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Statistical Supplement 5
to the Monthly Report

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Banking statistics	monthly
Capital market statistics	monthly
Balance of payments statistics	monthly
Seasonally adjusted business statistics	monthly

Selected updated statistics are also available on the website.

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Abbreviations and symbols

CU	Currency unit(s)
EC	European Community
ECB	European Central Bank
ECU	European Currency Unit
EER	Effective exchange rate
EMU	European Economic and Monetary Union
ERM	Exchange Rate Mechanism
EU	European Union
IMF	International Monetary Fund
ISO	International Organization for Standardization
SDR	Special drawing right
SITC	Standard International Trade Classification
SWIFT	Society for Worldwide Interbank Financial Telecommunication
B	Buying rate
M	Middle rate
S	Selling rate
V	Calculated value
e	Estimated
p	Provisional
r	Revised
.	Data unknown, not to be published or not meaningful
–	Nil

Discrepancies in the totals are due to rounding.

I Euro area and exchange rate stability convergence criterion

1 Euro-area member states and irrevocable euro conversion rates in the third stage of European Economic and Monetary Union

From	Country	Currency	ISO currency code	EUR 1 = CU ...	Council Regulation (EU) No ¹
1999 January 1	Austria	Austrian schilling	ATS	13.7603	2866/98
	Belgium	Belgian franc	BEF	40.3399	2866/98
	Finland	Finnish markka	FIM	5.94573	2866/98
	France	French franc	FRF	6.55957	2866/98
	Germany	Deutsche Mark	DEM	1.95583	2866/98
	Ireland	Irish pound	IEP	0.787564	2866/98
	Italy	Italian lira	ITL	1,936.27	2866/98
	Luxembourg	Luxembourg franc	LUF	40.3399	2866/98
	Netherlands	Dutch guilder	NLG	2.20371	2866/98
	Portugal	Portuguese escudo	PTE	200.482	2866/98
	Spain	Spanish peseta	ESP	166.386	2866/98
2001 January 1	Greece	Greek drachma	GRD	340.750	1478/2000
2007 January 1	Slovenia	Slovenian tolar	SIT	239.640	1086/2006
2008 January 1	Cyprus	Cyprus pound	CYP	0.585274	1135/2007
	Malta	Maltese lira	MTL	0.429300	1134/2007
2009 January 1	Slovakia	Slovak koruna	SKK	30.1260	694/2008
2011 January 1	Estonia	Estonian kroon	EEK	15.6466	671/2010
2014 January 1	Latvia	Latvian lats	LVL	0.702804	870/2013
2015 January 1	Lithuania	Lithuanian litas	LTL	3.45280	851/2014

¹ The EU regulations can be found at <http://eur-lex.europa.eu>.

2 Central rates and intervention rates in Exchange Rate Mechanism II *

Country Currency ISO currency code	Type of rate	EUR 1 = CU ...						
		From ... 1 Jan 1999	17 Jan 2000	28 June 2004	2 May 2005	28 Nov 2005	19 Mar 2007	29 May 2008
Denmark Danish krone DKK	Upper rate	7.62824	7.62824	7.62824	7.62824	7.62824	7.62824	7.62824
	Central rate	¹ 7.46038	7.46038	7.46038	7.46038	7.46038	7.46038	7.46038
	Lower rate	7.29252	7.29252	7.29252	7.29252	7.29252	7.29252	7.29252
Greece Greek drachma GRD	Upper rate	406.075	391.863	–	–	–	–	–
	Central rate	¹ 353.109	² 340.750	–	–	–	–	–
	Lower rate	300.143	289.638	–	–	–	–	–
Estonia Estonian kroon EEK	Upper rate	–	–	17.9936	17.9936	17.9936	17.9936	17.9936
	Central rate	–	–	15.6466	15.6466	15.6466	15.6466	³ 15.6466
	Lower rate	–	–	13.2996	13.2996	13.2996	13.2996	13.2996
Lithuania Lithuanian litas LTL	Upper rate	–	–	3.97072	3.97072	3.97072	3.97072	3.97072
	Central rate	–	–	3.45280	3.45280	3.45280	3.45280	⁴ 3.45280
	Lower rate	–	–	2.93488	2.93488	2.93488	2.93488	2.93488
Slovenia Slovenian tolar SIT	Upper rate	–	–	275.586	275.586	275.586	–	–
	Central rate	–	–	239.640	239.640	⁵ 239.640	–	–
	Lower rate	–	–	203.694	203.694	203.694	–	–
Cyprus Cyprus pound CYP	Upper rate	–	–	–	0.673065	0.673065	0.673065	–
	Central rate	–	–	–	0.585274	0.585274	⁶ 0.585274	–
	Lower rate	–	–	–	0.497483	0.497483	0.497483	–
Latvia Latvian lats LVL	Upper rate	–	–	–	0.808225	0.808225	0.808225	0.808225
	Central rate	–	–	–	0.702804	0.702804	0.702804	⁷ 0.702804
	Lower rate	–	–	–	0.597383	0.597383	0.597383	0.597383
Malta Maltese lira MTL	Upper rate	–	–	–	0.493695	0.493695	0.493695	–
	Central rate	–	–	–	0.429300	0.429300	⁶ 0.429300	–
	Lower rate	–	–	–	0.364905	0.364905	0.364905	–
Slovakia Slovak koruna SKK	Upper rate	–	–	–	–	44.2233	40.7588	34.6449
	Central rate	–	–	–	–	38.4550	35.4424	⁸ 30.1260
	Lower rate	–	–	–	–	32.6868	30.1260	25.6071

Source: ECB. * One prerequisite before an EU member state can join the Eurosystem is that its currency must have observed the normal fluctuation margins of the Exchange Rate Mechanism II (the standard fluctuation band is $\pm 15\%$) for at least two years without devaluing against the euro. The Danish krone has a fluctuation band of $\pm 2.25\%$ on either side of the central rate. ¹ According to the EU communiqué of 31 December 1998. ² Until 31 December 2000; accession

to EMU on 1 January 2001. ³ Until 31 December 2010; accession to EMU on 1 January 2011. ⁴ Until 31 December 2014; accession to EMU on 1 January 2015. ⁵ Until 31 December 2006; accession to EMU on 1 January 2007. ⁶ Until 31 December 2007; accession to EMU on 1 January 2008. ⁷ Until 31 December 2013; accession to EMU on 1 January 2014. ⁸ Until 31 December 2008; accession to EMU on 1 January 2009.

II Euro foreign exchange reference rates of the European Central Bank *

1 Daily rates

EUR 1 = CU ...

		EU member countries						
		Bulgaria	Croatia	Czechia	Denmark	Hungary	Poland	Romania
Period		Bulgarian lev BGN	Kuna HRK	Czech koruna CZK	Danish krone DKK	Hungarian forint HUF	Polish zloty PLN	Romanian leu RON
2016 Oct	3	1.9558	7.5053	27.021	7.4463	308.18	4.2933	4.4505
	4	1.9558	7.5070	27.021	7.4418	307.42	4.2936	4.4583
	5	1.9558	7.5080	27.028	7.4417	305.85	4.2941	4.4621
	6	1.9558	7.5120	27.021	7.4413	305.07	4.2928	4.4760
	7	1.9558	7.5035	27.021	7.4405	303.86	4.2813	4.5046
	10	1.9558	7.5050	27.021	7.4409	304.65	4.2821	4.5035
	11	1.9558	7.5095	27.021	7.4412	304.43	4.2712	4.4885
	12	1.9558	7.5120	27.025	7.4399	306.05	4.2974	4.4970
	13	1.9558	7.5120	27.021	7.4395	306.48	4.3020	4.5030
	14	1.9558	7.5073	27.029	7.4398	305.31	4.3020	4.5040
	17	1.9558	7.5065	27.024	7.4400	306.93	4.3281	4.5065
	18	1.9558	7.5023	27.021	7.4407	306.93	4.3184	4.5110
	19	1.9558	7.5075	27.021	7.4409	307.08	4.3180	4.5020
	20	1.9558	7.5075	27.021	7.4403	307.54	4.3282	4.5030
	21	1.9558	7.5080	27.021	7.4383	308.30	4.3251	4.5043
	24	1.9558	7.5083	27.021	7.4394	308.53	4.3166	4.5065
	25	1.9558	7.5030	27.021	7.4387	308.16	4.3042	4.4901
	26	1.9558	7.5010	27.021	7.4385	309.09	4.3245	4.4965
	27	1.9558	7.5010	27.022	7.4376	309.23	4.3292	4.5038
	28	1.9558	7.5068	27.022	7.4382	309.46	4.3307	4.5005
	31	1.9558	7.5093	27.024	7.4393	308.44	4.3278	4.5060
Nov	1	1.9558	7.5080	27.024	7.4389	307.73	4.3085	4.5055
	2	1.9558	7.5130	27.022	7.4395	308.06	4.3255	4.5028
	3	1.9558	7.5140	27.021	7.4406	307.88	4.3186	4.4988
	4	1.9558	7.5135	27.021	7.4412	306.13	4.3188	4.4995
	7	1.9558	7.5140	27.021	7.4408	306.05	4.3301	4.4988
	8	1.9558	7.5100	27.021	7.4418	305.57	4.3283	4.5073
	9	1.9558	7.5048	27.027	7.4417	304.95	4.3388	4.5050
	10	1.9558	7.5045	27.022	7.4414	307.30	4.3588	4.5023
	11	1.9558	7.5130	27.054	7.4423	309.25	4.4081	4.5160
	14	1.9558	7.5105	27.026	7.4425	310.13	4.4060	4.5183
	15	1.9558	7.5158	27.030	7.4434	309.97	4.4245	4.5140
	16	1.9558	7.5195	27.036	7.4422	310.59	4.4433	4.5198
	17	1.9558	7.5228	27.050	7.4419	309.36	4.4448	4.5187
	18	1.9558	7.5320	27.035	7.4399	309.49	4.4429	4.5150
	21	1.9558	7.5368	27.032	7.4409	309.13	4.4307	4.5105
	22	1.9558	7.5300	27.044	7.4399	308.89	4.4205	4.5117
	23	1.9558	7.5280	27.027	7.4398	310.04	4.4154	4.5165
	24	1.9558	7.5303	27.034	7.4373	310.46	4.4239	4.5100
	25	1.9558	7.5318	27.039	7.4380	309.33	4.4190	4.5140
	28	1.9558	7.5368	27.044	7.4389	310.65	4.4194	4.5150
	29	1.9558	7.5368	27.045	7.4391	311.48	4.4299	4.5172
	30	1.9558	7.5378	27.060	7.4403	311.51	4.4483	4.5040
Dec	1	1.9558	7.5450	27.061	7.4401	313.96	4.4676	4.5042
	2	1.9558	7.5445	27.058	7.4398	313.93	4.4892	4.5095
	5	1.9558	7.5356	27.057	7.4396	313.97	4.5005	4.5010
	6	1.9558	7.5400	27.045	7.4384	313.49	4.4780	4.4975
	7	1.9558	7.5378	27.036	7.4378	312.98	4.4280	4.4980
	8	1.9558	7.5355	27.038	7.4390	314.29	4.4540	4.5020
	9	1.9558	7.5327	27.027	7.4369	314.45	4.4454	4.4994
	12	1.9558	7.5335	27.027	7.4371	314.02	4.4530	4.5073
	13	1.9558	7.5260	27.022	7.4370	314.31	4.4442	4.5045
	14	1.9558	7.5405	27.023	7.4359	314.89	4.4402	4.5153
	15	1.9558	7.5413	27.021	7.4350	313.17	4.4450	4.5223
	16	1.9558	7.5360	27.021	7.4340	312.45	4.4200	4.5165
	19	1.9558	7.5350	27.021	7.4343	311.79	4.4110	4.5179
	20	1.9558	7.5320	27.021	7.4343	310.98	4.4095	4.5213
	21	1.9558	7.5303	27.021	7.4342	310.28	4.4082	4.5194
	22	1.9558	7.5350	27.021	7.4342	310.22	4.4096	4.5266
	23	1.9558	7.5380	27.023	7.4342	309.68	4.4098	4.5318
	27	1.9558	7.5565	27.021	7.4352	309.13	4.4090	4.5313
	28	1.9558	7.5545	27.042	7.4351	309.03	4.4028	4.5415
	29	1.9558	7.5593	27.021	7.4338	310.09	4.4141	4.5375
	30	1.9558	7.5597	27.021	7.4344	309.83	4.4103	4.5390
2017 Jan	2	1.9558	7.5548	27.021	7.4349	309.45	4.4123	4.5390
	3	1.9558	7.5655	27.020	7.4341	308.94	4.3934	4.5228
	4	1.9558	7.5738	27.021	7.4343	308.35	4.3778	4.5086
	5	1.9558	7.5770	27.021	7.4341	308.28	4.3680	4.5065
	6	1.9558	7.5780	27.021	7.4343	307.24	4.3552	4.5013
	9	1.9558	7.5701	27.021	7.4339	308.21	4.3777	4.5016
	10	1.9558	7.5645	27.021	7.4339	308.70	4.3721	4.4958

* See Explanatory notes, p 51.

II Euro foreign exchange reference rates of the European Central Bank *

		Other European and non-European countries							Period
Sweden	United Kingdom	Australia	Brazil	Canada	China	Hong Kong	India		
Swedish krona SEK	Pound sterling GBP	Australian dollar AUD	Brazilian real BRL	Canadian dollar CAD	Chinese yuan renminbi CNY	Hong Kong dollar HKD	Indian rupee INR		
9.5930	0.87318	1.4638	3.6409	1.4702	7.4962	8.7145	74.7660	2016 Oct 3	
9.6005	0.87540	1.4564	3.5816	1.4697	7.4462	8.6565	74.2035	4	
9.6260	0.88155	1.4722	3.6374	1.4816	7.4829	8.6958	74.6349	5	
9.6320	0.88323	1.4762	3.6206	1.4769	7.4605	8.6764	74.6445	6	
9.6335	0.90353	1.4696	3.6087	1.4784	7.4322	8.6426	74.3105	7	
9.6618	0.90070	1.4690	3.5886	1.4790	7.4850	8.6588	74.2325	10	
9.7318	0.90233	1.4679	3.5634	1.4653	7.4440	8.5977	73.7760	11	
9.7318	0.89990	1.4553	3.5256	1.4598	7.4029	8.5494	73.6100	12	
9.7365	0.90430	1.4604	3.5337	1.4620	7.4261	8.5637	73.8375	13	
9.7068	0.89910	1.4421	3.4994	1.4485	7.4000	8.5363	73.4380	14	
9.7028	0.90485	1.4436	3.5147	1.4433	7.4075	8.5304	73.4565	17	
9.7025	0.89565	1.4332	3.5073	1.4382	7.4060	8.5294	73.3345	18	
9.6980	0.89338	1.4298	3.5063	1.4361	7.3963	8.5175	73.1890	19	
9.7040	0.89568	1.4314	3.4629	1.4460	7.3980	8.5181	73.3445	20	
9.6913	0.89320	1.4268	3.4340	1.4401	7.3625	8.4457	72.8250	21	
9.7050	0.89015	1.4282	3.4200	1.4547	7.3775	8.4478	72.7975	24	
9.7180	0.88998	1.4229	3.3872	1.4478	7.3685	8.4331	72.6370	25	
9.7368	0.89465	1.4220	3.4065	1.4602	7.3954	8.4732	73.0255	26	
9.8150	0.89158	1.4339	3.4261	1.4605	7.4082	8.4741	73.0135	27	
9.8620	0.89905	1.4424	3.4841	1.4623	7.4053	8.4687	72.9575	28	
9.8650	0.90050	1.4397	3.4836	1.4665	7.4156	8.4887	73.0940	31	
9.8800	0.90173	1.4341	3.5239	1.4730	7.4631	8.5504	73.5425	Nov 1	
9.8910	0.90063	1.4479	3.5967	1.4840	7.4983	8.6040	73.9710	2	
9.9068	0.88658	1.4434	3.5720	1.4814	7.4832	8.5810	73.8460	3	
9.9630	0.88808	1.4438	3.5996	1.4901	7.4955	8.6034	74.0395	4	
9.9833	0.89040	1.4397	3.5445	1.4813	7.4941	8.5800	73.8440	7	
9.9185	0.89088	1.4332	3.5364	1.4756	7.4919	8.5597	73.5085	8	
10.0025	0.89030	1.4336	3.5565	1.4798	7.4771	8.5467	73.3765	9	
9.9090	0.87785	1.4336	3.5815	1.4689	7.4065	8.4495	72.7085	10	
9.8610	0.86133	1.4338	3.7208	1.4711	7.4198	8.4593	73.3295	11	
9.8095	0.85985	1.4276	3.7153	1.4590	7.3759	8.3607	73.0800	14	
9.8510	0.86638	1.4240	3.7006	1.4560	7.3816	8.3504	72.9385	15	
9.8328	0.86110	1.4333	3.6791	1.4425	7.3620	8.3020	72.8470	16	
9.8368	0.86055	1.4359	3.6550	1.4389	7.3621	8.3133	72.7350	17	
9.8243	0.86218	1.4376	3.6049	1.4365	7.3156	8.2450	72.2170	18	
9.8145	0.85725	1.4424	3.5667	1.4308	7.3293	8.2457	72.4490	21	
9.7973	0.85423	1.4352	3.5497	1.4230	7.3100	8.2341	72.5090	22	
9.7863	0.85393	1.4294	3.5860	1.4260	7.3157	8.2232	72.8745	23	
9.7658	0.84800	1.4274	3.5909	1.4232	7.2988	8.1819	72.5245	24	
9.7840	0.85182	1.4230	3.6394	1.4290	7.3295	8.2153	72.5925	25	
9.7798	0.85303	1.4194	3.5909	1.4242	7.3150	8.2117	72.7610	28	
9.7668	0.84815	1.4210	3.6009	1.4232	7.2972	8.2024	72.6565	29	
9.7538	0.85250	1.4291	3.6118	1.4233	7.3205	8.2489	72.8590	30	
9.7935	0.84098	1.4378	3.6597	1.4240	7.3176	8.2422	72.6370	Dec 1	
9.7983	0.84303	1.4333	3.6909	1.4157	7.3310	8.2534	72.6380	2	
9.8015	0.84168	1.4391	3.7044	1.4240	7.3662	8.2997	72.9495	5	
9.8030	0.84210	1.4395	3.6837	1.4242	7.3861	8.3250	72.7775	6	
9.7735	0.85095	1.4408	3.6457	1.4242	7.3836	8.3229	72.5830	7	
9.7228	0.84995	1.4406	3.6599	1.4222	7.4041	8.3475	72.5055	8	
9.6910	0.83935	1.4141	3.5815	1.3914	7.2931	8.1934	71.3410	9	
9.7445	0.83900	1.4174	3.5953	1.3918	7.3225	8.2211	71.4485	12	
9.7180	0.83488	1.4155	3.5325	1.3921	7.3233	8.2303	71.6590	13	
9.7553	0.83963	1.4177	3.5242	1.3961	7.3499	8.2561	71.8245	14	
9.7688	0.83598	1.4109	3.5298	1.3902	7.2262	8.0851	70.6425	15	
9.7890	0.83890	1.4239	3.5081	1.3960	7.2635	8.1032	70.7765	16	
9.7800	0.84140	1.4351	3.5191	1.3947	7.2467	8.0946	70.7225	19	
9.7265	0.83978	1.4320	3.4801	1.3896	7.2104	8.0494	70.5475	20	
9.6385	0.84240	1.4342	3.4729	1.3932	7.2369	8.0887	70.7380	21	
9.6008	0.84645	1.4470	3.4761	1.4066	7.2560	8.1083	71.0005	22	
9.6460	0.85278	1.4566	3.4146	1.4117	7.2555	8.1069	70.8275	23	
9.6588	0.85300	1.4532	3.4256	1.4136	7.2619	8.1043	71.0430	27	
9.5783	0.85128	1.4492	3.4026	1.4119	7.2384	8.0694	70.9685	28	
9.5585	0.85300	1.4505	3.4123	1.4154	7.2706	8.1076	71.0950	29	
9.5525	0.85618	1.4596	3.4305	1.4188	7.3202	8.1751	71.5935	30	
9.5438	0.85140	1.4574	3.4265	1.4070	7.2690	8.1180	71.3080	2017 Jan 2	
9.5348	0.84565	1.4387	3.3916	1.3962	7.2285	8.0554	71.0010	3	
9.5238	0.84945	1.4373	3.3784	1.3894	7.2382	8.0948	71.0390	4	
9.5341	0.85440	1.4401	3.3742	1.3966	7.2311	8.1431	71.3394	5	
9.5515	0.85648	1.4433	3.3905	1.4039	7.3253	8.2121	71.9945	6	
9.5533	0.86660	1.4357	3.3780	1.3954	7.2958	8.1562	71.6875	9	
9.5595	0.86940	1.4400	3.3743	1.3992	7.3176	8.1947	72.0855	10	

II Euro foreign exchange reference rates of the European Central Bank *

1 Daily rates (cont'd)

EUR 1 = CU ...

