

## ***Interactive comment on “Eclipse effects on field crops and marine zooplankton: the 29 March 2006 Total Solar Eclipse” by G. Economou et al.***

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The current paper describing the effect of the eclipse on two different biotic systems, field crops and marine zooplankton, is very interesting and unique given the rareness of total solar eclipses. The eclipse event has actually provided a natural laboratory for investigating fast biotic responses and it was a first class opportunity for scientists to understand the complex role of light.

This work is one of the 11 papers submitted within the "The total solar eclipse of 2006 and its effects on the environment" Special Issue, covering a wide range of eclipse effects on different research areas in the atmosphere and the biosphere. The current work, focusing on eclipse induced disturbance of ecosystems, is considered essential for the completeness of the Special Issue and therefore it is suggested for publication

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after appropriate revision.

In particular, reviewers' comments from both the first (there were also scientific comments in addition to technical corrections) and the second phase of the online review process, are to be adequately addressed. The two biotic systems should not be discussed separately in this work and an attempt to bridge them, especially in the summary and conclusions section, would give a certain added value. Finally, it is expected that this work could serve as a guide or trigger for similar studies during future eclipses, and as such, problems or difficulties planning relevant experiments and questions still seeking for an answer should be mentioned.

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Interactive comment on Atmos. Chem. Phys. Discuss., 8, 1291, 2008.

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8, S1283–S1284, 2008

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