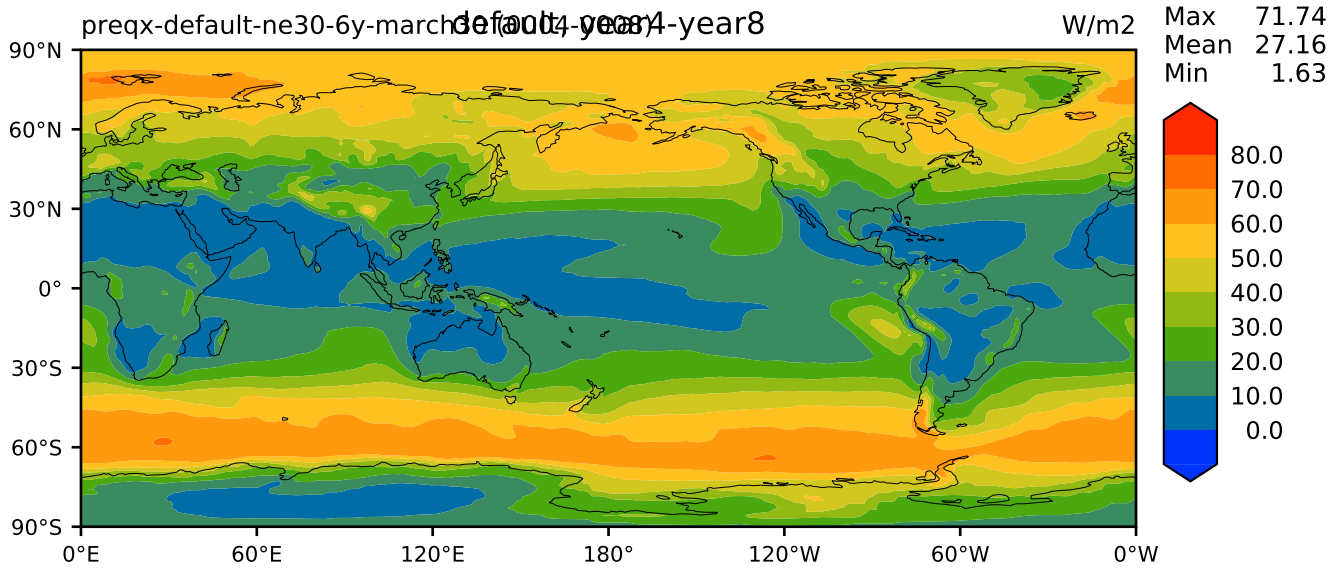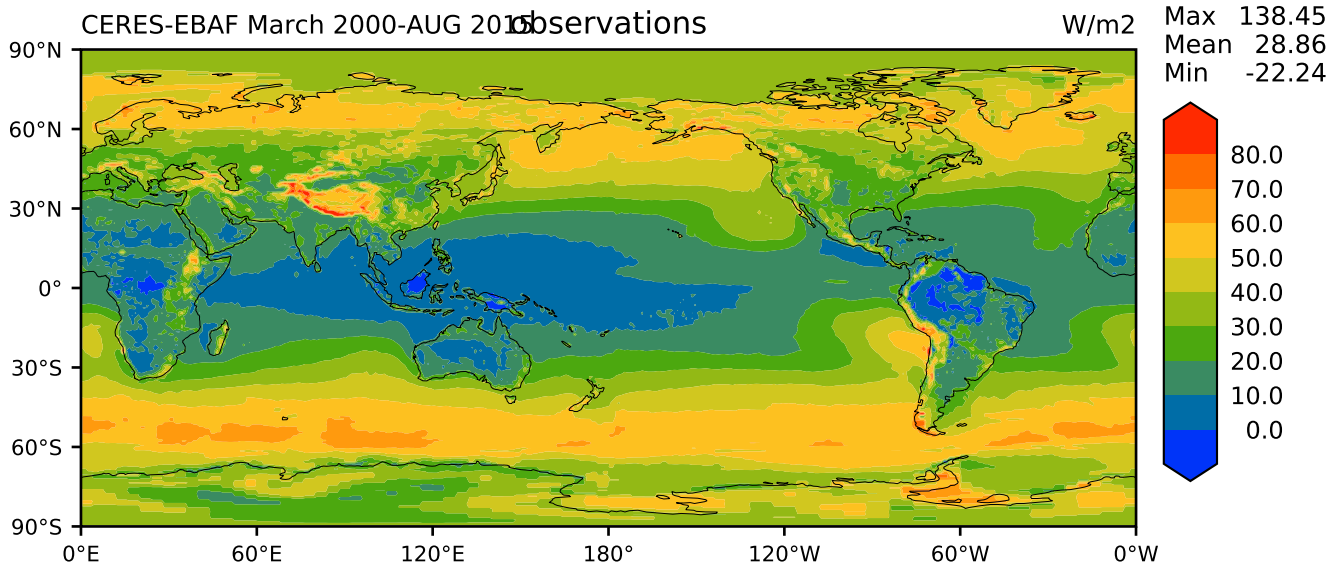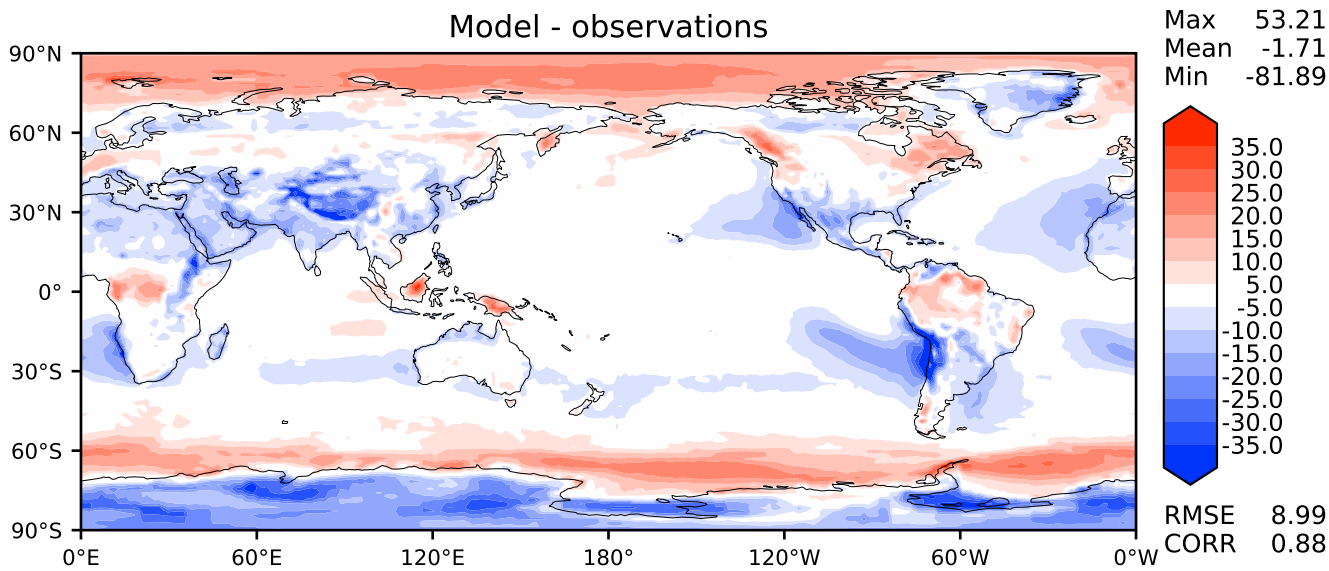LWCFSRF ANN global