		Other European and non-European countries (cont'd)							
		Indonesia	Israel	Japan	Korea, Republic of	Malaysia	Mexico	New Zealand	Norway
Period		Indonesian rupiah IDR	New Israeli sheqel ILS	Japanese yen JPY	South Korean won KRW	Malaysian ringgit MYR	Mexican peso MXN	New Zealand dollar NZD	Norwegian krone NOK
2016 Oct	3	14,587.14	4.2228	113.90	1,237.21	4.6272	21.6150	1.5454	8.9625
	4	14,507.07	4.2079	114.50	1,238.16	4.6067	21.5831	1.5327	8.9175
	5	14,612.32	4.2343	115.65	1,250.31	4.6397	21.6129	1.5612	8.9872
	6	14,560.63	4.2301	116.00	1,249.22	4.6563	21.5700	1.5647	8.9938
	7	14,466.31	4.2314	115.44	1,243.04	4.6343	21.5602	1.5590	9.0010
	10	14,482.89	4.2292	115.39	1,240.60	4.6353	21.1388	1.5647	9.0448
	11	14,451.84	4.2108	114.90	1,245.11	4.6354	20.9088	1.5657	9.0395
	12	14,359.41	4.2053	114.50	1,239.66	4.6229	20.8564	1.5621	9.0290
	13	14,434.94	4.2093	114.49	1,251.86	4.6490	20.9532	1.5623	9.0768
	14	14,358.56	4.2026	114.76	1,246.06	4.6128	20.8448	1.5508	9.0248
	17	14,355.97	4.2054	114.46	1,253.18	4.6367	20.8199	1.5433	9.0315
	18	14,323.88	4.2084	114.37	1,238.27	4.6086	20.5713	1.5280	8.9565
	19	14,267.21	4.2056	113.49	1,233.88	4.5971	20.4850	1.5232	8.9585
	20	14,282.24	4.2182	113.76	1,237.37	4.5809	20.3810	1.5185	8.9625
	21	14,231.90	4.1993	112.96	1,238.63	4.5569	20.3075	1.5190	8.9538
	24	14,178.99	4.2057	113.29	1,234.29	4.5444	20.2263	1.5215	8.9855
	25	14,140.12	4.1863	113.65	1,230.63	4.5142	20.1024	1.5208	8.9868
	26	14,213.50	4.1938	113.97	1,240.92	4.5470	20.3468	1.5246	9.0425
	27	14,240.57	4.1989	114.39	1,249.16	4.5846	20.4611	1.5296	8.9858
	28	14,253.76	4.2121	115.10	1,251.01	4.5960	20.5575	1.5296	9.0445
	31	14,273.82	4.2138	114.97	1,254.89	4.5970	20.7150	1.5313	9.0345
Nov	1	14,385.42	4.2134	115.57	1,258.44	4.6006	20.8180	1.5342	9.0213
	2	14,480.74	4.2334	114.62	1,268.46	4.6366	21.4950	1.5232	9.0735
	3	14,458.44	4.2207	114.25	1,266.04	4.6331	21.3426	1.5134	9.0575
	4	14,519.46	4.2197	114.24	1,269.41	4.6661	21.2285	1.5169	9.1098
	7	14,477.95	4.2173	115.40	1,264.69	4.6644	20.6389	1.5116	9.1035
	8	14,456.30	4.2069	115.66	1,253.75	4.6562	20.4890	1.5060	9.0753
	9	14,539.12	4.1896	114.54	1,270.65	4.6688	21.8522	1.5065	9.1193
	10	14,473.88	4.1841	116.40	1,264.88	4.6883	22.0369	1.5132	9.0733
	11	14,616.81	4.1782	115.96	1,270.20	4.7342	22.7062	1.5163	9.1148
	14	14,395.38	4.1499	116.27	1,263.99	4.6870	22.5024	1.5193	9.1350
	15	14,391.32	4.1358	116.55	1,255.15	4.6604	22.0328	1.5144	9.0848
	16	14,416.66	4.1269	117.25	1,258.36	4.6554	21.9071	1.5179	9.0720
	17	14,331.31	4.1350	117.12	1,261.17	4.6962	21.7504	1.5143	9.0878
	18	14,272.09	4.1163	116.95	1,250.14	4.6810	21.6968	1.5073	9.1038
	21	14,235.97	4.1138	117.59	1,251.35	4.6989	21.7761	1.5081	9.0843
	22	14,254.41	4.1041	117.74	1,246.90	4.6938	21.5845	1.5033	9.0563
	23	14,351.42	4.1055	118.04	1,248.20	4.7122	21.8340	1.5039	9.0680
	24	14,292.54	4.0886	119.43	1,246.47	4.7043	21.8850	1.5096	9.0858
	25	14,317.74	4.1047	119.73	1,247.03	4.7203	21.8727	1.5040	9.0690
	28	14,325.56	4.0829	119.25	1,243.58	4.7249	21.7570	1.4991	9.0848
	29	14,354.28	4.0680	119.48	1,241.38	4.7232	21.8756	1.4912	9.0765
	30	14,413.08	4.0850	120.48	1,247.37	4.7496	21.8775	1.4911	9.0190
Dec	1	14,394.27	4.0736	121.39	1,241.64	4.7434	21.9342	1.5008	8.9628
	2	14,388.31	4.0772	121.20	1,247.36	4.7384	22.1158	1.4990	8.9860
	5	14,375.46	4.0954	122.32	1,254.48	4.7608	22.0853	1.5105	8.9840
	6	14,364.78	4.0884	122.28	1,255.21	4.7611	21.8710	1.5059	8.9803
	7	14,297.73	4.0809	122.42	1,247.57	4.7555	21.8094	1.5022	8.9908
	8	14,298.93	4.0768	122.61	1,250.03	4.7590	21.8915	1.4973	9.0145
	9	14,072.51	4.0400	121.48	1,237.00	4.6708	21.5825	1.4745	8.9805
	12	14,121.82	4.0497	122.69	1,237.73	4.6750	21.4472	1.4793	8.9498
	13	14,124.95	4.0420	122.27	1,237.88	4.7167	21.4788	1.4724	8.9495
	14	14,143.75	4.0550	122.39	1,241.10	4.7303	21.5666	1.4741	9.0223
	15	13,987.51	4.0062	123.03	1,235.83	4.6596	21.5200	1.4752	8.9993
	16	13,977.82	4.0425	123.38	1,239.53	4.6715	21.2528	1.4892	9.0623
	19	13,963.30	4.0309	122.19	1,238.96	4.6670	21.2881	1.5023	9.0485
	20	13,959.27	4.0024	122.43	1,238.45	4.6426	21.1150	1.5029	9.0343
	21	14,000.60	3.9925	122.31	1,243.87	4.6681	21.3048	1.5052	9.0260
	22	14,070.92	3.9906	122.86	1,257.21	4.6768	21.6087	1.5111	9.0975
	23	14,034.13	3.9950	122.60	1,257.59	4.6735	21.6150	1.5195	9.0928
	27	14,046.52	4.0261	122.61	1,260.98	4.6785	21.5344	1.5168	9.1078
	28	13,981.54	4.0075	122.39	1,261.97	4.6633	21.5700	1.5050	9.0777
	29	14,072.35	4.0226	122.04	1,264.25	4.6876	21.6329	1.5040	9.0758
	30	14,173.43	4.0477	123.40	1,269.36	4.7287	21.7719	1.5158	9.0863
2017 Jan	2	14,157.05	4.0322	122.92	1,263.85	4.6946	21.7063	1.5103	9.0543
	3	13,998.46	4.0155	122.75	1,253.43	4.6655	21.4935	1.5016	9.0013
	4	13,969.26	4.0252	122.64	1,251.90	4.6940	22.0709	1.5024	8.9905
	5	14,029.62	4.0476	122.38	1,250.78	4.7097	22.3446	1.5087	9.0215
	6	14,152.20	4.0618	122.83	1,261.36	4.7359	22.5290	1.5073	8.9868
	9	14,033.73	4.0480	122.66	1,266.33	4.7080	22.3940	1.5067	9.0193
	10	14,043.54	4.0624	122.84	1,269.08	4.7282	22.6397	1.5165	9.0750

* See Explanatory notes, p 51.

II Euro foreign exchange reference rates of the European Central Bank *

Philippines	Russian Federation	Singapore	South Africa	Switzerland	Thailand	Turkey	United States	Period
Philippine peso PHP	Russian rouble RUB	Singapore dollar SGD	South African rand ZAR	Swiss franc CHF	Thai baht THB	Turkish lira TRY	US dollar USD	
54.179	70.0010	1.5326	15.2641	1.0918	38.910	3.3861	1.1236	2016 Oct 3
53.856	69.7125	1.5289	15.1834	1.0949	38.729	3.3883	1.1161	4
54.055	69.9836	1.5365	15.4086	1.0959	39.020	3.4235	1.1211	5
54.107	69.7269	1.5365	15.4574	1.0942	38.985	3.4141	1.1185	6
53.883	69.5692	1.5320	15.4629	1.0946	38.890	3.3985	1.1140	7
54.027	69.6779	1.5337	15.4550	1.0960	39.172	3.4268	1.1160	10
53.817	69.1597	1.5277	15.8020	1.0938	39.209	3.4139	1.1079	11
53.557	68.9576	1.5240	15.8622	1.0906	39.397	3.4039	1.1020	12
53.439	69.8060	1.5275	15.7803	1.0904	39.273	3.4196	1.1038	13
53.227	69.2807	1.5263	15.6303	1.0889	38.804	3.3969	1.1002	14
53.357	69.0709	1.5270	15.6533	1.0872	38.776	3.4017	1.0994	17
52.934	69.1488	1.5242	15.4413	1.0886	38.541	3.4078	1.0993	18
52.692	68.6223	1.5228	15.2650	1.0854	38.317	3.3724	1.0979	19
52.727	68.5407	1.5247	15.2739	1.0852	38.408	3.3606	1.0980	20
52.574	67.9165	1.5179	15.2751	1.0825	38.248	3.3527	1.0886	21
52.562	67.7970	1.5159	15.1167	1.0821	38.119	3.3501	1.0891	24
52.418	67.4963	1.5133	15.0403	1.0848	37.998	3.3407	1.0872	25
52.940	68.1000	1.5181	15.0219	1.0838	38.238	3.3702	1.0925	26
52.985	68.6064	1.5211	15.1421	1.0838	38.343	3.3845	1.0927	27
52.995	68.7678	1.5229	15.1610	1.0855	38.282	3.4058	1.0922	28
53.063	69.2498	1.5251	14.8482	1.0820	38.327	3.3965	1.0946	31
53.228	69.3698	1.5308	14.8790	1.0823	38.610	3.4195	1.1025	Nov 1
53.639	70.3983	1.5360	14.8423	1.0787	38.783	3.4580	1.1095	2
53.556	70.5482	1.5332	14.8945	1.0787	38.691	3.4431	1.1064	3
53.837	71.0672	1.5357	15.0121	1.0774	38.803	3.4930	1.1093	4
53.892	70.4750	1.5376	14.8845	1.0789	38.728	3.5068	1.1062	7
53.684	70.4040	1.5347	14.7318	1.0778	38.589	3.4993	1.1038	8
53.780	69.8562	1.5365	14.8301	1.0793	38.516	3.5215	1.1022	9
53.358	69.6283	1.5348	15.1054	1.0762	38.307	3.5280	1.0895	10
53.473	71.4075	1.5359	15.5073	1.0732	38.491	3.5471	1.0904	11
52.993	71.6148	1.5259	15.5062	1.0739	38.226	3.5478	1.0777	14
52.888	70.2005	1.5202	15.2680	1.0758	38.103	3.5307	1.0765	15
52.830	69.6846	1.5174	15.3397	1.0738	38.003	3.5541	1.0702	16
53.130	69.2184	1.5180	15.2932	1.0737	37.981	3.5712	1.0717	17
52.687	68.7941	1.5107	15.2790	1.0711	37.744	3.5798	1.0629	18
52.884	68.1690	1.5125	15.1173	1.0727	37.708	3.5757	1.0631	21
52.878	67.9600	1.5126	14.9242	1.0730	37.653	3.5717	1.0617	22
52.899	68.1458	1.5136	14.9912	1.0731	37.743	3.5944	1.0602	23
52.723	68.0798	1.5107	15.0085	1.0727	37.635	3.6136	1.0548	24
52.801	68.4111	1.5132	14.9718	1.0736	37.760	3.6523	1.0592	25
52.785	68.8075	1.5114	14.7014	1.0751	37.662	3.6282	1.0588	28
52.664	69.0453	1.5113	14.7958	1.0752	37.756	3.6267	1.0576	29
52.913	68.4209	1.5179	14.8895	1.0803	37.919	3.6372	1.0635	30
52.833	67.7700	1.5175	14.9575	1.0764	37.901	3.7032	1.0627	Dec 1
52.858	68.2570	1.5140	14.9853	1.0751	37.907	3.7747	1.0642	2
53.188	68.1175	1.5230	14.8125	1.0797	38.147	3.7794	1.0702	5
53.191	68.4247	1.5228	14.6122	1.0833	38.213	3.7202	1.0734	6
53.259	68.3924	1.5218	14.5531	1.0834	38.231	3.6683	1.0730	7
53.465	68.1900	1.5272	14.7162	1.0853	38.334	3.6676	1.0762	8
52.615	66.6988	1.5079	14.5450	1.0756	37.664	3.6707	1.0559	9
52.720	64.8661	1.5145	14.5441	1.0772	37.764	3.7269	1.0596	12
52.844	64.5831	1.5138	14.5220	1.0742	37.772	3.6953	1.0610	13
52.918	65.1386	1.5157	14.5508	1.0747	37.882	3.7125	1.0644	14
52.027	64.3953	1.5008	14.6283	1.0733	37.290	3.6840	1.0419	15
52.193	64.3017	1.5065	14.5876	1.0751	37.413	3.6601	1.0439	16
52.165	64.5075	1.5103	14.6690	1.0709	37.399	3.6532	1.0422	19
51.849	63.8664	1.5002	14.5806	1.0687	37.341	3.6471	1.0364	20
52.002	63.6682	1.5036	14.5366	1.0689	37.510	3.6607	1.0421	21
52.238	63.7526	1.5136	14.6811	1.0706	37.622	3.6682	1.0444	22
52.002	64.0085	1.5114	14.6353	1.0711	37.564	3.6674	1.0446	23
51.959	63.4525	1.5130	14.5792	1.0754	37.612	3.6777	1.0445	27
51.845	62.9938	1.5107	14.4535	1.0714	37.475	3.6882	1.0401	28
51.912	63.2555	1.5156	14.2922	1.0714	37.568	3.6926	1.0453	29
52.268	64.3000	1.5234	14.4570	1.0739	37.726	3.7072	1.0541	30
51.777	64.1073	1.5181	14.3670	1.0711	37.486	3.7084	1.0465	2017 Jan 2
51.765	62.9125	1.5061	14.2840	1.0702	37.287	3.7261	1.0385	3
51.811	63.4078	1.5047	14.2409	1.0707	37.375	3.7387	1.0437	4
51.993	62.4526	1.5076	14.3244	1.0704	37.599	3.8020	1.0501	5
52.257	62.7475	1.5169	14.4179	1.0725	37.760	3.8305	1.0589	6
52.188	62.8383	1.5135	14.4127	1.0721	37.574	3.9210	1.0516	9
52.384	63.5057	1.5193	14.4773	1.0737	37.640	3.9912	1.0567	10

II Euro foreign exchange reference rates of the European Central Bank *

2 Monthly averages +

EUR 1 = CU ...

Period	EU member countries									Other European
	Bulgaria	Croatia	Czechia	Denmark	Hungary	Poland	Romania	Sweden	United Kingdom	Australia
	Bulgarian lev BGN	Kuna HRK	Czech koruna CZK	Danish krone DKK	Hungarian forint HUF	Polish zloty PLN	Romanian leu RON	Swedish krona SEK	Pound sterling GBP	Australian dollar AUD
2011 Dec	1.9558	7.5136	25.514	7.4341	304.19	4.4774	4.3282	9.0184	0.84405	1.3003
2012 Jan	1.9558	7.5543	25.531	7.4353	307.33	4.3760	4.3417	8.8503	0.83210	1.2405
Feb	1.9558	7.5815	25.042	7.4341	290.68	4.1835	4.3513	8.8196	0.83696	1.2327
Mar	1.9558	7.5358	24.676	7.4354	292.26	4.1370	4.3668	8.8873	0.83448	1.2538
Apr	1.9558	7.4991	24.809	7.4393	294.81	4.1782	4.3789	8.8650	0.82188	1.2718
May	1.9558	7.4383	25.313	7.4335	293.67	4.2937	4.4412	8.9924	0.80371	1.2825
June	1.9558	7.5434	25.640	7.4325	293.57	4.2973	4.4626	8.8743	0.80579	1.2550
July	1.9558	7.5006	25.447	7.4384	286.28	4.1837	4.5549	8.5451	0.78827	1.1931
Aug	1.9558	7.4853	25.021	7.4454	278.93	4.0934	4.5176	8.2805	0.78884	1.1841
Sep	1.9558	7.4291	24.752	7.4539	284.22	4.1345	4.5022	8.4929	0.79821	1.2372
Oct	1.9558	7.5140	24.939	7.4582	282.09	4.1071	4.5624	8.6145	0.80665	1.2596
Nov	1.9558	7.5410	25.365	7.4587	282.26	4.1321	4.5273	8.6076	0.80389	1.2331
Dec	1.9558	7.5334	25.214	7.4604	285.79	4.0956	4.4899	8.6512	0.81237	1.2527
2013 Jan	1.9558	7.5746	25.563	7.4614	294.01	4.1424	4.3835	8.6217	0.83271	1.2658
Feb	1.9558	7.5868	25.475	7.4598	292.73	4.1700	4.3839	8.5083	0.86250	1.2951
Mar	1.9558	7.5909	25.659	7.4553	303.01	4.1565	4.3923	8.3470	0.85996	1.2537
Apr	1.9558	7.6076	25.841	7.4553	298.67	4.1359	4.3780	8.4449	0.85076	1.2539
May	1.9558	7.5684	25.888	7.4536	292.38	4.1799	4.3360	8.5725	0.84914	1.3133
June	1.9558	7.4901	25.759	7.4576	295.70	4.2839	4.4803	8.6836	0.85191	1.3978
July	1.9558	7.5061	25.944	7.4579	294.90	4.2745	4.4244	8.6609	0.86192	1.4279
Aug	1.9558	7.5372	25.818	7.4580	299.46	4.2299	4.4371	8.7034	0.85904	1.4742
Sep	1.9558	7.5985	25.789	7.4579	299.75	4.2371	4.4633	8.6758	0.84171	1.4379
Oct	1.9558	7.6193	25.662	7.4592	294.76	4.1902	4.4444	8.7479	0.84720	1.4328
Nov	1.9558	7.6326	26.927	7.4587	297.68	4.1887	4.4452	8.8802	0.83780	1.4473
Dec	1.9558	7.6365	27.521	7.4602	300.24	4.1760	4.4635	8.9597	0.83639	1.5243
2014 Jan	1.9558	7.6353	27.485	7.4614	302.48	4.1799	4.5205	8.8339	0.82674	1.5377
Feb	1.9558	7.6574	27.444	7.4622	310.20	4.1741	4.4918	8.8721	0.82510	1.5222
Mar	1.9558	7.6576	27.395	7.4638	311.49	4.1987	4.4933	8.8666	0.83170	1.5217
Apr	1.9558	7.6267	27.450	7.4656	307.37	4.1853	4.4620	9.0329	0.82520	1.4831
May	1.9558	7.5952	27.437	7.4641	304.58	4.1800	4.4237	9.0298	0.81535	1.4755
June	1.9558	7.5770	27.450	7.4588	305.87	4.1352	4.3930	9.0914	0.80409	1.4517
July	1.9558	7.6146	27.458	7.4564	309.81	4.1444	4.4098	9.2327	0.79310	1.4420
Aug	1.9558	7.6326	27.816	7.4551	313.91	4.1919	4.4252	9.1878	0.79730	1.4306
Sep	1.9558	7.6236	27.599	7.4449	313.20	4.1899	4.4095	9.1929	0.79113	1.4246
Oct	1.9558	7.6573	27.588	7.4448	307.85	4.2066	4.4153	9.1797	0.78861	1.4436
Nov	1.9558	7.6700	27.667	7.4415	306.89	4.2121	4.4288	9.2384	0.79054	1.4438
Dec	1.9558	7.6682	27.640	7.4402	310.83	4.2155	4.4583	9.4043	0.78830	1.4928
2015 Jan	1.9558	7.6883	27.895	7.4406	316.50	4.2783	4.4874	9.4167	0.76680	1.4390
Feb	1.9558	7.7114	27.608	7.4501	306.88	4.1760	4.4334	9.4901	0.74051	1.4568
Mar	1.9558	7.6467	27.379	7.4593	303.45	4.1259	4.4339	9.2449	0.72358	1.4008
Apr	1.9558	7.5896	27.439	7.4655	299.43	4.0180	4.4155	9.3254	0.72116	1.3939
May	1.9558	7.5591	27.397	7.4612	306.33	4.0811	4.4477	9.3037	0.72124	1.4123
June	1.9558	7.5719	27.307	7.4603	311.96	4.1586	4.4671	9.2722	0.72078	1.4530
July	1.9558	7.5863	27.094	7.4616	311.53	4.1524	4.4391	9.3860	0.70685	1.4844
Aug	1.9558	7.5578	27.041	7.4627	311.61	4.1953	4.4235	9.5155	0.71423	1.5269
Sep	1.9558	7.5890	27.089	7.4610	313.14	4.2176	4.4236	9.3924	0.73129	1.5900
Oct	1.9558	7.6208	27.105	7.4601	311.27	4.2508	4.4227	9.3485	0.73287	1.5586
Nov	1.9558	7.6074	27.039	7.4602	312.27	4.2494	4.4453	9.3133	0.70658	1.5011
Dec	1.9558	7.6397	27.027	7.4612	314.40	4.2900	4.5033	9.2451	0.72595	1.5009
2016 Jan	1.9558	7.6582	27.027	7.4619	314.68	4.4074	4.5311	9.2826	0.75459	1.5510
Feb	1.9558	7.6355	27.040	7.4628	310.37	4.3970	4.4814	9.4105	0.77559	1.5556
Mar	1.9558	7.5593	27.051	7.4569	311.15	4.2932	4.4666	9.2848	0.78020	1.4823
Apr	1.9558	7.4947	27.031	7.4427	311.46	4.3106	4.4724	9.2027	0.79230	1.4802
May	1.9558	7.4979	27.026	7.4386	314.58	4.4039	4.4991	9.2948	0.77779	1.5461
June	1.9558	7.5204	27.061	7.4371	313.98	4.3996	4.5230	9.3338	0.79049	1.5173
July	1.9558	7.4930	27.042	7.4390	314.35	4.3964	4.4856	9.4742	0.84106	1.4694
Aug	1.9558	7.4866	27.025	7.4408	310.21	4.3005	4.4591	9.4913	0.85521	1.4690
Sep	1.9558	7.5005	27.022	7.4475	308.68	4.3207	4.4502	9.5655	0.85228	1.4768
Oct	1.9558	7.5068	27.022	7.4402	307.00	4.3076	4.4942	9.7073	0.89390	1.4470
Nov	1.9558	7.5211	27.033	7.4406	308.82	4.3911	4.5100	9.8508	0.86894	1.4331
Dec	1.9558	7.5404	27.031	7.4362	312.24	4.4357	4.5164	9.7095	0.84441	1.4356

* See Explanatory notes, p 51. + Averages: Bundesbank calculations based on the daily euro foreign exchange reference rates published by the ECB.

