

## ***Interactive comment on “The last 7 millennia of vegetation and climate changes at Lago di Pergusa (central Sicily, Italy)” by L. Sadori et al.***

**L. Sadori et al.**

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ALL THE SUGGESTIONS OF REFERRE 3 HAVE BEEN TAKEN INTO ACCOUNT, AS FOLLOWS:

1/ page 1 line 27 Paleolithic better than prehistory. DONE 2/ p2 line 7: it will be of a great interest to compare this record with historical data; but historians are trained to use an AD : could the two chronologies appear? DONE 3/ the lithology is poorly described and the comparisons with the lithology of PRG1 not discussed it could be useful for correlation? The depth below the water table in the two cores are not mentioned. THE LITHOLOGICAL DESCRIPTION AND SEDIMENT ANALYSIS, STILL IN PROGRESS, WILL BE IMPROVED AND PUBLISHED TOGETHER WITH ISO-TOPE RESULTS. THE DEPTH BELOW WATER SURFACE WAS NOT INDICATED BE-

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CAUSE THE WATER LEVEL IS NOW ARTIFICIALLY CONTROLLED. ANYWAY SOME EXPLANATIONS WERE ADDED IN THE TEXT. 4/ In 5.1 the correlation between the pollen diagrams from PRG1 and PG2 could be explained in more details. It is probably obvious for the authors but for instance at tribute a different design to the two horizontal lines in the two diagrams could help. Do the authors consider the oak maxi (PZ3b in PG2) and dated 2420 in PGR1 are contemporaneous. Il such a case 75-30 in PRG1 = 50-400 in PG2. THE COMPARISON BETWEEN THE TWO CORES SHOWED THAT THE “OLD ONE”, PRG1 IS NOT CONTINUOUS FOR THE LAST 2500 YEARS, BUT PROBABLY THERE IS MORE THAN ONE HIATUS THAT IS HARD TO DEFINE AND PERIODS WITH REDUCED SEDIMENTATION. A PHRASE WAS HOWEVER ADDED TO EXPLAIN THIS. 5/ p10, l. 22: I do not understand “temperature decrease”, it is not pertinent at this latitude. WE DO AGREE AND FELT AUTHORIZED TO DELETE “TEMPERATURE DECREASE”. 6/ p. 12, lines 15-19: please clarify: what do you mean? THE PHRASE WAS CHANGED AND, HOPEFULLY, CLARIFIED.

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