Multispatial CCM test: hseal COL as a forcing process on recspn5 MFS, offset: 2 UPS, offset: 2 IMN, offset: 2 0.6 Tau = 1, p = 0.15Tau = 1, p = 0.48Tau = 1, p = 0.69Tau = 2, p = 0.01Tau = 2, p = 0.25Tau = 2, p = 0.390.4 0.4 Tau = 3, p = 0.09Tau = 3, p = 0.44Tau = 3, p = 0.71Tau = 4, p = 0.03원 _{0.2}. Tau = 4, p = 0.06<u>و</u> 0.2 Tau = 4, p = 0.45<mark>일</mark> 0.2 Tau = 5, p = 0.12Tau = 5, p = 0.07Tau = 5, p = 0.16Tau = 6, p = 0.46Tau = 6, p = 0.1Tau = 6, p = 0.370.0 0.0 0.0 200 100 1000 100 200 100 200 Library length, L Library length, L Library length, L MFS, offset: 3 IMN, offset: 3 UPS, offset: 3 0.5 0.6 Tau = 1 , p = 0.01 Tau = 1, p = 0.33Tau = 1, p = 0.440.4 0.3 Tau = 2, p = 0.02Tau = 2, p = 0.52Tau = 2, p = 0.50.3 Tau = 3, p = 0.01Tau = 3, p = 0.51Tau = 3, p = 0.230.2 Tau = 4, p = 0.06Tau = 4, p = 0.27rho 0.2 Tau = 4, p = 0.19rho Tau = 5, p = 0.09Tau = 5, p = 0.56Tau = 5, p = 0.420.1 Tau = 6, p = 0.07Tau = 6, p = 0.570.0 -0.1-0.1 100 200 100 200 100 200 1000 Library length, L Library length, L Library length, L MFS, offset: 4 IMN, offset: 4 UPS, offset: 4 0.4 0.6 Tau = 1, p = 0.03Tau = 1, p = 0.49Tau = 1, p = 0.31Tau = 2, p = 0.07Tau = 2, p = 0.91Tau = 2, p = 0.290.3 0.4 Tau = 3, p = 0.09Tau = 3, p = 0.46Tau = 3, p = 0.060.2 0.2 Tau = 4, p = 0.06Tau = 4, p = 0.4**일** _{0.2} Tau = 4, p = 0.41rho 0.1 Tau = 5, p = 0.26 Tau = 5, p = 0.57Tau = 5, p = 0.430.1 Tau = 6, p = 0.04Tau = 6, p = 0.5Tau = 6, p = 0.340.0 0.0 -0.1-0.150 100 200 100 200 1000 150 250 100 200 Library length, L Library length, L Library length, L MFS, offset: 5 IMN, offset: 5 UPS, offset: 5 0.6 Tau = 1, p = 0.38Tau = 1, p = 0.81Tau = 1, p = 0.120.4 0.4 Tau = 2, p = 0.17Tau = 2, p = 0.1Tau = 2, p = 0.110.4 0.3 Tau = 3, p = 0.07Tau = 3, p = 0.43Tau = 3, p = 0.24e 0.2 일 0.2 Tau = 4, p = 0.15Tau = 4, p = 0.34Tau = 4, p = 0.570.2 Tau = 5, p = 0.02Tau = 5 p = 0.61 Tau = 5, p = 0.560.1 Tau = 6, p = 0.12Tau = 6, p = 0.84Tau = 6, p = 0.2

0.0

100

Library length, L

200

library length, L

250

0.0

-0.1

100

Library length, L

200

ESU, offset: 2

Tau = 1, p = 0.4

Tau = 2, p = 0.46

Tau = 3, p = 0.54

Tau = 4, p = 0.29

Tau = 5, p = 0.4

Tau = 6, p = 0.38

250

ESU, offset: 3

Tau = 1, p = 0.5

Tau = 2 , p = 0.38

Tau = 3, p = 0.39

Tau = 4, p = 0.23

Tau 5, p = 0.16

250

ESU, offset: 4

Tau = 1, p = 0.25

Tau = 2, p = 0.31

Tau = 3 , p = 0.51

Tau = 4, p = 0.39

Tau = 5, p = 0.4

Tau = 6, p = 0.42

250

ESU, offset: 5

Tau = 1, p = 0.58

Tau = 2, p = 0.27

Tau = 3, p = 0.37

Tau = 4, p = 0.38

Tau = 5, p = 0.54

Tau = 6, p = 0.41

250

500

500

Library length, L

750

Library length, L

750

0.0

100

Library length, L

150

200

Tau = 6, p = 0.44

500

Library length, L

750

500

Library length, L

750

0.4

0.3

0.2

0.1

0.0

-0.1

0.4

0.3

0.2

0.1

0.0

-0.1

0.2 -

0.1

0.0

-0.1

0.3

0.1

0.0

rho

rho

rho

forecast skill, rho