II Euro foreign exchange reference rates of the European Central Bank *

and non-European countries											
Brazil	Canada	China	Hong Kong	India	Indonesia	Israel	Japan	Korea, Republic of	Malaysia		
Brazilian real BRL	Canadian dollar CAD	Chinese yuan renminbi CNY	Hong Kong dollar HKD	Indian rupee INR	Indonesian rupiah IDR	New Israeli sheqel ILS	Japanese yen JPY	South Korean won KRW	Malaysian ringgit MYR	Period	
2.4175	1.3481	8.3563	10.2496	69.2066	11,965.40	4.9725	102.55	1,513.26	4.1639	2011 Dec	
2.3084	1.3073	8.1465	10.0187	66.0601	11,709.25	4.9141	99.33	1,474.96	4.0151	2012 Jan	
2.2729	1.3193	8.3314	10.2553	65.0589	11,913.82	4.9474	103.77	1,485.58	3.9978	Feb	
2.3674	1.3121	8.3326	10.2474	66.5399	12,082.50	4.9679	108.88	1,487.83	4.0229	Mar	
2.4405	1.3068	8.2921	10.2163	68.1939	12,068.69	4.9362	107.00	1,495.40	4.0277	Apr	
2.5357	1.2916	8.0806	9.9291	69.6407	11,913.51	4.8974	101.97	1,481.36	3.9688	May	
2.5658	1.2874	7.9676	9.7192	70.1673	11,830.22	4.8763	99.26	1,458.61	3.9836	June	
2.4914	1.2461	7.8288	9.5308	68.1061	11,605.16	4.9042	97.07	1,404.11	3.8914	July	
2.5170	1.2315	7.8864	9.6177	68.8632	11,777.55	4.9779	97.58	1,403.93	3.8643	Aug	
2.6066	1.2583	8.1273	9.9686	70.0452	12,287.93	5.0717	100.49	1,444.65	3.9599	Sep	
2.6333	1.2801	8.1390	10.0574	68.8589	12,457.30	4.9976	102.47	1,435.37	3.9649	Oct	
2.6512	1.2787	7.9998	9.9423	70.3250	12,343.83	4.9970	103.94	1,395.13	3.9230	Nov	
2.7264	1.2984	8.1809	10.1679	71.6946	12,643.37	4.9570	109.71	1,411.41	4.0075	Dec	
2.6993	1.3189	8.2698	10.3027	72.0716	12,837.99	4.9706	118.34	1,417.69	4.0413	2013 Jan	
2.6354	1.3477	8.3282	10.3608	71.9342	12,933.75	4.9359	124.40	1,452.82	4.1403	Feb	
2.5694	1.3285	8.0599	10.0588	70.5579	12,590.61	4.7769	122.99	1,430.31	4.0309	Mar	
2.6060	1.3268	8.0564	10.1110	70.7738	12,664.51	4.7164	127.54	1,460.89	3.9686	Apr	
2.6414	1.3257	7.9715	10.0766	71.4760	12,673.13	4.7223	131.13	1,444.56	3.9200	May	
2.8613	1.3596	8.0905	10.2349	77.0284	13,033.31	4.7865	128.40	1,498.33	4.1488	June	
2.9438	1.3619	8.0234	10.1455	78.1762	13,189.17	4.7153	130.39	1,473.35	4.1746	July	
3.1170	1.3853	8.1477	10.3223	83.9480	14,168.72	4.7610	130.34	1,485.93	4.3631	Aug	
3.0345	1.3817	8.1690	10.3504	85.2678	15,073.16	4.7636	132.41	1,446.60	4.3410	Sep	
2.9860	1.4128	8.3226	10.5724	84.0071	15,109.54	4.8232	133.32	1,454.73	4.3283	Oct	
3.0959	1.4145	8.2221	10.4604	84.4990	15,575.06	4.7711	134.97	1,434.06	4.3176	Nov	
3.2133	1.4580	8.3248	10.6254	84.7631	16,455.73	4.8019	141.68	1,446.99	4.4517	Dec	
3.2437	1.4884	8.2368	10.5586	84.5099	16,471.94	4.7569	141.47	1,453.94	4.5005	2014 Jan	
3.2581	1.5094	8.3062	10.6012	84.9503	16,270.18	4.8043	139.35	1,462.51	4.5194	Feb	
3.2187	1.5352	8.5332	10.7283	84.2990	15,785.89	4.8087	141.48	1,479.99	4.5361	Mar	
3.0864	1.5181	8.5984	10.7107	83.3624	15,801.66	4.8010	141.62	1,441.28	4.4989	Apr	
3.0512	1.4951	8.5658	10.6456	81.4318	15,830.12	4.7600	139.74	1,407.13	4.4337	May	
3.0388	1.4728	8.4698	10.5365	81.2046	16,167.87	4.6966	138.72	1,385.45	4.3760	June	
3.0109	1.4524	8.3940	10.4935	81.3058	15,789.65	4.6325	137.72	1,382.29	4.3100	July	
3.0219	1.4548	8.1965	10.3207	81.0709	15,603.10	4.6569	137.11	1,364.17	4.2310	Aug	
3.0089	1.4196	7.9207	10.0019	78.5676	15,362.85	4.6896	138.39	1,336.02	4.1522	Sep	
3.1018	1.4214	7.7635	9.8309	77.7896	15,389.80	4.7249	136.85	1,345.25	4.1436	Oct	
3.1829	1.4136	7.6411	9.6716	76.9566	15,177.15	4.7783	145.03	1,370.36	4.1747	Nov	
3.2499	1.4216	7.6330	9.5626	77.3781	15,351.19	4.8503	147.06	1,359.97	4.2903	Dec	
3.0639	1.4039	7.2269	9.0102	72.2141	14,617.69	4.5856	137.47	1,266.19	4.1648	2015 Jan	
3.1977	1.4199	7.0960	8.8020	70.4356	14,504.28	4.4192	134.69	1,250.50	4.0822	Feb	
3.3997	1.3661	6.7623	8.4081	67.7387	14,152.16	4.3325	130.41	1,205.92	3.9889	Mar	
3.2800	1.3313	6.6863	8.3550	67.6432	13,950.49	4.2456	128.94	1,170.32	3.9118	Apr	
3.4105	1.3568	6.9165	8.6436	71.1153	14,650.36	4.3086	134.75	1,220.20	4.0191	May	
3.4941	1.3854	6.9587	8.6935	71.5873	14,919.43	4.2891	138.74	1,248.79	4.1949	June	
3.5405	1.4124	6.8269	8.5236	69.9960	14,720.40	4.1679	135.68	1,260.75	4.1824	July	
3.9118	1.4637	7.0626	8.6358	72.5361	15,370.92	4.2836	137.12	1,313.48	4.5297	Aug	
4.3666	1.4882	7.1462	8.6966	74.2990	16,175.76	4.3917	134.85	1,329.94	4.8286	Sep	
4.3599	1.4685	7.1346	8.7073	73.1116	15,482.55	4.3414	134.84	1,286.06	4.7818	Oct	
4.0601	1.4248	6.8398	8.3211	71.0406	14,685.99	4.1760	131.60	1,239.19	4.6328	Nov	
4.2145	1.4904	7.0193	8.4307	72.3851	15,087.43	4.2199	132.36	1,277.56	4.6615	Dec	
4.4021	1.5447	7.1393	8.4509	73.2036	15,069.76	4.2903	128.32	1,307.56	4.7162	2016 Jan	
4.3953	1.5317	7.2658	8.6333	75.7172	14,985.33	4.3336	127.35	1,349.77	4.6411	Feb	
4.1195	1.4697	7.2220	8.6152	74.3018	14,629.58	4.2927	125.39	1,314.89	4.5167	Mar	
4.0374	1.4559	7.3461	8.7954	75.3823	14,932.22	4.2812	124.29	1,300.58	4.4232	Apr	
3.9983	1.4626	7.3864	8.7815	75.7016	15,188.82	4.3115	123.21	1,329.46	4.5755	May	
3.8570	1.4477	7.4023	8.7162	75.5592	14,969.03	4.3323	118.45	1,310.59	4.5760	June	
3.6263	1.4428	7.3910	8.5858	74.3738	14,520.91	4.2686	115.25	1,264.05	4.4471	July	
3.5983	1.4557	7.4537	8.6961	75.0303	14,757.31	4.2559	113.49	1,245.55	4.5141	Aug	
3.6436	1.4677	7.4819	8.6964	74.8220	14,697.52	4.2210	114.22	1,244.12	4.6108	Sep	
3.5158	1.4594	7.4198	8.5533	73.5775	14,361.10	4.2110	114.47	1,243.02	4.6040	Oct	
3.6056	1.4519	7.3883	8.3758	73.0550	14,398.18	4.1491	116.93	1,256.71	4.6843	Nov	
3.5405	1.4070	7.2983	8.1802	71.5390	14,135.71	4.0401	122.39	1,248.48	4.7013	Dec	

II Euro foreign exchange reference rates of the European Central Bank *

2 Monthly averages + (cont'd)

EUR 1 = CU ...

Period	Other European and non-European countries (cont'd)										
	Mexico Mexican peso MXN	New Zealand New Zealand dollar NZD	Norway Norwegian krone NOK	Philippines Philippine peso PHP	Russian Federation Russian rouble RUB	Singapore Singapore dollar SGD	South Africa South African rand ZAR	Switzerland Swiss franc CHF	Thailand Thai baht THB	Turkey Turkish lira TRY	United States US dollar USD
2011 Dec	18.1174	1.7102	7.7451	57.537	41.5686	1.7070	10.7829	1.2276	41.099	2.4632	1.3179
2012 Jan	17.3140	1.6132	7.6752	56.208	40.4394	1.6510	10.3405	1.2108	40.718	2.3759	1.2905
Feb	16.9159	1.5845	7.5522	56.419	39.4232	1.6585	10.1289	1.2071	40.614	2.3264	1.3224
Mar	16.8239	1.6104	7.5315	56.634	38.7804	1.6624	10.0475	1.2061	40.557	2.3631	1.3201
Apr	17.1900	1.6095	7.5698	56.145	38.8087	1.6459	10.3060	1.2023	40.639	2.3520	1.3162
May	17.4237	1.6538	7.5655	54.908	39.5585	1.6152	10.4412	1.2012	40.077	2.3149	1.2789
June	17.4529	1.6062	7.5401	53.510	41.1766	1.6016	10.5050	1.2011	39.640	2.2837	1.2526
July	16.4263	1.5390	7.4579	51.452	39.9467	1.5494	10.1379	1.2011	38.873	2.2281	1.2288
Aug	16.3600	1.5306	7.3239	52.173	39.6334	1.5480	10.2585	1.2011	38.974	2.2291	1.2400
Sep	16.6413	1.5721	7.3945	53.629	40.4006	1.5837	10.6512	1.2089	39.842	2.3177	1.2856
Oct	16.7207	1.5817	7.4076	53.691	40.3558	1.5879	11.2215	1.2098	39.811	2.3384	1.2974
Nov	16.7689	1.5660	7.3371	52.716	40.2505	1.5695	11.2986	1.2052	39.391	2.3010	1.2828
Dec	16.8664	1.5777	7.3503	53.796	40.3114	1.6009	11.3179	1.2091	40.187	2.3439	1.3119
2013 Jan	16.8760	1.5877	7.3821	54.105	40.1847	1.6326	11.6957	1.2288	39.924	2.3543	1.3288
Feb	16.9872	1.5929	7.4232	54.355	40.3342	1.6546	11.8796	1.2298	39.839	2.3738	1.3359
Mar	16.2322	1.5657	7.4863	52.813	39.9332	1.6164	11.9169	1.2266	38.264	2.3453	1.2964
Apr	15.8895	1.5348	7.5444	53.649	40.7995	1.6120	11.8592	1.2199	37.857	2.3406	1.3026
May	15.9776	1.5774	7.5589	53.693	40.6842	1.6219	12.1798	1.2418	38.667	2.3739	1.2982
June	17.0716	1.6682	7.7394	56.658	42.6490	1.6613	13.2088	1.2322	40.664	2.5028	1.3189
July	16.6893	1.6590	7.8837	56.698	42.8590	1.6595	12.9674	1.2366	40.714	2.5274	1.3080
Aug	17.1996	1.6829	7.9386	58.471	43.9748	1.6941	13.4190	1.2338	42.072	2.6125	1.3310
Sep	17.4471	1.6406	7.9725	58.346	43.5144	1.6860	13.3287	1.2338	42.312	2.6952	1.3348
Oct	17.7413	1.6351	8.1208	58.809	43.7440	1.6956	13.5283	1.2316	42.549	2.7095	1.3635
Nov	17.6340	1.6327	8.2055	58.811	44.1581	1.6833	13.7626	1.2316	42.695	2.7316	1.3493
Dec	17.8278	1.6659	8.4053	60.552	45.0628	1.7244	14.2234	1.2245	44.323	2.8276	1.3704
2014 Jan	17.9964	1.6450	8.3927	61.263	46.0304	1.7327	14.8242	1.2317	44.822	3.0297	1.3610
Feb	18.1561	1.6466	8.3562	61.238	48.2554	1.7295	14.9820	1.2212	44.568	3.0184	1.3659
Mar	18.2447	1.6199	8.2906	61.901	49.9477	1.7513	14.8613	1.2177	44.765	3.0629	1.3823
Apr	18.0485	1.6049	8.2506	61.646	49.2978	1.7345	14.5815	1.2189	44.657	2.9393	1.3813
May	17.7620	1.5957	8.1513	60.258	47.8403	1.7189	14.2995	1.2204	44.686	2.8736	1.3732
June	17.6516	1.5769	8.2149	59.543	46.7509	1.7008	14.5094	1.2181	44.195	2.8808	1.3592
July	17.5834	1.5578	8.3880	58.844	46.9984	1.6825	14.4366	1.2150	43.470	2.8699	1.3539
Aug	17.5051	1.5783	8.2522	58.320	48.1781	1.6622	14.2052	1.2118	42.644	2.8784	1.3316
Sep	17.0717	1.5841	8.1798	57.033	49.0519	1.6295	14.1578	1.2076	41.536	2.8543	1.2901
Oct	17.0713	1.6090	8.3136	56.807	51.9380	1.6154	14.0266	1.2078	41.139	2.8577	1.2673
Nov	16.9850	1.5928	8.4912	56.101	57.5193	1.6173	13.8359	1.2027	40.908	2.7885	1.2472
Dec	17.8692	1.5874	8.9802	55.092	70.3269	1.6213	14.1582	1.2026	40.564	2.8304	1.2331
2015 Jan	17.0782	1.5213	8.9320	51.791	75.0459	1.5545	13.4598	1.0940	38.056	2.7153	1.1621
Feb	16.9310	1.5236	8.6188	50.174	73.0742	1.5382	13.1532	1.0618	36.963	2.7958	1.1350
Mar	16.4941	1.4506	8.6434	48.227	65.1401	1.4913	13.0756	1.0608	35.355	2.8077	1.0838
Apr	16.4288	1.4217	8.5057	47.863	56.7415	1.4539	12.9588	1.0379	35.072	2.8743	1.0779
May	17.0378	1.5112	8.4103	49.741	56.3735	1.4882	13.3506	1.0391	37.408	2.9491	1.1150
June	17.3467	1.6046	8.7550	50.508	61.2390	1.5091	13.7965	1.0455	37.818	3.0299	1.1213
July	17.5297	1.6542	8.9357	49.814	63.2077	1.4972	13.6973	1.0492	37.760	2.9705	1.0996
Aug	18.4333	1.7001	9.1815	51.536	73.3597	1.5573	14.3821	1.0777	39.465	3.1826	1.1139
Sep	18.8821	1.7714	9.3075	52.456	74.8040	1.5879	15.3065	1.0913	40.426	3.3835	1.1221
Oct	18.6216	1.6794	9.2892	52.070	70.9490	1.5731	15.1579	1.0882	40.092	3.2887	1.1235
Nov	17.8605	1.6365	9.2572	50.537	69.7899	1.5181	15.1743	1.0833	38.432	3.0849	1.0736
Dec	18.5500	1.6133	9.4642	51.337	76.3576	1.5321	16.3210	1.0827	39.162	3.1800	1.0877
2016 Jan	19.6039	1.6654	9.5899	51.654	83.8638	1.5561	17.7592	1.0941	39.249	3.2713	1.0860
Feb	20.4826	1.6732	9.5628	52.816	85.6158	1.5596	17.4987	1.1018	39.507	3.2638	1.1093
Mar	19.5943	1.6481	9.4300	51.722	77.9394	1.5247	17.1222	1.0920	39.089	3.2072	1.1100
Apr	19.8402	1.6458	9.3224	52.598	75.4333	1.5308	16.5695	1.0930	39.780	3.2135	1.1339
May	20.4956	1.6628	9.3036	52.951	74.4745	1.5494	17.3357	1.1059	40.064	3.3230	1.1311
June	20.9430	1.5955	9.3278	52.172	73.1466	1.5205	16.9371	1.0894	39.624	3.2737	1.1229
July	20.5453	1.5514	9.3690	52.102	71.2417	1.4949	15.9449	1.0867	38.794	3.2786	1.1069
Aug	20.7136	1.5491	9.3030	52.254	72.7952	1.5106	15.4198	1.0881	38.916	3.3206	1.1212
Sep	21.5034	1.5328	9.1971	53.359	72.2387	1.5240	15.7305	1.0919	38.935	3.3284	1.1212
Oct	20.8389	1.5409	9.0009	53.304	69.0091	1.5257	15.3593	1.0887	38.666	3.3912	1.1026
Nov	21.6800	1.5102	9.0807	53.160	69.5321	1.5232	15.0351	1.0758	38.155	3.5500	1.0799
Dec	21.6189	1.4982	9.0252	52.493	65.3781	1.5137	14.6142	1.0750	37.730	3.6917	1.0543

* See Explanatory notes, p 51. + Averages: Bundesbank calculations based on the daily euro foreign exchange reference rates published by the ECB. 1 Discontinuation of the minimum exchange rate on 15 January 2015.

II Euro foreign exchange reference rates of the European Central Bank *

3 End-of-year rates and annual averages

EUR 1 = CU ...

EU member countries									
Period	Bulgaria Bulgarian lev BGN	Croatia Kuna HRK 1	Cyprus Cyprus pound CYP 2	Czechia Czech koruna CZK	Denmark Danish krone DKK	Estonia Estonian kroon EEK 2	Hungary Hungarian forint HUF	Latvia Latvian lats LVL 2	Lithuania Lithuanian litas LTL 2
End of year									
2003	1.9557	7.6451	0.58637	32.410	7.4450	15.6466	262.50	0.6725	3.4524
2004	1.9559	7.6650	0.58000	30.464	7.4388	15.6466	245.97	0.6979	3.4528
2005	1.9563	7.3715	0.57350	29.000	7.4605	15.6466	252.87	0.6962	3.4528
2006	1.9558	7.3504	0.57820	27.485	7.4560	15.6466	251.77	0.6972	3.4528
2007	1.9558	7.3308	0.585274	26.628	7.4583	15.6466	253.73	0.6964	3.4528
2008	1.9558	7.3555	–	26.875	7.4506	15.6466	266.70	0.7083	3.4528
2009	1.9558	7.3000	–	26.473	7.4418	15.6466	270.42	0.7093	3.4528
2010	1.9558	7.3830	–	25.061	7.4535	15.6466	277.95	0.7094	3.4528
2011	1.9558	7.5370	–	25.787	7.4342	–	314.58	0.6995	3.4528
2012	1.9558	7.5575	–	25.151	7.4610	–	292.30	0.6977	3.4528
2013	1.9558	7.6265	–	27.427	7.4593	–	297.04	0.702804	3.4528
2014	1.9558	7.6580	–	27.735	7.4453	–	315.54	–	3.4528
2015	1.9558	7.6380	–	27.023	7.4626	–	315.98	–	–
2016	1.9558	7.5597	–	27.021	7.4344	–	309.83	–	–
Annual averages +									
2003	1.9490	7.5688	0.58409	31.846	7.4307	15.6466	253.62	0.6407	3.4527
2004	1.9533	7.4967	0.58185	31.891	7.4399	15.6466	251.66	0.6652	3.4529
2005	1.9558	7.4008	0.57683	29.782	7.4518	15.6466	248.05	0.6962	3.4528
2006	1.9558	7.3247	0.57578	28.342	7.4591	15.6466	264.26	0.6962	3.4528
2007	1.9558	7.3376	0.58263	27.766	7.4506	15.6466	251.35	0.7001	3.4528
2008	1.9558	7.2239	–	24.946	7.4560	15.6466	251.51	0.7027	3.4528
2009	1.9558	7.3400	–	26.435	7.4462	15.6466	280.33	0.7057	3.4528
2010	1.9558	7.2891	–	25.284	7.4473	15.6466	275.48	0.7087	3.4528
2011	1.9558	7.4390	–	24.590	7.4506	–	279.37	0.7063	3.4528
2012	1.9558	7.5217	–	25.149	7.4437	–	289.25	0.6973	3.4528
2013	1.9558	7.5786	–	25.980	7.4579	–	296.87	0.7015	3.4528
2014	1.9558	7.6344	–	27.536	7.4548	–	308.71	–	3.4528
2015	1.9558	7.6137	–	27.279	7.4587	–	310.00	–	–
2016	1.9558	7.5333	–	27.034	7.4452	–	311.44	–	–

EU member countries (cont'd)							Other European and non-European countries			
Malta	Poland	Romania	Slovakia	Slovenia	Sweden	United Kingdom	Australia	Brazil	Canada	
Maltese lira MTL 2	Polish zloty PLN	Romanian leu (old)/(new) ROL/RON 3	Slovak koruna SKK 2	Slovenian tolar SIT 2	Swedish krona SEK	Pound sterling GBP	Australian dollar AUD	Brazilian real BRL 4	Canadian dollar CAD	
End of year										
2003	0.4317	4.7019	41,158	41.170	236.7000	9.0800	0.70480	1.6802	3.6698	1.6234
2004	0.4343	4.0845	39,390	38.745	239.7600	9.0206	0.70505	1.7459	3.6201	1.6416
2005	0.4293	3.8600	3 3.6802	37.880	239.5000	9.3885	0.68530	1.6109	2.7462	1.3725
2006	0.4293	3.8310	3.3835	34.435	239.6400	9.0404	0.67150	1.6691	2.8141	1.5281
2007	0.4293	3.5935	3.6077	33.583	–	9.4415	0.73335	1.6757	2.5914	1.4449
2008	–	4.1535	4.0225	30.126	–	10.8700	0.95250	2.0274	3.2436	1.6998
2009	–	4.1045	4.2363	–	–	10.2520	0.88810	1.6008	2.5113	1.5128
2010	–	3.9750	4.2620	–	–	8.9655	0.86075	1.3136	2.2177	1.3322
2011	–	4.4580	4.3233	–	–	8.9120	0.83530	1.2723	2.4159	1.3215
2012	–	4.0740	4.4445	–	–	8.5820	0.81610	1.2712	2.7036	1.3137
2013	–	4.1543	4.4710	–	–	8.8591	0.83370	1.5423	3.2576	1.4671
2014	–	4.2732	4.4828	–	–	9.3930	0.77890	1.4829	3.2207	1.4063
2015	–	4.2639	4.5240	–	–	9.1895	0.73395	1.4897	4.3117	1.5116
2016	–	4.4103	4.5390	–	–	9.5525	0.85618	1.4596	3.4305	1.4188
Annual averages +										
2003	0.4261	4.3996	37,551	41.489	233.8493	9.1242	0.69199	1.7379	3.4701	1.5817
2004	0.4280	4.5268	40,510	40.022	239.0874	9.1243	0.67866	1.6905	3.6362	1.6167
2005	0.4299	4.0230	3 3.6209	38.599	239.5681	9.2822	0.68380	1.6320	3.0360	1.5087
2006	0.4293	3.8959	3.5258	37.234	239.5961	9.2544	0.68173	1.6668	2.7333	1.4237
2007	0.4293	3.7837	3.3353	33.775	–	9.2501	0.68434	1.6348	2.6633	1.4678
2008	–	3.5121	3.6826	31.262	–	9.6152	0.79628	1.7416	2.6737	1.5594
2009	–	4.3276	4.2399	–	–	10.6191	0.89094	1.7727	2.7674	1.5850
2010	–	3.9947	4.2122	–	–	9.5373	0.85784	1.4423	2.3314	1.3651
2011	–	4.1206	4.2391	–	–	9.0298	0.86788	1.3484	2.3265	1.3761
2012	–	4.1847	4.4593	–	–	8.7041	0.81087	1.2407	2.5084	1.2842
2013	–	4.1975	4.4190	–	–	8.6515	0.84926	1.3777	2.8687	1.3684
2014	–	4.1843	4.4437	–	–	9.0985	0.80612	1.4719	3.1211	1.4661
2015	–	4.1841	4.4454	–	–	9.3535	0.72584	1.4777	3.7004	1.4186
2016	–	4.3632	4.4904	–	–	9.4689	0.81948	1.4883	3.8561	1.4659

* See Explanatory notes, p 51. + Averages: Bundesbank calculations based on the daily euro foreign exchange reference rates published by the ECB. 1 Up to March 2005, ECB indicative rates. 2 Accession to the euro area, see p 7 (Table I 1). 3 Currency conversion effective from 1 July 2005: ROL 10,000 = RON 1; to calculate

the annual average for 2005, the rates set in (old) Romanian lei were converted at a rate of 10,000:1 and included in the calculation. 4 Up to December 2007, ECB indicative rates.

