Economics 442 Macroeconomic Policy

Lectures 16-17 3/13-15/2017

Instructor: Prof. Menzie Chinn UW Madison Spring 2017

Accounting, Exchange Rates

- Balance of payments accounting
- Exchange rates
- Foreign exchange markets

Balance of Payments Accounting

$$CA + KA + ORT \equiv 0$$
"current a/c" "private financial a/c" "official financial a/c"

$$NX \equiv EX - IM/\epsilon$$

ORT is changes in holdings of central banks, monetary authorities

U.S. Current Account

[Millions of dollars; quarterly data seasonally adjusted]													
Period	Current Account ¹												
	Goods ²			Services			Balance	Primary income receipts and payments		Dalance	Dolonos	Current account balance	
	Exports	Imports	Balance on goods	Exports	Imports	Balance on services	on goods and services	Receipts	Payments	Balance on primary income	Balance on secondary Income ³	Balance on current account	as a percentage of GDP
2006	1,040,905 1,165,151 1,308,795 1,070,331 1,290,273 1,499,240 1,562,578 1,592,002 1,633,320 1,510,303	1,878,194 1,986,347 2,141,287 1,580,025 1,938,950 2,239,886 2,303,749 2,294,247 2,385,489 2,272,868	-837,289 -821,196 -832,492 -509,694 -648,678 -740,646 -741,171 -702,244 -752,169 -762,565	416,738 488,396 532,817 512,722 563,333 627,781 656,411 701,455 743,257 750,860	341,165 372,575 409,052 386,801 409,313 435,761 452,013 461,087 481,264 488,657	75,573 115,821 123,765 125,920 154,020 192,020 204,398 240,368 261,993 262,203	-761,716 -705,375 -708,726 -383,774 -494,658 -548,625 -536,773 -461,876 -490,176 -500,361	693,089 844,033 823,707 614,379 684,915 759,727 768,956 794,658 821,807 782,915	649,752 743,429 677,561 490,794 507,254 538,766 553,163 575,689 597,802 600,531	43,337 100,604 146,146 123,584 177,661 220,961 215,792 218,970 224,005 182,385	-88,347 -113,872 -128,209 -123,833 -124,964 -132,690 -125,547 -123,515 -125,888 -144,988	-806,726 -718,643 -690,789 -384,023 -441,961 -460,354 -446,527 -366,422 -392,060 -462,965	-5.8 -5.0 -4.7 -2.7 -3.0 -3.0 -2.8 -2.2 -2.3 -2.6
2014: I II IV	403,365 409,701 412,087 408,167	589,078 601,537 596,763 598,111	-185,712 -191,836 -184,677 -189,944	183,220 186,211 185,735 188,091	118,022 120,209 120,474 122,560	65,199 66,002 65,262 65,531	-120,514 -125,834 -119,415 -124,414	202,351 204,485 209,622 205,349	145,604 149,862 150,297 152,039	56,746 54,623 59,325 53,310	-30,887 -22,849 -35,529 -36,623	-94,654 -94,060 -95,619 -107,726	-2.2 -2.2 -2.2 -2.4
2015: I II IV	383,936 383,935 377,157 365,275	577,452 574,812 566,925 553,678	-193,517 -190,876 -189,768 -188,404	188,332 188,448 187,118 186,962	121,329 121,599 122,961 122,767	67,003 66,848 64,157 64,195	-126,514 -124,028 -125,611 -124,209	194,716 199,359 196,752 192,089	146,365 154,288 154,903 144,974	48,351 45,071 41,848 47,115	-36,386 -32,947 -39,343 -36,312	-114,549 -111,904 -123,106 -113,406	-2.6 -2.5 -2.7 -2.5
2016: I II III ^p	354,143 360,228 375,947	540,433 546,964 553,644	-186,290 -186,736 -177,697	184,727 186,203 188,170	123,654 124,212 126,905	61,073 61,991 61,265	-125,217 -124,745 -116,433	188,488 202,619 202,825	154,473 158,398 159,426	34,015 44,221 43,400	-40,637 -37,747 -39,925	-131,838 -118,271 -112,958	-2.9 -2.6 -2.4

