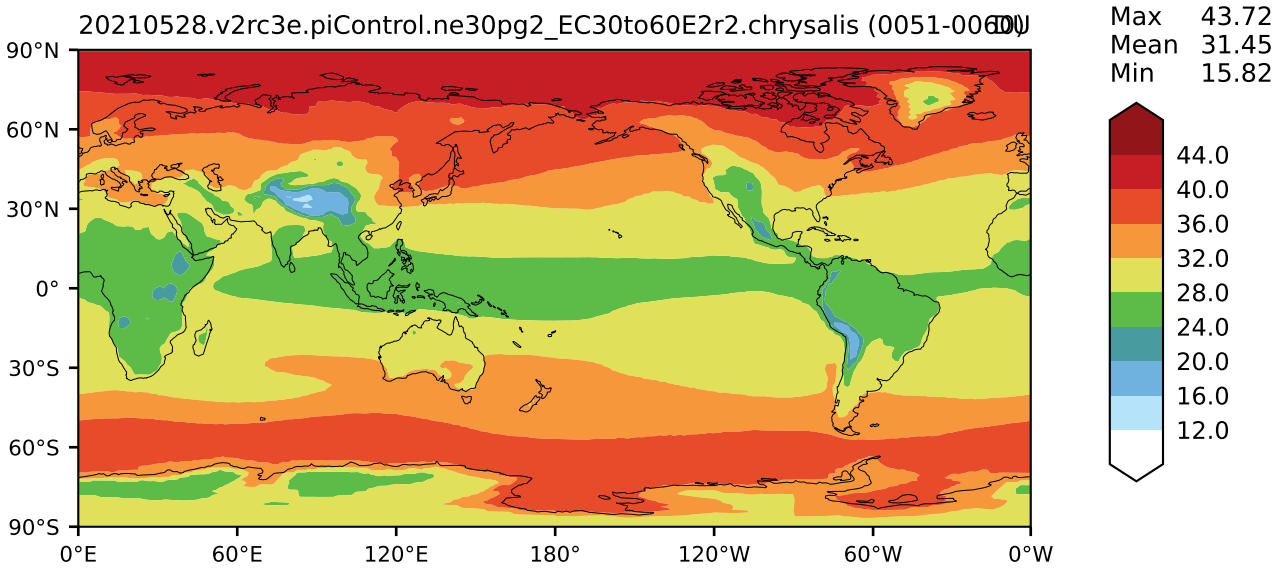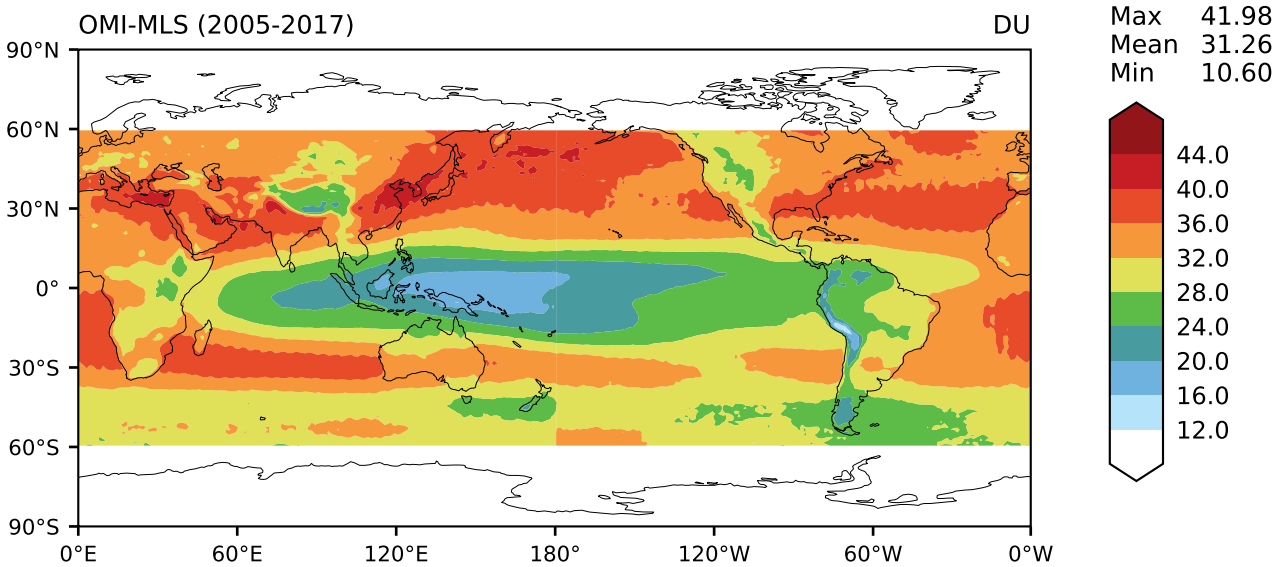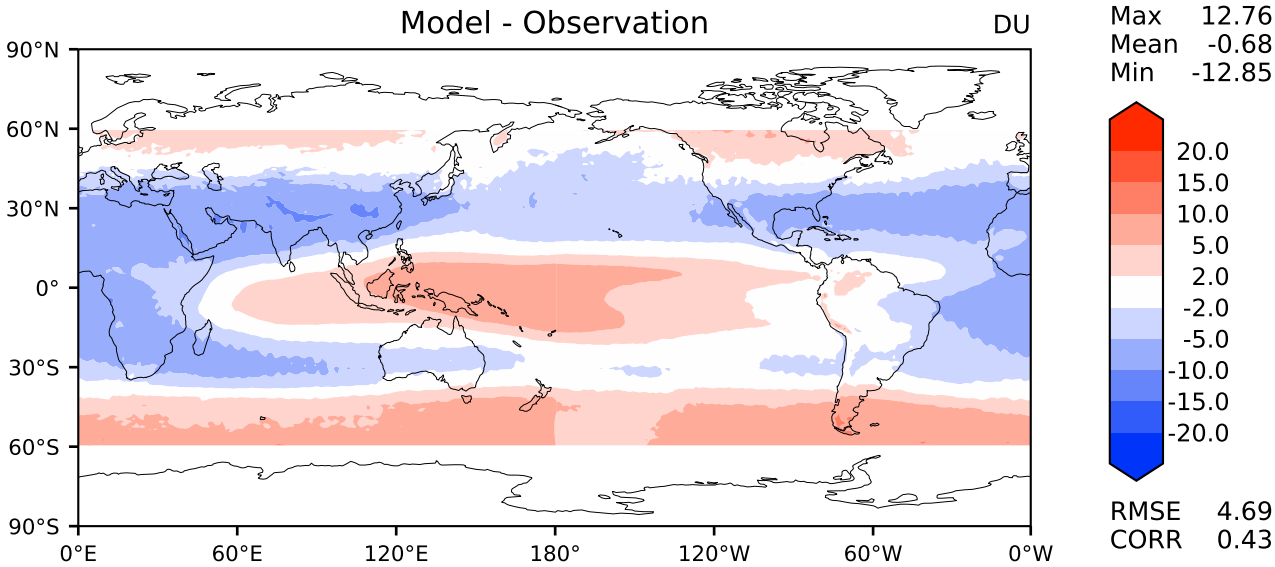TCO ANN global