II Euro foreign exchange reference rates of the European Central Bank *

3 End-of-year rates and annual averages (cont'd)

EUR 1 = CU ...

Other European and non-European countries (cont'd)										
	China	Hong Kong	Iceland	India	Indonesia	Israel	Japan	Korea, Republic of	Malaysia	Mexico
Period	Chinese yuan renminbi CNY ¹	Hong Kong dollar HKD	Icelandic krona ISK ²	Indian rupee INR ³	Indonesian rupiah IDR ¹	New Israeli shekel ILS ⁴	Japanese yen JPY	South Korean won KRW	Malaysian ringgit MYR ¹	Mexican peso MXN ⁵
End of year										
2003	10.4539	9.8049	89.46	57.5780	10,643.10	5.5424	135.05	1,506.32	4.8019	14.1807
2004	11.2741	10.5881	83.60	59.2590	12,653.91	5.8922	139.65	1,410.05	5.1802	15.2235
2005	9.5204	9.1474	74.57	53.1130	11,596.45	5.4334	138.90	1,184.42	4.4584	12.5945
2006	10.2793	10.2409	93.13	58.2180	11,844.44	5.5677	156.93	1,224.81	4.6490	14.2899
2007	10.7524	11.4800	91.90	57.8620	13,826.70	5.6539	164.93	1,377.96	4.8682	16.0732
2008	9.4956	10.7858	2	67.4370	15,239.12	5.2919	126.14	1,839.13	4.8048	19.2333
2009	9.8350	11.1709	–	67.0400	13,626.13	5.4524	133.16	1,666.97	4.9326	18.9223
2010	8.8220	10.3856	–	59.7580	12,002.14	4.7321	108.65	1,499.06	4.0950	16.5475
2011	8.1588	10.0510	–	68.7130	11,731.47	4.9453	100.20	1,498.69	4.1055	18.0512
2012	8.2207	10.2260	–	72.5600	12,713.97	4.9258	113.61	1,406.23	4.0347	17.1845
2013	8.3491	10.6933	–	85.3660	16,764.78	4.7880	144.72	1,450.93	4.5221	18.0731
2014	7.5358	9.4170	–	76.7190	15,076.10	4.7200	145.23	1,324.80	4.2473	17.8679
2015	7.0608	8.4376	–	72.0215	15,039.99	4.2481	131.07	1,280.78	4.6959	18.9145
2016	7.3202	8.1751	–	71.5935	14,173.43	4.0477	123.40	1,269.36	4.7287	21.7719
Annual averages +										
2003	9.3626	8.8079	86.65	52.6100	9,685.54	5.1340	130.97	1,346.90	4.2983	12.2144
2004	10.2967	9.6881	87.14	56.3008	11,127.34	5.5706	134.44	1,422.62	4.7273	14.0386
2005	10.1955	9.6768	78.23	54.8117	12,072.83	5.5807	136.85	1,273.61	4.7119	13.5643
2006	10.0096	9.7545	87.76	56.8435	11,512.37	5.5920	146.02	1,198.58	4.6044	13.6936
2007	10.4178	10.6912	87.63	56.4186	12,528.33	5.6278	161.25	1,272.99	4.7076	14.9743
2008	10.2236	11.4541	2 143.83	63.6143	14,165.16	5.2561	152.45	1,606.09	4.8893	16.2911
2009	9.5277	10.8114	–	67.3611	14,443.74	5.4668	130.34	1,772.90	4.9079	18.7989
2010	8.9712	10.2994	–	60.5878	12,041.70	4.9457	116.24	1,531.82	4.2668	16.7373
2011	8.9960	10.8362	–	64.8859	12,206.51	4.9775	110.96	1,541.23	4.2558	17.2877
2012	8.1052	9.9663	–	68.5973	12,045.73	4.9536	102.49	1,447.69	3.9672	16.9029
2013	8.1646	10.3016	–	77.9300	13,857.50	4.7948	129.66	1,453.91	4.1855	16.9641
2014	8.1857	10.3025	–	81.0406	15,748.92	4.7449	140.31	1,398.14	4.3446	17.6550
2015	6.9733	8.6014	–	71.1956	14,870.39	4.3122	134.31	1,256.54	4.3373	17.6157
2016	7.3522	8.5922	–	74.3717	14,720.83	4.2489	120.20	1,284.18	4.5835	20.6673

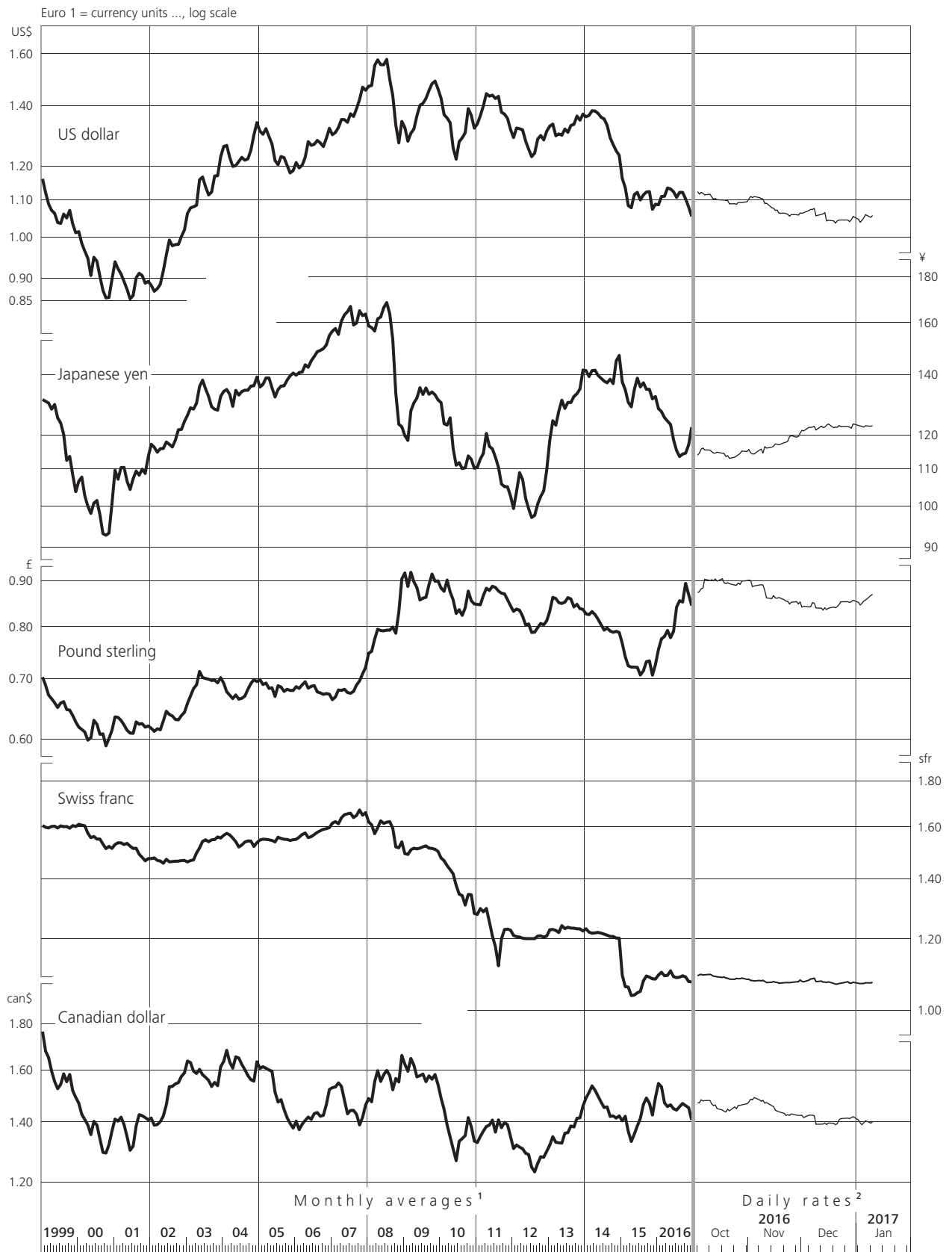
Other European and non-European countries (cont'd)										
	New Zealand	Norway	Philippines	Russian Federation	Singapore	South Africa	Switzerland	Thailand	Turkey	United States
Period	New Zealand dollar NZD	Norwegian krona NOK	Philippine peso PHP ¹	Russian rouble RUB ¹	Singapore dollar SGD	South African rand ZAR	Swiss franc CHF	Thai baht THB ¹	Turkish lira / New Turkish lira TRL / TRY ⁶	US dollar USD
End of year										
2003	1.9244	8.4141	70.171	36.9555	2.1450	8.3276	1.5579	50.041	1,771,638	1.2630
2004	1.8871	8.2365	76.510	37.7879	2.2262	7.6897	1.5429	53.042	1,836,200	1.3621
2005	1.7270	7.9850	62.719	33.9200	1.9628	7.4642	1.5551	48.437	6 1.5924	1.1797
2006	1.8725	8.2380	64.546	34.6800	2.0202	9.2124	1.6069	46.770	1.8640	1.3170
2007	1.9024	7.9580	60.724	35.9860	2.1163	10.0298	1.6547	43.800	1.7170	1.4721
2008	2.4191	9.7500	65.930	41.2830	2.0040	13.0667	1.4850	48.285	2.1488	1.3917
2009	1.9803	8.3000	66.507	43.1540	2.0194	10.6660	1.4836	47.986	2.1547	1.4406
2010	1.7200	7.8000	58.300	40.8200	1.7136	8.8625	1.2504	40.170	2.0694	1.3362
2011	1.6737	7.7540	56.754	41.7650	1.6819	10.4830	1.2156	40.991	2.4432	1.2939
2012	1.6045	7.3483	54.107	40.3295	1.6111	11.1727	1.2072	40.347	2.3551	1.3194
2013	1.6762	8.3630	61.289	45.3246	1.7414	14.5660	1.2276	45.178	2.9605	1.3791
2014	1.5525	9.0420	54.436	72.3370	1.6058	14.0353	1.2024	39.910	2.8320	1.2141
2015	1.5923	9.6030	50.999	80.6736	1.5417	16.9530	1.0835	39.248	3.1765	1.0887
2016	1.5158	9.0863	52.268	64.3000	1.5234	14.4570	1.0739	37.726	3.7072	1.0541
Annual averages +										
2003	1.9438	8.0033	61.336	34.6699	1.9703	8.5317	1.5212	46.923	1,694,851	1.1312
2004	1.8731	8.3697	69.727	35.8192	2.1016	8.0092	1.5438	50.077	1,777,052	1.2439
2005	1.7660	8.0092	68.494	35.1884	2.0702	7.9183	1.5483	50.068	6 1.6771	1.2441
2006	1.9373	8.0472	64.379	34.1117	1.9941	8.5312	1.5729	47.594	1.8090	1.2556
2007	1.8627	8.0165	63.026	35.0183	2.0636	9.6596	1.6427	44.214	1.7865	1.3705
2008	2.0770	8.2237	65.172	36.4207	2.0762	12.0590	1.5874	48.475	1.9064	1.4708
2009	2.2121	8.7278	66.338	44.1376	2.0241	11.6737	1.5100	47.804	2.1631	1.3948
2010	1.8377	8.0043	59.739	40.2629	1.8055	9.6984	1.3803	42.014	1.9965	1.3257
2011	1.7600	7.7934	60.260	40.8846	1.7489	10.0970	1.2326	42.429	2.3378	1.3920
2012	1.5867	7.4751	54.246	39.9262	1.6055	10.5511	1.2053	39.928	2.3135	1.2848
2013	1.6206	7.8067	56.428	42.3370	1.6619	12.8330	1.2311	40.830	2.5335	1.3281
2014	1.5995	8.3544	58.979	50.9518	1.6823	14.4037	1.2146	43.147	2.9065	1.3285
2015	1.5930	8.9496	50.522	68.0720	1.5255	14.1723	1.0679	38.028	3.0255	1.1095
2016	1.5886	9.2906	52.556	74.1446	1.5275	16.2645	1.0902	39.043	3.3433	1.1069

* See Explanatory notes, p 51. + Averages: Bundesbank calculations based on the daily euro foreign exchange reference rates published by the ECB. **1** Up to March 2005, ECB indicative rates. **2** The ECB has not fixed a euro foreign exchange reference rate for the Icelandic krona since 4 December 2008. **3** Up to December

2008, ECB indicative rates. **4** Up to December 2010, ECB indicative rates. **5** Up to December 2007, ECB indicative rates. **6** Currency conversion effective from 1 January 2005: 1,000,000 Turkish lira (TRL) = 1 New Turkish lira (TRY), designated as Turkish lira (TRY) since 1 January 2009.

II Euro foreign exchange reference rates of the European Central Bank

4 Exchange rates of major currencies



¹ Last monthly average: December 2016. ² Last updated: 10 January 2017.

III Effective exchange rates of the euro *

1 Annual and monthly averages

1999 Q1 = 100

Period	Effective exchange rate of the euro ¹				<i>Memo item</i> Indicators of the German economy's price competitiveness based on consumer price indices					
	EER-19		EER-38		26 selected industrial countries			37 countries	56 countries	
	Nominal	Real, based on consumer price indices	Nominal	Real, based on consumer price indices ²	Total	Euro-area countries	Non-euro- area countries			
1999	96.3	96.0	96.5	95.8	98.2	100.1	95.9	98.0	97.7	
2000	87.1	86.5	87.9	85.8	92.9	99.0	85.7	91.9	90.8	
2001	87.8	87.1	90.5	86.9	92.9	98.1	86.8	91.4	90.8	
2002	90.1	90.2	95.0	90.5	93.5	96.9	89.6	91.9	91.7	
2003	100.7	101.2	106.9	101.4	97.1	95.8	99.2	96.5	96.7	
2004	104.5	105.0	111.5	105.1	98.5	95.4	103.0	98.0	98.3	
2005	102.9	103.5	109.5	102.5	98.5	95.2	103.4	96.9	96.6	
2006	102.8	103.5	109.4	101.8	98.6	94.9	104.3	96.5	95.8	
2007	106.3	106.2	112.9	103.8	100.9	95.2	109.9	97.9	97.0	
2008	109.4	108.3	117.1	105.8	102.2	94.6	115.0	97.8	97.1	
2009	110.8	109.0	120.0	106.8	101.8	94.5	113.9	98.0	97.5	
2010	103.6	101.3	111.5	97.8	98.8	94.1	106.1	93.6	92.0	
2011	103.3	100.2	112.2	97.2	98.2	93.8	105.1	92.8	91.3	
2012	97.6	95.0	107.0	92.4	95.9	93.2	99.8	89.8	88.2	
2013	101.2	98.2	111.9	95.5	98.3	93.3	106.3	91.6	90.3	
2014	101.8	97.8	114.7	96.0	98.5	93.6	106.2	91.8	91.0	
2015	92.4	88.4	106.5	87.8	94.7	93.6	95.9	86.9	86.3	
2016	94.8	p 90.1	110.4	p 90.0	p 95.2	p 93.5	p 97.2	p 87.8	p 87.4	
2013 Mar	99.8	97.0	109.2	93.7	97.6	93.1	104.4	90.8	89.0	
Apr	100.0	97.1	109.5	93.7	97.9	93.3	105.1	91.0	89.2	
May	100.1	97.2	109.7	93.9	98.1	93.3	105.7	91.1	89.3	
June	101.1	98.2	111.8	95.6	98.3	93.3	106.2	91.7	90.3	
July	101.0	98.2	111.8	95.5	98.5	93.3	106.6	91.6	90.3	
Aug	101.7	98.7	113.3	96.7	98.6	93.3	107.0	91.9	90.9	
Sep	101.6	98.4	113.2	96.4	98.5	93.3	106.7	91.7	90.8	
Oct	102.5	99.0	114.1	96.8	98.9	93.4	107.7	92.1	91.1	
Nov	102.2	98.7	114.1	96.6	98.8	93.5	107.4	92.1	91.1	
Dec	103.4	99.9	115.7	98.0	99.3	93.5	108.7	92.7	91.9	
2014 Jan	103.0	99.4	115.8	97.9	99.2	93.5	108.2	92.5	91.9	
Feb	103.2	99.6	116.3	98.2	99.0	93.4	107.9	92.6	92.0	
Mar	104.3	100.6	117.5	99.0	99.3	93.4	108.7	93.1	92.4	
Apr	104.2	100.4	117.0	98.4	99.2	93.5	108.3	93.1	92.2	
May	103.6	99.5	116.1	97.3	98.8	93.5	107.3	92.6	91.5	
June	102.7	98.7	115.1	96.5	98.7	93.6	106.6	92.3	91.2	
July	102.3	98.2	114.7	95.9	98.7	93.8	106.3	92.2	91.0	
Aug	101.5	97.5	114.0	95.3	98.4	93.7	105.7	91.8	90.7	
Sep	99.9	95.9	112.3	93.9	98.0	93.8	104.5	91.0	89.9	
Oct	99.1	94.9	111.8	93.2	97.6	93.7	103.5	90.4	89.4	
Nov	99.0	94.9	111.9	93.2	97.7	93.6	103.9	90.4	89.5	
Dec	99.0	94.8	113.1	93.8	97.6	93.6	103.8	90.2	89.8	
2015 Jan	95.2	91.1	108.9	90.1	95.7	93.5	98.6	88.2	87.5	
Feb	93.3	89.5	107.0	88.7	95.2	93.7	97.1	87.5	86.8	
Mar	90.6	86.9	103.8	85.9	94.3	93.7	94.5	86.1	85.2	
Apr	89.7	86.1	102.4	84.7	94.0	93.7	93.9	85.7	84.5	
May	91.6	87.8	104.7	86.5	94.6	93.6	95.6	86.6	85.6	
June	92.3	88.5	106.0	87.5	94.7	93.5	96.1	86.9	86.1	
July	91.3	87.5	105.1	86.6	94.3	93.5	95.0	86.3	85.6	
Aug	93.0	88.9	108.1	88.9	94.9	93.6	96.4	87.2	87.0	
Sep	93.8	89.6	109.6	90.1	95.1	93.6	97.1	87.6	87.7	
Oct	93.6	89.6	109.0	89.6	95.1	93.6	97.0	87.5	87.4	
Nov	91.1	87.1	106.0	86.8	94.1	93.6	94.3	86.3	85.9	
Dec	92.5	88.3	108.0	88.3	94.3	93.4	95.2	86.7	86.5	
2016 Jan	93.6	89.1	109.9	p 89.6	94.5	93.4	95.7	87.2	p 87.3	
Feb	94.7	90.0	111.3	p 90.8	94.9	93.3	96.9	87.6	p 87.7	
Mar	94.1	89.5	110.0	p 89.9	95.0	93.5	96.8	87.4	p 87.3	
Apr	94.8	90.1	110.6	p 90.2	95.4	93.6	97.6	87.9	p 87.6	
May	95.1	90.5	111.1	p 90.7	95.2	93.6	97.3	88.1	p 87.9	
June	94.7	90.2	110.5	p 90.2	95.0	93.6	96.7	87.9	p 87.6	
July	94.9	90.4	110.2	p 89.9	95.2	93.5	97.3	87.9	p 87.3	
Aug	95.2	90.6	110.6	p 90.2	95.4	93.5	97.8	88.0	p 87.5	
Sep	95.4	90.6	110.9	p 90.3	95.5	93.6	98.0	88.0	p 87.6	
Oct	95.5	p 90.8	110.6	p 90.1	95.9	93.8	98.7	p 88.2	p 87.6	
Nov	95.0	p 90.1	110.3	p 89.6	p 95.2	93.5	p 97.3	p 87.7	p 87.1	
Dec	94.2	p 89.3	109.2	p 88.7	p 94.8	p 93.4	p 96.2	p 87.3	p 86.5	

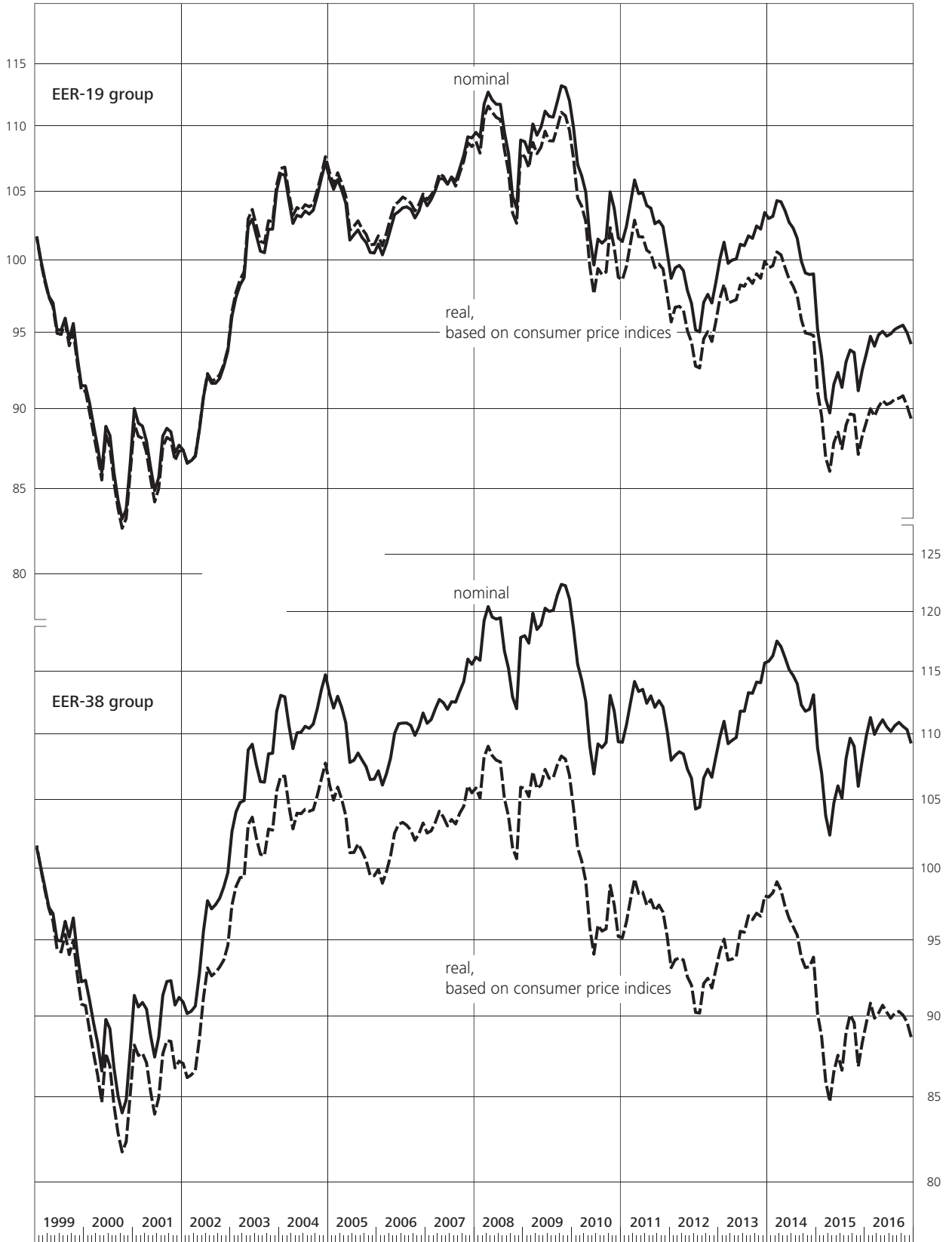
* See Explanatory notes, p 51. ¹ Source: ECB. ² Data for Argentina are currently not available due to the state of emergency in the national statistical system declared by the government of Argentina on 7 January 2016. As a consequence, Argentina is not

included in the calculation of the EER-38 CPI deflated series from February 2016. The policy regarding the inclusion of Argentina will be reconsidered in the future depending on further developments.

