

Supplemental Appendix
(not for publication)
Asymmetric Loss in the Greenbook and
the Survey of Professional Forecasters

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This supplemental appendix reports the results comparable to Figures 1-4 reported in the paper, using different sets of the the instrumental variables V_t . We have considered the following six different sets of the instrument variables V_t .

1. $V_t = (1 \ y_{t-1})'$: Figures 1-4 (the same as reported in the paper)
2. $V_t = (1 \ \hat{f}_{t+h})'$: Figures 5-8
3. $V_t = (1 \ y_{t-1} \ \hat{f}_{t+h})'$: Figures 9-12
4. $V_t = (1 \ \hat{\varepsilon}_{t-1})'$: Figures 13-16
5. $V_t = (1 \ y_{t-1} \ \hat{\varepsilon}_{t-1})'$: Figures 17-20
6. $V_t = (1 \ y_{t-1} \ y_{t-1}^2)'$: Figures 21-24

$$\mathbf{1} \quad V_t = (1 \ y_{t-1})'$$

Figure 1. Real Output Growth Forecast ($h = 1$). Estimates and Tests with 1-step-ahead real output growth forecast: (a) and (b) with Greenbook and real-time data, (c) and (d) with Greenbook and revised data, (e) and (f) with SPF and real-time data, (g) and (h) with SPF and revised data. $V_t = (1 \ y_{t-1})'$ is used.

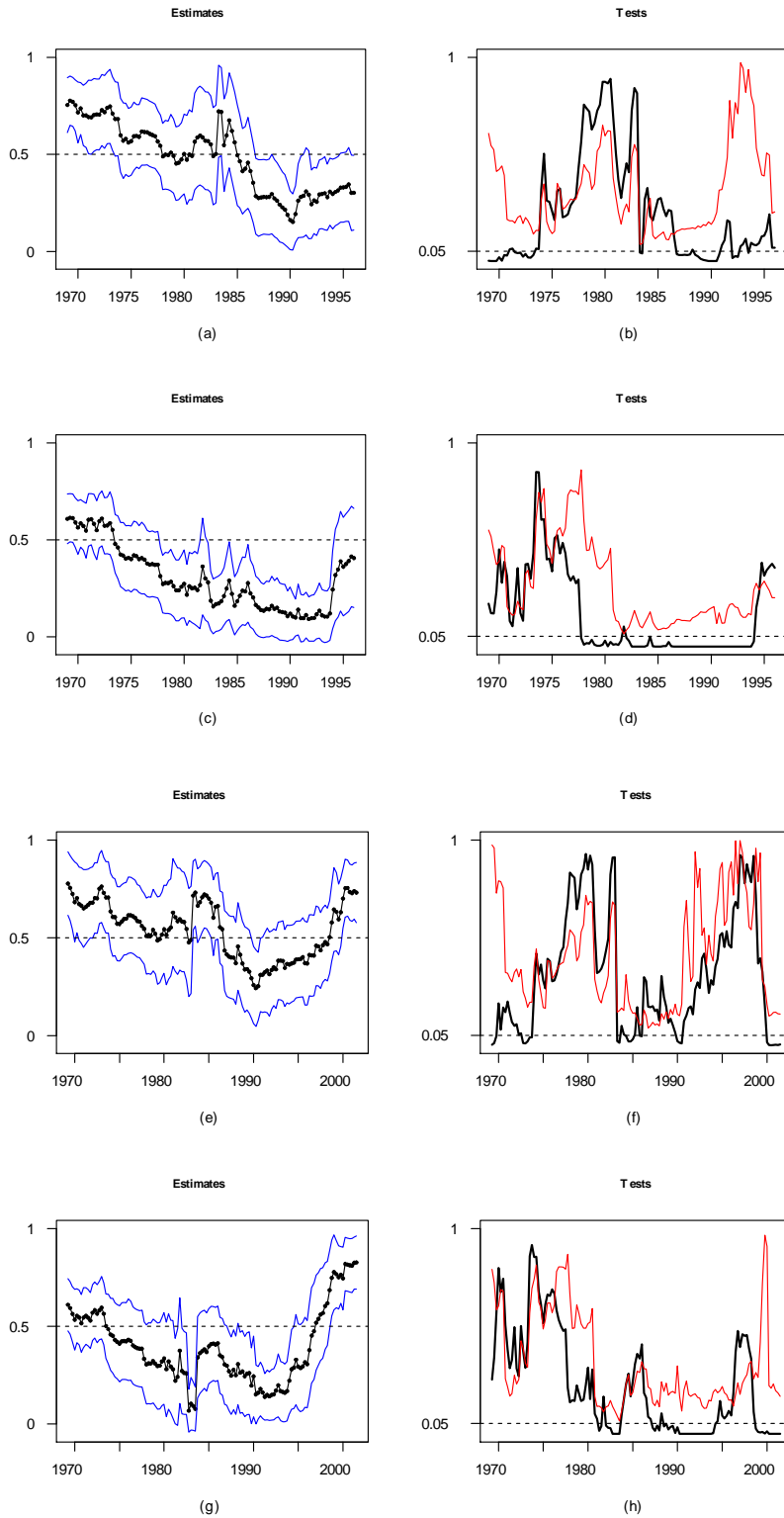


Figure 2. Real Output Growth Forecast ($h = 4$). Notes. Estimates and Tests with 4-step-ahead real output growth forecast: (a) and (b) with Greenbook and real-time data, (c) and (d) with Greenbook and revised data, (e) and (f) with SPF and real-time data, (g) and (h) with SPF and revised data. $V_t = (1 \ y_{t-1})'$ is used.

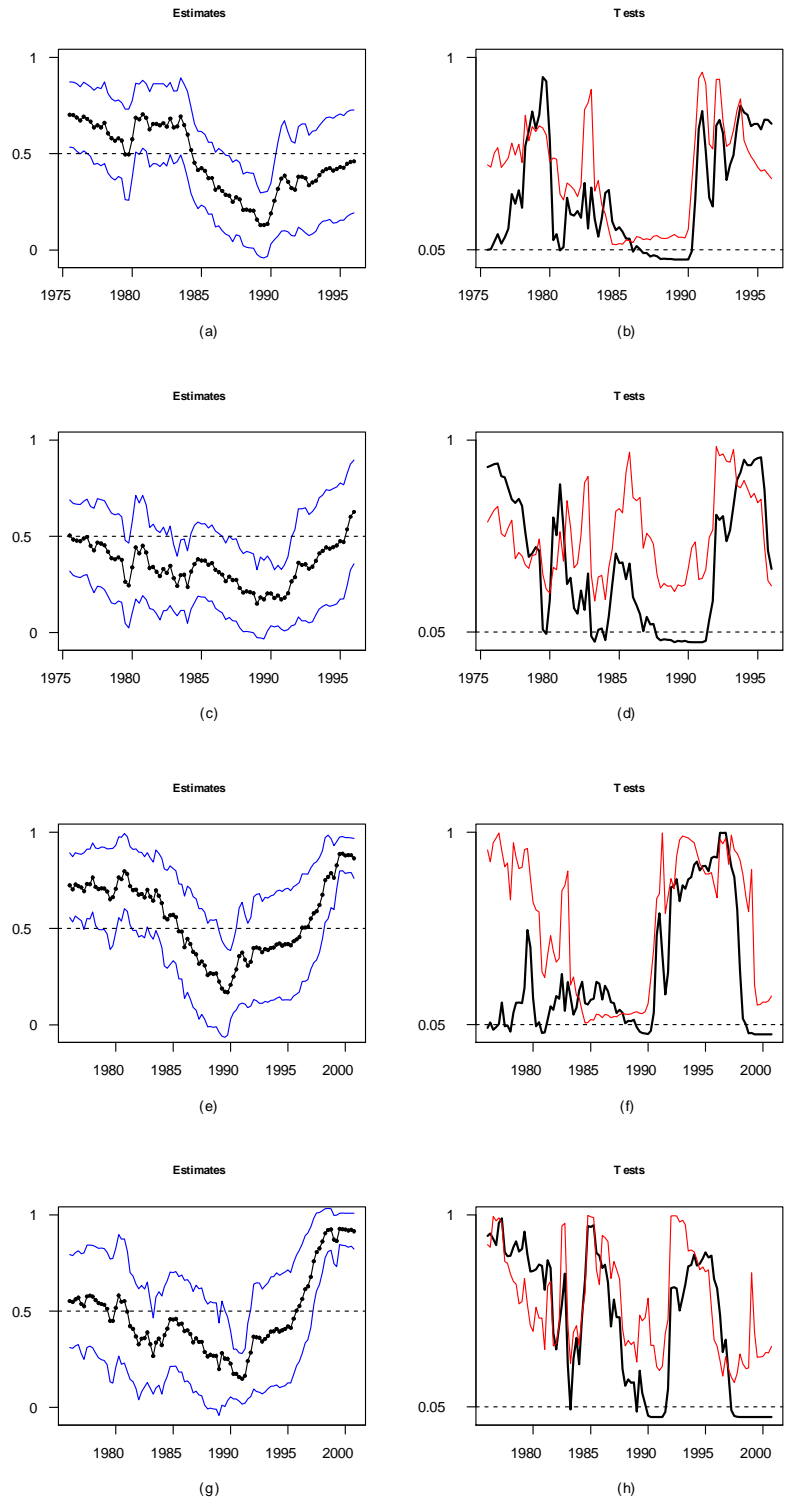


Figure 3. Inflation Rate Forecast ($h = 1$). Notes. Estimates and Tests with 1-step-ahead inflation rate forecast: (a) and (b) with Greenbook and real-time data, (c) and (d) with Greenbook and revised data, (e) and (f) with SPF and real-time data, (g) and (h) with SPF and revised data. $V_t = (1 \ y_{t-1})'$ is used.

