Multispatial CCM test: npgo sum as a forcing process on recspn5 ESU, offset: 2 MFS, offset: 2 UPS, offset: 2 IMN, offset: 2 Tau = 1, p = 0.15Tau = 1, p = 0.51Tau = 1, p = 0.02Tau = 1, p = 0.480.3 Tau = 2, p = 0.43Tau = 2, p = 0.31Tau = 2, p = 0.4Tau = 2, p = 0.560.4 0.2 Tau = 3, p = 0.46Tau = 3, p = 0.38Tau = 3, p = 0.36Tau = 3, p = 0.080.2 Tau = 4, p = 0.42Tau=4, p = 0.11 Tau = 4, p = 0.36Tau = 4, p = 0.39rho **2** 0.2 rho 0.1 0.1 Tau = 5, p = 0.51Tau = 5, p = 0.01Tau = 5, p = 0.19Tau = 5, p = 0.77Tau = 6, p = 0.64Tau = 6, p = 0.06Tau = 6, p = 0.54Tau = 6, p = 0.810.0 0.0 0.0 0.0 -0.1-0.1200 1000 200 500 100 300 100 200 300 100 300 Library length, L Library length, L Library length, L Library length, L ESU, offset: 3 MFS, offset: 3 IMN, offset: 3 UPS, offset: 3 0.4 0.4 Tau = 1, p = 0.31Tau = 1, p = 0.58 Tau = 1, p = 0.21Tau = 1, p = 0.360.4 0.3 0.3 Tau = 2, p = 0.27Tau = 2, p = 0.44Tau = 2, p = 0.41Tau = 2, p = 0.23Tau = 3, p = 0.46Tau = 3, p = 0.11Tau = 3, p = 0.29Tau = 3, p = 0.240.2 0.2 0.2 Tau = 4, p = 0.28Tau = $4 \cdot p = 0.04$ Tau = 4, p = 0.07Tau = 4, p = 0.38<u>e</u> 0.2 rho rho rho Tau = 5, p = 0.07Tau = 5, p = 0.35Tau = 5 / p = 0.41Tau = 5, p = 0.540.1 0.1 0.1 Tau = 6, p = 0.01Tau = 6, p = 0.61Tau = 6, p = 0.48Tau = 6, p = 0.390.0 0.0 0.0 -0.1 -0.1 -0.1 1000 500 100 200 300 200 200 300 100 300 100 Library length, L Library length, L Library length, L Library length, L ESU, offset: 4 MFS, offset: 4 IMN, offset: 4 UPS, offset: 4 0.4 Tau = 1, p = 0.6Tau = 1, p = 0.18Tau = 1, p = 0.6Tau = 1, p = 0.370.3 0.3 Tau = 2, p = 0.5Tau = 2, p = 0.16Tau = 2, p = 0.33Tau = 2, p = 0.1Tau = 3, p = 0.37Tau = 3, p = 0.02Tau = 3, p = 0.35Tau = 3, p = 0.440.2 Tau = 4 , p = 0.33 Tau = 4, p = 0.32Tau = 4, p = 0Tau = 4, p = 0.43rho rho гhо 0.2 2 0.2 0.1 Tau = 5, p = 0.49Tau = 5, p = 0.02Tau = 5, p = 0.35Tau = 5, p = 0.370.1 0.1 Tau = 6, p = 0.54Tau = 6, p = 0.57Tau = 6, p = 0.02Tau = 6, p = 0.430.0 0.0 0.0 -0.1 -0.1-0.11000 500 100 200 300 100 200 300 200 300 100 Library length, L Library length, L Library length, L Library length, L ESU, offset: 5 MFS, offset: 5 IMN, offset: 5 UPS, offset: 5 0.4 0.6 Tau = 1, p = 0.07Tau = 1, p = 0.6Tau = 1, p = 0.43Tau = 1, p = 0.430.3 0.3 Tau = 2, p = 0.07Tau = 2, p = 0.14Tau = 2, p = 0.21Tau = 2, p = 0.17Tau = 3, p = 0.08Tau = 3, p = 0.44Tau = 3, p = 0.330.4 Tau = 3, p = 0.090.2 0.2 Tau = 4 + p = 0Tau = 4, p = 0.39Tau = 4, p = 0.28Tau = 4, p = 0.39rho 0.2 0.2 Tau = 5, p = 0.37Tau = 5, p = 0.03Tau = 5, p = 0.580.1 Tau = 5, p = 0.490.1 0.1 Tau = 6, p = 0.44Tau = 6, p = 0.27Tau = 6, p = 0.29Tau = 6, p = 0.650.0 0.0 0.0 0.0 -0.1-0.1-0.1 500 1000 200 200 300 100 300 100 100 200 300 Library length, L Library length, L Library length, L Library length, L

forecast skill, rho

library length, L