

Why Was the Plaza Accord Unique?

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Plaza Accord Sept 22, 1985 was unique

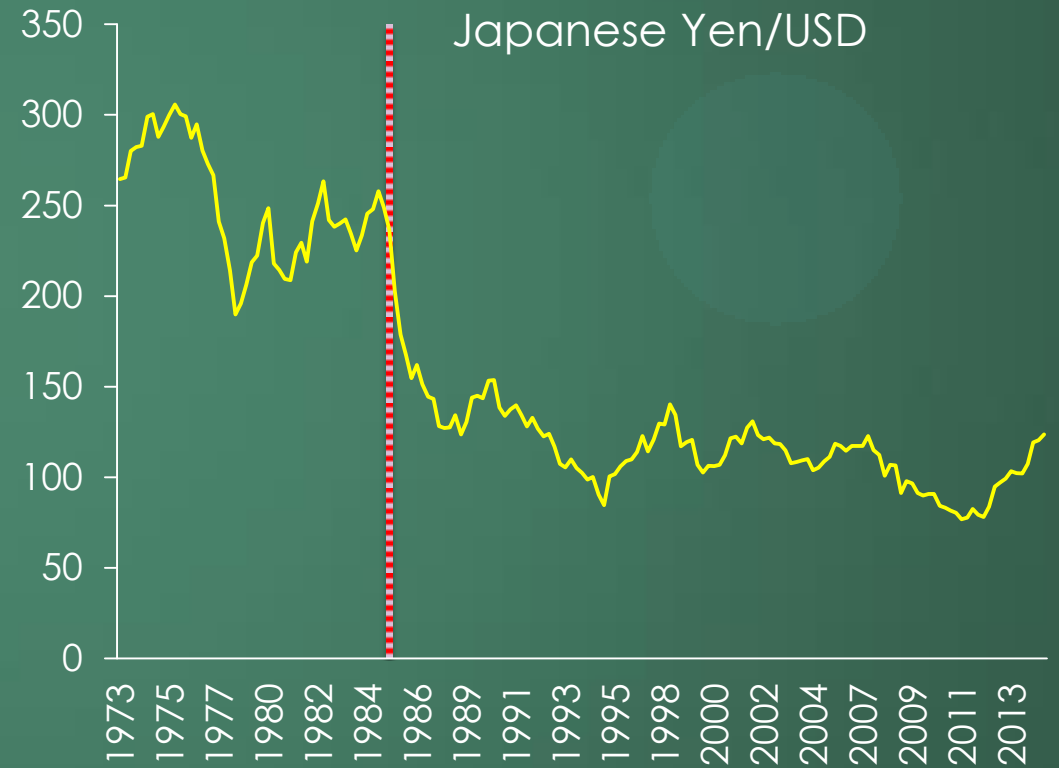
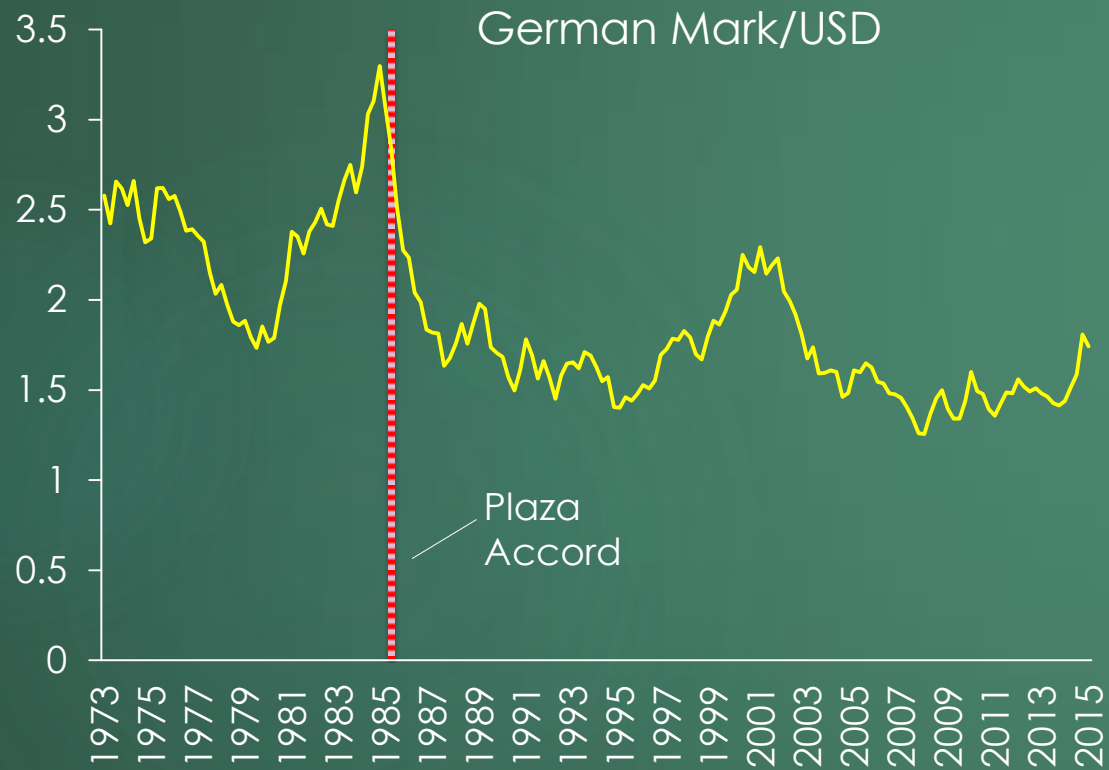
- ▶ It lasted
 - ▶ Dollar stayed low, continuing to decline for 2 years
 - ▶ Most agreements fall apart after months
- ▶ It worked
 - ▶ Achieved targeted 10-12% depreciation of dollar on time
 - ▶ Allowed US trade balance to adjust
 - ▶ Many other coordinated interventions have little impact
- ▶ It inspired
 - ▶ Spawned 2-4 year period of intense international coordination
 - ▶ Similar sustained interest in coordination not really seen elsewhere