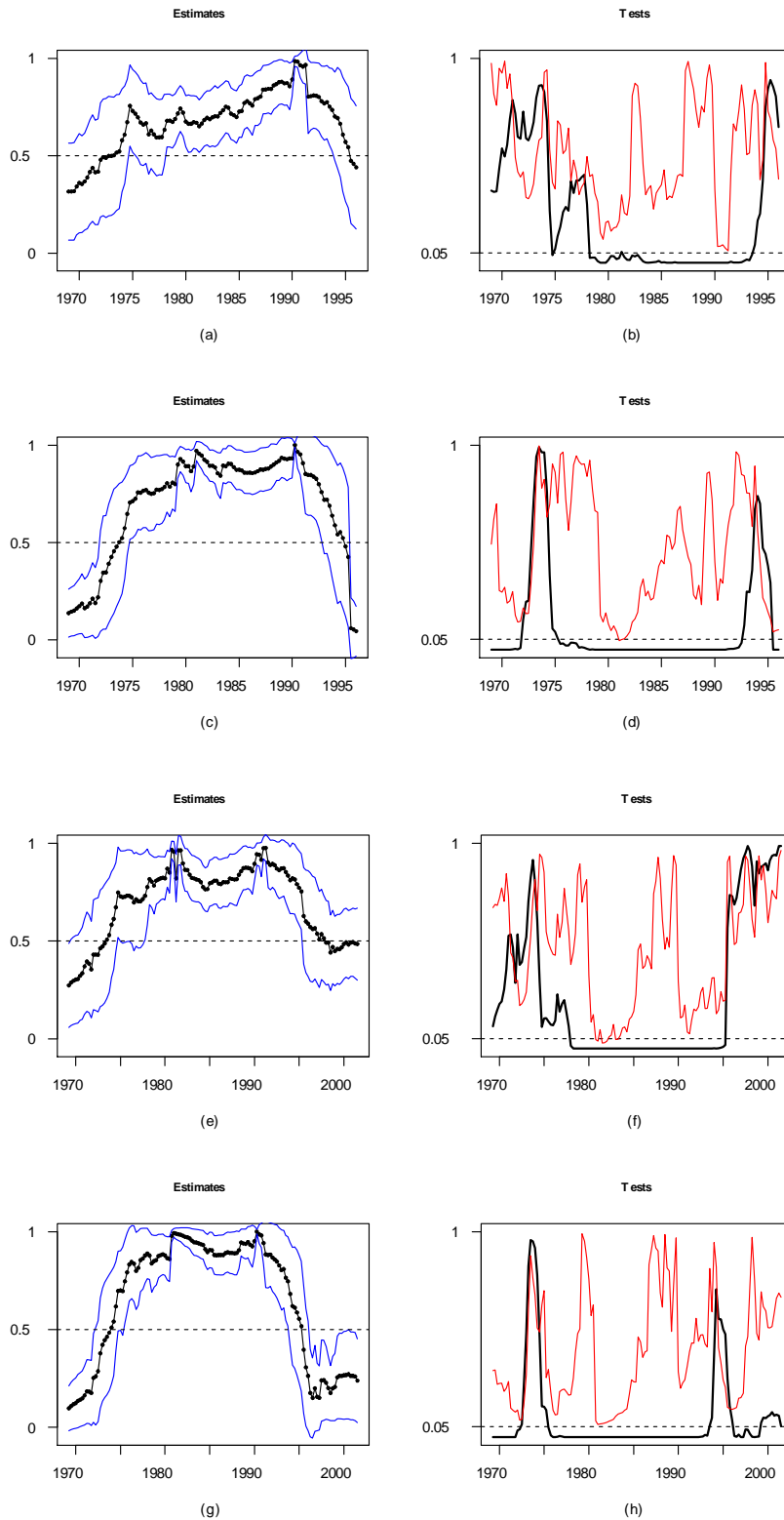
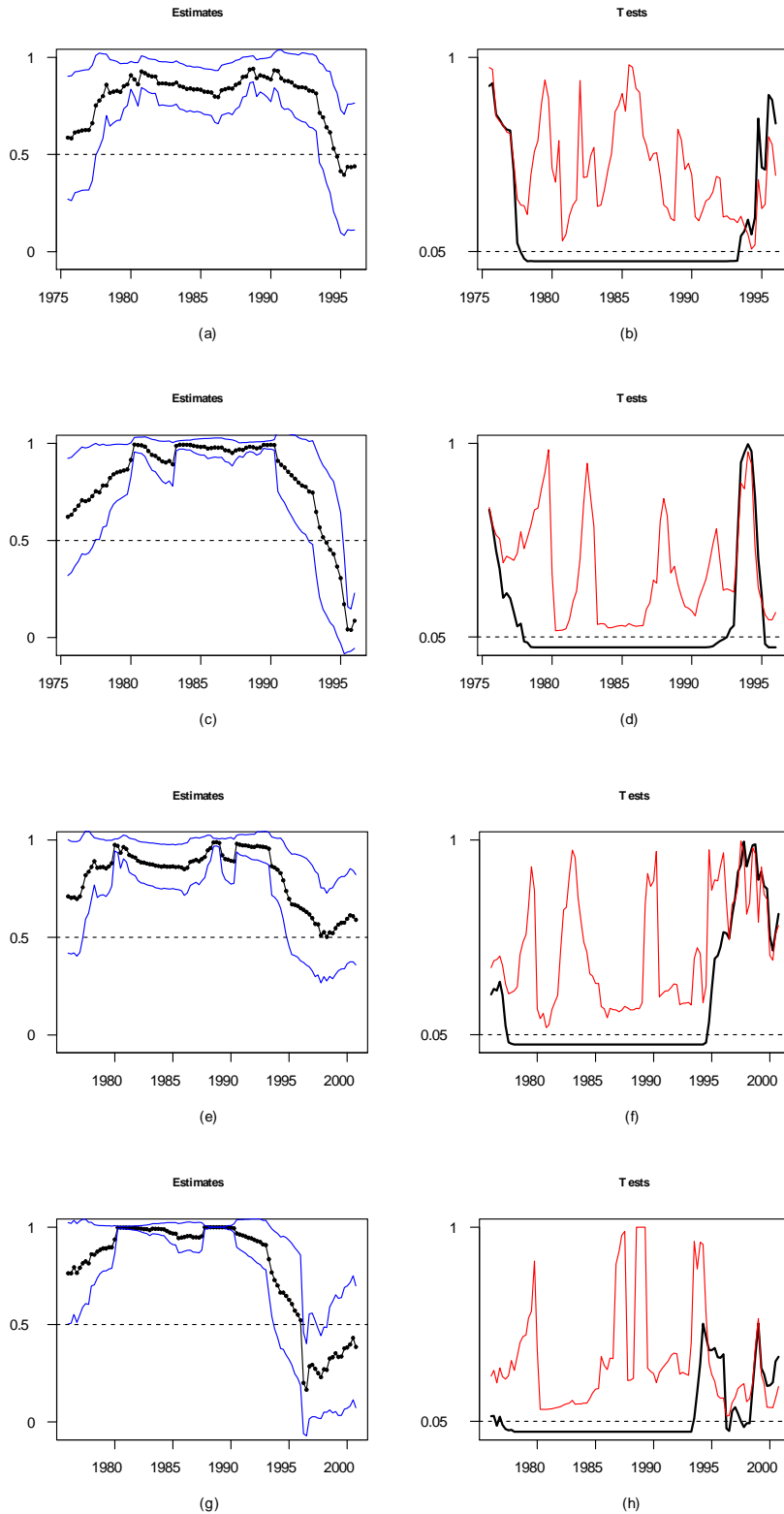


Figure 4. Inflation Rate Forecast ($h = 4$). Notes. Estimates and Tests with 4-step-ahead inflation rate forecast: (a) and (b) with Greenbook and real-time data, (c) and (d) with Greenbook and revised data, (e) and (f) with SPF and real-time data, (g) and (h) with SPF and revised data. $V_t = (1 \ y_{t-1})'$ is used.



$$\mathbf{2} \quad V_t = (1 \ f_{t+h})'$$

Figure 5. Real Output Growth Forecast ($h = 1$). Estimates and Tests with 1-step-ahead real output growth forecast: (a) and (b) with Greenbook and real-time data, (c) and (d) with Greenbook and revised data, (e) and (f) with SPF and real-time data, (g) and (h) with SPF and revised data. $V_t = (1 \ f_{t+h})'$ is used.

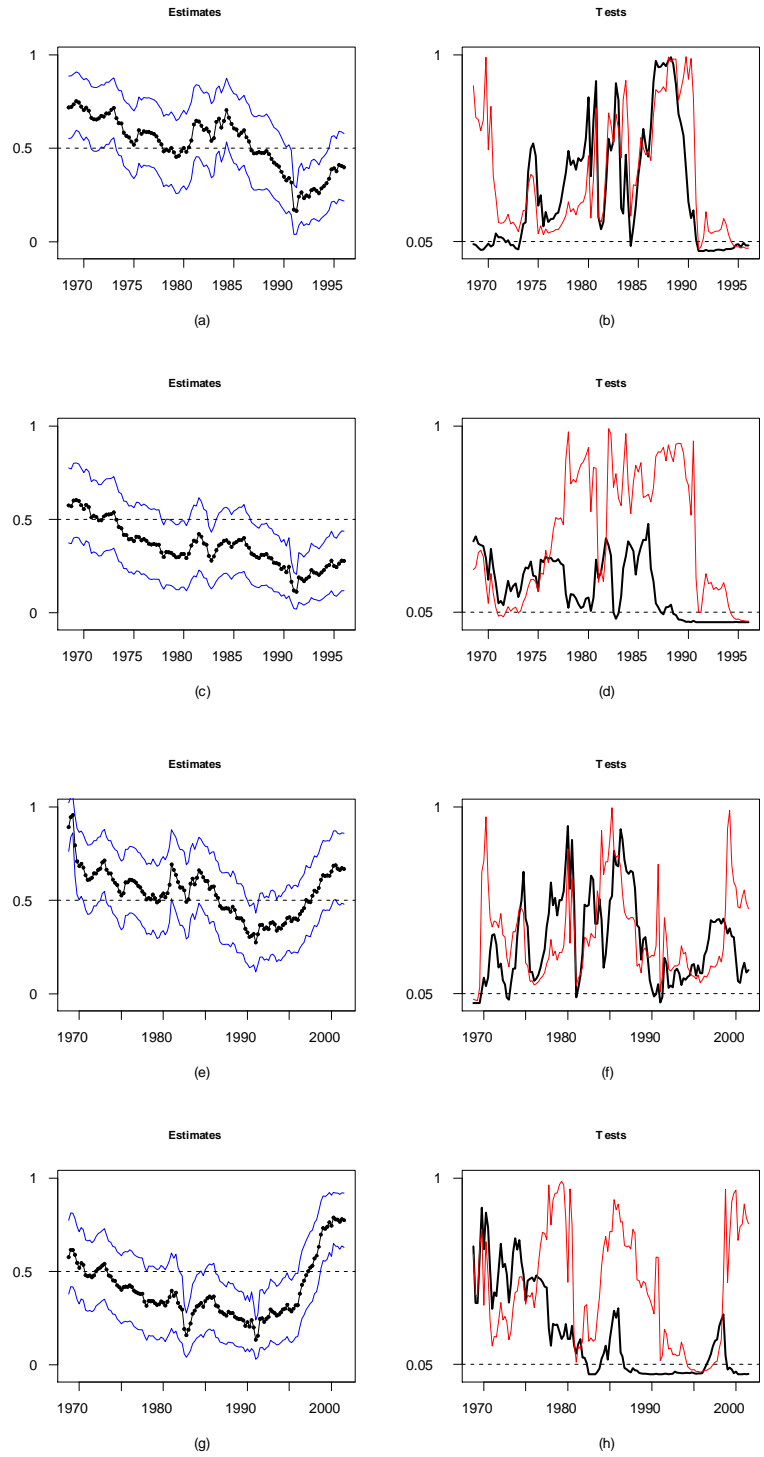


Figure 6. Real Output Growth Forecast ($h = 4$). Notes. Estimates and Tests with 4-step-ahead real output growth forecast: (a) and (b) with Greenbook and real-time data, (c) and (d) with Greenbook and revised data, (e) and (f) with SPF and real-time data, (g) and (h) with SPF and revised data. $V_t = (1 \ f_{t+h})'$ is used.

