

## ***Interactive comment on “Risk identification of agricultural drought for sustainable agroecosystems” by N. R. Dalezios et al.***

### **Anonymous Referee #1**

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Review of the manuscript 'nhess-2014-71' (Risk Identification of Agricultural Drought for Sustainable Agroecosystems)

#### A) General comments

The manuscript 'nhess-2014-71' is a well structured and documented research article that marks out the usefulness and effectiveness of remote sensing techniques to risk identification of agricultural drought in order to promote the sustainable management of agroecosystems. The article after some minor improvements merits to be published in the Journal NHESS (Natural Hazards and Earth System Sciences).

#### B) Specific comments

C960

1) Page 3, line 125: reference (Univ. Hawai, 2003), does not exist in the Reference list.

2) Page 7, line 317: It is necessary to specify the dam of Acheloos river (it is the dam of Sykia)

3) Page 11 lines 494-495: 'Similarly, from Tables 3 and 4 it is noticed that the total areal extent in Thessaly for all the years ranges in the same order of magnitude'

Should be replaced by

'Similarly, from Tables 3 and 4 it is noticed that the total seasonal extent in Thessaly for all the years ranges in the same order of magnitude'.

4) Page 11, line 496: 'Moreover, there is no significant increase in the areal extent from class 1 to class 4.'

This phrase is suggested to be eliminated.

5) Page 11, lines 497-501: 'Furthermore, Table 3 indicates that there are years with very small areal extent at the beginning of the warm season reaching smaller total areal extent at the end of the warm season than other years with larger areal extent at the beginning reaching equally larger total areal extent at the end of the warm season.'

Should be replaced by

'Furthermore, Table 3 indicates that there are years with very small areal extent at the beginning of the warm season reaching small total areal extent at the end of the warm season. Similarly Table 4 indicates that there are years with large areal extent at the beginning reaching equally large total areal extent at the end of the warm season.'

6) It is necessary to check the References list (some articles do not exist in the text.: Dalezios N.R., 1998 ..., Dalezios N.R., D. Bampzelis and C. Domenikiotis, 2009, Kanelou, E.C., N.V.Spyropoulos and N.R. Dalezios 2012, Wilhite, D.A. Hayes, M.J. Kimutson C., and K.H. Smith 2000).

C961

7) Page 9, line 393. The reference 'Kogan, 1990' is not in the reference list.

C) Technical corrections

1) Page 10, formula (2), probably there is a misprint (number 421 is presented in the formula)

2) The quality of Figure 2 should be improved.

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Interactive comment on Nat. Hazards Earth Syst. Sci. Discuss., 2, 3097, 2014.