Multispatial CCM test: upw lusi as a forcing process on recspn5 ESU, offset: 2 MFS, offset: 2 UPS, offset: 2 IMN, offset: 2 0.3 -0.4 Tau = 1, p = 0.130.3 Tau = 1, p = 0.530.4 -Tau = 1, p = 0.45Tau = 1, p = 0.21Tau = 2, p = 0.36Tau = 2, p = 0.21Tau = 2, p = 0.08Tau = 2, p = 0.550.3 0.3 0.2 0.2 Tau = 3, p = 0.36Tau = 3, p = 0.23Tau = 3, p = 0.41Tau = 3, p = 0.570.2 <mark>일</mark> 0.1 Tau = 4, p = 0.220.2 Tau = 4, p = 0.1Tau = 4, p = 0.3Tau = 4, p = 0.270.1 rho Tau = 5, p = 0.43Tau = 5, p = 0.15Tau = 5, p = 0.1Tau = 5, p = 0.950.1 0.1 0.0 Tau = 6, p = 0.49Tau = 6, p = 0.1Tau = 6, p = 0.44Tau = 6, p = 0.680.0 0.0 0.0 -0.1-0.1 -0.1-0.2500 200 200 100 250 750 1000 100 100 300 200 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 0.3 Tau = 1, p = 0.39Tau = 1, p = 0.770.3 -Tau = 1, p = 0.64Tau = 1, p = 0.23Tau = 2, p = 0.18Tau = 2, p = 0.09Tau = 2, p = 0.19Tau = 2, p = 0.040.2 0.2 -Tau = 3, p = 0.48Tau = 3, p = 0.19Tau = 3, p = 0.41Tau = 3, p = 0.250.2 rho 0.1 Tau = 4, p = 0.26Tau = 4, p = 0.27Tau = 4, p = 0.41Tau = 4, p = 0.41rho Tau = 5, p = 0.66Tau = 5 , p = 0.69 Tau = 5, p = 0.21Tau = 5, p = 0.810.1 0.0 Tau = 6, p = 0.44Tau = 6, p = 0.66Tau = 6, p = 0.56Tau = $6 \cdot p = 0.17$ 0.0 -0.1 -0.1500 750 1000 200 200 300 100 200 300 250 100 100 Library length, L Library length, L Library length, L Library length, L ESU, offset: 4 MFS, offset: 4 IMN, offset: 4 UPS, offset: 4 0.5 0.3 0.4 Tau = 1, p = 0.21Tau = 1, p = 0.31Tau = 1, p = 0.7Tau = 1, p = 0.340.3 0.4 Tau = 2, p = 0.01Tau = 2, p = 0.69Tau = 2, p = 0.56Tau = 2, p = 0.410.2 0.3 Tau = 3, p = 0.5Tau = 3, p = 0.18Tau = 3, p = 0.41Tau = 3, p = 0.040.2 o 0.2 · Tau = 4, p = 0.42Tau = 4, p = 0.1Tau = 4, p = 0.65**일** 0.1 <u>و</u> 0.2 rho Tau = 4, p = 0.270.1 Tau = 5, p = 0.84Tau = 5, p = 0.34Tau = 5, p = 0.43Tau = 5, p = 0.210.1 Tau = 6, p = 0.23Tau = 6, p = 0.25Tau = $6 \cdot p = 0.28$ Tau = 6, p = 0.810.0 0.0 0.0 -0.1-0.1 -0.1600 300 900 200 300 100 200 300 200 300 100 100 Library length, L Library length, L Library length, L Library length, L ESU, offset: 5 MFS, offset: 5 IMN, offset: 5 UPS, offset: 5 0.5 Tau = 1, p = 0.17Tau = 1, p = 0.010.4 Tau = 1, p = 0.19Tau = 1, p = 0.20.3 0.4 Tau = 2, p = 0.14Tau = 2, p = 0.51Tau = 2, p = 0.64Tau = 2, p = 0.340.3 Tau = 3, p = 00.2 Tau = 3, p = 0.58Tau = 3, p = 0.72Tau = 3, p = 0.450.2 و ^{0.2} Tau = 4, p = 0.31Tau = 4, p = 0.02Tau = 4, p = 0.59Tau = 4, p = 0.36rho rho 0.2 0.1 0.1 Tau $\frac{1}{2}$ 5, p = 0.08 Tau = 5 , p = 0.2Tau = 5, p = 0.18Tau = 5, p = 0.540.1 Tau = 6, p = 0.01Tau = 6, p = 0.12Tau = 6, p = 0.21Tau = 6, p = 0.340.0 0.0 0.0 -0.1-0.1-0.1600 900 200 300 300 100 100 200 300 100 200 300 Library length, L Library length, L Library length, L Library length, L

forecast skill, rho

library length, L