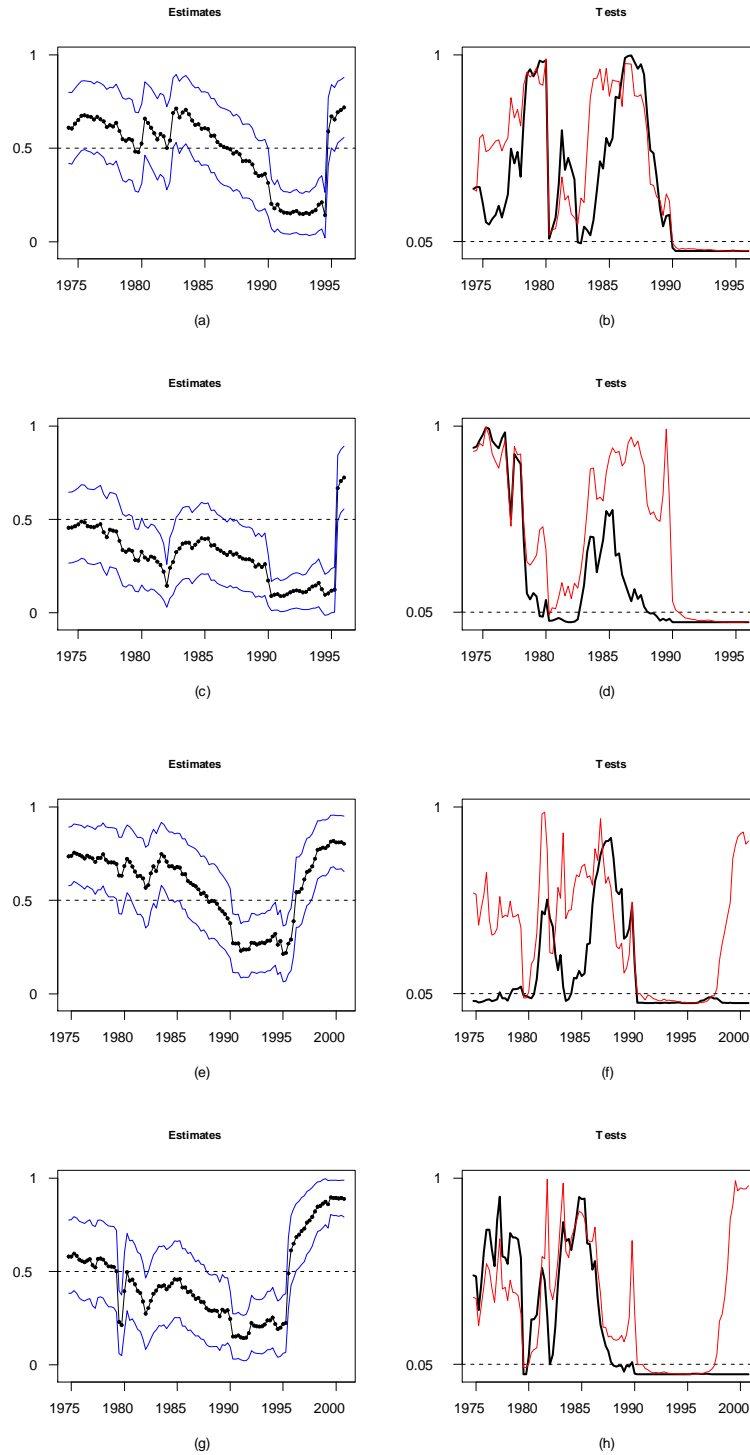


Figure 7. Inflation Rate Forecast ($h = 1$). Notes. Estimates and Tests with 1-step-ahead inflation rate forecast: (a) and (b) with Greenbook and real-time data, (c) and (d) with Greenbook and revised data, (e) and (f) with SPF and real-time data, (g) and (h) with SPF and revised data. $V_t = (1 \ f_{t+h})'$ is used.

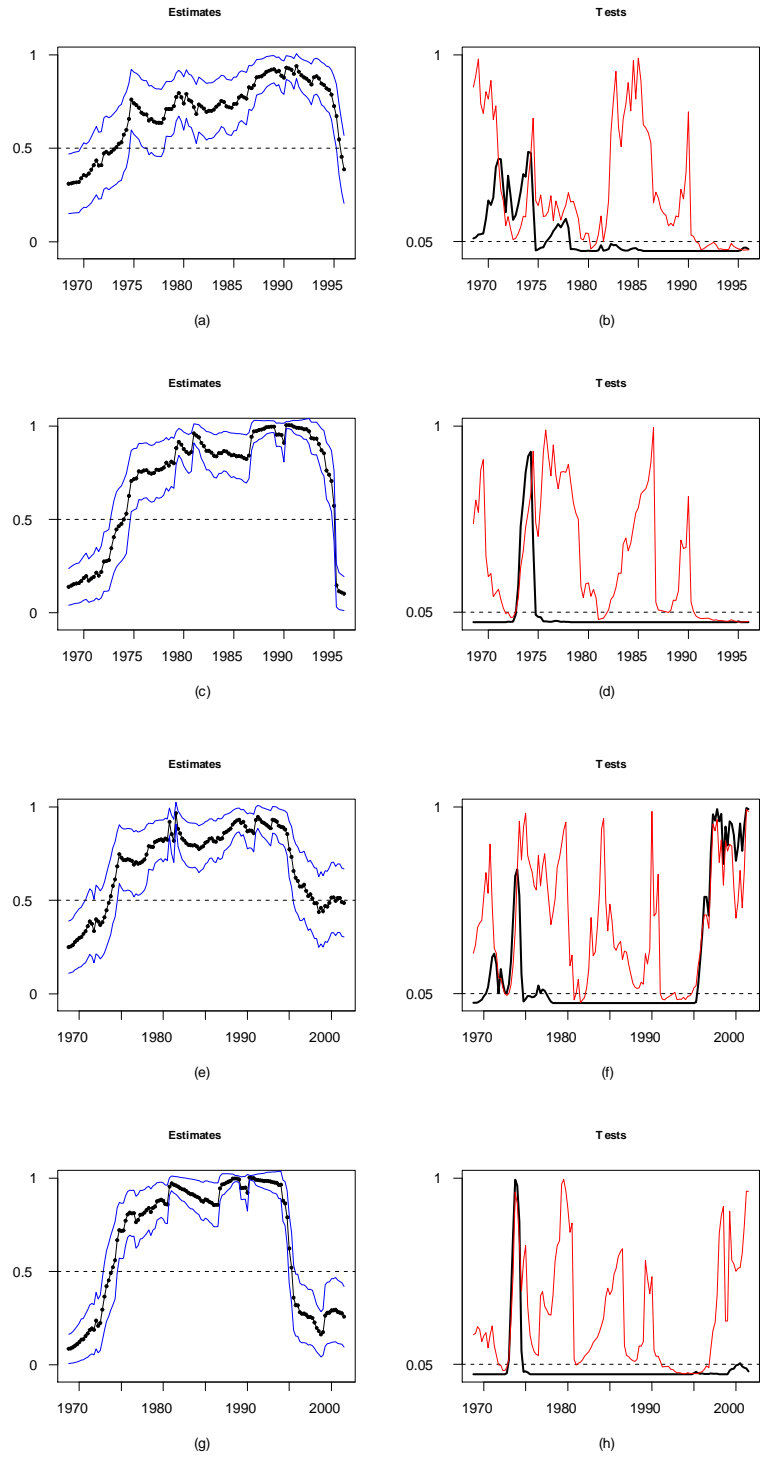
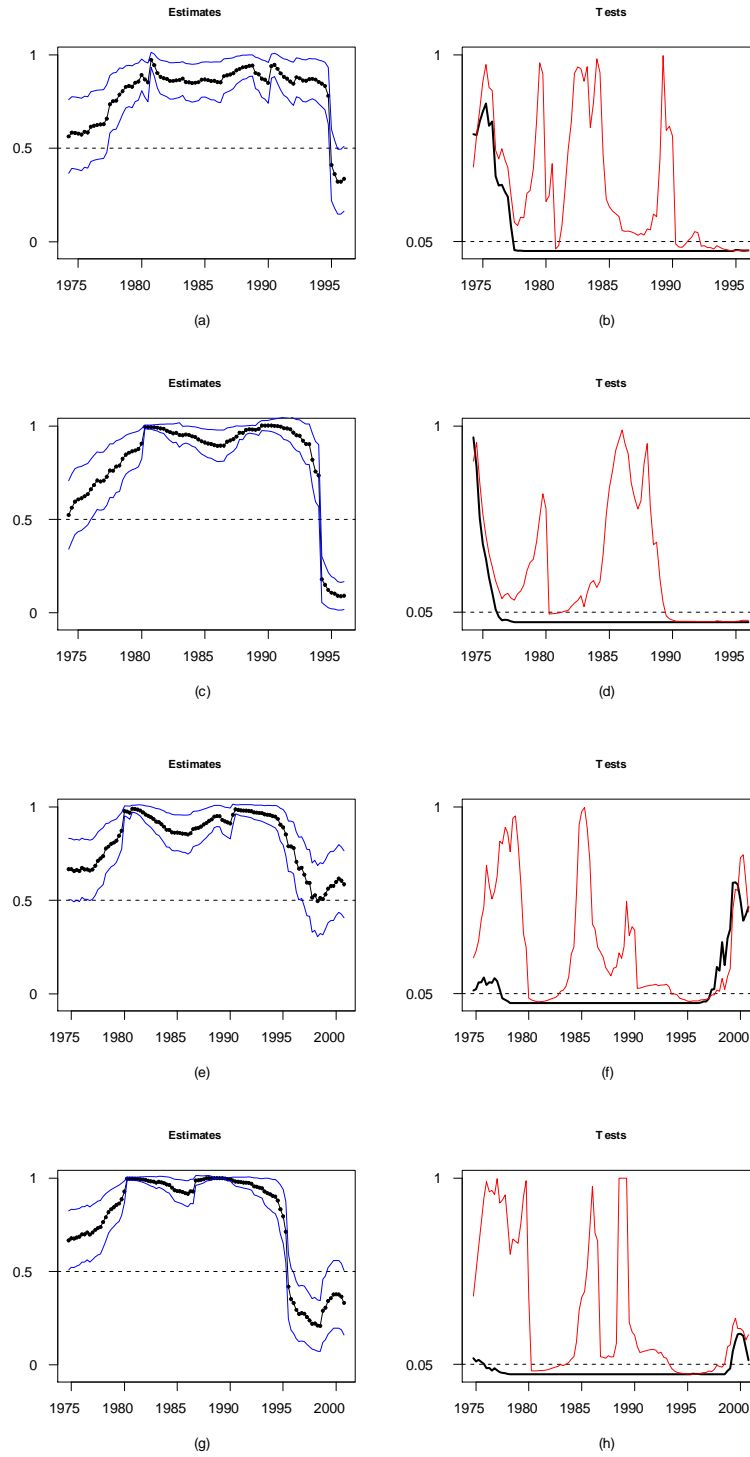


Figure 8. Inflation Rate Forecast ($h = 4$). Notes. Estimates and Tests with 4-step-ahead inflation rate forecast: (a) and (b) with Greenbook and real-time data, (c) and (d) with Greenbook and revised data, (e) and (f) with SPF and real-time data, (g) and (h) with SPF and revised data. $V_t = (1 \ f_{t+h})'$ is used.



$$\mathbf{3} \quad V_t = (1 \ y_{t-1} \ f_{t+h})'$$

Figure 9. Real Output Growth Forecast ($h = 1$). Estimates and Tests with 1-step-ahead real output growth forecast: (a) and (b) with Greenbook and real-time data, (c) and (d) with Greenbook and revised data, (e) and (f) with SPF and real-time data, (g) and (h) with SPF and revised data. $V_t = (1 \ y_{t-1} \ f_{t+h})'$ is used.

