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On the ENSO relationship to temperature in Europe

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The relationship among El Niño-Southern Oscillation (ENSO), European 850 hPa temperature (based on ERA-40 from ECMWF) and 2 m temperature from Croatian meteorological stations has been analyzed for the period 1957-2002. Cold and warm ENSO events were selected according to SST anomalies of the Niño3 region during winter for different treshold values. The relationship of selected events on seasonal T850 over Europe as well as the seasonal Croatian temperature has been studied for four calendar seasons based on statistical analysis. Mean composites of selected fields, corresponding to cold and warm events, have been correlated with mean seasonal SST values for the same years. Although obtained correlation were generally small, results are important to understand possible teleconnection processes.