Why Was the Plaza Accord Unique?

- ▶ Many Theories
 - ▶ Big surprise US policy shift to active dollar management
 - ▶ Uniquely strong protectionist sentiment
- ▶ Our hypotheses
 - ▶ Dollar misalignment in 1985 was greater than any time since 1973
 - ▶ Domestic monetary policy backed up the intervention for all three currencies
 - ▶ Dollar, yen, mark

Mark and Yen against the Dollar

Nominal Exchange Rates, 1973-2015



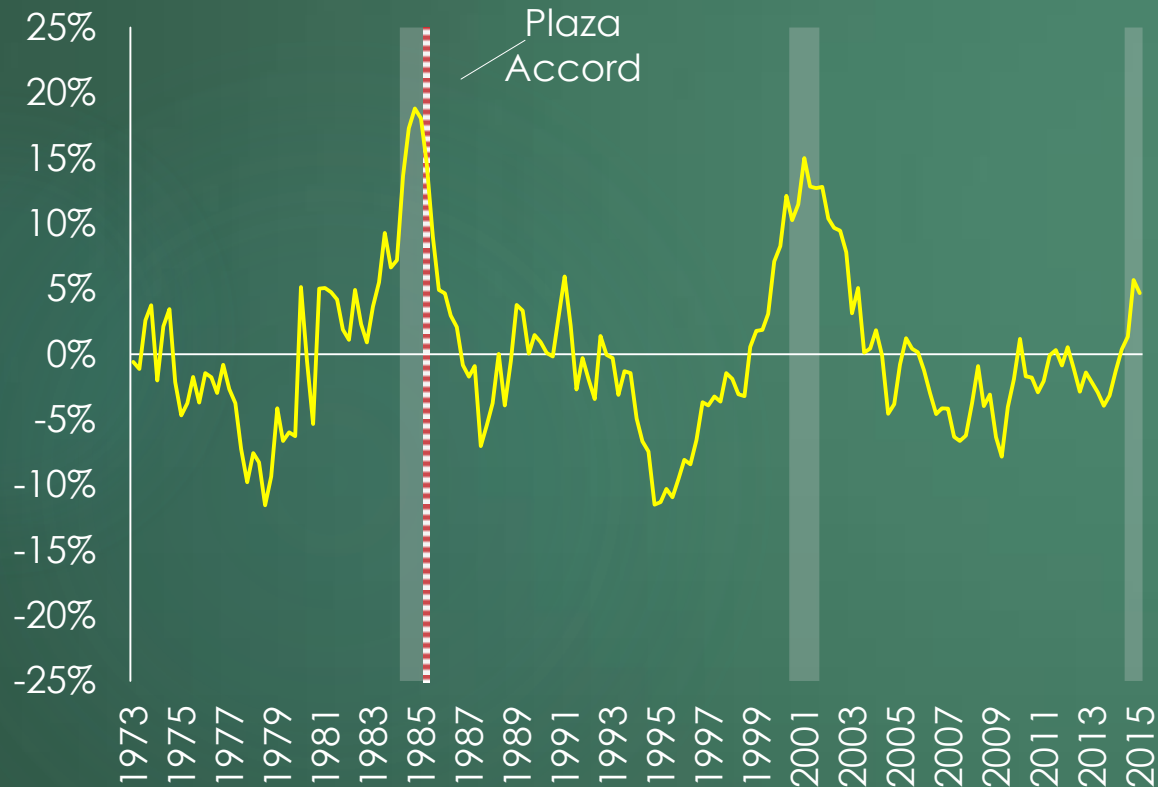
Real exchange rates adjusted for interest differentials

- ▶ Start with real interest parity
 - ▶ $E_t \Delta q_{t+1} = r_t - r_t^*$
 - ▶ q = real exchange rate, r = real interest rate
 - ▶ Need an assumption about future q
- ▶ Assume relative PPP, so real exchange rates are constant in long-run
 - ▶ “standard assumption”, e.g. Edison and Melick (1999)
- ▶ Estimate $q_t = a + \beta r_t - r_t^*$ with OLS
 - ▶ Residuals are estimates of real exchange rate misalignment