Source: Economic Indicators, January 2017

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Financial Account

[Millions of	dollars: quarterly	data seasonally	adjusted

[willings of dollars, quarterly data seasonally adjusted]														
Period	Balance on capital account 1	Financial account												
		Net U.S. acquisition of financial assets excluding financial derivatives [net increase in assets / financial outflow (+)]					Net U.S. incurrence of liabilities excluding financial derivatives [net increase in liabilities / financial inflow (+)]				Financial derivatives	Net lending (+) or net borrowing	Statistical	U.S. official reserve assets, net
		Total	Direct invest- ment assets	Portfolio invest- ment assets	Other invest- ment assets	Reserve assets ⁴	Total	Direct invest- ment liabilities	Portfolio invest- ment liabilities	Other invest- ment liabilities	other than reserves, net trans- actions	(-) from financial account trans- actions ⁵	discrep- ancy	(unad- justed, end of period) ⁴
2006	-1,788 384 6,010 -140 -157 -1,186 6,904 -412 -45 -42	1,336,866 1,572,509 -309,468 132,204 963,449 496,320 177,747 651,427 823,343 225,398	296,059 532,939 351,724 313,726 354,575 440,405 378,222 394,635 343,441 348,646	493,366 380,807 -284,269 375,883 199,620 85,365 248,760 481,298 582,688 153,968	549,814 658,641 -381,770 -609,662 407,420 -45,327 -453,695 -221,408 -99,203 -270,924	-2,373 122 4,848 52,256 1,835 15,877 4,460 -3,099 -3,583 -6,292	2,116,304 2,183,538 454,051 318,350 1,386,345 977,073 625,352 1,044,635 1,056,374 395,234	294,289 340,066 332,734 153,787 259,345 257,411 243,010 276,978 207,368 379,435	1,126,735 1,156,612 523,683 357,352 820,434 311,626 747,017 511,987 701,861 250,936	695,280 686,860 -402,367 -192,789 306,566 408,036 -364,675 255,670 147,145 -235,137	-29,710 -6,222 32,947 -44,816 -14,076 -35,006 7,064 2,222 -54,347 -25,392	-809,148 -617,251 -730,572 -230,962 -436,972 -515,759 -440,540 -390,987 -287,378 -195,227	-634 101,008 -45,793 153,201 5,146 -54,219 -917 -24,153 104,727 267,780	65,895 70,565 77,648 130,760 132,433 147,953 150,175 144,575 130,090 117,581
2014: I II IV	-43 -2 -1 0	153,627 229,606 330,098 110,012	54,287 69,849 101,811 117,494	102,090 204,484 128,515 147,598	-1,794 -45,500 100,661 -152,569	-956 773 -889 -2,511	289,054 293,401 371,787 102,132	-86,791 69,348 118,119 106,691	248,214 99,475 230,476 123,696	127,631 124,578 23,192 -128,255	6,105 -4,423 -24,304 -31,725	-129,322 -68,218 -65,993 -23,845	-34,625 25,843 29,627 83,881	144,284 145,176 137,054 130,090
2015: 	-22 -20 -1 0	357,562 104,122 -83,824 -152,461	86,576 114,779 51,322 95,969	233,068 140,675 -97,468 -122,306	42,077 -150,455 -37,412 -125,134	-4,159 -877 -266 -990	348,004 205,435 -39,884 -118,322	194,067 108,005 50,590 26,773	102,922 256,154 -126,250 18,109	51,015 -158,723 35,775 -163,204	-40,199 1,708 746 12,353	-30,642 -99,605 -43,194 -21,786	83,929 12,318 79,913 91,620	119,270 120,333 120,218 117,581
2016: <i>p</i>	-58 0 0	59,862 323,426 31,451	67,412 106,273 87,513	-57,326 146,397 -35,111	50,968 70,566 -22,593	-1,191 189 1,642	118,207 367,324 251,459	91,335 174,007 86,874	-21,197 11,934 229,129	48,069 181,383 -64,544	12,994 2,904 12,063	-45,350 -40,994 -207,945	86,546 77,278 -94,987	119,727 120,202 122,431

⁴ Consists of monetary gold, special drawing rights (SDRs), the U.S. reserve position in the International Monetary Fund (IMF), and other reserve assets, including foreign currencies.

Sources: Department of Commerce (Bureau of Economic Analysis), Department of the Treasury, and the Board of Governors of the Federal Reserve System.

