic to central Spain, where it is currently only known from two sites in the Guadiana River basin located in the western half of Ciudad Real Province. Suitable habitat is frequent around both known sites, and the potential distribution area of this new species could be much larger. However, very little data are available at present regarding its population size, trends or threats and therefore it is assessed as Data Deficient; further research is required.

Geographic Range

Range Description:
This species is endemic to central Spain, where the known distribution is restricted to two sites in the Guadiana River basin, in the western half of Ciudad Real Province. The holotype locality is situated in the Bullaque River basin, a right tributary of the Guadiana River in the NW of the province, in the Montes de Toledo region, where it has been found in pastures near a reservoir. A second site is located 63 km south of the former, in the basin of the Tirteafuera River, a left tributary of the same river, in the Campo de Calatrava area. Small endorheic places locally called navazos are frequent in both areas, and the potential distribution area of the new species could be much larger (Romero-Zarco and Arán 2013).

Country Occurrence:
Native: Spain (Spain (mainland))
Population
Annual weather conditions determine the consideration of this species as locally abundant (V. Arán pers. comm 2015). It is locally frequent (Romero-Zarco and Arán 2013).

Current Population Trend: Unknown

Habitat and Ecology (see Appendix for additional information)
This rush inhabits pastures on seasonally wet soils with siliceous substrate. It has been found together with others plants species such as Juncus tenageia, J. minutulus, J. tingitanus, J. capitatus, J. pygmaeus, Centaurium maritimum, Ornithogalum concinnum, Scilla ramburei, Ranunculus pseudomillefoliatus and Cicendia filiformis (Romero-Zarco and Arán 2013).

Systems: Terrestrial

Use and Trade
No information is available.

Threats
No information is available on threats to this species.

Conservation Actions (see Appendix for additional information)
The species is not present in protected areas (IUCN and UNEP-WCMC 2017). Additional research into threats, population and habitat trends, utilization and distribution is required for this species.

Credits
Assessor(s): Romero Zarco, C., Carapeto, A., Pinto Cruz, C., García Murillo, P.G., Ríos Ruiz, S. & Fraga i Arquimbau, P.
Reviewer(s): Allen, D.J. & García, N.
Contributor(s): Alcázar Montañez, E.
Facilitators(s) and Compiler(s): Allen, D.J.
Bibliography


Citation


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External Resources

For Images and External Links to Additional Information, please see the Red List website.
Appendix

Habitats
(http://www.iucnredlist.org/technical-documents/classification-schemes)

<table>
<thead>
<tr>
<th>Habitat</th>
<th>Season</th>
<th>Suitability</th>
<th>Major Importance?</th>
</tr>
</thead>
<tbody>
<tr>
<td>14. Artificial/Terrestrial</td>
<td>Resident</td>
<td>Suitable</td>
<td>Yes</td>
</tr>
<tr>
<td>-&gt; 14.2. Artificial/Terrestrial - Pastureland</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Conservation Actions in Place
(http://www.iucnredlist.org/technical-documents/classification-schemes)

<table>
<thead>
<tr>
<th>Conservation Actions in Place</th>
</tr>
</thead>
<tbody>
<tr>
<td>In-Place Land/Water Protection and Management</td>
</tr>
<tr>
<td>Occur in at least one PA: Unknown</td>
</tr>
</tbody>
</table>

Research Needed
(http://www.iucnredlist.org/technical-documents/classification-schemes)

<table>
<thead>
<tr>
<th>Research Needed</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Research -&gt; 1.2. Population size, distribution &amp; trends</td>
</tr>
<tr>
<td>1. Research -&gt; 1.5. Threats</td>
</tr>
<tr>
<td>3. Monitoring -&gt; 3.4. Habitat trends</td>
</tr>
</tbody>
</table>

Additional Data Fields

<table>
<thead>
<tr>
<th>Distribution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lower elevation limit (m): 675</td>
</tr>
<tr>
<td>Upper elevation limit (m): 693</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Habitats and Ecology</th>
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</thead>
<tbody>
<tr>
<td>Continuing decline in area, extent and/or quality of habitat: Unknown</td>
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</tbody>
</table>
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