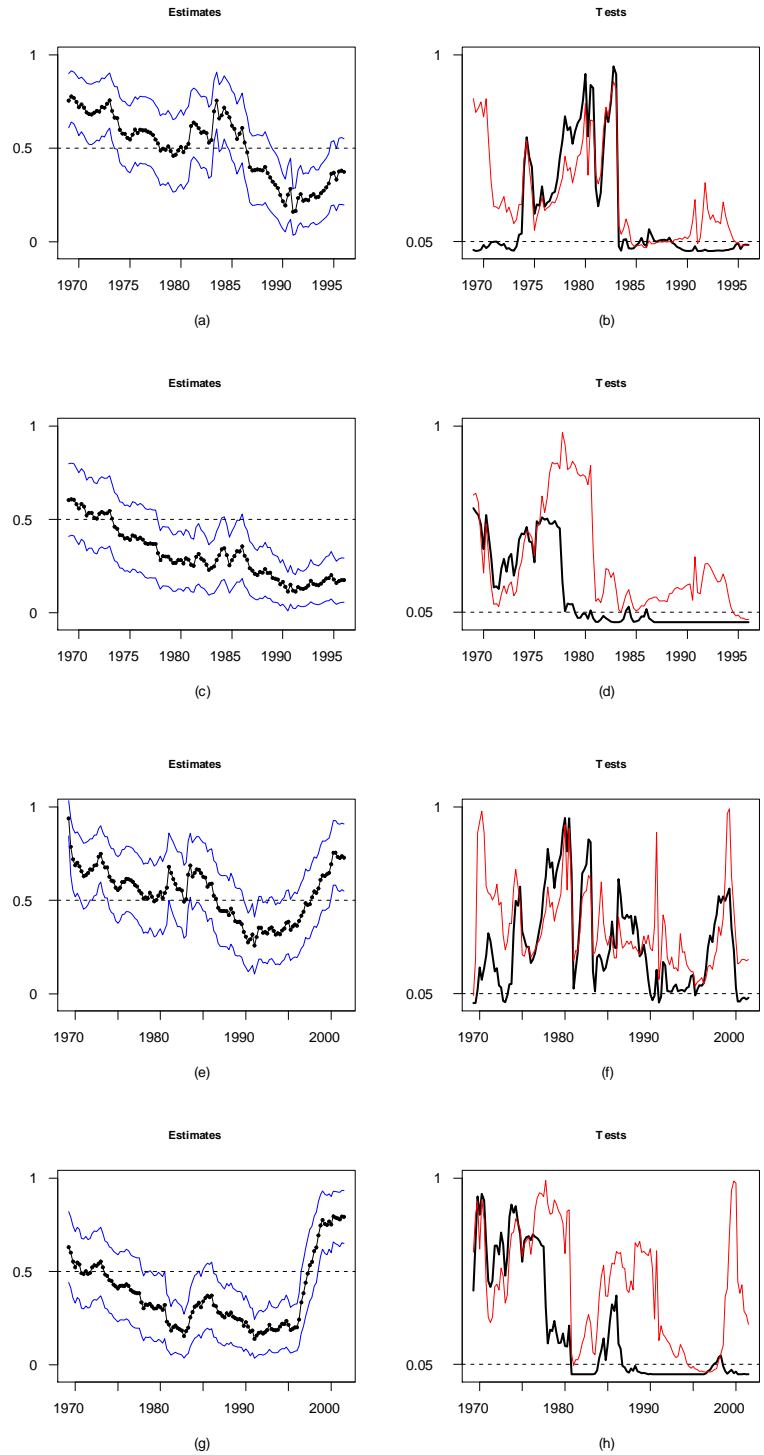


Figure 10. Real Output Growth Forecast ($h = 4$). Notes. Estimates and Tests with 4-step-ahead real output growth forecast: (a) and (b) with Greenbook and real-time data, (c) and (d) with Greenbook and revised data, (e) and (f) with SPF and real-time data, (g) and (h) with SPF and revised data. $V_t = (1 \ y_{t-1} \ f_{t+h})'$ is used.

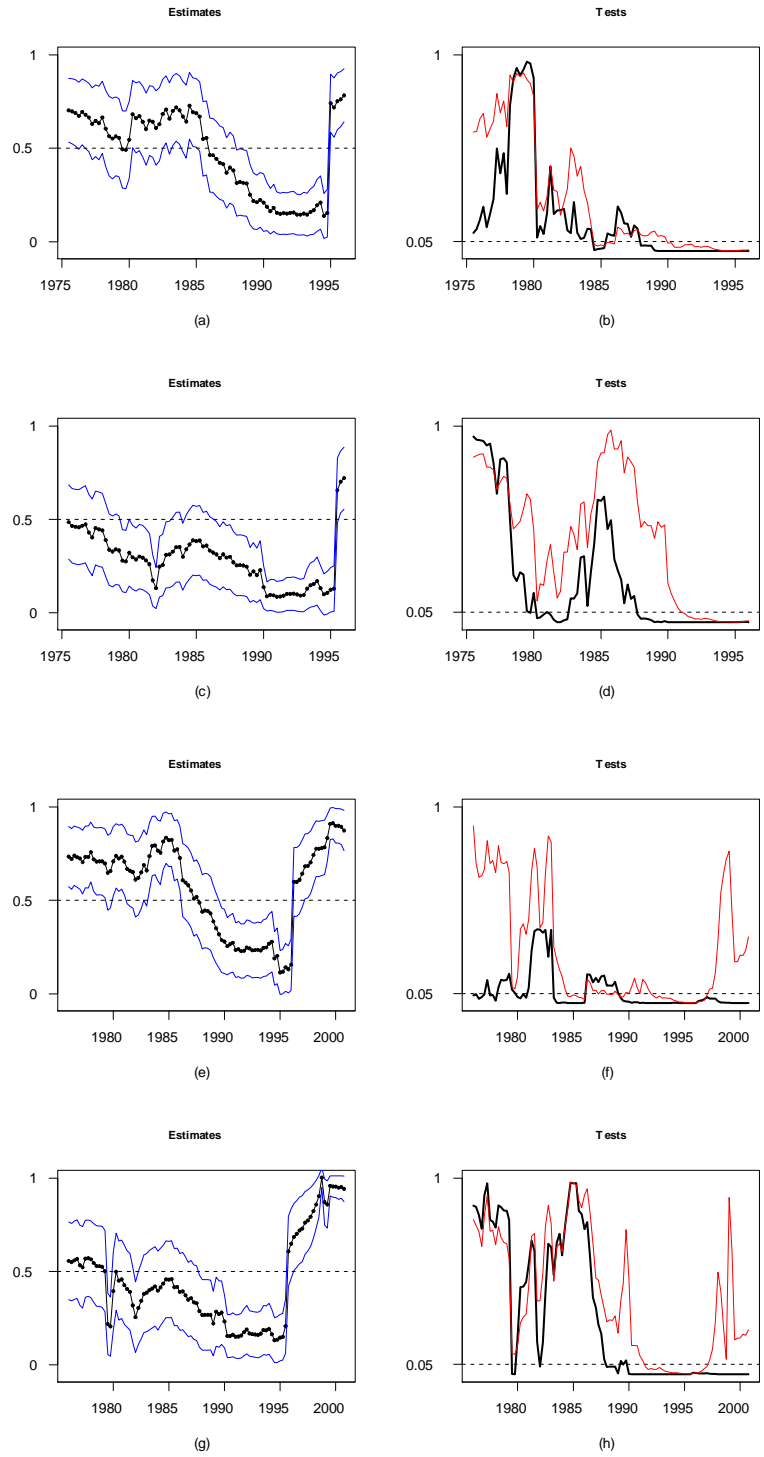


Figure 11. Inflation Rate Forecast ($h = 1$). Notes. Estimates and Tests with 1-step-ahead inflation rate forecast: (a) and (b) with Greenbook and real-time data, (c) and (d) with Greenbook and revised data, (e) and (f) with SPF and real-time data, (g) and (h) with SPF and revised data. $V_t = (1 \ y_{t-1} \ f_{t+h})'$ is used.

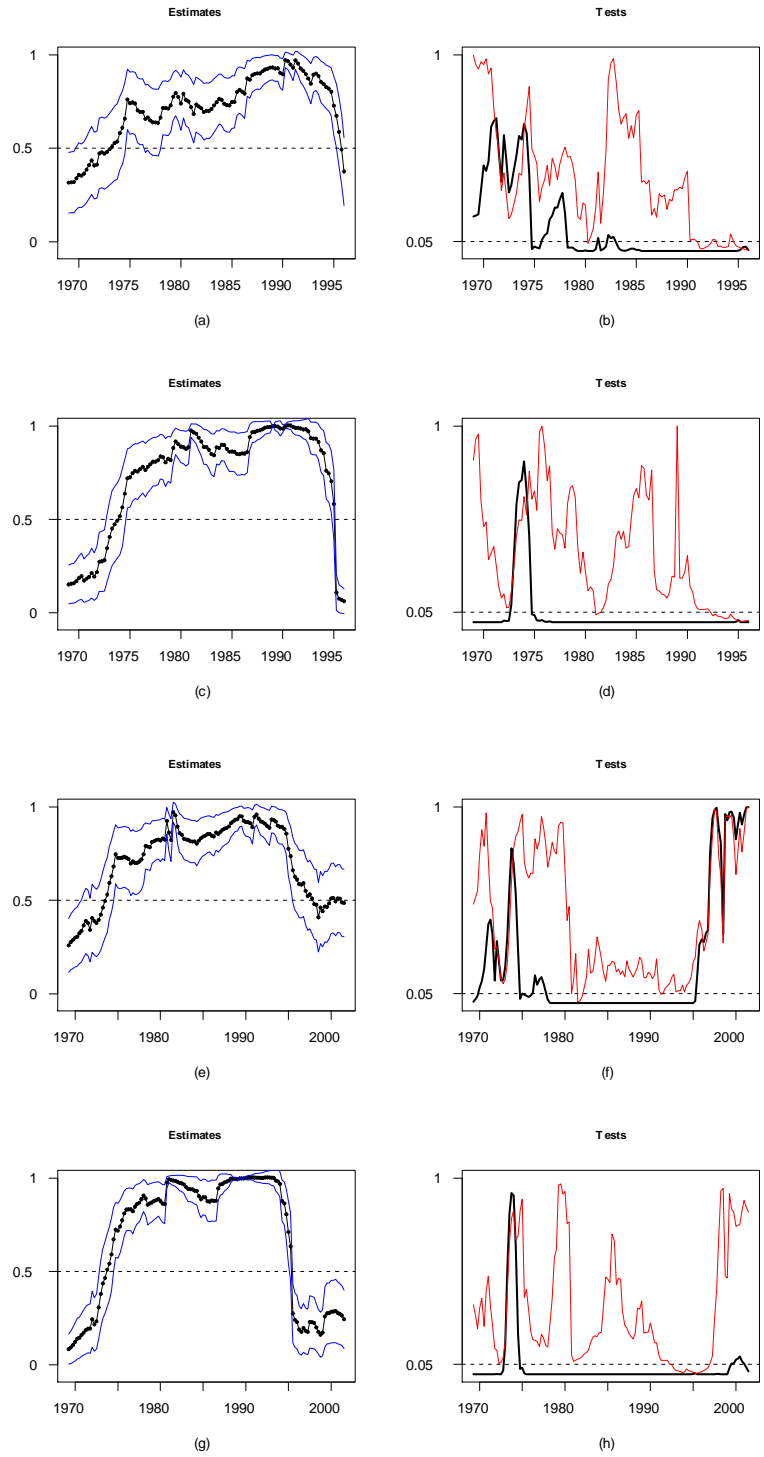
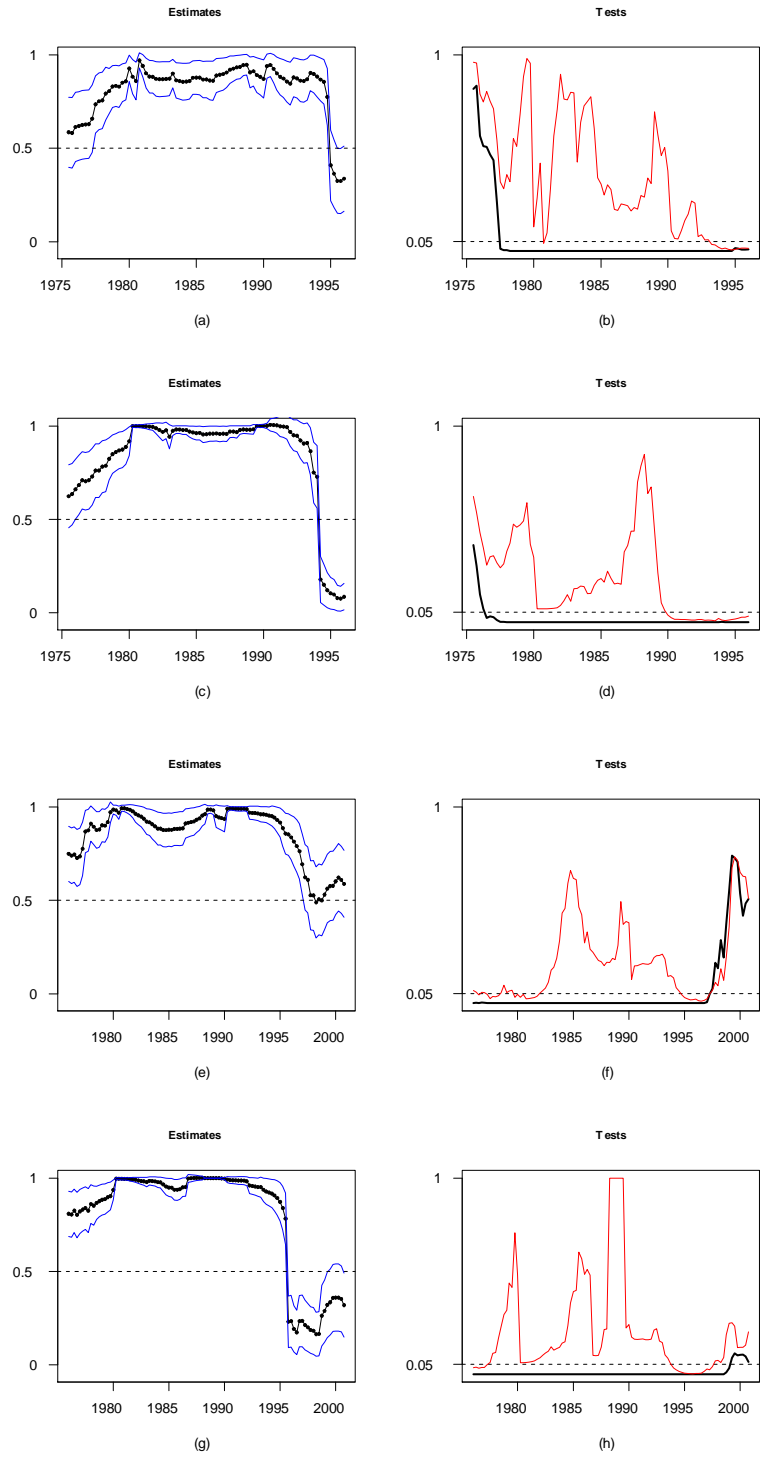


