Multispatial CCM test: upw yr as a forcing process on recspn5 ESU, offset: 2 MFS, offset: 2 UPS, offset: 2 IMN, offset: 2 0.4 0.4 Tau = 1, p = 0.52Tau = 1, p = 0.24Tau = 1, p = 0.45Tau = 1, p = 0.440.3 0.3 Tau = 2, p = 0.37Tau = 2, p = 0.16Tau = 2, p = 0.48Tau = 2, p = 0.440.40.3 Tau = 3, p = 0.37Tau = 3, p = 0.03Tau = 3, p = 0.28Tau = 3, p = 0.50.2 0.2 Tau = 4, p = 0.31Tau = 4, p = 0.04 Tau = 4, p = 0.56Tau = 4, p = 0.13rho **6** 0.2 rho 0.1 Tau = 5, p = 0.54Tau = 5, p = 0.03Tau = 5, p = 0.5Tau = 5, p = 0.640.1 0.1 Tau = 6, p = 0.11Tau = 6, p = 0.38Tau = 6, p = 0.51Tau = 6, p = 0.570.0 0.0 0.0 -0.1-0.<sup>-</sup> -0.11000 500 100 200 300 100 200 300 200 300 Library length, L Library length, L Library length, L Library length, L ESU, offset: 3 MFS, offset: 3 IMN, offset: 3 UPS, offset: 3 Tau = 1 , p = 0.5 Tau = 1, p = 0.74Tau = 1, p = 0.25Tau = 1, p = 0.290.3 Tau = 2, p = 0.48Tau = 2, p = 0.58Tau = 2, p = 0.1Tau = 2, p = 0.230.4 0.3 Tau = 3 , p = 0.51 Tau = 3, p = 0.06Tau = 3, p = 0.52Tau = 3, p = 0.170.2 0.2 Tau = 4, p = 0Tau = 4, p = 0.69Tau = 4, p = 0.06Tau = 4, p = 0.31일 0.2 rho rho 0.2 0.1 Tau = 5, p = 0.13Tau = 5, p = 0.49Tau = 5, p = 0.33Tau = 5, p = 0.550.1 0.1 Tau = 6, p = 0.32Tau = 6, p = 0.11Tau = 6, p = 0.5Tau = 6, p = 0.510.0 0.0 0.0 -0.1-0.1-0.11000 500 200 300 200 200 300 100 100 300 100 Library length, L Library length, L Library length, L Library length, L ESU, offset: 4 MFS, offset: 4 UPS, offset: 4 IMN, offset: 4 0.4 0.4 Tau = 1, p = 0.59Tau = 1, p = 0.02Tau = 1, p = 0.26Tau = 1, p = 0.310.3 Tau = 2 , p = 0.06 Tau = 2 , p = 0.11 Tau = 2, p = 0.26Tau = 2, p = 0.460.3 Tau = 3, p = 0.45Tau = 3, p = 0.15Tau = 3, p = 0Tau = 3 , p = 0.11 0.2 Tau = 4, p = 0.31Tau = 4, p = 0.05Tau = 4, p = 0.810.2 Tau = 4, p = 0.46**일** <sub>0.2</sub> rho 0.1 Tau = 5, p = 0.27Tau = 5, p = 0.04Tau = 5, p = 0.32Tau = 5, p = 0.260.1 0.1 Tau = 6, p = 0.05Tau = 6, p = 0.27Tau = 6, p = 0.7Tau = 6, p = 0.360.0 0.0 0.0 0.0 -0.1-0.1 -0.1 500 1000 100 200 300 100 200 200 300 300 100 Library length, L Library length, L Library length, L Library length, L MFS, offset: 5 IMN, offset: 5 UPS, offset: 5 ESU, offset: 5 0.4 0.6 Tau = 1, p = 0.52Tau = 1, p = 0.29Tau = 1, p = 0.6Tau = 1, p = 0.030.4 0.3 -Tau = 2, p = 0.56Tau = 2, p = 0.05Tau = 2, p = 0.52Tau = 2, p = 0.530.3 0.4 Tau = 3, p = 0.01Tau = 3, p = 0.46Tau = 3, p = 0.45Tau = 3, p = 0.550.2 Tau = 4, p = 0.37얼 <sub>0.2</sub>. Tau = 4 p = 0.010.2 Tau = 4, p = 0.10.2 Tau = 4, p = 0.55rho rho Tau = 5, p = 0.07Tau = 5, p = 0.35Tau = 5, p = 0.24 Tau = 5, p = 00.1 0.1 0.1 Tau = 6, p = 0Tau = 6, p = 0.44Tau = 6, p = 0.1Tau = 6, p = 0.120.0 0.0 0.0 0.0 -0.1-0.71000 200 300 300 200 300 500 100 100 200 100 Library length, L Library length, L Library length, L Library length, L

forecast skill, rho

library length, L