Left: difference between PSDRY on SE grid and CSLAM gryd where every timestep CSLAM PS is overwritten with SE PSDRY – this is after 20 years of simulation
Right: difference between PSDRY on SE grid and CSLAM where PS is never overwritten with PSDRY from SE.
(all output has been bilinearly interpolated to a lat-ln grid)

Conclusion: we do not need to overwrite CSLAM PSDRY with SE PSDRY integrated over CSLAM cells.