

# VFCI Business Cycle VARs for various VFCI series

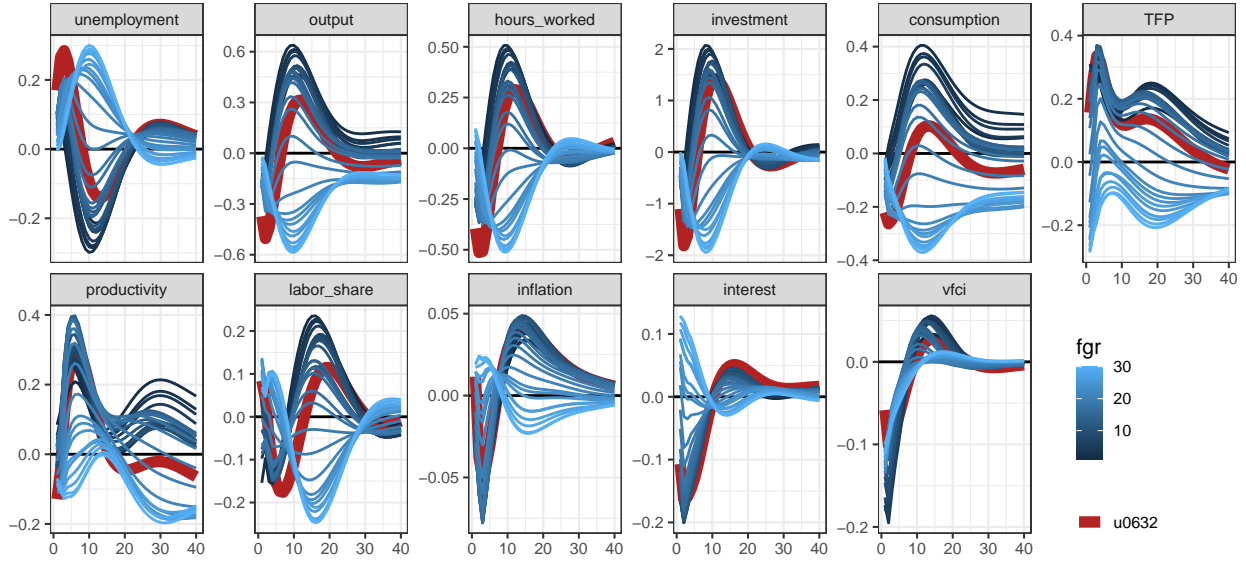


Figure 1: VFCI Target GDPC1, all forward growth rates

