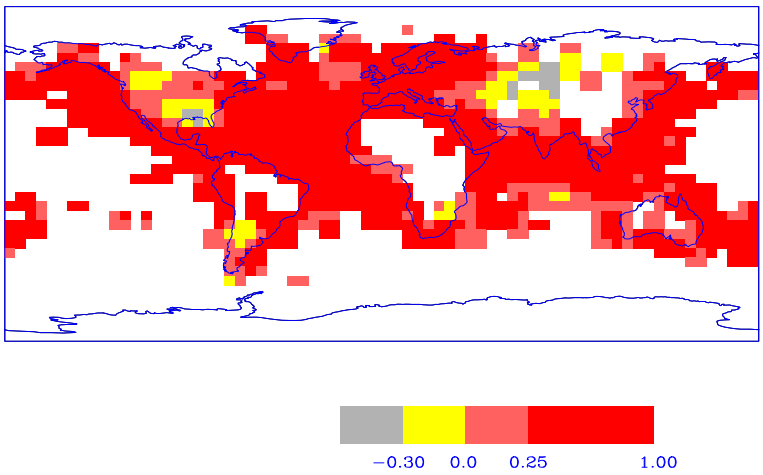
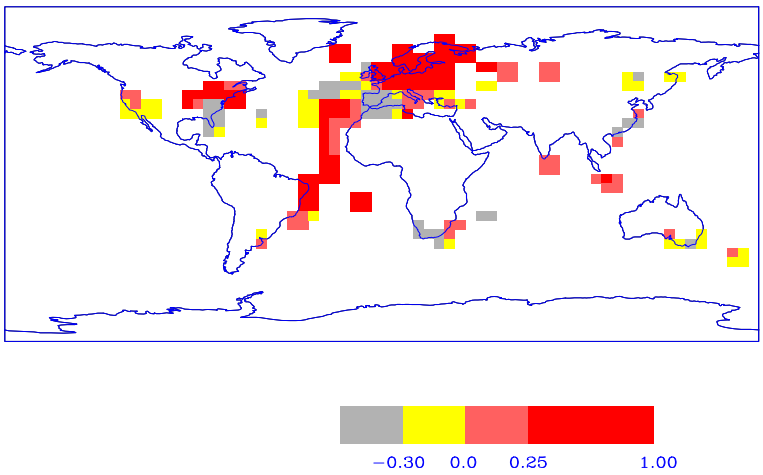
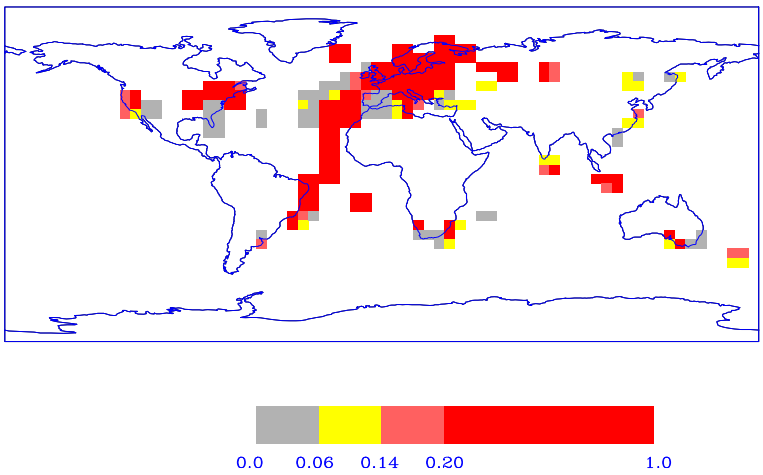
CALIBRATION BETA



VERIFICATION BETA



VERIFICATION r^2