Figure 12. Inflation Rate Forecast ($h = 4$). Notes. Estimates and Tests with 4-step-ahead inflation rate forecast: (a) and (b) with Greenbook and real-time data, (c) and (d) with Greenbook and revised data, (e) and (f) with SPF and real-time data, (g) and (h) with SPF and revised data. $V_t = (1 \ y_{t-1} \ f_{t+h})'$ is used.



$$4 \quad V_t = (1 \ \hat{\varepsilon}_{t-1})'$$

Figure 13. Real Output Growth Forecast ($h = 1$). Estimates and Tests with 1-step-ahead real output growth forecast: (a) and (b) with Greenbook and real-time data, (c) and (d) with Greenbook and revised data, (e) and (f) with SPF and real-time data, (g) and (h) with SPF and revised data. $V_t = (1 \hat{\varepsilon}_{t-1})'$ is used.

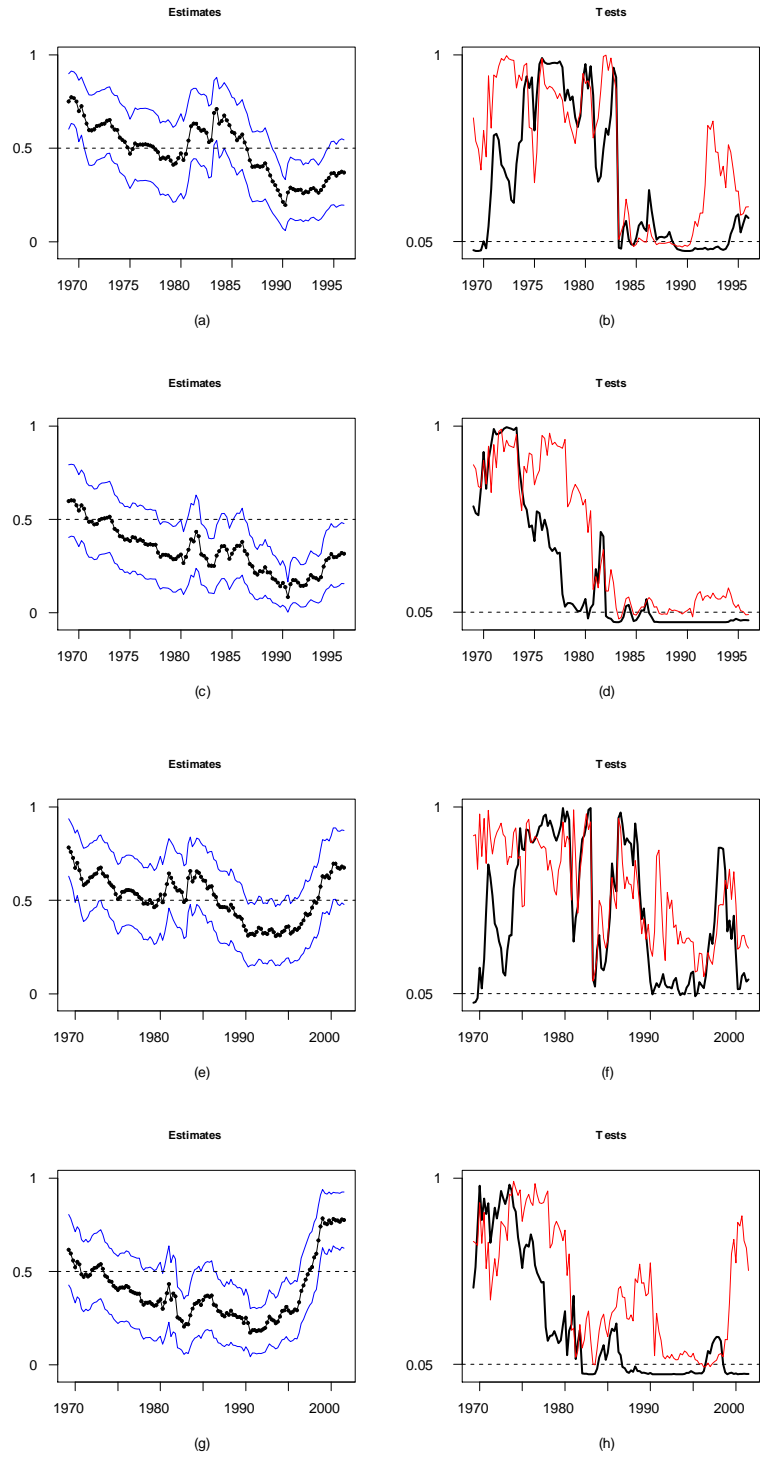


Figure 14. Real Output Growth Forecast ($h = 4$). Notes. Estimates and Tests with 4-step-ahead real output growth forecast: (a) and (b) with Greenbook and real-time data, (c) and (d) with Greenbook and revised data, (e) and (f) with SPF and real-time data, (g) and (h) with SPF and revised data. $V_t = (1 \hat{\varepsilon}_{t-1})'$ is used.

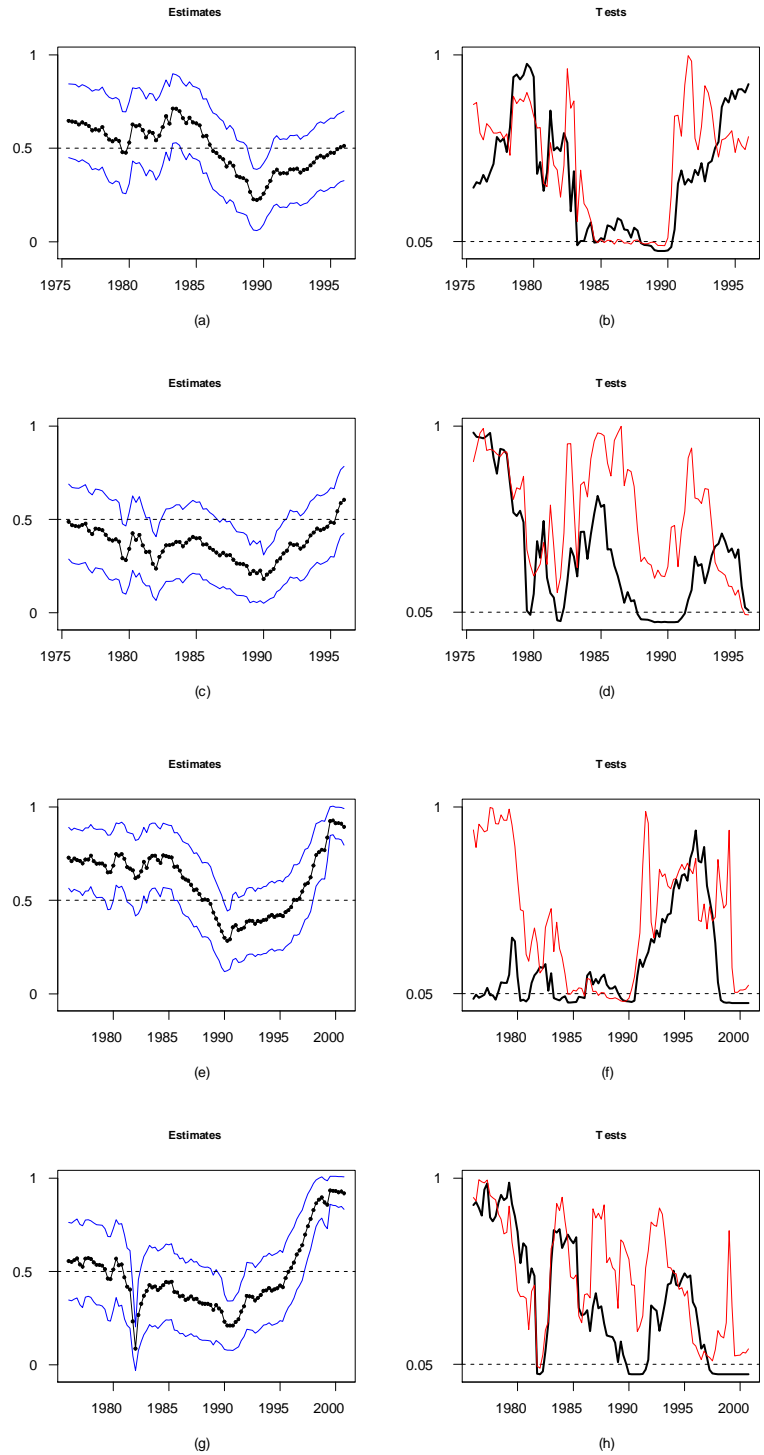


Figure 15. Inflation Rate Forecast ($h = 1$). Notes. Estimates and Tests with 1-step-ahead inflation rate forecast: (a) and (b) with Greenbook and real-time data, (c) and (d) with Greenbook and revised data, (e) and (f) with SPF and real-time data, (g) and (h) with SPF and revised data. $V_t = (1 \hat{\varepsilon}_{t-1})'$ is used.