Source: Economic Indicators, January 2017

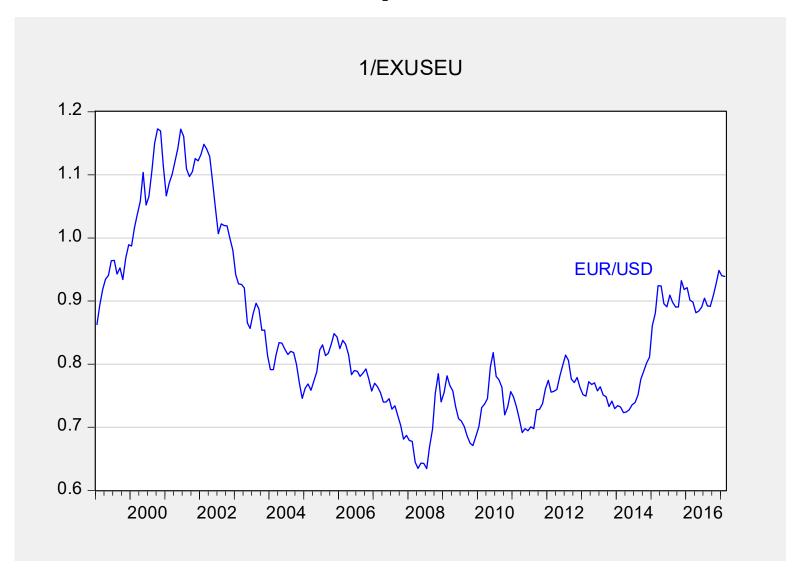
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⁵ Net lending means that U.S. residents are net suppliers of funds to foreign residents, and net borrowing means the opposite.

Definitions

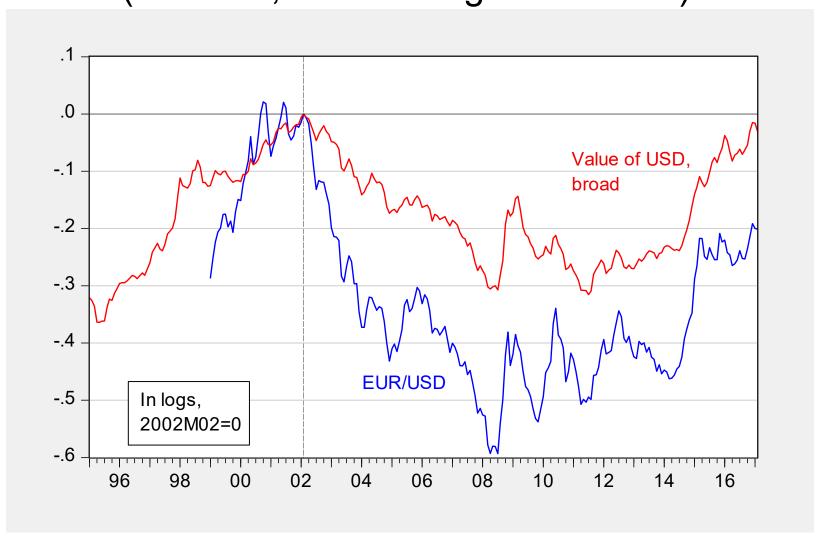
- Exchange rates: number of foreign currency units required to purchase one unit of home currency; also value of home currency.
- E.g., from EU resident perspective: \$/€,
 ¥/ €
- E.g., from Chinese resident perspective:
 \$/¥

Example: €/\$



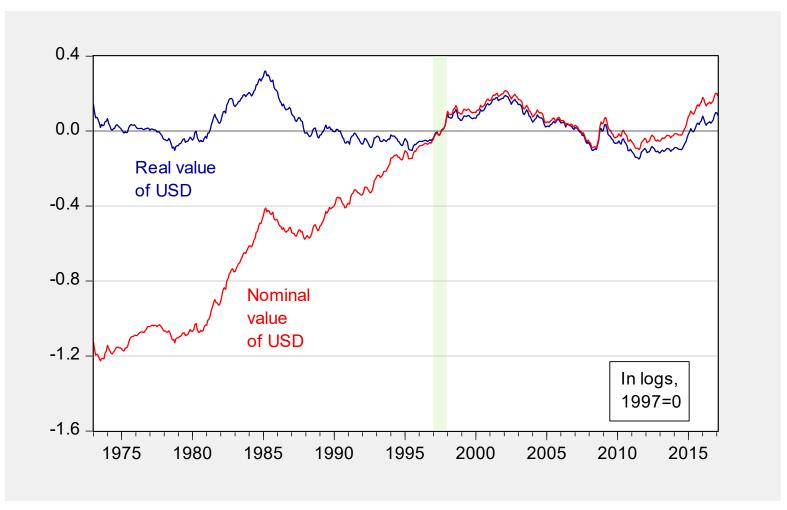
The Dollar Exchange Rate

(vs. Euro, Trade Weighted basket)



Source: Federal Reserve Board via FRED

The Dollar Exchange Rate (Nominal vs. Real)



Source: Federal Reserve Board via FRED

Dollar –Interest Rates

