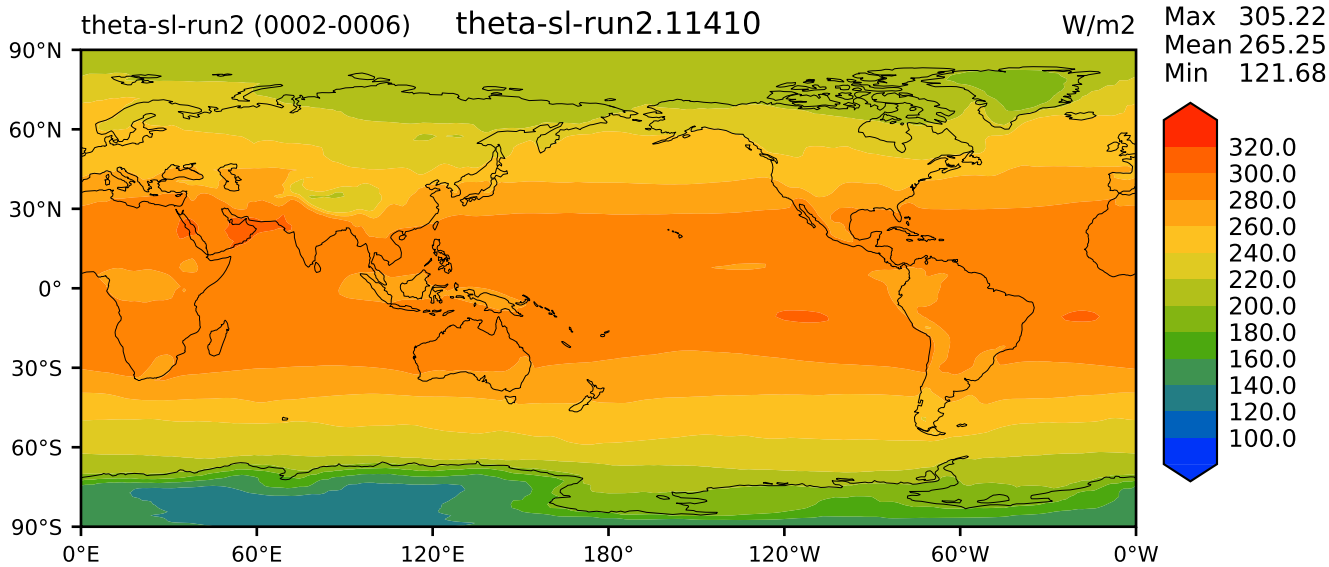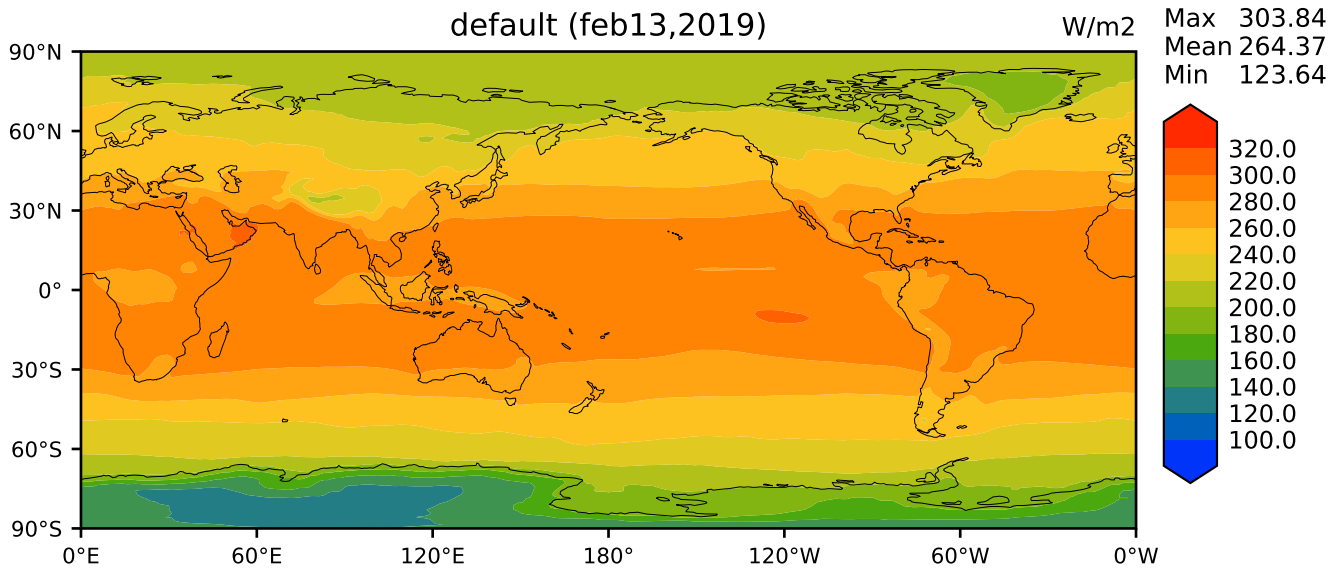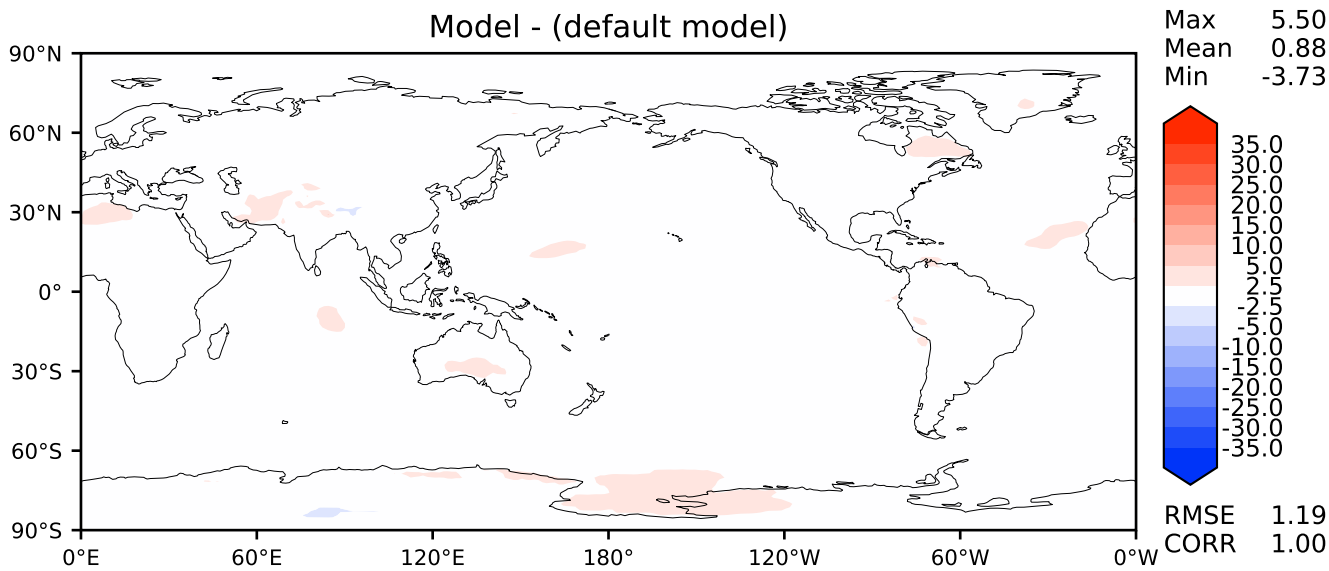FLUTC ANN global