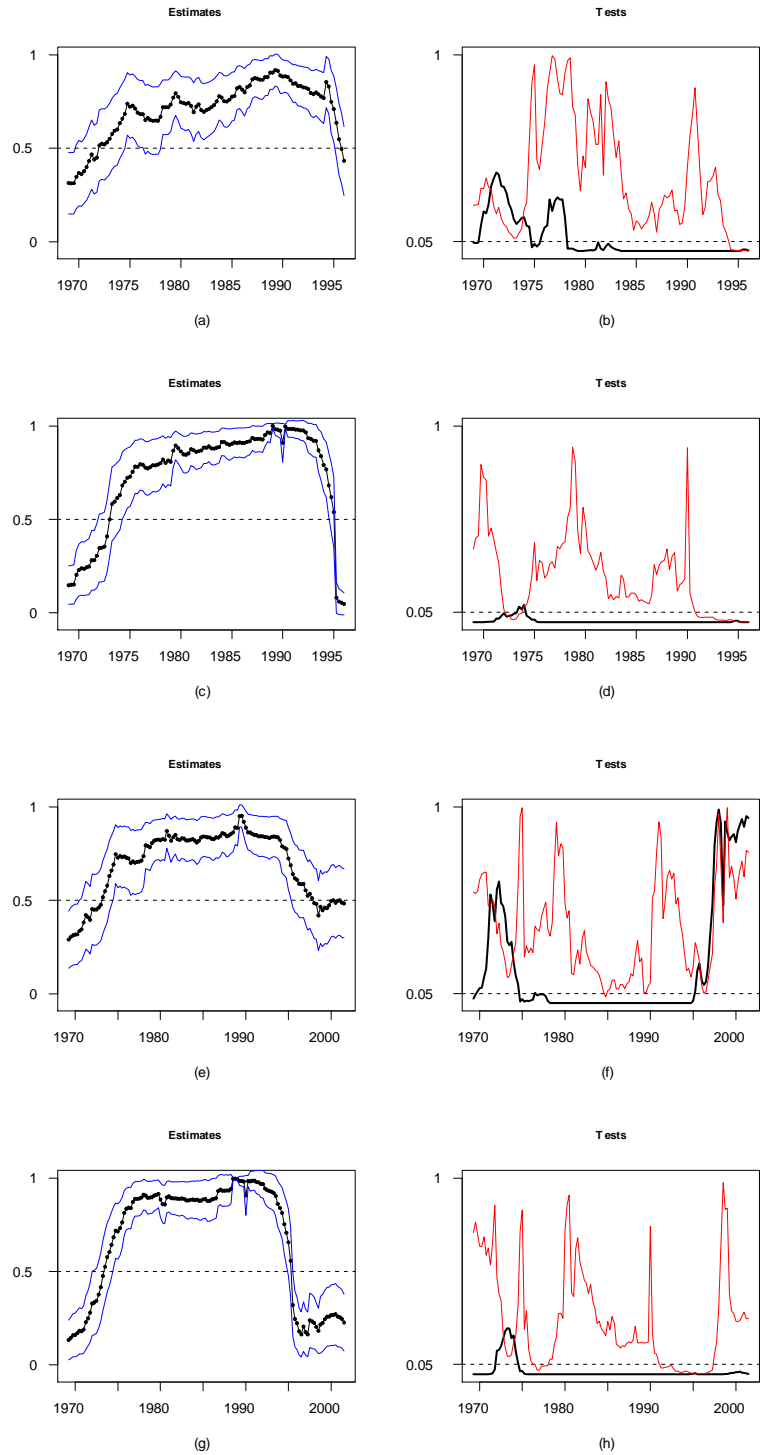
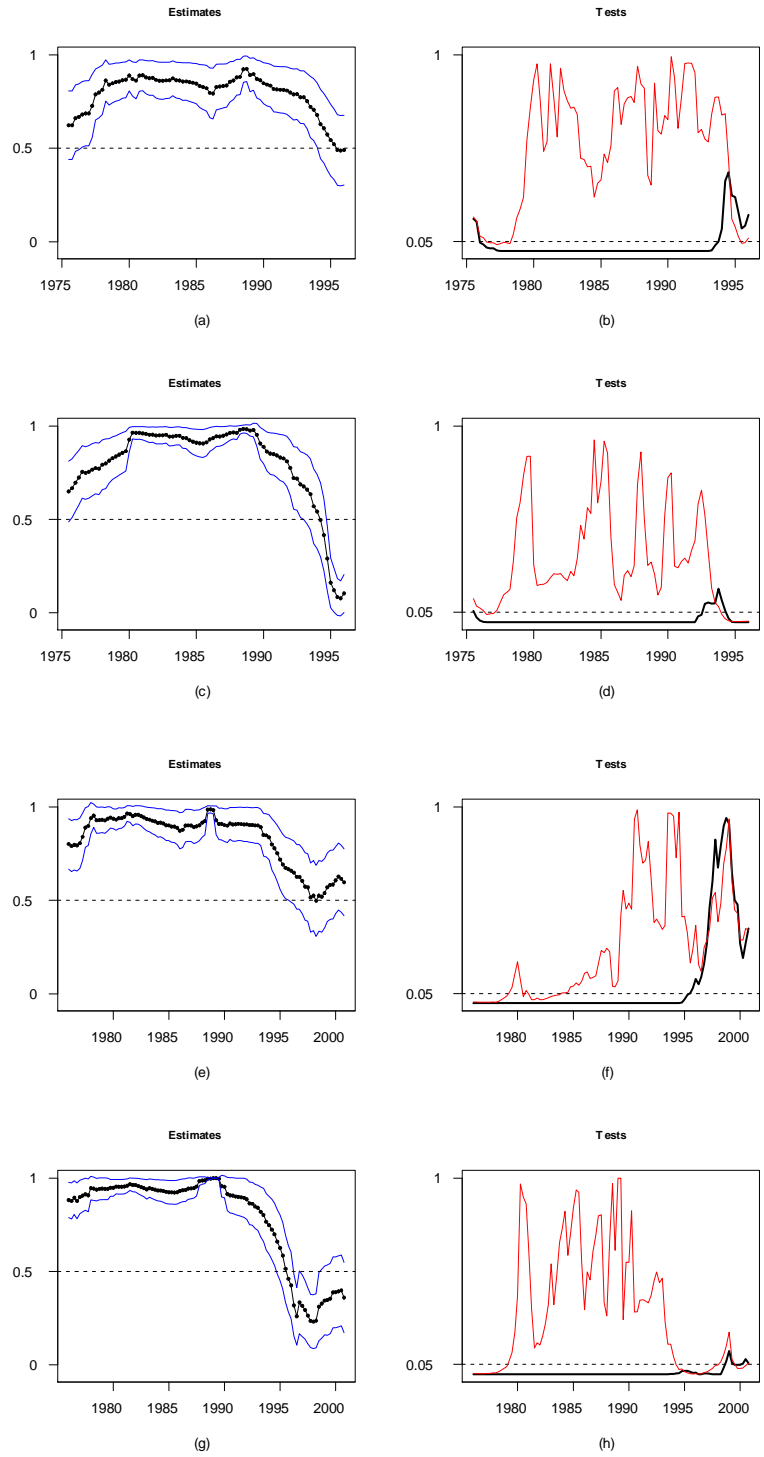


Figure 16. Inflation Rate Forecast ($h = 4$). Notes. Estimates and Tests with 4-step-ahead inflation rate forecast: (a) and (b) with Greenbook and real-time data, (c) and (d) with Greenbook and revised data, (e) and (f) with SPF and real-time data, (g) and (h) with SPF and revised data. $V_t = (1 \hat{\varepsilon}_{t-1})'$ is used.



$$\mathbf{5} \quad V_t = (1 \ y_{t-1} \ \hat{\varepsilon}_{t-1})'$$

Figure 17. Real Output Growth Forecast ($h = 1$). Estimates and Tests with 1-step-ahead real output growth forecast: (a) and (b) with Greenbook and real-time data, (c) and (d) with Greenbook and revised data, (e) and (f) with SPF and real-time data, (g) and (h) with SPF and revised data. $V_t = (1 \ y_{t-1} \ \hat{\varepsilon}_{t-1})'$ is used.

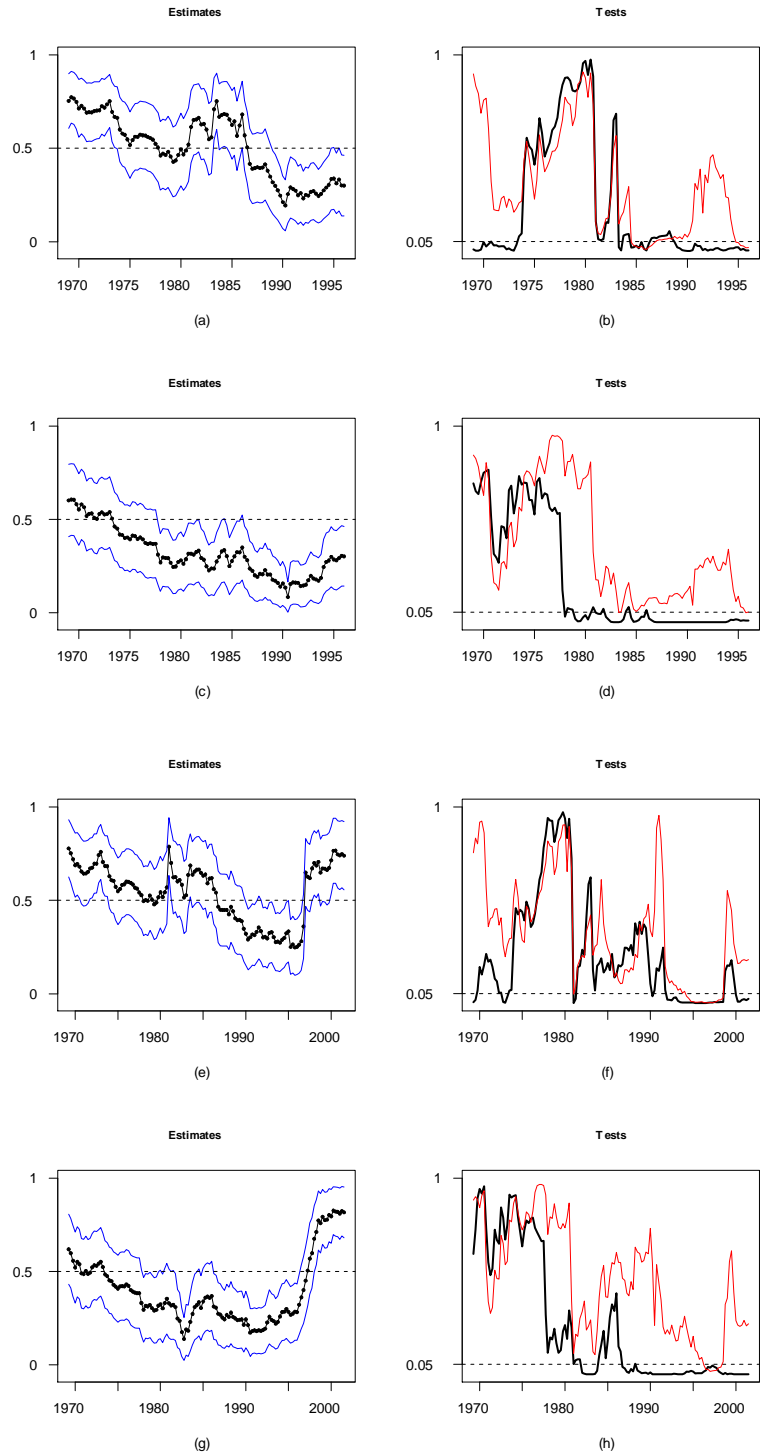


Figure 18. Real Output Growth Forecast ($h = 4$). Notes. Estimates and Tests with 4-step-ahead real output growth forecast: (a) and (b) with Greenbook and real-time data, (c) and (d) with Greenbook and revised data, (e) and (f) with SPF and real-time data, (g) and (h) with SPF and revised data. $V_t = (1 \ y_{t-1} \ \hat{\varepsilon}_{t-1})'$ is used.