III Effective exchange rates of the euro *

2 Nominal and real effective exchange rates based on consumer price indices

1999 Q1 = 100, monthly averages, log scale



* Source: ECB.

IV Overview of world currencies *

1 Currencies and exchange rates in individual countries

Country ¹ Capital Country code	Currency ISO currency code	Type of rate	Unit	Annual average 2016	Rate at end of month			
					October 2016	November 2016	December 2016	
Afghanistan								
Kabul 660	Afghani = 100 puls	B	USD 1 =	AFN 67.6255	AFN 65.8058	AFN 66.6589	AFN 66.7732	
		S	USD 1 =	AFN 67.7255	AFN 65.9058	AFN 66.7589	AFN 66.8732	
	AFN	B	EUR 1 =	AFN 74.2813	AFN 71.9805	AFN 70.7228	AFN 69.8750	
		S	EUR 1 =	AFN 74.5413	AFN 72.2405	AFN 70.9828	AFN 70.1350	
	Albania							
	Tirana 070	Albanian lek = 100 qindarka ALL	M	USD 1 =	ALL 124.35	ALL 124.66	ALL 127.55	ALL 128.17
M			EUR 1 =	ALL 137.39	ALL 136.54	ALL 135.86	ALL 135.23	
Algeria								
Algiers 208	Algerian dinar = 100 centimes	B	USD 1 =	DZD 109.5779	DZD 109.9948	DZD 110.7389	DZD 110.3859	
		S	USD 1 =	DZD 109.5929	DZD 110.0098	DZD 110.7539	DZD 110.4009	
	DZD	B	EUR 1 =	DZD 121.0722	DZD 120.4553	DZD 117.7819	DZD 116.5675	
		S	EUR 1 =	DZD 121.1234	DZD 120.5047	DZD 117.8089	DZD 116.6054	
Angola ¹								
Luanda 330	Kwanza = 100 cêntimos	B	USD 1 =	AOA 163.205	AOA 165.071	AOA 165.074	AOA 165.077	
		S	USD 1 =	AOA 164.837	AOA 166.722	AOA 166.725	AOA 166.728	
	AOA	B	EUR 1 =	AOA 182.043	AOA 184.469	AOA 184.472	AOA 184.475	
		S	EUR 1 =	AOA 183.827	AOA 186.276	AOA 186.279	AOA 186.282	
Antigua and Barbuda								
St John's 459	East Caribbean dollar = 100 cents	B	USD 1 =	XCD 2.6882	XCD 2.6882	XCD 2.6882	XCD 2.6882	
		S	USD 1 =	XCD 2.7169	XCD 2.7169	XCD 2.7169	XCD 2.7169	
	XCD	V, B	EUR 1 =	XCD 2.9756	XCD 2.9425	XCD 2.8589	XCD 2.8336	
		V, S	EUR 1 =	XCD 3.0073	XCD 2.9739	XCD 2.8894	XCD 2.8639	
Argentina								
Buenos Aires 528	Argentine peso = 100 centavos	B	USD 1 =	ARS 14.6816	ARS 15.0500	ARS 15.7680	ARS 15.7900	
		S	USD 1 =	ARS 14.7816	ARS 15.1500	ARS 15.8680	ARS 15.8900	
	ARS	B	EUR 1 =	ARS 16.2264	ARS 16.4873	ARS 16.6952	ARS 16.6253	
		S	EUR 1 =	ARS 16.3739	ARS 16.6347	ARS 16.8407	ARS 16.7703	
Armenia								
Yerevan 077	Armenian dram = 100 luma AMD	M	USD 1 =	AMD 480.52	AMD 475.14	AMD 480.20	AMD 483.94	
		M	EUR 1 =	AMD 531.12	AMD 520.47	AMD 510.88	AMD 512.20	
Aruba								
Oranjestad 474	Aruban florin = 100 cent	B	USD 1 =	AWG 1.78	AWG 1.78	AWG 1.78	AWG 1.78	
		S	USD 1 =	AWG 1.80	AWG 1.80	AWG 1.80	AWG 1.80	
	AWG	B	EUR 100 =	AWG 196.87	AWG 194.95	AWG 189.41	AWG 187.74	
		S	EUR 100 =	AWG 198.85	AWG 196.91	AWG 191.32	AWG 189.63	

Source: Central bank or a commercial bank of the country concerned. * See Explanatory notes, p 53. ¹ Explanatory notes on individual countries, see p 57 ff.

IV Overview of world currencies *

1 Currencies and exchange rates in individual countries (cont'd)

Country 1 Capital Country code	Currency ISO currency code	Type of rate	Unit	Annual average 2016	Rate at end of month		
					October 2016	November 2016	December 2016
Australia							
Canberra 800	Australian dollar = 100 cents AUD	M	AUD 1 =	USD 0.7437	USD 0.7613	USD 0.7474	USD 0.7236
		M	AUD 1 =	EUR 0.6741	EUR 0.6941	EUR 0.7028	EUR 0.6872
Austria							
Vienna 038	Euro = 100 cent EUR	M	EUR 1 =	USD 1.1069	USD 1.0946	USD 1.0635	USD 1.0541
Azerbaijan							
Baku 078	Azerbaijan manat = 100 qapik AZN	M	USD 1 =	AZN 1.5993	AZN 1.6381	AZN 1.7318	AZN 1.7707
		M	EUR 1 =	AZN 1.7664	AZN 1.7967	AZN 1.8417	AZN 1.8644
Bahamas							
Nassau 453	Bahamian dollar = 100 cents BSD	B	USD 1 =	BSD 0.9950	BSD 0.9950	BSD 0.9950	BSD 0.9950
		S	USD 1 =	BSD 1.0125	BSD 1.0125	BSD 1.0125	BSD 1.0125
		V, B	EUR 1 =	BSD 1.10137	BSD 1.08913	BSD 1.05818	BSD 1.04883
		V, S	EUR 1 =	BSD 1.12074	BSD 1.10828	BSD 1.07679	BSD 1.06728
Bahrain							
Manama 640	Bahraini dinar = 1,000 fils BHD	B	USD 1 =	BHD 0.37425	BHD 0.37425	BHD 0.37425	BHD 0.37425
		S	USD 1 =	BHD 0.37750	BHD 0.37750	BHD 0.37750	BHD 0.37750
		B	EUR 1 =	BHD 0.4033858	BHD 0.4006100	BHD 0.3886208	BHD 0.3823643
S	EUR 1 =	BHD 0.4283375	BHD 0.4253900	BHD 0.4126592	BHD 0.4060157		
Bangladesh ¹							
Dhaka 666	Taka = 100 poisha BDT	B	USD 1 =	BDT 77.9750	BDT 77.9000	BDT 79.2000	BDT 78.0000
		S	USD 1 =	BDT 78.9650	BDT 78.8900	BDT 80.1900	BDT 78.9900
		B	EUR 1 =	BDT 84.7274	BDT 84.2168	BDT 83.1417	BDT 80.2075
		S	EUR 1 =	BDT 88.2358	BDT 87.6668	BDT 86.5917	BDT 83.6575
Barbados							
Bridgetown 469	Barbados dollar = 100 cents BBD	B	USD 1 =	BBD 1.99375	BBD 1.99375	BBD 1.99375	BBD 1.99375
		S	USD 1 =	BBD 2.02768	BBD 2.02768	BBD 2.02768	BBD 2.02768
		B	EUR 1 =	BBD 2.19619	BBD 2.18608	BBD 2.10982	BBD 2.08612
		S	EUR 1 =	BBD 2.23736	BBD 2.22707	BBD 2.14937	BBD 2.12523
Belarus ¹							
Minsk 073	Belarusian rouble = 100 kopecks BYN	M	USD 1 =	BYN 1.9916 ²	BYN 1.9065	BYN 1.9719	BYN 1.9585
		M	EUR 1 =	BYN 2.2021 ²	BYN 2.0820	BYN 2.0902	BYN 2.0450

Source: Central bank or a commercial bank of the country concerned. * See Explanatory notes, p 53. ¹ Explanatory notes on individual countries, see p 57 ff. ² Currency conversion effective from 1 July 2016: BYR 10,000 = BYN 1; to calculate

the annual average for 2016, the rates set in (old) Belarusian rouble were converted at a rate of 10,000:1 and included in the calculation.

IV Overview of world currencies *

1 Currencies and exchange rates in individual countries (cont'd)

Country ¹ Capital Country code	Currency ISO currency code	Type of rate	Unit	Annual average 2016	Rate at end of month		
					October 2016	November 2016	December 2016
Belgium							
Brussels 017	Euro = 100 cent EUR	M	EUR 1 =	USD 1.1069	USD 1.0946	USD 1.0635	USD 1.0541
Belize							
Belmopan 421	Belize dollar = 100 cents BZD	B S	USD 1 =	BZD 1.9825	BZD 1.9825	BZD 1.9825	BZD 1.9825
			USD 1 =	BZD 2.0175	BZD 2.0175	BZD 2.0175	BZD 2.0175
		B S	EUR 1 =	BZD 2.1888	BZD 2.1698	BZD 2.1068	BZD 2.0894
			EUR 1 =	BZD 2.2274	BZD 2.2082	BZD 2.1440	BZD 2.1262
Benin ¹							
Porto-Novo Seat of Government: Cotonou 284	CFA franc XOF	V 2	USD 1 =	XOF 592.607	XOF 599.266	XOF 616.791	XOF 622.291
			EUR 1 =	XOF 655.957	XOF 655.957	XOF 655.957	XOF 655.957
Bermuda							
Hamilton 413	Bermudian dollar = 100 cents BMD	B S	USD 1 =	BMD 0.9960	BMD 0.9960	BMD 0.9960	BMD 0.9960
			USD 1 =	BMD 1.0043	BMD 1.0043	BMD 1.0043	BMD 1.0043
		V, B V, S	EUR 1 =	BMD 1.1025	BMD 1.0902	BMD 1.0592	BMD 1.0499
			EUR 1 =	BMD 1.1117	BMD 1.0993	BMD 1.0681	BMD 1.0586
Bhutan ¹							
Thimphu 675	Ngultrum = 100 chhetrum BTN	B S	USD 1 =	BTN 67.04	BTN 65.80	BTN 67.60	BTN 67.05
			USD 1 =	BTN 67.94	BTN 67.95	BTN 69.85	BTN 69.25
		B S	EUR 1 =	BTN 73.90	BTN 71.75	BTN 71.60	BTN 70.05
			EUR 1 =	BTN 74.78	BTN 73.75	BTN 73.60	BTN 72.05
Bolivia, Plurinational State of							
Sucre Seat of Government: La Paz 516	Boliviano = 100 centavos BOB	B S	USD 1 =	BOB 6.86	BOB 6.86	BOB 6.86	BOB 6.86
			USD 1 =	BOB 6.96	BOB 6.96	BOB 6.96	BOB 6.96
		V, B V, S	EUR 1 =	BOB 7.5883	BOB 7.5090	BOB 7.2956	BOB 7.2311
			EUR 1 =	BOB 7.6989	BOB 7.6184	BOB 7.4020	BOB 7.3365
Bosnia and Herzegovina							
Sarajevo 093	Convertible marka = 100 feninga BAM	B S	USD 1 =	BAM 1.78868	BAM 1.786248	BAM 1.844687	BAM 1.850811
			USD 1 =	BAM 1.77735	BAM 1.795202	BAM 1.853933	BAM 1.860089
		B / S	EUR 1 =	BAM 1.95583	BAM 1.95583	BAM 1.95583	BAM 1.95583
Botswana							
Gaborone 391	Pula = 100 thebe BWP	B S	BWP 1 =	USD 0.0923	USD 0.0953	USD 0.0930	USD 0.0937
			BWP 1 =	USD 0.0921	USD 0.0951	USD 0.0928	USD 0.0935
		B S	BWP 1 =	EUR 0.0836	EUR 0.0871	EUR 0.0875	EUR 0.0889
			BWP 1 =	EUR 0.0834	EUR 0.0869	EUR 0.0873	EUR 0.0887

Source: Central bank or a commercial bank of the country concerned. * See Explanatory notes, p 53. ¹ Explanatory notes on individual countries, see p 57 ff. ² Value against the euro.

IV Overview of world currencies *

1 Currencies and exchange rates in individual countries (cont'd)

Country ¹ Capital Country code	Currency ISO currency code	Type of rate	Unit	Annual average 2016	Rate at end of month			
					October 2016	November 2016	December 2016	
Brazil								
Brasília 508	Brazilian real = 100 centavos	B	USD 1 =	BRL 3.4827	BRL 3.1805	BRL 3.3961	BRL 3.2585	
		S	USD 1 =	BRL 3.4833	BRL 3.1811	BRL 3.3967	BRL 3.2591	
	BRL	B	EUR 1 =	BRL 3.8029	BRL 3.4798	BRL 3.5988	BRL 3.4374	
		S	EUR 1 =	BRL 3.8043	BRL 3.4811	BRL 3.6002	BRL 3.4384	
	Brunei Darussalam ¹							
	Bandar Seri Begawan 703	Brunei dollar = 100 cents	B	USD 1 =	BND 1.3729	BND 1.3818	BND 1.4130	BND 1.4359
S			USD 1 =	BND 1.3939	BND 1.4028	BND 1.4340	BND 1.4569	
BND		B	EUR 1 =	BND 1.4995	BND 1.5020	BND 1.4916	BND 1.5015	
		S	EUR 1 =	BND 1.5562	BND 1.5588	BND 1.5484	BND 1.5583	
Bulgaria								
Sofia 068		Bulgarian lev = 100 stotinkas BGN	M	USD 1 =	BGN 1.76889	BGN 1.78680	BGN 1.83905	BGN 1.85545
	M		EUR 1 =	BGN 1.95583	BGN 1.95583	BGN 1.95583	BGN 1.95583	
Burkina Faso ¹								
Ouagadougou 236	CFA franc XOF	V	USD 1 =	XOF 592.607	XOF 599.266	XOF 616.791	XOF 622.291	
		2	EUR 1 =	XOF 655.957	XOF 655.957	XOF 655.957	XOF 655.957	
Burundi								
Bujumbura 328	Burundi franc = 100 centimes	B	USD 1 =	BIF 1,640.7922	BIF 1,660.4676	BIF 1,666.0512	BIF 1,671.2487	
		S	USD 1 =	BIF 1,673.9395	BIF 1,694.0124	BIF 1,699.7088	BIF 1,705.0113	
	BIF	B	EUR 1 =	BIF 1,808.9191	BIF 1,821.5330	BIF 1,771.2624	BIF 1,748.5439	
		S	EUR 1 =	BIF 1,845.4629	BIF 1,858.3316	BIF 1,807.0454	BIF 1,783.8681	
	Cabo Verde							
	Praia 247	Cabo Verde escudo = 100 centavos	B	USD 1 =	CVE 100.009	CVE 100.856	CVE 104.159	CVE 105.385
S			USD 1 =	CVE 100.211	CVE 101.058	CVE 104.361	CVE 105.587	
CVE		2 B/S	EUR 1 =	CVE 110.265	CVE 110.265	CVE 110.265	CVE 110.265	
Cambodia								
Phnom Penh 696	Riel = 100 sen KHR	M	USD 1 =	KHR 4,056	KHR 4,050	KHR 4,030	KHR 4,037	
		B	EUR 1 =	KHR 4,477	KHR 4,444	KHR 4,292	KHR 4,265	
	S	EUR 1 =	KHR 4,522	KHR 4,489	KHR 4,335	KHR 4,308		
Cameroon ¹								
Yaoundé 302	CFA franc XAF	V	USD 1 =	XAF 592.607	XAF 599.266	XAF 616.791	XAF 622.291	
		2	EUR 1 =	XAF 655.957	XAF 655.957	XAF 655.957	XAF 655.957	
Canada								
Ottawa 404	Canadian dollar = 100 cents CAD	M	USD 1 =	CAD 1.3248	CAD 1.3403	CAD 1.3426	CAD 1.3427	
		M	EUR 1 =	CAD 1.4585	CAD 1.4692	CAD 1.4202	CAD 1.4169	

Source: Central bank or a commercial bank of the country concerned. * See Explanatory notes, p 53. ¹ Explanatory notes on individual countries, see p 57 ff. ² Value against the euro.

IV Overview of world currencies *

1 Currencies and exchange rates in individual countries (cont'd)

Country ¹ Capital Country code	Currency ISO currency code	Type of rate	Unit	Annual average 2016	Rate at end of month		
					October 2016	November 2016	December 2016
Cayman Islands							
George Town 463	Cayman Islands dollar = 100 cents KYD	2 V	KYD 1 =	USD 1.20	USD 1.20	USD 1.20	USD 1.20
			EUR 1 =	KYD 0.9224	KYD 0.9122	KYD 0.8863	KYD 0.8784
Central African Republic ¹							
Bangui 306	CFA franc XAF	V 3	USD 1 =	XAF 592.607	XAF 599.266	XAF 616.791	XAF 622.291
			EUR 1 =	XAF 655.957	XAF 655.957	XAF 655.957	XAF 655.957
Chad ¹							
N'Djaména 244	CFA franc XAF	V 3	USD 1 =	XAF 592.607	XAF 599.266	XAF 616.791	XAF 622.291
			EUR 1 =	XAF 655.957	XAF 655.957	XAF 655.957	XAF 655.957
Chile							
Santiago 512	Chilean peso = 100 centavos CLP	M M	USD 1 =	CLP 676.30	CLP 651.65	CLP 675.48	CLP 667.29
			EUR 1 =	CLP 748.75	CLP 709.86	CLP 717.83	CLP 698.51
China							
Peking / Beijing 720	Chinese yuan renminbi = 10 jiao = 100 fen CNY	M M M	USD 1 =	CNY 6.6420	CNY 6.7641	CNY 6.8865	CNY 6.9370
			EUR 1 =	CNY 7.3417	CNY 7.4294	CNY 7.3386	CNY 7.3068
			HKD 1 =	CNY 0.85648	CNY 0.87225	CNY 0.88794	CNY 0.89451
China (Taiwan)							
Taipei 736	New Taiwan dollar = 100 cents TWD	B S	USD 1 =	TWD 32.20	TWD 31.52	TWD 31.78	TWD 32.15
			USD 1 =	TWD 32.30	TWD 31.62	TWD 31.88	TWD 32.25
		B S	EUR 1 =	TWD 35.46	TWD 34.44	TWD 33.71	TWD 33.75
			EUR 1 =	TWD 35.86	TWD 34.84	TWD 34.11	TWD 34.15
Colombia							
Bogotá 480	Colombian peso = 100 centavos COP	B S	USD 1 =	COP 3,053.46	COP 2,967.36	COP 3,164.56	COP 2,999.43
			USD 1 =	COP 3,054.89	COP 2,967.95	COP 3,165.62	COP 3,001.98
		V, B V, S	EUR 1 =	COP 3,377.60	COP 3,248.07	COP 3,365.51	COP 3,161.70
			EUR 1 =	COP 3,379.17	COP 3,248.72	COP 3,366.64	COP 3,164.39
Comoros							
Moroni 375	Comorian franc = 100 centimes KMF	V 3	USD 1 =	KMF 444.45546	KMF 449.44980	KMF 462.59309	KMF 466.71829
			EUR 1 =	KMF 491.96775	KMF 491.96775	KMF 491.96775	KMF 491.96775
Congo ¹							
Brazzaville 318	CFA franc XAF	V 3	USD 1 =	XAF 592.607	XAF 599.266	XAF 616.791	XAF 622.291
			EUR 1 =	XAF 655.957	XAF 655.957	XAF 655.957	XAF 655.957

Source: Central bank or a commercial bank of the country concerned. * See Explanatory notes, p 53. ¹ Explanatory notes on individual countries, see p 57 ff. ² Value against the US dollar. ³ Value against the euro.

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1 Currencies and exchange rates in individual countries (cont'd)

Country ¹ Capital Country code	Currency ISO currency code	Type of rate	Unit	Annual average 2016	Rate at end of month		
					October 2016	November 2016	December 2016
Congo, Democratic Republic of the							
Kinshasa 322	Congo franc = 100 centimes	B	USD 1 =	CDF 1,001.9582	CDF 1,098.4431	CDF 1,147.2818	CDF 1,191.2769
		S	USD 1 =	CDF 1,042.8545	CDF 1,143.2775	CDF 1,194.1097	CDF 1,239.9004
	CDF	B	EUR 1 =	CDF 1,101.1857	CDF 1,200.6992	CDF 1,215.6956	CDF 1,245.5015
		S	EUR 1 =	CDF 1,146.1321	CDF 1,249.7073	CDF 1,265.3158	CDF 1,296.3383
Cook Islands ¹							
Avarua 837	Cook Islands dollar ² = 100 cents NZD	B	NZD 1 =	EUR 0.6477	EUR 0.6688	EUR 0.6881	EUR 0.6778
		S	NZD 1 =	EUR 0.6197	EUR 0.6400	EUR 0.6585	EUR 0.6485
Costa Rica							
San José 436	Costa Rican colón = 100 céntimos	B	USD 1 =	CRC 539.45	CRC 547.38	CRC 545.75	CRC 548.18
		S	USD 1 =	CRC 552.06	CRC 560.18	CRC 558.40	CRC 561.10
	CRC	V, B	EUR 1 =	CRC 595.0202	CRC 599.1621	CRC 580.4051	CRC 577.8365
		V, S	EUR 1 =	CRC 608.9289	CRC 613.1730	CRC 593.8584	CRC 591.4555
Côte d'Ivoire ¹							
Yamoussoukro Seat of Government: Abidjan 272	CFA franc XOF	V	USD 1 =	XOF 592.607	XOF 599.266	XOF 616.791	XOF 622.291
		³	EUR 1 =	XOF 655.957	XOF 655.957	XOF 655.957	XOF 655.957
Croatia							
Zagreb 092	Kuna = 100 lipa	B	USD 1 =	HRK 6.793055	HRK 6.851657	HRK 7.079754	HRK 7.147030
		S	USD 1 =	HRK 6.833936	HRK 6.892891	HRK 7.122360	HRK 7.190042
	HRK	B	EUR 1 =	HRK 7.504508	HRK 7.473787	HRK 7.508079	HRK 7.535114
		S	EUR 1 =	HRK 7.549670	HRK 7.518765	HRK 7.553263	HRK 7.580460
Cuba ¹							
Havana 448	Convertible peso / Cuban peso = 100 centavos	B	CUC 1 =	USD 1.03360	USD 1.03360	USD 1.03360	USD 1.03360
		S	CUC 1 =	USD 0.96852	USD 0.96852	USD 0.96852	USD 0.96852
	CUC / CUP	B	EUR 1 =	CUC 1.06595	CUC 1.05689	CUC 1.02680	CUC 1.01161
		S	EUR 1 =	CUC 1.13772	CUC 1.12801	CUC 1.09600	CUC 1.07969
Curaçao							
Willemstad 477	Netherlands Antillean guilder = 100 cent	B	USD 1 =	ANG 1.78	ANG 1.78	ANG 1.78	ANG 1.78
		S	USD 1 =	ANG 1.82	ANG 1.82	ANG 1.82	ANG 1.82
	ANG	B	EUR 100 =	ANG 196.48	ANG 194.95	ANG 189.41	ANG 187.74
		S	EUR 100 =	ANG 200.44	ANG 198.88	ANG 193.23	ANG 191.52
Cyprus							
Nicosia 600	Euro = 100 cent EUR	M	EUR 1 =	USD 1.1069	USD 1.0946	USD 1.0635	USD 1.0541
Czechia							
Prague 061	Czech koruna = 100 heller CZK	M	USD 1 =	CZK 24.432	CZK 24.687	CZK 25.455	CZK 25.639
		M	EUR 1 =	CZK 27.043	CZK 27.025	CZK 27.060	CZK 27.020

Source: Central bank or a commercial bank of the country concerned. * See Explanatory notes, p 53. ¹ Explanatory notes on individual countries, see p 57 ff. ² Parity in relation to the New Zealand dollar. ³ Value against the euro.

