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Volume

Issue

Page

GO

Volume 54, Issue 6

ISSUES

☐ VOLUME 61 (2018)

Issue 3 (Jun 2018) , pp. 177-320
Special issue: Seagras...

Issue 2 (Apr 2018) , pp. 103-175

Issue 1 (Feb 2018) , pp. 1-102

☐ VOLUME 60 (2017)

Issue 6 (Dec 2017) , pp. 591-665

Issue 5 (Oct 2017) , pp. 515-589

Issue 4 (Aug 2017) , pp. 361-514
Special issue: Recent ...

Issue 3 (Jun 2017) , pp. 239-359

Issue 2 (Apr 2017) , pp. 85-237
Special issue: Phycomo...

Issue 1 (Feb 2017) , pp. 1-83

☐ VOLUME 59 (2016)

[< Previous Article](#) [Next Article >](#)

Occurrence of the seagrass *Halophila stipulacea* (Hydrocharitaceae) in the southern Mediterranean Sea

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Abstract

Halophila stipulacea is a dioecious seagrass that colonised the Mediterranean basin probably following the opening of the Suez Canal in 1869. We investigated its occurrence in the southern Mediterranean. This was done by conducting targeted surveys in two countries (Tunisia and Libya) and compiling existing information from former research. Four new meadows of *H. stipulacea* were found in the study area: Al-wahesh Lagoon and Tobrouk Bay in Libya, and Kerkennah Island-Allama and Cap Monastir in Tunisia. The new record in Cap Monastir (Tunisia) documents a displacement of approximately 150 km north of the previous limit of *H. stipulacea* in the southern Mediterranean, which probably represents the westernmost extension of *H. stipulacea*'s distribution 3000 km west along the coast from the site of first colonisation at the mouth of the Suez Canal in Port Said. In the Cap Monastir meadow, the shoot density (\pm SD) was $9900 \pm 3509 \text{ m}^{-2}$ and the leaf area index was $3.15 \pm 0.5 \text{ m}^2 \text{ m}^{-2}$. In Libya, a small meadow of *H. stipulacea* was documented for the first time in Tobrouk Bay, with an estimated shoot density of $476 \pm 83 \text{ m}^{-2}$.

Keywords: [Halophila stipulacea](#); lessepsian migrant; Mediterranean Sea; seagrass

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