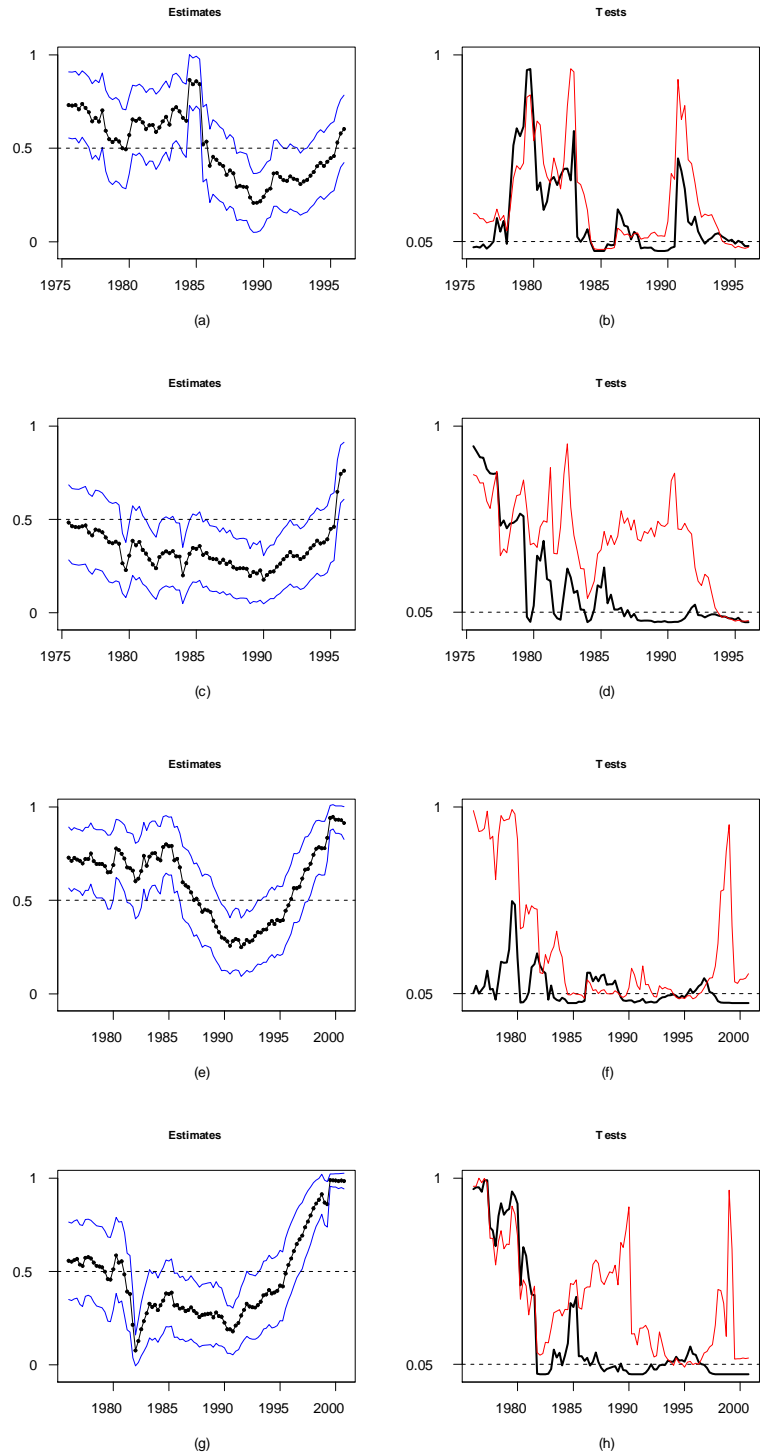


Figure 19. Inflation Rate Forecast ($h = 1$). Notes. Estimates and Tests with 1-step-ahead inflation rate forecast: (a) and (b) with Greenbook and real-time data, (c) and (d) with Greenbook and revised data, (e) and (f) with SPF and real-time data, (g) and (h) with SPF and revised data. $V_t = (1 \ y_{t-1} \ \hat{\varepsilon}_{t-1})'$ is used.

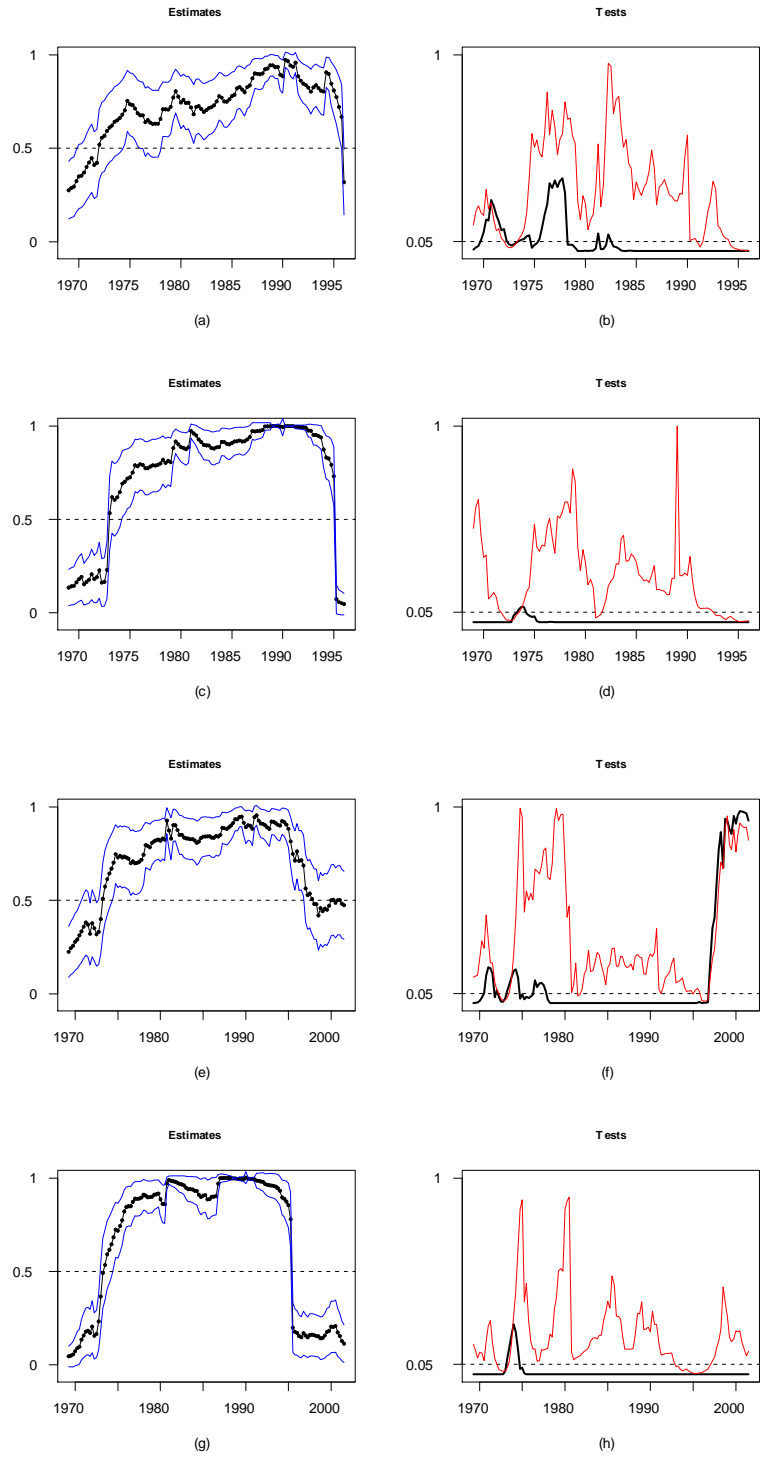
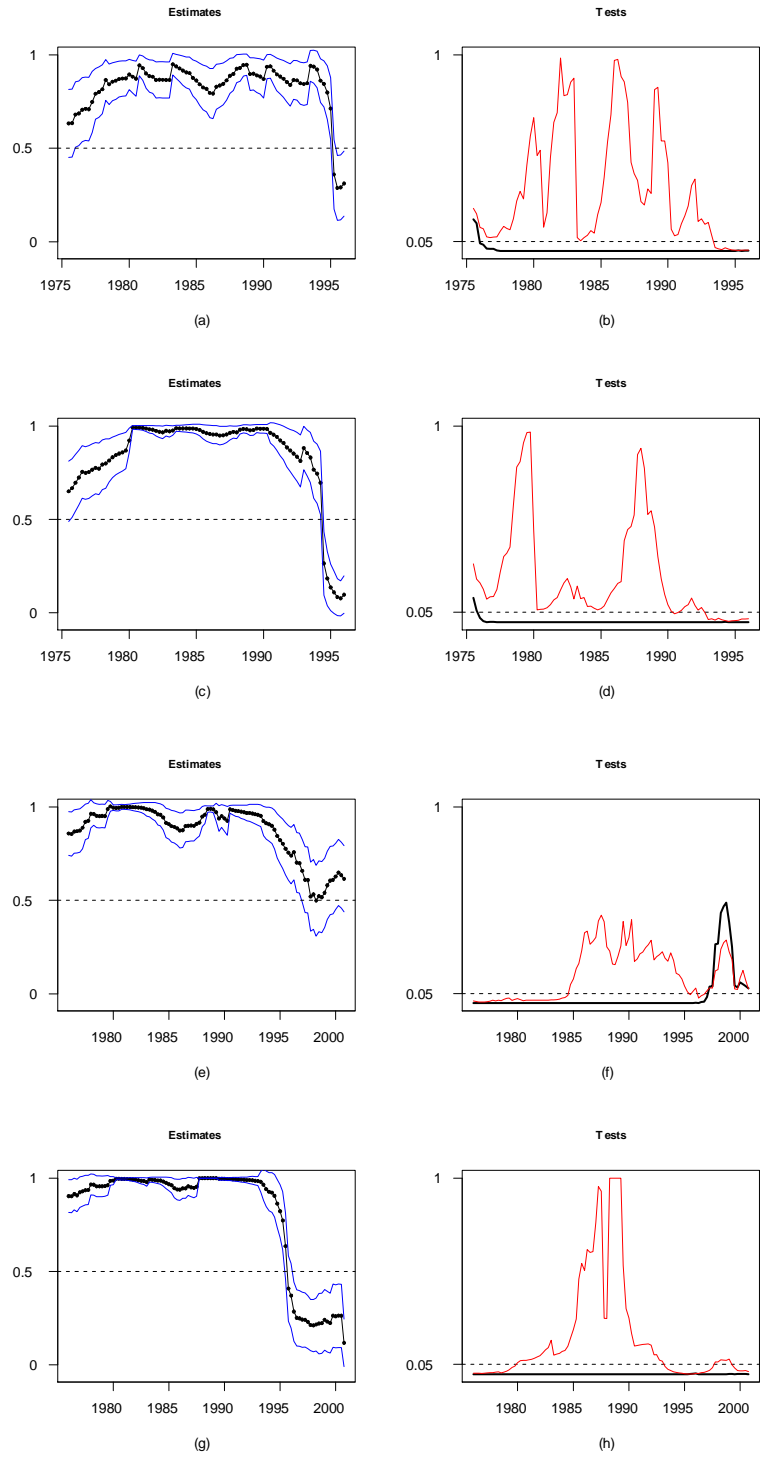


Figure 20. Inflation Rate Forecast ($h = 4$). Notes. Estimates and Tests with 4-step-ahead inflation rate forecast: (a) and (b) with Greenbook and real-time data, (c) and (d) with Greenbook and revised data, (e) and (f) with SPF and real-time data, (g) and (h) with SPF and revised data. $V_t = (1 \ y_{t-1} \ \hat{\varepsilon}_{t-1})'$ is used.



$$\mathbf{6} \quad V_t = (1 \ y_{t-1} \ y_{t-1}^2)'$$

Figure 21. Real Output Growth Forecast ($h = 1$). Estimates and Tests with 1-step-ahead real output growth forecast: (a) and (b) with Greenbook and real-time data, (c) and (d) with Greenbook and revised data, (e) and (f) with SPF and real-time data, (g) and (h) with SPF and revised data. $V_t = (1 \ y_{t-1} \ y_{t-1}^2)'$ is used.

