

## ***Interactive comment on “Rainfall estimation over the Wadi Dhuliel arid catchment, Jordan from GSMaP\_MVK+” by E. Abushandi and B. Merkel***

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Received and published: 8 March 2011

Please consider the Comments below to improve your MS. Note also that there are too many figures and tables

No Page Line Comments 1 1666 23 Add year of publication to the WHO 1a 24 Government and not politicians 1b 26 200mm of the total annual 2 1667 04 Climatic conditions and not climate at 2a 07 FAO (2005) not in the list of references 2b 09-16 Is hanging and out of place 2c 26 Groundwater recharge (8.5%), while 3.6% the smallest portion contributes to the surface runoff (Fig 2a) 2d 27 of northeastern part of Jordan 3 1668 05 Different rainfall ..... And the grid method have been used in different senerios (.....). 3a 06 The Thiessen polygons is the simplest. ....method used to 3b 15 ...was that of Winkwort (1967) and Osborn and Hickok (1968) in Australia  
C322

and United States respectively. 3c 21 Two studies focused on.... 3d 24 In Jordan in the last decade 3e 25 Only; while others considered 3f 27 Momani (2009) 4 1669 02 .....examined recent temporal trends and fluctuations in rainfall for three. .... at. .... (Fig. ie include the stations on a map e.g. Fig 3) 4a 09 The study showed no evidence of negative.....at any station. 4b 10-11 Remove from However, ..... 4c 15-17 This is not clear 4d 18 Rain harvesting instead of water harvesting 4e 19 Instead of capture and store water in Jordan, use partly solve the water problem in Jordan 5 1670 2 What is the full meaning of PERSIANN 5a 10 Define GSMaP\_MVK+ when first mentioned in the text. The four different types of sensors are not clear from Table 1 5b 21 2.1 Study area description should stand alone or under introduction and not under Materials and Methods 5c 26 crosses over instead of passes over 6 1671 3 Should be Temporal rainfall. .... 6a The study area does not reflect what it should be. The section should have subsections on location, geomorphology, rainfall characteristics, geology and hydrology of the area. 6b 26 Also rainfall data were obtained from eight rain gauges within and near Wadi Dhuliel I while only one gauge was located at Wadi Dhuleil II 7 1672 7-8 Altitudes, rainfall magnitudes and land cover characteristics should be quantified 8 1673 5-12 Low correlation coefficient is low e.g. -0.28, 0.089 etc yet significant?

9 1675 09-22 This is not very clear 10 1676 15-19 As in No 8 21-22 This sentence is out of place Daily results .....rain gauges 11 1677 19-22 Not clear 12 General Too many aspects of results and vice versa

Analysis should not be in materials and methods

Reduce the number of tables and figures

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Interactive comment on Hydrol. Earth Syst. Sci. Discuss., 8, 1665, 2011.