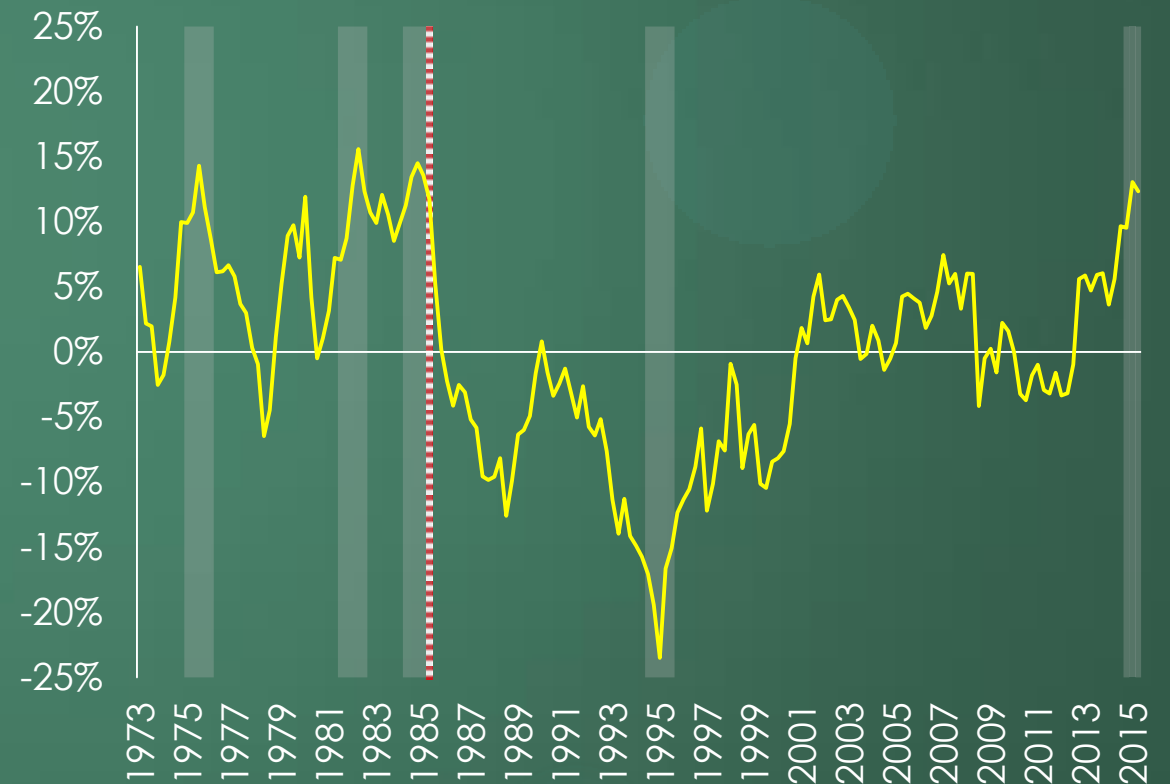
Mark and Yen against the Dollar

Log Real Exchange Rates Adjusted for Real Interest Differentials, 1973-2015

German Mark/USD



Japanese Yen/USD



Was Intervention Consistent with Monetary Policy?

- ▶ Evidence that FX intervention works is weak