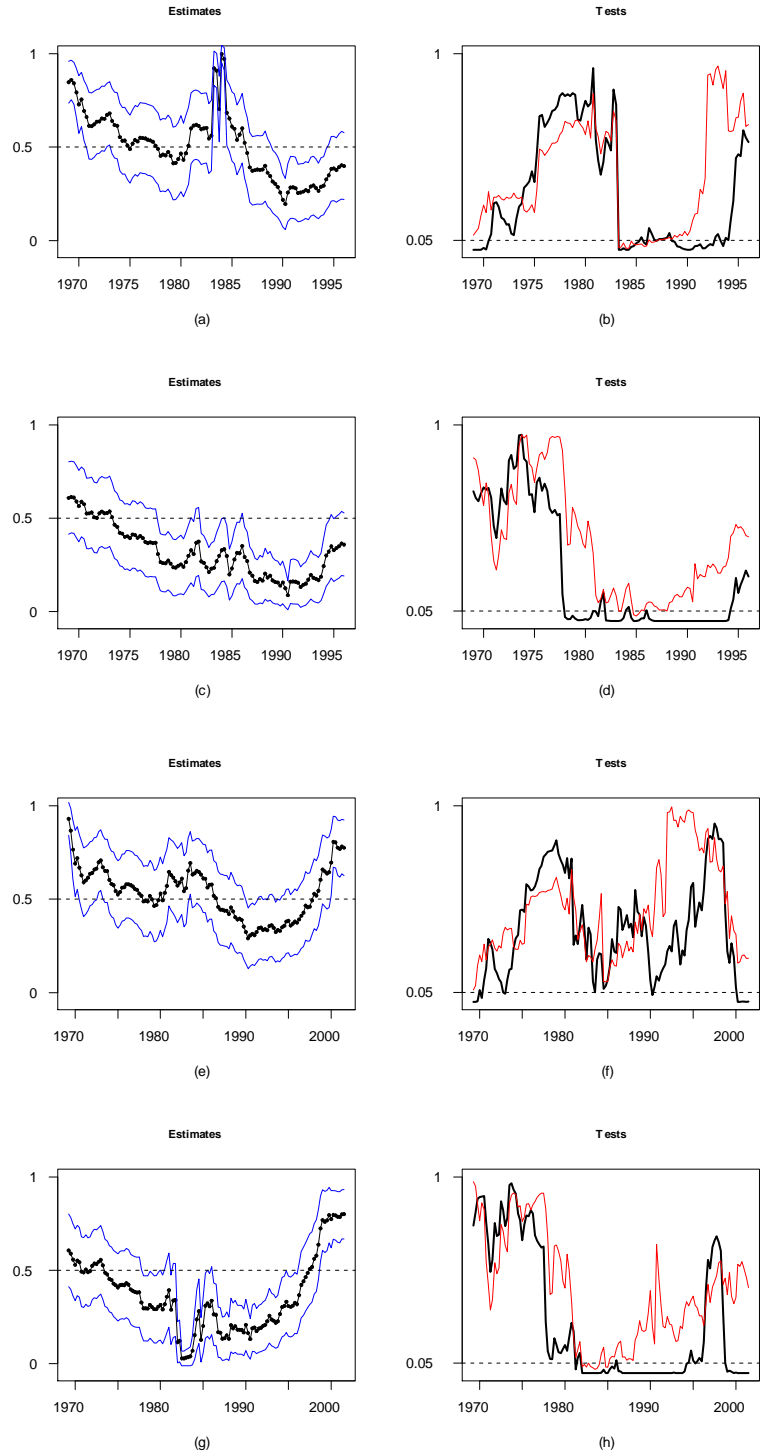


Figure 22. Real Output Growth Forecast ($h = 4$). Notes. Estimates and Tests with 4-step-ahead real output growth forecast: (a) and (b) with Greenbook and real-time data, (c) and (d) with Greenbook and revised data, (e) and (f) with SPF and real-time data, (g) and (h) with SPF and revised data. $V_t = (1 \ y_{t-1} \ y_{t-1}^2)'$ is used.

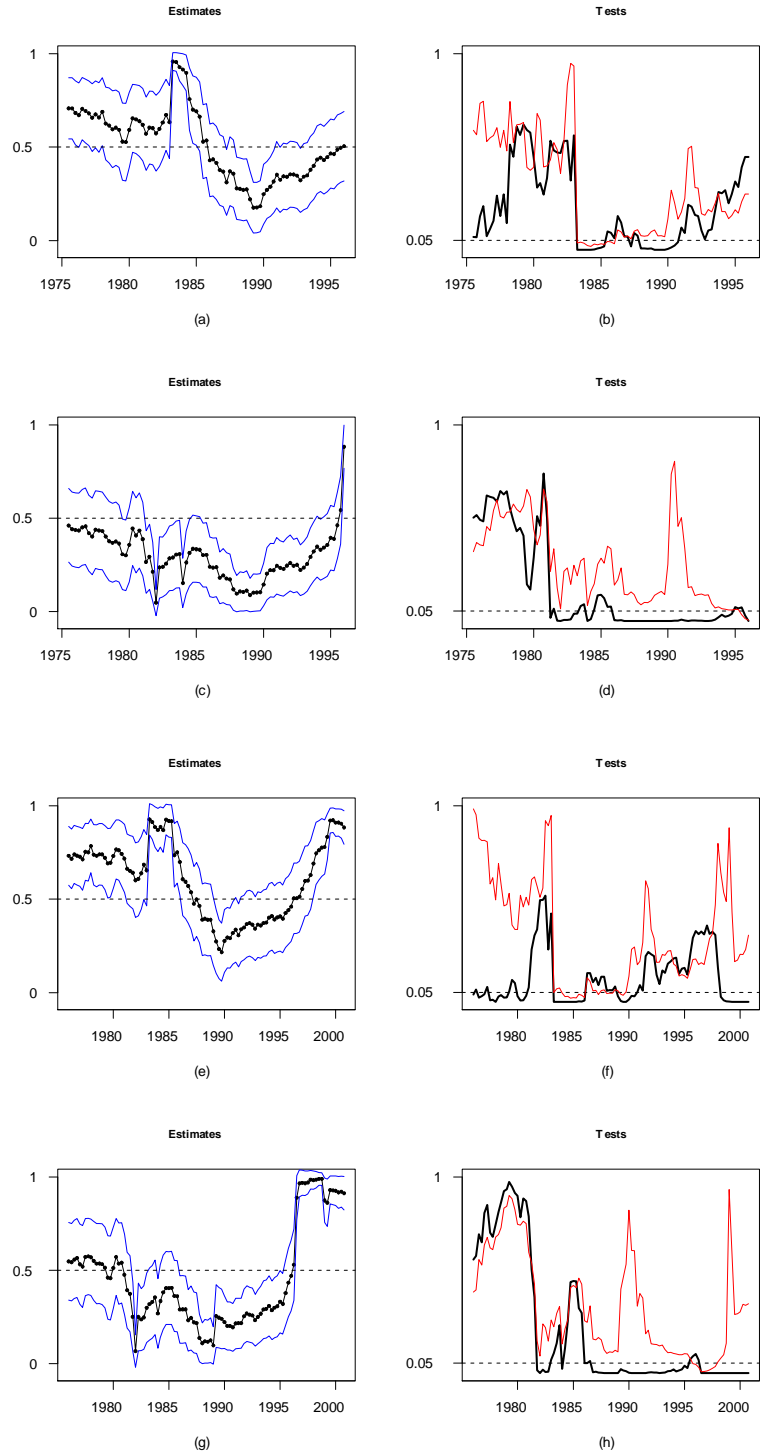


Figure 23. Inflation Rate Forecast ($h = 1$). Notes. Estimates and Tests with 1-step-ahead inflation rate forecast: (a) and (b) with Greenbook and real-time data, (c) and (d) with Greenbook and revised data, (e) and (f) with SPF and real-time data, (g) and (h) with SPF and revised data. $V_t = (1 \ y_{t-1} \ y_{t-1}^2)'$ is used.

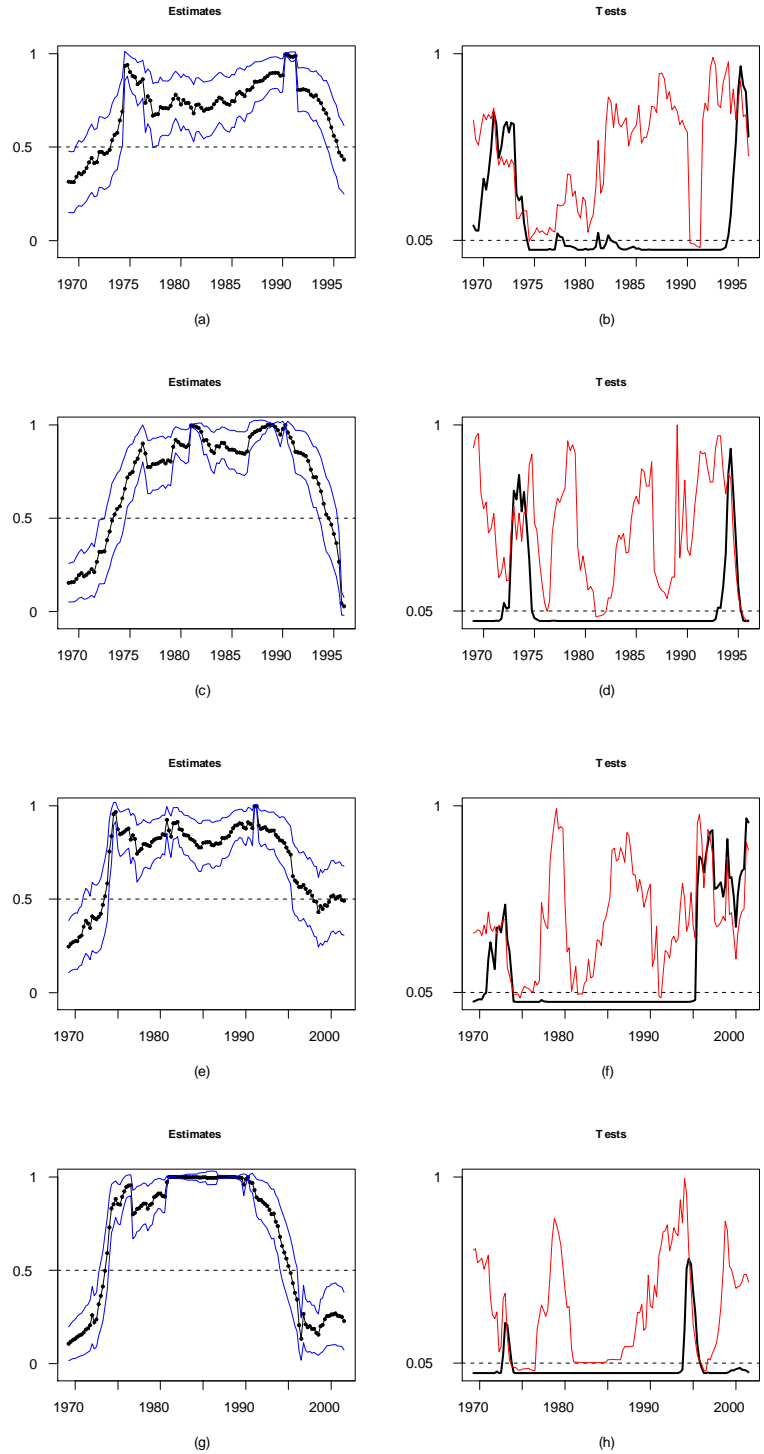


Figure 24. Inflation Rate Forecast ($h = 4$). Notes. Estimates and Tests with 4-step-ahead inflation rate forecast: (a) and (b) with Greenbook and real-time data, (c) and (d) with Greenbook and revised data, (e) and (f) with SPF and real-time data, (g) and (h) with SPF and revised data. $V_t = (1 \ y_{t-1} \ y_{t-1}^2)'$ is used.