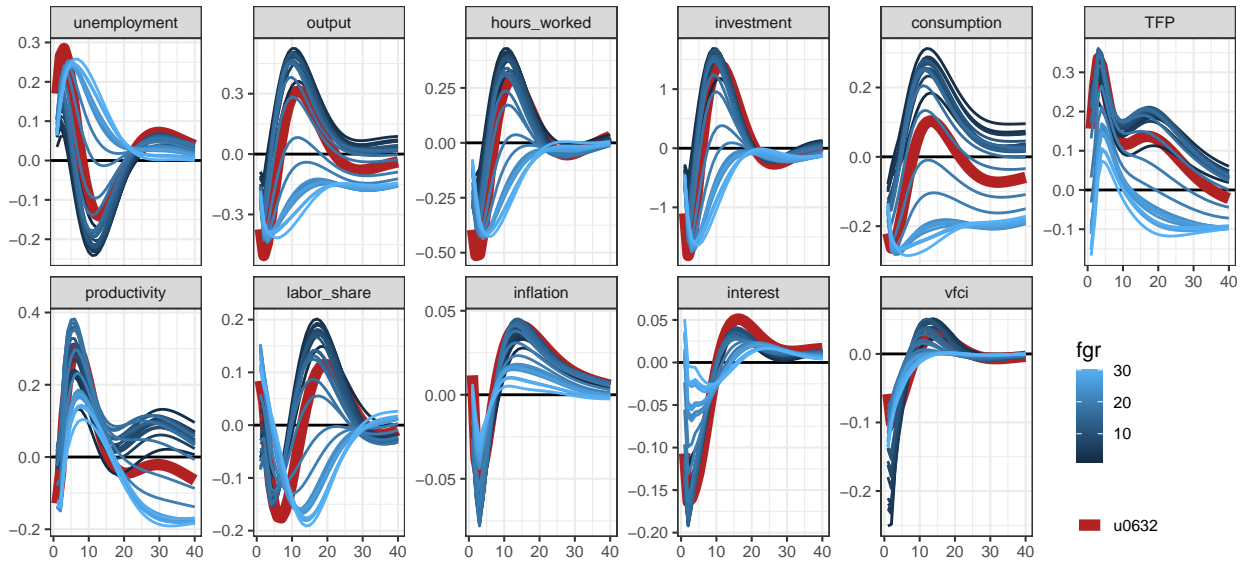


Figure 2: VFCI Target pcecc96, all forward growth rates

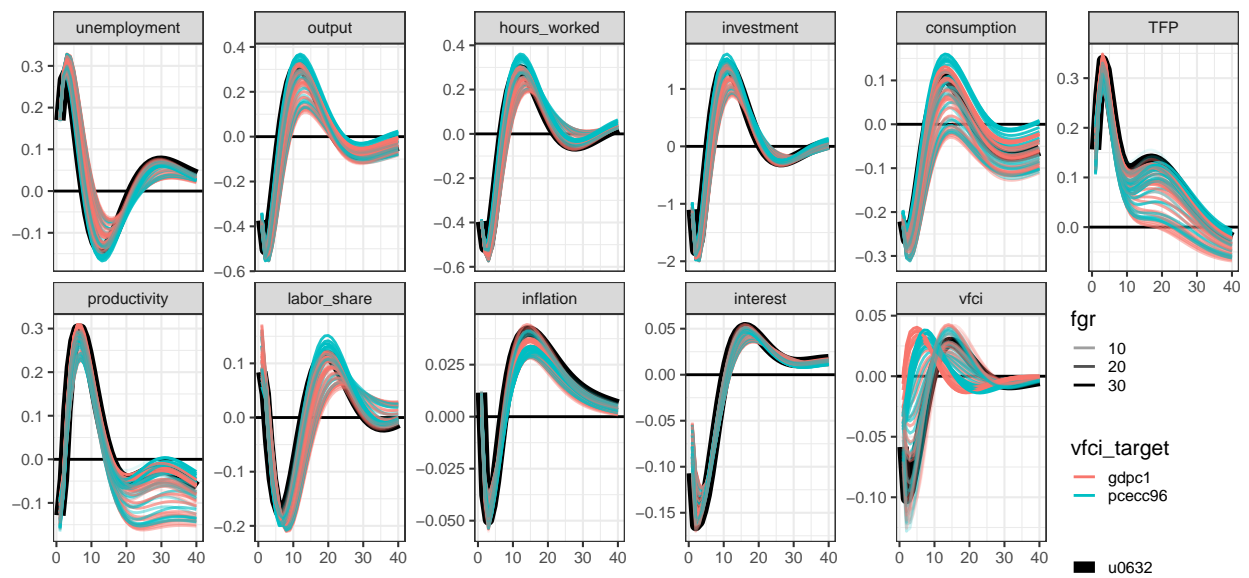
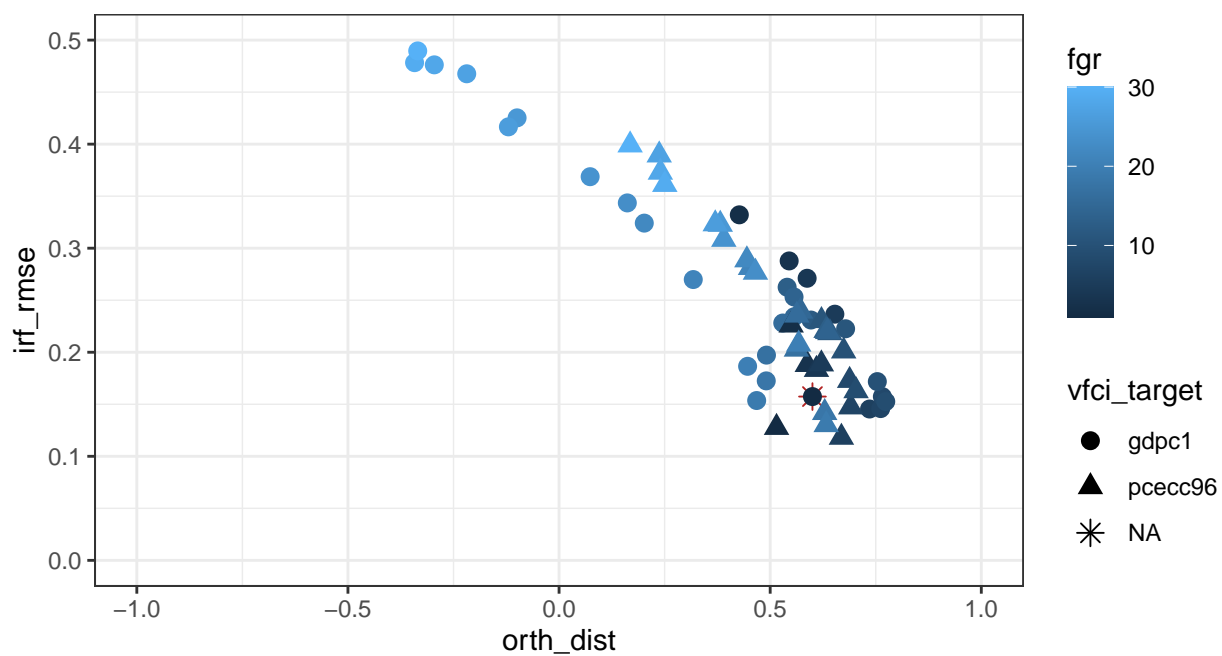