 - ▶ One factor that helps is consistency with monetary policy
 - ▶ So tightening monetary policy is consistent with FX intervention to strengthen the currency
- ▶ How do we know which way monetary policy is headed at the time of FX intervention?

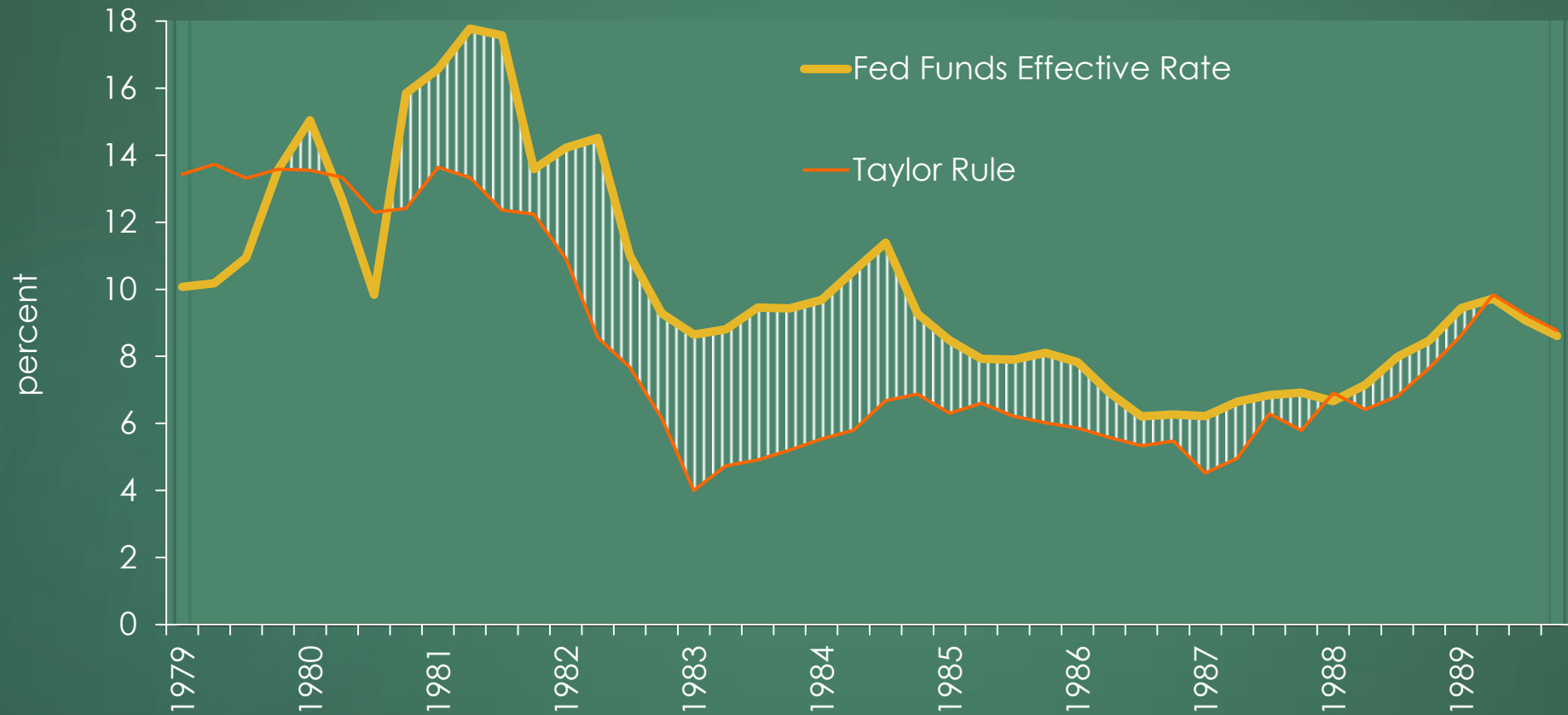
Taylor Rules Approximate Monetary Policy