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1 Currencies and exchange rates in individual countries (cont'd)

Country ¹ Capital Country code	Currency ISO currency code	Type of rate	Unit	Annual average 2016	Rate at end of month		
					October 2016	November 2016	December 2016
Denmark							
Copenhagen 008	Danish krone = 100 øre DKK	M	USD 100 =	DKK 673.27	DKK 679.64	DKK 699.61	DKK 705.28
			EUR 100 =	DKK 744.51	DKK 743.93	DKK 744.03	DKK 743.44
Djibouti							
Djibouti 338	Djibouti franc = 100 centimes DJF	B	USD 1 =	DJF 176.832	DJF 176.832	DJF 176.832	DJF 176.832
			S	USD 1 =	DJF 179.498	DJF 179.498	DJF 179.498
		B	EUR 1 =	DJF 193.21	DJF 192.48	DJF 186.60	DJF 183.50
			S	EUR 1 =	DJF 201.01	DJF 199.93	DJF 193.87
Dominica							
Roseau 460	East Caribbean dollar = 100 cents XCD	B	USD 1 =	XCD 2.6882	XCD 2.6882	XCD 2.6882	XCD 2.6882
			S	USD 1 =	XCD 2.7169	XCD 2.7169	XCD 2.7169
		V, B	EUR 1 =	XCD 2.9756	XCD 2.9425	XCD 2.8589	XCD 2.8336
			V, S	EUR 1 =	XCD 3.0073	XCD 2.9739	XCD 2.8894
Dominican Republic							
Santo Domingo 456	Dominican peso = 100 centavos DOP	B	USD 1 =	DOP 45.7225	DOP 46.0763	DOP 46.1770	DOP 46.2743
			S	USD 1 =	DOP 46.1276	DOP 46.5453	DOP 46.6494
		B	EUR 1 =	DOP 49.5990	DOP 49.7301	DOP 48.6930	DOP 48.0958
			S	EUR 1 =	DOP 52.9180	DOP 52.9447	DOP 52.1842
Egypt ¹							
Cairo 220	Egyptian pound = 100 piastres = 1,000 milliems EGP	B	USD 1 =	EGP 10.1049	EGP 8.8799	EGP 17.6500 ¹	EGP 18.0000
			S	USD 1 =	EGP 10.1571	EGP 8.8800	EGP 17.9000 ¹
		B	EUR 1 =	EGP 11.0444	EGP 9.7008	EGP 18.7443 ¹	EGP 18.8676
			S	EUR 1 =	EGP 11.2018	EGP 9.7609	EGP 19.0921 ¹
El Salvador ¹							
San Salvador 428	El Salvador colón = 100 centavos SVC	B / S	USD 1 =	SVC 8.75	SVC 8.75	SVC 8.75	SVC 8.75
		V, B / S	EUR 1 =	SVC 9.6854	SVC 9.5778	SVC 9.3056	SVC 9.2234
Equatorial Guinea ¹							
Malabo 310	CFA franc XAF	V	USD 1 =	XAF 592.607	XAF 599.266	XAF 616.791	XAF 622.291
		2	EUR 1 =	XAF 655.957	XAF 655.957	XAF 655.957	XAF 655.957
Eritrea ¹							
Asmara 336	Nakfa = 100 cents ERN	B	USD 1 =	ERN 15.00	ERN 15.00	ERN 15.00	ERN 15.00
			S	USD 1 =	ERN 15.70	ERN 15.75	ERN 15.75
		B	EUR 1 =	ERN 16.5083	ERN 16.3890	ERN 15.9060	ERN 15.6810
			S	EUR 1 =	ERN 17.2575	ERN 17.1485	ERN 16.6655
Estonia							
Tallinn 053	Euro = 100 cent EUR	M	EUR 1 =	USD 1.1069	USD 1.0946	USD 1.0635	USD 1.0541

Source: Central bank or a commercial bank of the country concerned. * See Explanatory notes, p 53. ¹ Explanatory notes on individual countries, see p 57 ff. ² Value against the euro.

IV Overview of world currencies *

1 Currencies and exchange rates in individual countries (cont'd)

Country ¹ Capital Country code	Currency ISO currency code	Type of rate	Unit	Annual average 2016	Rate at end of month		
					October 2016	November 2016	December 2016
Ethiopia							
Addis Ababa 334	Birr = 100 cents	B	USD 1 =	ETB 21.7838	ETB 22.1555	ETB 22.2728	ETB 22.4104
		S	USD 1 =	ETB 22.2195	ETB 22.5986	ETB 22.7183	ETB 22.8586
	ETB	B	EUR 1 =	ETB 24.0212	ETB 24.3290	ETB 23.5824	ETB 23.6049
		S	EUR 1 =	ETB 24.5107	ETB 24.8268	ETB 24.0632	ETB 24.0884
Falkland Islands (Islas Malvinas)							
Stanley 529	Falkland Islands pound ² = 100 pence FKP	V	USD 1 =	FKP 0.74034	FKP 0.82267	FKP 0.80160	FKP 0.81224
		V	EUR 1 =	FKP 0.81948	FKP 0.90050	FKP 0.85250	FKP 0.85618
Fiji							
Suva 815	Fiji dollar = 100 cents	B	FJD 1 =	USD 0.4855	USD 0.4914	USD 0.4873	USD 0.4780
		S	FJD 1 =	USD 0.4685	USD 0.4744	USD 0.4703	USD 0.4610
	FJD	B	FJD 1 =	EUR 0.4383	EUR 0.4486	EUR 0.4554	EUR 0.4531
		S	FJD 1 =	EUR 0.4263	EUR 0.4366	EUR 0.4434	EUR 0.4411
Finland							
Helsinki 032	Euro = 100 cent EUR	M	EUR 1 =	USD 1.1069	USD 1.0946	USD 1.0635	USD 1.0541
France							
Paris 001	Euro = 100 cent EUR	M	EUR 1 =	USD 1.1069	USD 1.0946	USD 1.0635	USD 1.0541
Gabon ¹							
Libreville 314	CFA franc	V	USD 1 =	XAF 592.607	XAF 599.266	XAF 616.791	XAF 622.291
	XAF	3	EUR 1 =	XAF 655.957	XAF 655.957	XAF 655.957	XAF 655.957
Gambia							
Banjul 252	Dalasi = 100 bututs GMD	M	USD 1 =	GMD 43.41	GMD 46.83	GMD 43.56	GMD 43.77
		M	EUR 1 =	GMD 48.60	GMD 52.95	GMD 47.38	GMD 47.02
Georgia							
Tbilisi 076	Lari = 100 tetri GEL	M	USD 1 =	GEL 2.3757	GEL 2.4091	GEL 2.5311	GEL 2.6488
		M	EUR 1 =	GEL 2.6255	GEL 2.6278	GEL 2.6825	GEL 2.7940
Germany							
Berlin 004	Euro = 100 cent EUR	M	EUR 1 =	USD 1.1069	USD 1.0946	USD 1.0635	USD 1.0541

Source: Central bank or a commercial bank of the country concerned. * See Explanatory notes, p 53. ¹ Explanatory notes on individual countries, see p 57 ff. ² Value (1:1) against the pound sterling. ³ Value against the euro.

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1 Currencies and exchange rates in individual countries (cont'd)

Country ¹ Capital Country code	Currency ISO currency code	Type of rate	Unit	Annual average 2016	Rate at end of month			
					October 2016	November 2016	December 2016	
Ghana								
Accra 276	Ghana cedi = 100 Ghana pesewas	B	USD 1 =	GHS 3.9280	GHS 3.9621	GHS 4.0296	GHS 4.1981	
		S	USD 1 =	GHS 3.9319	GHS 3.9661	GHS 4.0336	GHS 4.2023	
	GHS	B	EUR 1 =	GHS 4.3326	GHS 4.3343	GHS 4.2677	GHS 4.4340	
		S	EUR 1 =	GHS 4.3360	GHS 4.3370	GHS 4.2712	GHS 4.4394	
	Gibraltar							
	Gibraltar 044	Gibraltar pound ² = 100 pence GIP	V	USD 1 =	GIP 0.74034	GIP 0.82267	GIP 0.80160	GIP 0.81224
V			EUR 1 =	GIP 0.81948	GIP 0.90050	GIP 0.85250	GIP 0.85618	
Greece ¹								
Athens 009	Euro = 100 cent EUR	M	EUR 1 =	USD 1.1069	USD 1.0946	USD 1.0635	USD 1.0541	
Grenada								
St George's 473	East Caribbean dollar = 100 cents	B	USD 1 =	XCD 2.6882	XCD 2.6882	XCD 2.6882	XCD 2.6882	
		S	USD 1 =	XCD 2.7169	XCD 2.7169	XCD 2.7169	XCD 2.7169	
	XCD	V, B	EUR 1 =	XCD 2.9756	XCD 2.9425	XCD 2.8589	XCD 2.8336	
		V, S	EUR 1 =	XCD 3.0073	XCD 2.9739	XCD 2.8894	XCD 2.8639	
Guatemala								
Guatemala City 416	Quetzal = 100 centavos GTQ	M	USD 1 =	GTQ 7.60438	GTQ 7.51560	GTQ 7.51202	GTQ 7.52213	
		V, M	EUR 1 =	GTQ 8.39003	GTQ 8.22658	GTQ 7.98903	GTQ 7.92908	
Guinea								
Conakry 260	Guinean franc	B	USD 1 =	GNF 8,612.0636	GNF 8,648.2500	GNF 8,687.2500	GNF 8,723.3250	
		S	USD 1 =	GNF 9,088.2761	GNF 9,113.9250	GNF 9,155.0250	GNF 9,283.9499	
	GNF	B	EUR 1 =	GNF 9,484.4388	GNF 9,477.4442	GNF 9,248.1857	GNF 9,118.0554	
		S	EUR 1 =	GNF 10,008.4364	GNF 9,987.7681	GNF 9,746.1649	GNF 9,704.0487	
Guinea-Bissau ¹								
Bissau 257	CFA franc XOF	V	USD 1 =	XOF 592.607	XOF 599.266	XOF 616.791	XOF 622.291	
		3	EUR 1 =	XOF 655.957	XOF 655.957	XOF 655.957	XOF 655.957	
Guyana								
Georgetown 488	Guyana dollar = 100 cents	B	USD 1 =	GYD 205.98	GYD 205.98	GYD 205.98	GYD 205.98	
		S	USD 1 =	GYD 208.44	GYD 208.44	GYD 208.44	GYD 208.44	
	GYD	B	EUR 1 =	GYD 227.14	GYD 225.35	GYD 219.21	GYD 217.17	
		S	EUR 1 =	GYD 230.06	GYD 228.24	GYD 222.03	GYD 219.96	

Source: Central bank or a commercial bank of the country concerned. * See Explanatory notes, p 53. ¹ Explanatory notes on individual countries, see p 57 ff. ² Value (1:1) against the pound sterling. ³ Value against the euro.

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1 Currencies and exchange rates in individual countries (cont'd)

Country 1 Capital Country code	Currency ISO currency code	Type of rate	Unit	Annual average 2016	Rate at end of month		
					October 2016	November 2016	December 2016
Haiti							
Port-au-Prince 452	Gourde = 100 centimes HTG	M	USD 1 =	HTG 63.7147	HTG 66.3278	HTG 67.0629	HTG 67.3944
		V, M	EUR 1 =	HTG 70.2563	HTG 72.6024	HTG 71.3214	HTG 71.0404
Honduras							
Tegucigalpa 424	Lempira = 100 centavos HNL	B	USD 1 =	HNL 22.8835	HNL 23.1019	HNL 23.3804	HNL 23.5029
		S	USD 1 =	HNL 23.0436	HNL 23.2636	HNL 23.5441	HNL 23.6674
		V, B	EUR 1 =	HNL 25.2388	HNL 25.2873	HNL 24.8651	HNL 24.7744
		V, S	EUR 1 =	HNL 25.4155	HNL 25.4643	HNL 25.0392	HNL 24.9478
Hong Kong							
Hong Kong 740	Hong Kong dollar = 100 cents HKD	B	USD 1 =	HKD 7.74365	HKD 7.73630	HKD 7.73750	HKD 7.73660
		S	USD 1 =	HKD 7.78145	HKD 7.77510	HKD 7.77630	HKD 7.77540
		B	EUR 1 =	HKD 8.52775	HKD 8.46438	HKD 8.23228	HKD 8.11338
		S	EUR 1 =	HKD 8.58753	HKD 8.52412	HKD 8.29202	HKD 8.17312
Hungary							
Budapest 064	Hungarian forint = 100 fillér HUF	M	USD 1 =	HUF 281.44	HUF 283.51	HUF 292.37	HUF 293.69
		M	EUR 1 =	HUF 311.84	HUF 309.20	HUF 310.99	HUF 311.02
Iceland							
Reykjavik 024	Icelandic krona ISK	B	USD 1 =	ISK 120.14	ISK 112.59	ISK 111.69	ISK 112.55
		S	USD 1 =	ISK 120.71	ISK 113.13	ISK 112.23	ISK 113.09
		B	EUR 1 =	ISK 133.22	ISK 123.29	ISK 118.82	ISK 118.80
		S	EUR 1 =	ISK 133.96	ISK 123.97	ISK 119.48	ISK 119.46
India ¹							
New Delhi 664	Indian rupee = 100 paise INR	B	USD 1 =	INR 66.81	INR 66.48	INR 68.20	INR 67.54
		S	USD 1 =	INR 67.79	INR 67.33	INR 69.05	INR 68.39
		B	EUR 1 =	INR 73.35	INR 72.13	INR 72.12	INR 70.75
		S	EUR 1 =	INR 75.08	INR 73.73	INR 73.71	INR 72.32
Indonesia							
Jakarta 700	Indonesian rupiah = 100 sen IDR	B	USD 1 =	IDR 13,243.83	IDR 12,986.00	IDR 13,495.00	IDR 13,369.00
		S	USD 1 =	IDR 13,376.83	IDR 13,116.00	IDR 13,631.00	IDR 13,503.00
		B	EUR 1 =	IDR 14,633.44	IDR 14,232.66	IDR 14,368.13	IDR 14,089.59
		S	EUR 1 =	IDR 14,784.94	IDR 14,380.38	IDR 14,518.38	IDR 14,233.51
Iran, Islamic Republic of ¹							
Tehran 616	Iranian rial = 100 dinars IRR	M	USD 1 =	IRR 31,002	IRR 31,778	IRR 32,091	IRR 32,375
		M	EUR 1 =	IRR 34,194	IRR 34,855	IRR 34,003	IRR 34,056

Source: Central bank or a commercial bank of the country concerned. * See Explanatory notes, p 53. ¹ Explanatory notes on individual countries, see p 57 ff.

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1 Currencies and exchange rates in individual countries (cont'd)

Country ¹ Capital Country code	Currency ISO currency code	Type of rate	Unit	Annual average 2016	Rate at end of month			
					October 2016	November 2016	December 2016	
Iraq								
Baghdad 612	Iraqi dinar = 1,000 fils	B	USD 1 =	IQD 1,180.000	IQD 1,180.000	IQD 1,180.000	IQD 1,180.000	
		S	USD 1 =	IQD 1,182.000	IQD 1,182.000	IQD 1,182.000	IQD 1,182.000	
	IQD	B	EUR 1 =	IQD 1,301.283	IQD 1,290.335	IQD 1,249.458	IQD 1,228.784	
		S	EUR 1 =	IQD 1,301.934	IQD 1,290.980	IQD 1,250.083	IQD 1,229.398	
	Ireland							
	Dublin 007	Euro = 100 cent	M	EUR 1 =	USD 1.1069	USD 1.0946	USD 1.0635	USD 1.0541
EUR								
Israel								
Jerusalem 624	New Israeli sheqel = 100 agorot	M	USD 1 =	ILS 3.8406	ILS 3.8490	ILS 3.8390	ILS 3.8450	
		M	EUR 1 =	ILS 4.2256	ILS 4.2131	ILS 4.0807	ILS 4.0438	
	ILS							
Italy								
Rome 005	Euro = 100 cent	M	EUR 1 =	USD 1.1069	USD 1.0946	USD 1.0635	USD 1.0541	
	EUR							
Jamaica								
Kingston 464	Jamaican dollar = 100 cents	B	USD 1 =	JMD 125.0655	JMD 128.3002	JMD 128.3011	JMD 127.4806	
		S	USD 1 =	JMD 125.7664	JMD 129.1064	JMD 129.0391	JMD 128.4404	
	JMD	B	EUR 1 =	JMD 136.03736	JMD 138.4954	JMD 132.4736	JMD 129.7626	
		S	EUR 1 =	JMD 139.02909	JMD 143.6411	JMD 139.9877	JMD 134.9107	
	Japan							
	Tokyo 732	Japanese yen = 100 sen	B	USD 1 =	JPY 107.70	JPY 103.86	JPY 111.42	JPY 115.49
S			USD 1 =	JPY 109.70	JPY 105.86	JPY 113.42	JPY 117.49	
JPY		B	EUR 1 =	JPY 119.13	JPY 113.55	JPY 118.20	JPY 121.20	
		S	EUR 1 =	JPY 122.13	JPY 116.55	JPY 121.20	JPY 124.20	
Jordan								
Amman 628		Jordanian dinar = 1,000 fils	B	USD 1 =	JOD 0.7080	JOD 0.7080	JOD 0.7080	JOD 0.7080
	S		USD 1 =	JOD 0.7100	JOD 0.7100	JOD 0.7100	JOD 0.7100	
	JOD	B	EUR 1 =	JOD 0.77769	JOD 0.77122	JOD 0.74906	JOD 0.73696	
		S	EUR 1 =	JOD 0.78450	JOD 0.78043	JOD 0.75423	JOD 0.74408	
	Kazakhstan							
	Astana 079	Tenge = 100 tiyn	M	USD 1 =	KZT 342.02	KZT 333.50	KZT 340.30	KZT 333.29
KZT		M	EUR 1 =	KZT 378.27	KZT 363.82	KZT 360.85	KZT 352.42	
Kenya ¹								
Nairobi 346	Kenya shilling = 100 cents	B	USD 1 =	KES 101.4201	KES 101.3600	KES 101.7811	KES 102.3872	
		S	USD 1 =	KES 101.6164	KES 101.5572	KES 101.9728	KES 102.5844	
	KES	B	EUR 1 =	KES 111.7446	KES 111.0067	KES 107.9522	KES 106.9444	
		S	EUR 1 =	KES 111.9896	KES 111.2467	KES 108.1894	KES 107.1767	

Source: Central bank or a commercial bank of the country concerned. * See Explanatory notes, p 53. ¹ Explanatory notes on individual countries, see p 57 ff.

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1 Currencies and exchange rates in individual countries (cont'd)

Country 1 Capital Country code	Currency ISO currency code	Type of rate	Unit	Annual average 2016	Rate at end of month		
					October 2016	November 2016	December 2016
Korea, Democratic People's Republic of							
Pyongyang 724	North Korean won = 100 chon	B	USD 1 =	KPW 108.00	KPW 108.59 ²	KPW 110.01 ³	KPW 110.87 ⁴
		S	USD 1 =	KPW 108.82	KPW 109.41 ²	KPW 110.84 ³	KPW 111.71 ⁴
	KPW	B	EUR 1 =	KPW 119.03	KPW 118.15 ²	KPW 116.53 ³	KPW 115.55 ⁴
		S	EUR 1 =	KPW 119.92	KPW 119.04 ²	KPW 117.40 ³	KPW 116.42 ⁴
Korea, Republic of							
Seoul 728	South Korean won = 100 chon	B	USD 1 =	KRW 1,150.51	KRW 1,133.80	KRW 1,161.60	KRW 1,193.20
		S	USD 1 =	KRW 1,173.19	KRW 1,156.20	KRW 1,184.40	KRW 1,216.80
	KRW	B	EUR 1 =	KRW 1,266.75	KRW 1,240.96	KRW 1,235.07	KRW 1,257.49
		S	EUR 1 =	KRW 1,292.34	KRW 1,266.02	KRW 1,260.01	KRW 1,282.89
Kuwait							
Kuwait 636	Kuwaiti dinar = 1,000 fils	B	USD 1 =	KWD 0.30140	KWD 0.30170	KWD 0.30440	KWD 0.30475
		S	USD 1 =	KWD 0.30463	KWD 0.30530	KWD 0.30650	KWD 0.30835
	KWD	B	EUR 1 =	KWD 0.332598	KWD 0.330407	KWD 0.323669	KWD 0.321466
		S	EUR 1 =	KWD 0.336156	KWD 0.334349	KWD 0.325901	KWD 0.325263
Kyrgyzstan							
Bishkek 083	Kyrgyz som = 100 tyiyn KGS	M	USD 1 =	KGS 69.7909	KGS 68.6538	KGS 69.1565	KGS 69.2301
		M	EUR 1 =	KGS 77.1283	KGS 74.8704	KGS 73.2575	KGS 72.8439
Lao People's Democratic Republic							
Vientiane 684	Kip	B	USD 1 =	LAK 8,110	LAK 8,129	LAK 8,155	LAK 8,169
		S	USD 1 =	LAK 8,146	LAK 8,164	LAK 8,190	LAK 8,204
	LAK	B	EUR 1 =	LAK 8,938	LAK 8,909	LAK 8,674	LAK 8,620
		S	EUR 1 =	LAK 8,980	LAK 8,951	LAK 8,715	LAK 8,660
Latvia							
Riga 054	Euro = 100 cents EUR	M	EUR 1 =	USD 1.1069	USD 1.0946	USD 1.0635	USD 1.0541
Lebanon							
Beirut 604	Lebanese pound = 100 piastres LBP	M	USD 1 =	LBP 1,507.50	LBP 1,507.50	LBP 1,507.50	LBP 1,507.50
		M	EUR 1 =	LBP 1,666.27	LBP 1,650.86	LBP 1,605.19	LBP 1,596.29
Lesotho ¹							
Maseru 395	Loti = 100 lisente LSL	M	USD 1 =	LSL 14.6321	LSL 13.5342	LSL 13.9140	LSL 13.7170
		M	EUR 1 =	LSL 16.2188	LSL 15.8073	LSL 14.7287	LSL 14.4413

Source: Central bank or a commercial bank of the country concerned. * See Explanatory notes, p 53. ¹ Explanatory notes on individual countries, see p 57 ff. ² Exchange rate as of 1 November 2016. ³ Exchange rate as of 1 December 2016. ⁴ Exchange rate as of 4 January 2017.

