The coastal area of Ancona Province is been affected by high level concentration of air pollutants, mainly due to the presence of multiple emission sources and a complex coast-valley horography. To perform an air quality assessment of photochemical pollution, all pollutant sources have been identified and evaluated, and a model system, designed around the three-dimensional eulerian photochemical dispersion model CAMx, has been implemented. The system has been adapted to increase its data processing efficiency and to provide data format consistency between CORINAIRSNAP nomenclature and the US EPA’s National Emission Inventory format.

First results and their adherence with observed data are also discussed.