- ▶ Taylor rule: widely used to evaluate monetary policy

$$i = 1 + 1.5 \times \pi + 0.5 \times \text{output gap}$$

- ▶ i = nominal interest rate, π = inflation rate
- ▶ Construct Taylor rules for US, Japan, Germany using real-time data
- ▶ We say a gap between the actual interest rate and the Taylor Rule rate indicates “policy space” to move towards the Taylor Rule

Interest Rates above Taylor Rule = Policy Space to Loosen

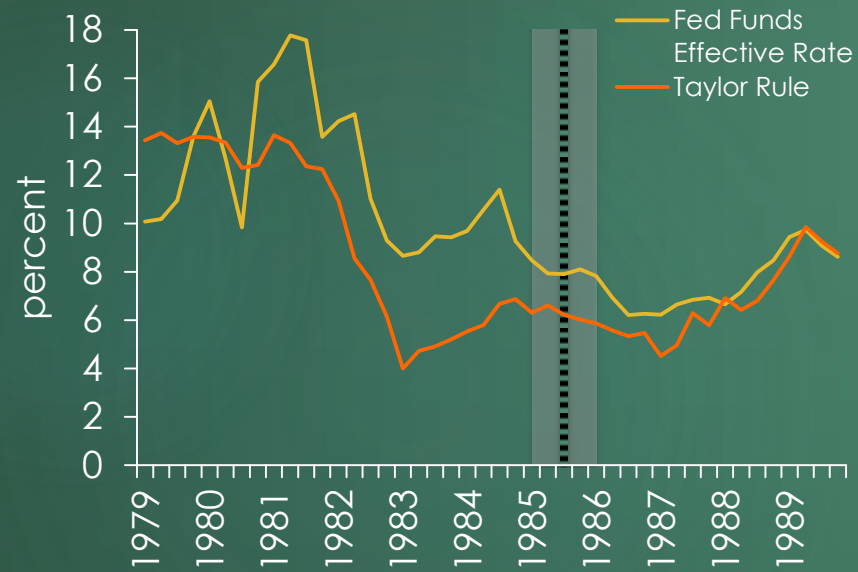


Was Intervention Consistent with Monetary Policy?