IV Overview of world currencies *

1 Currencies and exchange rates in individual countries (cont'd)

Country ¹ Capital Country code	Currency ISO currency code	Type of rate	Unit	Annual average 2016	Rate at end of month		
					October 2016	November 2016	December 2016
Liberia ¹							
Monrovia 268	Liberian dollar = 100 cents	B	USD 1 =	LRD 94.33	LRD 98.00	LRD 100.00	LRD 102.00
		S	USD 1 =	LRD 95.33	LRD 99.00	LRD 101.00	LRD 103.00
	LRD	V, B V, S	EUR 1 = EUR 1 =	LRD 104.0004 LRD 105.1035	LRD 107.2708 LRD 108.3654	LRD 106.3500 LRD 107.4135	LRD 107.5182 LRD 108.5723
Libya							
Tripoli 216	Libyan dinar = 1,000 dirham	B	USD 1 =	LYD 1.3904	LYD 1.4017	LYD 1.4235	LYD 1.4379
		S	USD 1 =	LYD 1.3973	LYD 1.4087	LYD 1.4306	LYD 1.4451
	LYD	B	EUR 1 =	LYD 1.5321	LYD 1.5372	LYD 1.5134	LYD 1.5038
		S	EUR 1 =	LYD 1.5398	LYD 1.5449	LYD 1.5210	LYD 1.5114
Lithuania							
Vilnius 055	Euro = 100 cent EUR	M	EUR 1 =	USD 1.1069	USD 1.0946	USD 1.0635	USD 1.0541
Luxembourg							
Luxembourg 018	Euro = 100 cent EUR	M	EUR 1 =	USD 1.1069	USD 1.0946	USD 1.0635	USD 1.0541
Macao ¹							
Macao 743	Pataca = 100 avos	B	USD 1 =	MOP 7.9839	MOP 7.9781	MOP 7.9782	MOP 7.9774
		S	USD 1 =	MOP 8.0158	MOP 8.0101	MOP 8.0102	MOP 8.0094
	MOP	B	EUR 1 =	MOP 8.7839	MOP 8.7255	MOP 8.4596	MOP 8.3638
		S	EUR 1 =	MOP 8.8539	MOP 8.8047	MOP 8.5388	MOP 8.4430
Macedonia, former Yugoslav Republic of							
Skopje 096	Macedonian denar = 100 deni	B	USD 1 =	MKD 55.4361	MKD 56.0949	MKD 57.8488	MKD 58.0341
		S	USD 1 =	MKD 55.9933	MKD 56.6586	MKD 58.4302	MKD 58.6174
	MKD	B S	EUR 1 = EUR 1 =	MKD 61.2875 MKD 61.9035	MKD 61.2668 MKD 61.8826	MKD 61.1809 MKD 61.7957	MKD 61.1738 MKD 61.7886
Madagascar							
Antananarivo 370	Ariary = 5 iraimbilanja MGA	M M	USD 1 = EUR 1 =	MGA 3,179.59 MGA 3,508.46	MGA 3,206.33 MGA 3,496.80	MGA 3,330.56 MGA 3,527.61	MGA 3,347.94 MGA 3,509.53
Malawi							
Lilongwe 386	Malawi kwacha = 100 tambala	B	USD 1 =	MWK 707.6550	MWK 711.7670	MWK 716.3010	MWK 715.8017
		S	USD 1 =	MWK 725.5648	MWK 730.2244	MWK 733.9946	MWK 734.2169
	MWK	B	EUR 1 =	MWK 780.5850	MWK 780.8083	MWK 761.6428	MWK 753.8823
		S	EUR 1 =	MWK 800.3427	MWK 801.0562	MWK 780.4565	MWK 773.2773

Source: Central bank or a commercial bank of the country concerned. * See Explanatory notes, p 53. ¹ Explanatory notes on individual countries, see p 57 ff.

IV Overview of world currencies *

1 Currencies and exchange rates in individual countries (cont'd)

Country 1 Capital Country code	Currency ISO currency code	Type of rate	Unit	Annual average 2016	Rate at end of month		
					October 2016	November 2016	December 2016
Malaysia							
Kuala Lumpur Seat of Government: Putrajaya 701	Malaysian ringgit = 100 sen	B	USD 1 =	MYR 4.0849	MYR 4.1367	MYR 4.3880	MYR 4.4190
		S	USD 1 =	MYR 4.2091	MYR 4.2773	MYR 4.5370	MYR 4.5490
	MYR	B	EUR 1 =	MYR 4.4830	MYR 4.5215	MYR 4.6567	MYR 4.6398
		S	EUR 1 =	MYR 4.6592	MYR 4.7145	MYR 4.8555	MYR 4.8263
Maldives							
Malé 667	Rufiyaa = 100 laari MVR	M	USD 1 =	MVR 15.37	MVR 15.35	MVR 15.41	MVR 15.35
		V, M	EUR 1 =	MVR 16.95186	MVR 16.80211	MVR 16.38854	MVR 16.18044
Mali 1							
Bamako 232	CFA franc XOF	V	USD 1 =	XOF 592.607	XOF 599.266	XOF 616.791	XOF 622.291
		2	EUR 1 =	XOF 655.957	XOF 655.957	XOF 655.957	XOF 655.957
Malta							
Valletta 046	Euro = 100 cent EUR	M	EUR 1 =	USD 1.1069	USD 1.0946	USD 1.0635	USD 1.0541
Mauritania							
Nouakchott 228	Ouguiya = 5 khoums MRO	B	USD 1 =	MRO 351.33	MRO 355.06	MRO 355.15	MRO 355.65
		S	USD 1 =	MRO 354.85	MRO 358.62	MRO 358.71	MRO 359.21
	MRO	B	EUR 1 =	MRO 387.32	MRO 388.90	MRO 376.46	MRO 372.43
		S	EUR 1 =	MRO 391.20	MRO 392.79	MRO 380.23	MRO 376.16
Mauritius							
Port Louis 373	Mauritian rupee = 100 cents MUR	B	USD 1 =	MUR 35.1574	MUR 35.2288	MUR 35.4507	MUR 35.5152
		S	USD 1 =	MUR 36.3850	MUR 36.5223	MUR 36.7499	MUR 36.8155
	MUR	B	EUR 1 =	MUR 38.7731	MUR 38.6255	MUR 37.6735	MUR 37.3827
		S	EUR 1 =	MUR 40.1439	MUR 40.0604	MUR 39.0754	MUR 38.7635
Mexico							
Mexico City 412	Mexican peso = 100 centavos MXN	B	USD 1 =	MXN 18.7528	MXN 18.9010	MXN 20.4995	MXN 20.6320
		S	USD 1 =	MXN 18.7586	MXN 18.9060	MXN 20.5065	MXN 20.6400
	MXN	V, B	EUR 1 =	MXN 20.6145	MXN 20.6890	MXN 21.8012	MXN 21.7482
		V, S	EUR 1 =	MXN 20.6211	MXN 20.6945	MXN 21.8087	MXN 21.7566
Moldova, Republic of							
Chisinau 074	Moldovan leu = 100 bani MDL	M	USD 1 =	MDL 19.9399	MDL 20.0443	MDL 20.2805	MDL 19.9814
		M	EUR 1 =	MDL 22.0525	MDL 21.8784	MDL 21.4913	MDL 20.8895
Mongolia							
Ulan Bator 716	Togrog = 100 mongo MNT	M	USD 1 =	MNT 2,165.48	MNT 2,374.21	MNT 2,466.64	MNT 2,489.53
		M	EUR 1 =	MNT 2,382.89	MNT 2,591.81	MNT 2,620.31	MNT 2,605.79

Source: Central bank or a commercial bank of the country concerned. * See Explanatory notes, p 53. 1 Explanatory notes on individual countries, see p 57 ff. 2 Value against the euro.

IV Overview of world currencies *

1 Currencies and exchange rates in individual countries (cont'd)

Country ¹ Capital Country code	Currency ISO currency code	Type of rate	Unit	Annual average 2016	Rate at end of month			
					October 2016	November 2016	December 2016	
Morocco								
Rabat 204	Moroccan dirham = 100 centimes	B	USD 1 =	MAD 9.7860	MAD 9.8420	MAD 10.0250	MAD 10.0520	
		S	USD 1 =	MAD 9.8449	MAD 9.9012	MAD 10.0850	MAD 10.1130	
	MAD	B	EUR 1 =	MAD 10.811	MAD 10.771	MAD 10.642	MAD 10.622	
		S	EUR 1 =	MAD 10.876	MAD 10.836	MAD 10.706	MAD 10.686	
	Mozambique							
	Maputo 366	Metical = 100 centavos	B	USD 1 =	MZN 63.35	MZN 77.28	MZN 74.16	MZN 71.19
S			USD 1 =	MZN 63.49	MZN 77.38	MZN 74.23	MZN 71.29	
MZN		B	EUR 1 =	MZN 69.84	MZN 84.58	MZN 78.82	MZN 74.99	
		S	EUR 1 =	MZN 69.99	MZN 84.69	MZN 78.89	MZN 75.10	
Myanmar								
Nay Pyi Taw 676		Kyat = 100 pyas MMK	M	USD 1 =	MMK 1,241.08	MMK 1,285.00	MMK 1,308.00	MMK 1,365.00
	M		EUR 1 =	MMK 1,369.15	MMK 1,410.50	MMK 1,392.60	MMK 1,440.80	
Namibia ¹								
Windhoek 389	Namibia dollar = 100 cents NAD	M	USD 1 =	NAD 14.6574	NAD 13.7438	NAD 13.9120	NAD 13.6240	
		M	EUR 1 =	NAD 16.1723	NAD 15.0700	NAD 14.7953	NAD 14.3403	
Nepal								
Kathmandu 672	Nepalese rupee = 100 paisa	B	USD 1 =	NPR 107.52	NPR 106.65	NPR 109.56	NPR 108.31	
		S	USD 1 =	NPR 108.12	NPR 107.25	NPR 110.16	NPR 108.91	
	NPR	B	EUR 1 =	NPR 118.49	NPR 116.35	NPR 115.98	NPR 114.27	
		S	EUR 1 =	NPR 119.15	NPR 117.01	NPR 116.62	NPR 114.90	
	Netherlands							
	Amsterdam Seat of Government: The Hague 003	Euro = 100 cent EUR	M	EUR 1 =	USD 1.1069	USD 1.0946	USD 1.0635	USD 1.0541
New Caledonia ¹								
Nouméa 809	CFP franc XPF	V	XPF 1,000 =	USD 9.28	USD 9.17	USD 8.91	USD 8.83	
		2	XPF 1,000 =	EUR 8.38	EUR 8.38	EUR 8.38	EUR 8.38	
New Zealand								
Wellington 804	New Zealand dollar = 100 cents	B	NZD 1 =	USD 0.7109	USD 0.7311	USD 0.7296	USD 0.7123	
		S	NZD 1 =	USD 0.6855	USD 0.7052	USD 0.7037	USD 0.6869	
	NZD	B	NZD 1 =	EUR 0.6477	EUR 0.6688	EUR 0.6881	EUR 0.6778	
		S	NZD 1 =	EUR 0.6197	EUR 0.6400	EUR 0.6585	EUR 0.6485	

Source: Central bank or a commercial bank of the country concerned. * See Explanatory notes, p 53. ¹ Explanatory notes on individual countries, see p 57 ff. ² Value against the euro.

IV Overview of world currencies *

1 Currencies and exchange rates in individual countries (cont'd)

Country 1 Capital Country code	Currency ISO currency code	Type of rate	Unit	Annual average 2016	Rate at end of month		
					October 2016	November 2016	December 2016
Nicaragua							
Managua 432	Córdoba = 100 centavos NIO	M	USD 1 =	NIO 28.6774	NIO 29.0872	NIO 29.2038	NIO 29.3247
		V, M	EUR 1 =	NIO 31.63069	NIO 31.83885	NIO 31.05824	NIO 30.91117
Niger 1							
Niamey 240	CFA franc XOF	V	USD 1 =	XOF 592.607	XOF 599.266	XOF 616.791	XOF 622.291
		2	EUR 1 =	XOF 655.957	XOF 655.957	XOF 655.957	XOF 655.957
Nigeria 1							
Abuja 288	Naira = 100 kobo NGN	B	USD 1 =	NGN 253.31	NGN 304.00	NGN 304.00	NGN 304.00
		S	USD 1 =	NGN 254.31	NGN 305.00	NGN 305.00	NGN 305.00
		B	EUR 1 =	NGN 279.4240	NGN 332.8800	NGN 323.6384	NGN 321.0544
		S	EUR 1 =	NGN 280.5293	NGN 333.9750	NGN 324.7030	NGN 322.1105
Norway							
Oslo 028	Norwegian krone = 100 øre NOK	B	USD 1 =	NOK 8.3694	NOK 8.2218	NOK 8.5099	NOK 8.6131
		S	USD 1 =	NOK 8.4325	NOK 8.2868	NOK 8.5749	NOK 8.6781
		B	EUR 1 =	NOK 9.2357	NOK 9.0115	NOK 9.0420	NOK 9.0505
		S	EUR 1 =	NOK 9.3054	NOK 9.0835	NOK 9.1140	NOK 9.1225
Oman							
Muscat 649	Rial Omani = 1,000 baisa OMR	B	USD 1 =	OMR 0.3840	OMR 0.3840	OMR 0.3840	OMR 0.3840
		S	USD 1 =	OMR 0.3850	OMR 0.3850	OMR 0.3850	OMR 0.3850
		B	EUR 1 =	OMR 0.4231360	OMR 0.4211712	OMR 0.4081536	OMR 0.4013952
		S	EUR 1 =	OMR 0.4244048	OMR 0.4224220	OMR 0.4092550	OMR 0.4024790
Pakistan							
Islamabad 662	Pakistani rupee = 100 paisa PKR	B	USD 1 =	PKR 104.40	PKR 104.30	PKR 104.40	PKR 104.60
		S	USD 1 =	PKR 104.60	PKR 104.50	PKR 104.60	PKR 104.80
		B	EUR 1 =	PKR 115.40	PKR 114.41	PKR 111.00	PKR 110.11
		S	EUR 1 =	PKR 115.62	PKR 114.63	PKR 111.21	PKR 110.32
Panama 1							
Panama City 442	Balboa = 100 centésimos PAB	3	USD 1 =	PAB 1	PAB 1	PAB 1	PAB 1
		V	EUR 1 =	PAB 1.1069	PAB 1.0946	PAB 1.0635	PAB 1.0541
Papua New Guinea							
Port Moresby 801	Kina = 100 toea PGK	B	PGK 1 =	USD 0.3260	USD 0.3230	USD 0.3225	USD 0.3225
		S	PGK 1 =	USD 0.3110	USD 0.3080	USD 0.3075	USD 0.3075
		B	PGK 1 =	EUR 0.2938	EUR 0.2922	EUR 0.3012	EUR 0.3053
		S	PGK 1 =	EUR 0.2791	EUR 0.2774	EUR 0.2864	EUR 0.2906

Source: Central bank or a commercial bank of the country concerned. * See Explanatory notes, p 53. 1 Explanatory notes on individual countries, see p 57 ff. 2 Value against the euro. 3 Parity in relation to US dollar.

IV Overview of world currencies *

1 Currencies and exchange rates in individual countries (cont'd)

Country 1 Capital Country code	Currency ISO currency code	Type of rate	Unit	Annual average 2016	Rate at end of month		
					October 2016	November 2016	December 2016
Paraguay							
Asunción 520	Guaraní = 100 céntimos	B	USD 1 =	PYG 5,672.44	PYG 5,717.30	PYG 5,834.62	PYG 5,759.23
		S	USD 1 =	PYG 5,685.30	PYG 5,729.68	PYG 5,845.12	PYG 5,774.63
	PYG	V, B	EUR 1 =	PYG 6,272.17	PYG 6,258.16	PYG 6,205.12	PYG 6,020.12
		V, S	EUR 1 =	PYG 6,286.42	PYG 6,271.71	PYG 6,216.29	PYG 6,036.22
Peru							
Lima 504	Sol = 100 céntimos	B	USD 1 =	PEN 3.372	PEN 3.360	PEN 3.409	PEN 3.352
		S	USD 1 =	PEN 3.377	PEN 3.365	PEN 3.413	PEN 3.360
	PEN	B	EUR 1 =	PEN 3.628	PEN 3.586	PEN 3.366	PEN 3.381
		S	EUR 1 =	PEN 3.878	PEN 3.788	PEN 3.776	PEN 3.601
Philippines							
Manila 708	Philippine peso = 100 centavos	B	USD 1 =	PHP 46.87244	PHP 47.70313	PHP 49.00892	PHP 48.99906
		S	USD 1 =	PHP 48.25174	PHP 49.10687	PHP 50.45109	PHP 50.44094
	PHP	B	EUR 1 =	PHP 51.72197	PHP 51.99641	PHP 51.99356	PHP 50.99332
		S	EUR 1 =	PHP 53.24397	PHP 53.52649	PHP 53.52356	PHP 52.49389
Poland							
Warsaw 060	Polish zloty = 100 groszy PLN	M	USD 1 =	PLN 3.9435	PLN 3.9488	PLN 4.1721	PLN 4.1793
		M	EUR 1 =	PLN 4.3757	PLN 4.3267	PLN 4.4384	PLN 4.4240
Portugal							
Lisbon 010	Euro = 100 cent EUR	M	EUR 1 =	USD 1.1069	USD 1.0946	USD 1.0635	USD 1.0541
Qatar							
Doha 644	Qatari riyal = 100 dirham QAR	M	USD 1 =	QAR 3.6400	QAR 3.6400	QAR 3.6400	QAR 3.6400
		V, M	EUR 1 =	QAR 4.014	QAR 3.984	QAR 3.871	QAR 3.837
Romania							
Bucharest 066	Romanian leu = 100 bani RON	M	USD 1 =	RON 4.0569	RON 4.1131	RON 4.2616	RON 4.3033
		M	EUR 1 =	RON 4.4934	RON 4.5057	RON 4.5162	RON 4.5411
Russian Federation							
Moscow 075	Russian rouble = 100 kopecks RUB	M	USD 1 =	RUB 66.8335	RUB 62.9037	RUB 64.9449	RUB 60.6569
		M	EUR 1 =	RUB 73.2104	RUB 68.6783	RUB 68.8416	RUB 63.8111

Source: Central bank or a commercial bank of the country concerned. * See Explanatory notes, p 53. 1 Explanatory notes on individual countries, see p 57 ff.

IV Overview of world currencies *

1 Currencies and exchange rates in individual countries (cont'd)

Country 1 Capital Country code	Currency ISO currency code	Type of rate	Unit	Annual average 2016	Rate at end of month		
					October 2016	November 2016	December 2016
Rwanda							
Kigali 324	Rwanda franc = 100 centimes	B	USD 1 =	RWF 780.776613	RWF 805.717110	RWF 808.817813	RWF 811.673259
		S	USD 1 =	RWF 796.390569	RWF 821.829824	RWF 824.992535	RWF 827.905085
	RWF	B	EUR 1 =	RWF 862.393156	RWF 885.241388	RWF 861.390971	RWF 851.567000
		S	EUR 1 =	RWF 879.639277	RWF 902.944428	RWF 878.617050	RWF 868.596620
Saint Helena, Ascension and Tristan da Cunha							
Jamestown 329	Saint Helena pound ² = 100 pence SHP	V	USD 1 =	SHP 0.74034	SHP 0.82267	SHP 0.80160	SHP 0.81224
		V	EUR 1 =	SHP 0.81948	SHP 0.90050	SHP 0.85250	SHP 0.85618
Saint Kitts and Nevis							
Basseterre 449	East Caribbean dollar = 100 cents	B	USD 1 =	XCD 2.6882	XCD 2.6882	XCD 2.6882	XCD 2.6882
		S	USD 1 =	XCD 2.7169	XCD 2.7169	XCD 2.7169	XCD 2.7169
	XCD	V, B	EUR 1 =	XCD 2.9756	XCD 2.9425	XCD 2.8589	XCD 2.8336
		V, S	EUR 1 =	XCD 3.0073	XCD 2.9739	XCD 2.8894	XCD 2.8639
Saint Lucia							
Castries 465	East Caribbean dollar = 100 cents	B	USD 1 =	XCD 2.6882	XCD 2.6882	XCD 2.6882	XCD 2.6882
		S	USD 1 =	XCD 2.7169	XCD 2.7169	XCD 2.7169	XCD 2.7169
	XCD	V, B	EUR 1 =	XCD 2.9756	XCD 2.9425	XCD 2.8589	XCD 2.8336
		V, S	EUR 1 =	XCD 3.0073	XCD 2.9739	XCD 2.8894	XCD 2.8639
Saint Vincent and the Grenadines							
Kingstown 467	East Caribbean dollar = 100 cents	B	USD 1 =	XCD 2.6882	XCD 2.6882	XCD 2.6882	XCD 2.6882
		S	USD 1 =	XCD 2.7169	XCD 2.7169	XCD 2.7169	XCD 2.7169
	XCD	V, B	EUR 1 =	XCD 2.9756	XCD 2.9425	XCD 2.8589	XCD 2.8336
		V, S	EUR 1 =	XCD 3.0073	XCD 2.9739	XCD 2.8894	XCD 2.8639
Samoa							
Apia 819	Tala = 100 sene WST	M	WST 1 =	USD 0.38973	USD 0.39492	USD 0.39331	USD 0.38722
		M	WST 1 =	EUR 0.35372	EUR 0.35946	EUR 0.36953	EUR 0.36946
Sao Tome and Principe ¹							
São Tomé 311	Dobra = 100 céntimos	B	USD 1 =	STD 22,258.97	STD 22,431.79	STD 23,165.66	STD 23,438.25
		S	USD 1 =	STD 22,592.85	STD 22,768.27	STD 23,513.14	STD 23,789.82
	STD	M	EUR 1 =	STD 24,500.00	STD 24,500.00	STD 24,500.00	STD 24,500.00
Saudi Arabia							
Riyadh 632	Saudi riyal = 100 halalah	B	USD 1 =	SAR 3.7440	SAR 3.7440	SAR 3.7440	SAR 3.7440
		S	USD 1 =	SAR 3.7540	SAR 3.7540	SAR 3.7540	SAR 3.7540
	SAR	B	EUR 1 =	SAR 4.0229	SAR 4.0201	SAR 3.8838	SAR 3.8022
		S	EUR 1 =	SAR 4.2856	SAR 4.2334	SAR 4.0910	SAR 4.0969

Source: Central bank or a commercial bank of the country concerned. * See Explanatory notes, p 53. ¹ Explanatory notes on individual countries, see p 57 ff. ² Value (1:1) against the pound sterling.