Figure 3: Unemployment0632 target, various vfc measures in VAR

## Calculate Distance Metrics



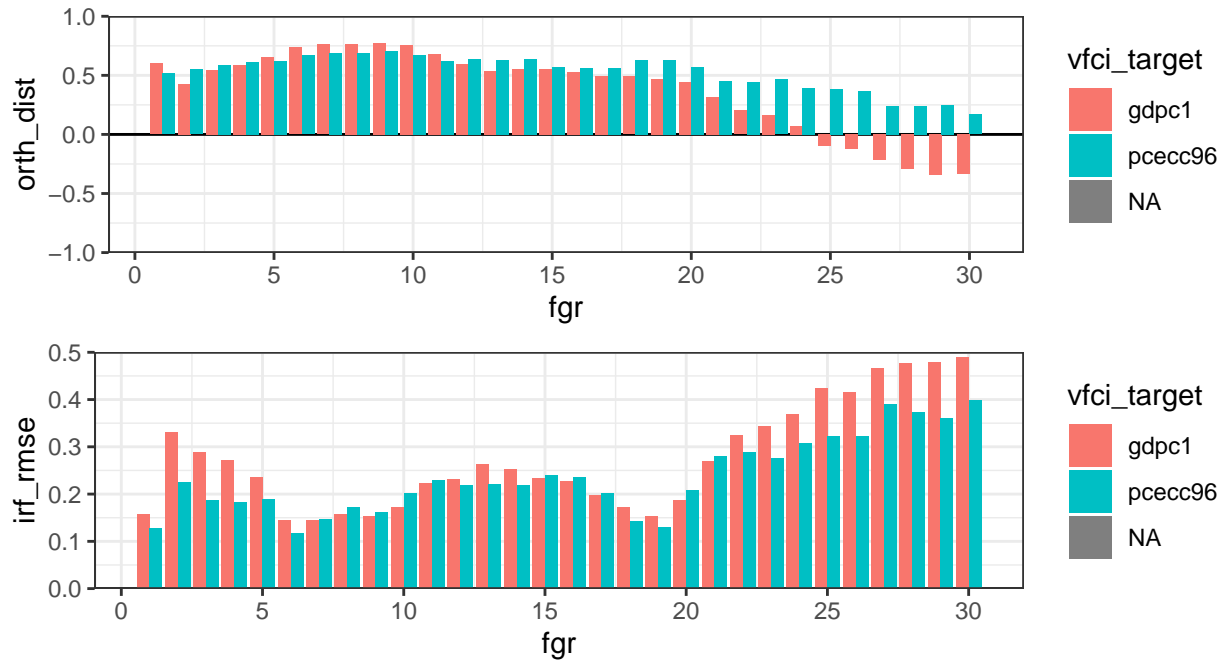


Figure 5: Orth distance and IRF RMSE across FGR

## Show Best Matches

```
dist_metrics[, m_orth_dist := max(abs(orth_dist)), by = .(vfc_target)][abs(orth_dist) == m_orth_dist]
```

```
##          vfc_name orth_dist  irf_rmse vfc_target fgr m_orth_dist
## 1:          vfc  0.6000702  0.1574060      <NA>  NA   0.6000702
## 2: vfc_fgr9gdpc1  0.7736914  0.1526292      gdpc1   9   0.7736914
## 3: vfc_fgr9pcecc96 0.7033807  0.1629193     pcecc96   9   0.7033807
```

```
dist_metrics[, m_irf_rmse := min(irf_rmse), by = .(vfc_target)][irf_rmse == m_irf_rmse]
```

```
##          vfc_name orth_dist  irf_rmse vfc_target fgr m_orth_dist m_irf_rmse
## 1:          vfc  0.6000702  0.1574060      <NA>  NA   0.6000702  0.1574060
## 2: vfc_fgr6gdpc1  0.7353325  0.1454517      gdpc1   6   0.7736914  0.1454517
## 3: vfc_fgr6pcecc96 0.6686546  0.1181938     pcecc96   6   0.7033807  0.1181938
```