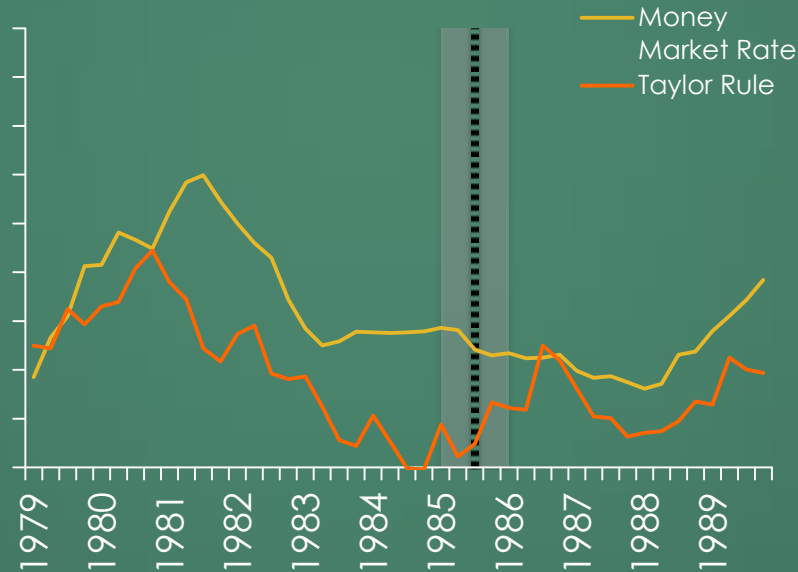
- ▶ For the Plaza Accord to have been consistent with monetary policy, we would need to see:
 1. Does the U.S. have policy space to loosen?
 - ▶ Consistent with FX intervention to weaken the dollar
 2. Do Germany and Japan have policy space to tighten?
 - ▶ Consistent with FX intervention to strengthen the mark and yen

Consistent?

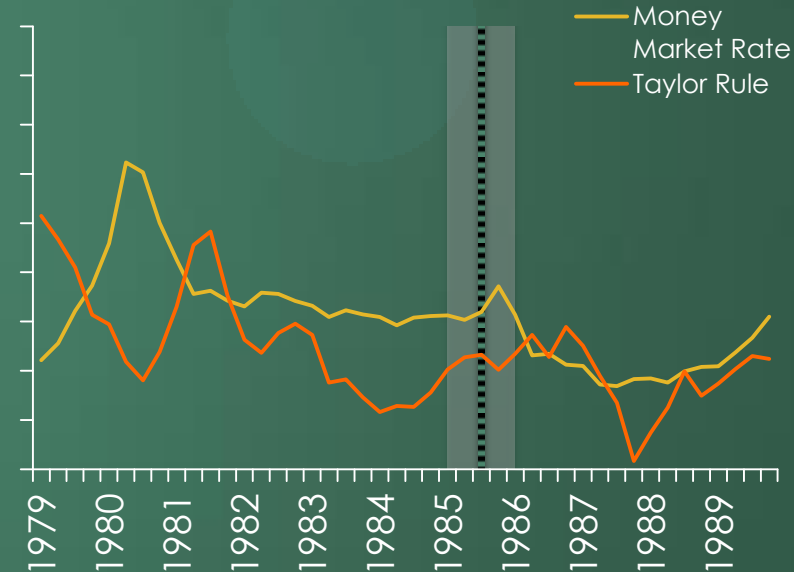
U.S.



Germany



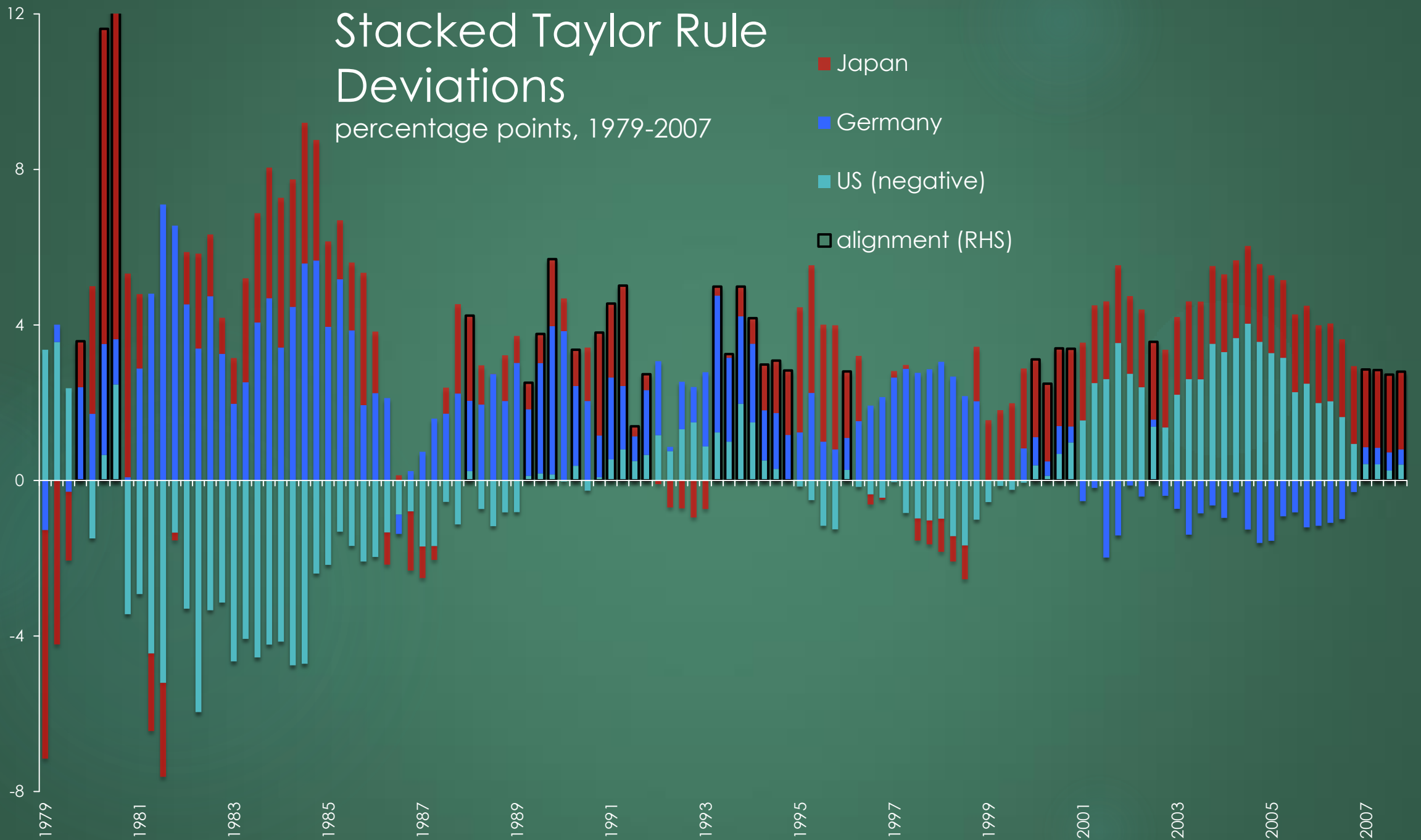
Japan



Stacked Taylor Rule Deviations

percentage points, 1979-2007

- Japan
- Germany
- US (negative)
- alignment (RHS)



The U.S. Was the Main Story at the Plaza Hotel

- ▶ We interpret the evidence that the Plaza effectiveness was driven by the U.S. story
 - ▶ Along with monetary policy consistency, there was the big switch in FX policy
- ▶ Maybe markets believed that Japan and Germany consider exchange rate factors in their monetary policy
 - ▶ Taylor rule may need an exchange rate term
- ▶ Maybe the Plaza intervention had no effect
 - ▶ Monetary policy consistency was irrelevant

Today

- ▶ Similarities
 - ▶ Dollar is strong
 - ▶ Not quite as strong
 - ▶ ECB and Japan should not want to tighten
- ▶ Differences
 - ▶ US is not going to loosen
 - ▶ Protectionist momentum is much lower
- ▶ Little chance of another Plaza soon