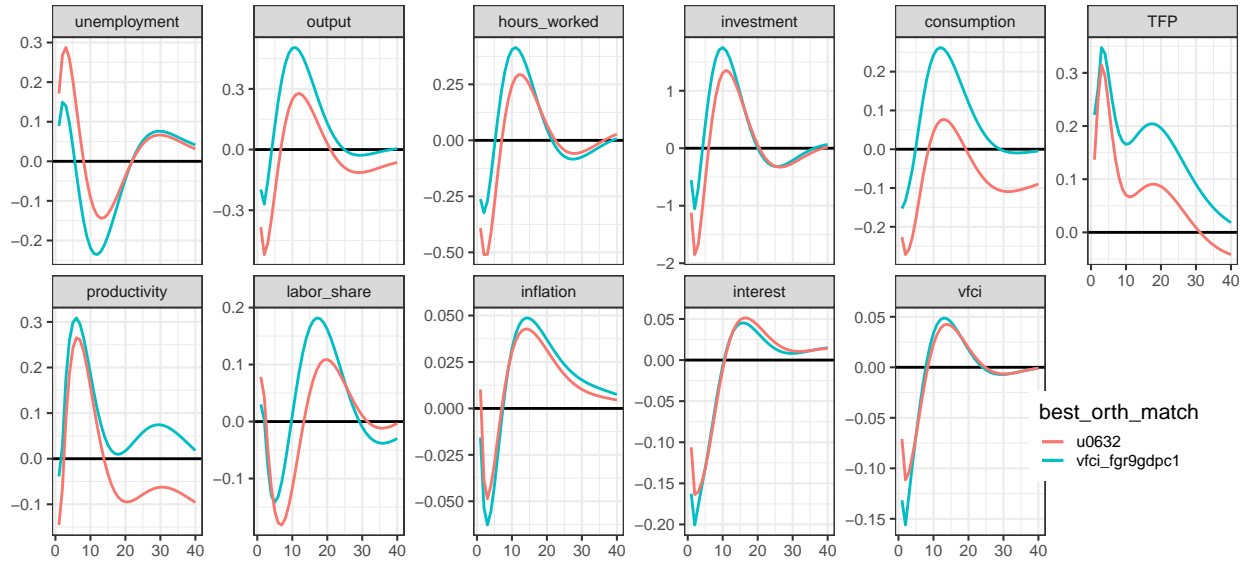


Figure 6: Best Orth Distance Match

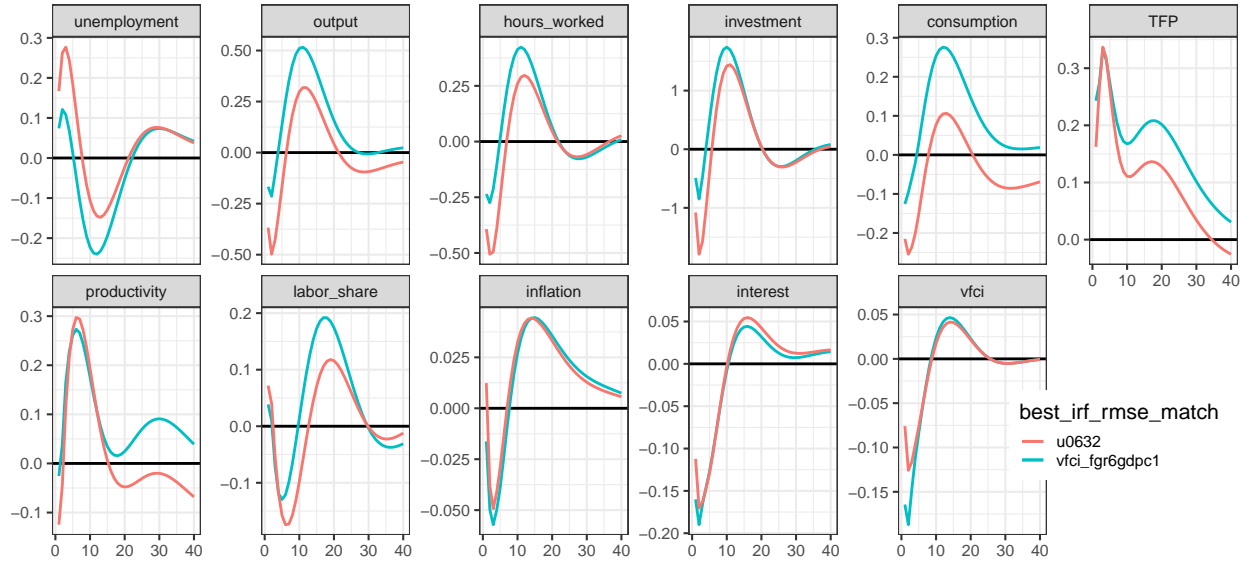


Figure 7: Best IRF RMSE Match