IV Overview of world currencies *

1 Currencies and exchange rates in individual countries (cont'd)

Country ¹ Capital Country code	Currency ISO currency code	Type of rate	Unit	Annual average 2016	Rate at end of month		
					October 2016	November 2016	December 2016
Senegal ¹							
Dakar 248	CFA franc	V	USD 1 =	XOF 592.607	XOF 599.266	XOF 616.791	XOF 622.291
	XOF	2	EUR 1 =	XOF 655.957	XOF 655.957	XOF 655.957	XOF 655.957
Serbia							
Belgrade 098	Serbian dinar = 100 para	B	USD 1 =	RSD 111.1409	RSD 111.9757	RSD 115.5173	RSD 116.7839
		S	USD 1 =	RSD 111.8098	RSD 112.6495	RSD 116.2125	RSD 117.4867
	RSD	B	EUR 1 =	RSD 122.7830	RSD 122.7925	RSD 122.8296	RSD 123.1019
		S	EUR 1 =	RSD 123.5219	RSD 123.5315	RSD 123.5688	RSD 123.8427
Seychelles							
Victoria 355	Seychelles rupee = 100 cents	B	USD 1 =	SCR 12.9885	SCR 13.0733	SCR 13.0745	SCR 13.3550
		S	USD 1 =	SCR 13.5165	SCR 13.6256	SCR 13.6459	SCR 13.6510
	SCR	B	EUR 1 =	SCR 14.4673	SCR 14.3441	SCR 13.9996	SCR 13.7809
		S	EUR 1 =	SCR 14.8800	SCR 14.9091	SCR 14.4757	SCR 14.3086
Sierra Leone							
Freetown 264	Leone = 100 cents	B	USD 1 =	SLL 6,285.30	SLL 6,967.27	SLL 7,139.90	SLL 7,123.41
		S	USD 1 =	SLL 6,412.28	SLL 7,108.03	SLL 7,284.14	SLL 7,267.32
	SLL	V, B	EUR 1 =	SLL 6,925.75	SLL 7,626.37	SLL 7,593.28	SLL 7,508.79
		V, S	EUR 1 =	SLL 7,065.66	SLL 7,780.45	SLL 7,746.68	SLL 7,660.48
Singapore ¹							
Singapore 706	Singapore dollar = 100 cents SGD	M	USD 1 =	SGD 1.3835	SGD 1.3921	SGD 1.4250	SGD 1.4463
		M	EUR 1 =	SGD 1.5254	SGD 1.5273	SGD 1.5151	SGD 1.5230
Sint Maarten (southern part)							
Philipsburg 479	Netherlands Antillean guilder = 100 cent	B	USD 1 =	ANG 1.78	ANG 1.78	ANG 1.78	ANG 1.78
		S	USD 1 =	ANG 1.82	ANG 1.82	ANG 1.82	ANG 1.82
	ANG	B	EUR 100 =	ANG 196.48	ANG 194.95	ANG 189.41	ANG 187.74
		S	EUR 100 =	ANG 200.44	ANG 198.88	ANG 193.23	ANG 191.52
Slovakia							
Bratislava 063	Euro = 100 cent EUR	M	EUR 1 =	USD 1.1069	USD 1.0946	USD 1.0635	USD 1.0541
Slovenia							
Ljubljana 091	Euro = 100 cent EUR	M	EUR 1 =	USD 1.1069	USD 1.0946	USD 1.0635	USD 1.0541
Solomon Islands							
Honiara 806	Solomon Islands dollar = 100 cents SBD	M	SBD 1 =	USD 0.1256	USD 0.1266	USD 0.1250	USD 0.1236
		M	SBD 1 =	EUR 0.1140	EUR 0.1155	EUR 0.1178	EUR 0.1182

Source: Central bank or a commercial bank of the country concerned. * See Explanatory notes, p 53. ¹ Explanatory notes on individual countries, see p 57 ff. ² Value against the euro.

IV Overview of world currencies *

1 Currencies and exchange rates in individual countries (cont'd)

Country ¹ Capital Country code	Currency ISO currency code	Type of rate	Unit	Annual average 2016	Rate at end of month		
					October 2016	November 2016	December 2016
Somalia ¹							
Mogadishu 342	Somali shilling	M	USD 1 =
	SOS	M	EUR 1 =
South Africa							
Pretoria Seat of Parliament: Cape Town 388	South African rand = 100 cents	B	USD 1 =	ZAR 14.5296	ZAR 13.3650	ZAR 13.8238	ZAR 13.5413
		S	USD 1 =	ZAR 14.8471	ZAR 13.6825	ZAR 14.1413	ZAR 13.8588
	ZAR	B	EUR 1 =	ZAR 15.8664	ZAR 14.5929	ZAR 14.6680	ZAR 14.2268
		S	EUR 1 =	ZAR 16.2975	ZAR 15.0243	ZAR 15.0923	ZAR 14.6515
South Sudan ¹							
Juba 225	South Sudanese pound = 100 piastres	B	USD 1 =	SSP 30.9462 ²	SSP .	SSP .	SSP .
		S	USD 1 =	SSP 31.4204 ²	SSP .	SSP .	SSP .
	SSP	B	EUR 1 =	SSP 34.3887 ²	SSP .	SSP .	SSP .
		S	EUR 1 =	SSP 34.9252 ²	SSP .	SSP .	SSP .
Spain							
Madrid 011	Euro = 100 cent EUR	M	EUR 1 =	USD 1.1069	USD 1.0946	USD 1.0635	USD 1.0541
Sri Lanka							
Colombo 669	Sri Lanka rupee = 100 cents	B	USD 1 =	LKR 144.14	LKR 146.02	LKR 147.18	LKR 147.84
		S	USD 1 =	LKR 147.97	LKR 149.78	LKR 150.94	LKR 151.66
	LKR	B	EUR 1 =	LKR 158.29	LKR 158.98	LKR 155.69	LKR 154.93
		S	EUR 1 =	LKR 164.52	LKR 165.11	LKR 161.70	LKR 160.92
Sudan							
Khartoum 224	Sudanese pound = 100 piastres	B	USD 1 =	SDG 6.1962	SDG 6.4807	SDG 6.4807	SDG 6.5779
		S	USD 1 =	SDG 6.2272	SDG 6.5131	SDG 6.5131	SDG 6.6108
	SDG	B	EUR 1 =	SDG 6.8267	SDG 7.1106	SDG 6.8890	SDG 6.8811
		S	EUR 1 =	SDG 6.8608	SDG 7.1462	SDG 6.9234	SDG 6.9155
Suriname							
Paramaribo 492	Suriname dollar = 100 cent	B	USD 1 =	SRD 6.320	SRD 6.949	SRD 7.260	SRD 7.354
		S	USD 1 =	SRD 6.434	SRD 7.073	SRD 7.389	SRD 7.485
	SRD	B	EUR 1 =	SRD 6.958	SRD 7.590	SRD 7.678	SRD 7.687
		S	EUR 1 =	SRD 7.084	SRD 7.725	SRD 7.815	SRD 7.824
Swaziland ¹							
Mbabane 393	Lilangeni = 100 cents	B	USD 1 =	SZL 14.6400	SZL 13.7275	SZL 13.8950	SZL 13.6000
		S	USD 1 =	SZL 14.6839	SZL 13.7775	SZL 13.9450	SZL 13.6500
	SZL	B	EUR 1 =	SZL 16.14487	SZL 15.0398	SZL 14.7634	SZL 14.3167
		S	EUR 1 =	SZL 16.19715	SZL 15.0960	SZL 14.8180	SZL 14.3762
Sweden							
Stockholm 030	Swedish krona = 100 öre	B	USD 1 =	SEK 8.5274	SEK 8.9651	SEK 9.1282	SEK 9.0646
		S	USD 1 =	SEK 8.5949	SEK 9.0326	SEK 9.1957	SEK 9.1321
	SEK	B	EUR 1 =	SEK 9.4489	SEK 9.8449	SEK 9.7332	SEK 9.5504
		S	EUR 1 =	SEK 9.5004	SEK 9.8964	SEK 9.7847	SEK 9.6019

Source: Central bank or a commercial bank of the country concerned. * See Explanatory notes, p 53. ¹ Explanatory notes on individual countries, see p 57 ff. ² Average from January to June 2016.

IV Overview of world currencies *

1 Currencies and exchange rates in individual countries (cont'd)

Country ¹ Capital Country code	Currency ISO currency code	Type of rate	Unit	Annual average 2016	Rate at end of month		
					October 2016	November 2016	December 2016
Switzerland							
Berne 039	Swiss franc = 100 rappen / centimes CHF	B	USD 1 =	CHF 0.9852	CHF 0.9884	CHF 1.0128	CHF 1.0160
		B	EUR 1 =	CHF 1.0902	CHF 1.0828	CHF 1.0782	CHF 1.0737
Syrian Arab Republic							
Damascus 608	Syrian pound = 100 piastres SYP	B	USD 1 =	SYP 467.91	SYP 497.07	SYP 497.07	SYP 497.07
		S	USD 1 =	SYP 470.72	SYP 500.06	SYP 500.06	SYP 500.07
		B	EUR 1 =	SYP 515.56	SYP 545.80	SYP 528.14	SYP 520.45
		S	EUR 1 =	SYP 519.18	SYP 549.64	SYP 531.85	SYP 524.10
Tajikistan							
Dushanbe 082	Somoni = 100 diram TJS	M	USD 1 =	TJS 7.8496	TJS 7.8753	TJS 7.8780	TJS 7.8762
		M	EUR 1 =	TJS 8.6825	TJS 8.5990	TJS 8.3483	TJS 8.3070
Tanzania, United Republic of							
Dodoma Seat of Government: Dar es Salaam 352	Tanzania shilling = 100 cents TZS	B	USD 1 =	TZS 2,166.1774	TZS 2,164.8614	TZS 2,160.1683	TZS 2,161.8119
		S	USD 1 =	TZS 2,187.8392	TZS 2,186.5100	TZS 2,181.7700	TZS 2,183.4300
		B	EUR 1 =	TZS 2,386.6230	TZS 2,366.1935	TZS 2,285.6741	TZS 2,258.8772
		S	EUR 1 =	TZS 2,411.1094	TZS 2,390.0741	TZS 2,308.9672	TZS 2,281.6844
Thailand							
Bangkok 680	Thai baht = 100 satang THB	B	USD 1 =	THB 35.1247	THB 34.8590	THB 35.4158	THB 35.6588
		S	USD 1 =	THB 35.4649	THB 35.1829	THB 35.8068	THB 36.0025
		B	EUR 1 =	THB 38.5268	THB 38.0075	THB 37.5180	THB 37.3791
		S	EUR 1 =	THB 39.2756	THB 38.7762	THB 38.2678	THB 38.1362
Togo ¹							
Lomé 280	CFA franc XOF	V	USD 1 =	XOF 592.607	XOF 599.266	XOF 616.791	XOF 622.291
		2	EUR 1 =	XOF 655.957	XOF 655.957	XOF 655.957	XOF 655.957
Tonga							
Nuku'alofa 817	Pa'anga = 100 seniti TOP	M	TOP 1 =	USD 0.4499	USD 0.4554	USD 0.4524	USD 0.4442
		M	TOP 1 =	EUR 0.4071	EUR 0.4131	EUR 0.4238	EUR 0.4222
Trinidad and Tobago							
Port-of-Spain 472	Trinidad and Tobago dollar = 100 cents TTD	B	USD 1 =	TTD 6.6274	TTD 6.6755	TTD 6.7122	TTD 6.7381
		S	USD 1 =	TTD 6.6648	TTD 6.7531	TTD 6.7499	TTD 6.7536
		B	EUR 1 =	TTD 7.2338	TTD 7.2913	TTD 7.0796	TTD 6.9817
		S	EUR 1 =	TTD 7.7041	TTD 7.6255	TTD 7.5811	TTD 7.5065

Source: Central bank or a commercial bank of the country concerned. * See Explanatory notes, p 53. ¹ Explanatory notes on individual countries, see p 57 ff. ² Value against the euro.

IV Overview of world currencies *

1 Currencies and exchange rates in individual countries (cont'd)

Country 1 Capital Country code	Currency ISO currency code	Type of rate	Unit	Annual average 2016	Rate at end of month		
					October 2016	November 2016	December 2016
Tunisia							
Tunis 212	Tunisian dinar = 1,000 millimes	B	USD 1 =	TND 2.1357	TND 2.2370	TND 2.2863	TND 2.2987
		S	USD 1 =	TND 2.1380	TND 2.2393	TND 2.2885	TND 2.3009
	TND	B	EUR 1 =	TND 2.3595	TND 2.4489	TND 2.4244	TND 2.4246
		S	EUR 1 =	TND 2.3620	TND 2.4513	TND 2.4268	TND 2.4271
Turkey							
Ankara 052	Turkish lira = 100 kuruş	B	USD 1 =	TRY 3.0218	TRY 3.0998	TRY 3.4199	TRY 3.5318
		S	USD 1 =	TRY 3.0272	TRY 3.1054	TRY 3.4261	TRY 3.5382
	TRY	B	EUR 1 =	TRY 3.3408	TRY 3.3834	TRY 3.6253	TRY 3.6939
		S	EUR 1 =	TRY 3.3468	TRY 3.3895	TRY 3.6318	TRY 3.7006
Turkmenistan							
Ashgabat 080	Turkmen manat = 100 tenge TMT	M	USD 1 =	TMT 3.50	TMT 3.50	TMT 3.50	TMT 3.50
		M	EUR 1 =	TMT 3.8696	TMT 3.8434	TMT 3.7058	TMT 3.6943
Uganda							
Kampala 350	Uganda shilling	B	USD 1 =	UGX 3,423.30	UGX 3,460.15	UGX 3,625.22	UGX 3,605.50
		S	USD 1 =	UGX 3,433.30	UGX 3,470.15	UGX 3,635.22	UGX 3,615.50
	UGX	B	EUR 1 =	UGX 3,766.57	UGX 3,780.91	UGX 3,849.26	UGX 3,781.45
		S	EUR 1 =	UGX 3,777.58	UGX 3,791.83	UGX 3,859.88	UGX 3,791.94
Ukraine							
Kyiv 072	Hryvnia = 100 kopiyok UAH	M	USD 100 =	UAH 2,562.2154	UAH 2,549.5951	UAH 2,559.9374	UAH 2,719.0858
		M	EUR 100 =	UAH 2,832.4756	UAH 2,784.6678	UAH 2,707.3898	UAH 2,842.2604
United Arab Emirates ¹							
Abu Dhabi 647	United Arab Emirates dirham = 100 fils AED	M	USD 1 =	AED 3.6725	AED 3.6725	AED 3.6725	AED 3.6725
		V, M	EUR 1 =	AED 4.0514	AED 4.0199	AED 3.9057	AED 3.8712
United Kingdom ¹							
London 006	Pound sterling = 100 pence GBP	M	GBP 1 =	USD 1.3542	USD 1.2214	USD 1.2497	USD 1.2303
		M	EUR 1 =	GBP 0.8227	GBP 0.8975	GBP 0.8489	GBP 0.8583
United States							
Washington 400	US dollar = 100 cents USD	M	EUR 1 =	USD 1.10344	USD 1.0979	USD 1.0585	USD 1.0513
		M	GBP 1 =	USD 1.35493	USD 1.2242	USD 1.2504	USD 1.2336

Source: Central bank or a commercial bank of the country concerned. * See Explanatory notes, p 53. ¹ Explanatory notes on individual countries, see p 57 ff.

IV Overview of world currencies *

1 Currencies and exchange rates in individual countries (cont'd)

Country ¹ Capital Country code	Currency ISO currency code	Type of rate	Unit	Annual average 2016	Rate at end of month			
					October 2016	November 2016	December 2016	
Uruguay								
Montevideo 524	Uruguayan peso = 100 centésimos UYU	M	USD 1 =	UYU 30.118	UYU 28.279	UYU 28.949	UYU 29.256	
		M	EUR 1 =	UYU 33.3217	UYU 31.0206	UYU 30.6628	UYU 30.7993	
Uzbekistan								
Tashkent 081	Uzbekistan sum = 100 tiyin UZS	M	USD 1 =	UZS 2,973.82	UZS 3,083.96	UZS 3,176.16	UZS 3,231.48	
		M	EUR 1 =	UZS 3,310.38	UZS 3,388.35	UZS 3,450.86	UZS 3,419.23	
Vanuatu								
Port Vila 816	Vatu VUV	B	USD 1 =	VUV 108.99	VUV 107.64	VUV 109.56	VUV 111.17	
		S	USD 1 =	VUV 114.61	VUV 113.61	VUV 115.64	VUV 117.33	
		B	EUR 1 =	VUV 120.03	VUV 118.48	VUV 115.87	VUV 116.81	
		S	EUR 1 =	VUV 124.65	VUV 123.14	VUV 120.42	VUV 121.40	
Venezuela, Bolivarian Republic of ¹								
Caracas 484	Bolívar = 100 céntimos VEF	2	B	USD 1 =	VEF 9.975	VEF 9.975	VEF 9.975	VEF 9.975
			S	USD 1 =	VEF 10.000	VEF 10.000	VEF 10.000	VEF 10.000
		B	S	EUR 1 =	VEF 11.043023	VEF 10.948560	VEF 10.570508	VEF 10.499685
			S	EUR 1 =	VEF 11.074900	VEF 10.981000	VEF 10.601000	VEF 10.532000
		3	B	USD 1 =	VEF 574.2342	VEF 657.4473	VEF 662.2094	VEF 672.0772
			S	USD 1 =	VEF 575.6734	VEF 659.0951	VEF 663.8691	VEF 673.7617
		B	S	EUR 1 =	VEF 633.275665	VEF 721.614156	VEF 701.743301	VEF 707.428461
			S	EUR 1 =	VEF 635.097637	VEF 723.752329	VEF 703.767633	VEF 709.605822
Viet Nam								
Hanoi 690	Dong = 10 hào = 100 xu VND	B	S	USD 1 =	VND 22,332	VND 22,285	VND 22,620	VND 22,720
			S	USD 1 =	VND 22,403	VND 22,355	VND 22,700	VND 22,790
		B	S	EUR 1 =	VND 24,544.09	VND 24,349.51	VND 23,955.35	VND 23,823.36
			S	EUR 1 =	VND 24,785.72	VND 24,592.27	VND 24,199.60	VND 24,061.00
Yemen								
Sana'a 653	Yemeni rial = 100 fils YER	B	S	USD 1 =	YER 241.22	YER 250.00	YER 250.00	YER 250.00
			S	USD 1 =	YER 241.60	YER 250.50	YER 250.50	YER 250.50
		B	S	EUR 1 =	YER 265.85	YER 274.18	YER 264.99	YER 261.51
			S	EUR 1 =	YER 266.27	YER 274.72	YER 265.52	YER 262.04
Zambia								
Lusaka 378	Kwacha = 100 ngwee ZMW	B	S	USD 1 =	ZMW 10.2260	ZMW 9.6767	ZMW 9.8815	ZMW 9.8737
			S	USD 1 =	ZMW 10.2640	ZMW 9.7250	ZMW 9.9266	ZMW 9.9208
		B	S	EUR 1 =	ZMW 11.2881	ZMW 10.5912	ZMW 10.5041	ZMW 10.4069
			S	EUR 1 =	ZMW 11.3329	ZMW 10.6480	ZMW 10.5540	ZMW 10.4595

Source: Central bank or a commercial bank of the country concerned. * See Explanatory notes, p 53. ¹ Explanatory notes on individual countries, see p 57 ff. ² DIPRO (the annual averages relate to the period March to December

2016). ³ DICOM (the annual averages relate to the period March to December 2016).

V Value of the special drawing right in selected currencies *

1 End-of-year and end-of-month rates

SDR 1 = CU ...

Period	US dollar USD	Euro EUR	Chinese yuan renminbi CNY	Japanese yen JPY	Pound sterling GBP	Canadian dollar CAD	Swiss franc CHF	Danish krone DKK	Norwegian krone NOK	Swedish krona SEK
1999	1.37251	1.36467	11.3508	140.111	0.848150	1.98094	2.19297	10.1549	11.0218	11.6873
2000	1.30291	1.40022	10.7847	149.704	0.873149	1.95462	2.13221	10.4500	11.5288	12.4232
2001	1.25673	1.42474	10.3925	165.491	0.866469	2.00147	2.10605	10.5685	11.3251	13.3943
2002	1.35952	1.29639	11.2123	162.414	0.843483	2.14750	1.88539	9.62844	9.47006	11.9542
2003	1.48597	1.17654	12.2989	158.575	0.832619	1.92047	1.83800	8.82099	9.91886	10.7715
2004	1.55301	1.14016	12.8107	161.161	0.804085	1.86920	1.75738	8.46296	9.37796	10.2351
2005	1.42927	1.21155	11.5345	168.610	0.830055	1.66418	1.87848	9.03881	9.67427	11.3363
2006	1.50440	1.14229	11.7474	178.948	0.766377	1.75308	1.83582	8.51702	9.41017	10.3390
2007	1.58025	1.07346	11.5302	179.947	0.788780	1.56144	1.77857	8.02021	1.77857	10.2088
2008	1.54027	1.10675	10.5271	140.464	1.056570	1.88621	1.63839	8.18003	10.7802	12.0833
2009	1.56769	1.08822	10.7045	143.797	0.968007	1.64075	1.61551	8.10688	9.05608	11.3070
2010	1.54003	1.15966	10.1995	125.436	0.997755	1.54142	1.44702	8.64469	9.06742	10.4761
2011	1.53527	1.18654	9.67352	119.321	0.992989	1.56254	1.44453	8.82099	9.20039	10.6293
2012	1.53692	1.16583	9.66660	133.020	0.953662	1.52954	1.40874	8.69762	8.55432	10.0140
2013	1.54000	1.11732	9.39770	162.162	0.935148	1.63856	1.37291	8.33556	9.41398	10.0229
2014	1.44881	1.19332	8.86525	174.733	0.928247	1.68076	1.43301	8.86611	10.7693	11.3176
2015	1.38573	1.27283	8.99548	167.116	0.935104	1.91785	1.37478	9.47221	12.2069	11.5742
2016	1.34433	1.27534	9.34283	157.018	1.09278	1.80503	1.36826	9.48128	11.5881	12.2295
2013 Jan	1.54134	1.13752	9.67886	140.369	0.976582	1.54010	1.40508	8.48738	8.45745	9.80286
Feb	1.51483	1.15380	9.50995	140.092	0.997128	1.55800	1.41000	8.60274	8.63849	9.7482
Mar	1.49920	1.16987	9.39832	140.999	0.990619	1.52139	1.42738	8.73332	8.71612	9.76134
Apr	1.50900	1.15437	9.35769	147.746	0.974488	1.51986	1.41288	8.60704	8.78194	9.89844
May	1.49877	1.15237	9.26175	151.420	0.985125	1.54958	1.42892	8.59166	8.77408	9.87264
June	1.50396	1.14982	9.29247	148.696	0.987430	1.57594	1.42094	8.57618	9.06569	10.0970
July	1.51326	1.13993	9.35008	148.390	0.995827	1.55669	1.40521	8.49755	8.96604	9.94194
Aug	1.51528	1.14490	9.35060	148.997	0.977536	1.59907	1.40951	8.54022	9.26286	9.99111
Sep	1.53408	1.13594	9.43156	149.957	0.949722	1.57780	1.38865	8.47185	9.21693	9.86368
Oct	1.53804	1.12751	9.44742	151.466	0.959058	1.60402	1.39100	8.40986	9.13734	9.87547
Nov	1.53521	1.12916	9.41540	155.624	0.940751	1.62655	1.38905	8.42197	9.31897	10.0835
Dec	1.54000	1.11732	9.39770	162.162	0.935148	1.63856	1.37291	8.33556	9.41398	10.0229
2014 Jan	1.53420	1.13510	9.37884	157.747	0.932079	1.70588	1.38431	8.46998	9.6609	10.0125
Feb	1.54740	1.12025	9.47230	157.526	0.927257	1.71375	1.36450	8.35988	9.26999	10.0439
Mar	1.54563	1.12100	9.50887	158.968	0.928695	1.70838	1.36633	8.36925	9.25386	10.0571
Apr	1.54969	1.11891	9.54299	158.967	0.921285	1.69800	1.36698	8.35143	9.25566	10.1799
May	1.54047	1.13212	9.50390	156.573	0.920785	1.67403	1.38149	8.45059	9.21837	10.2538
June	1.54589	1.13186	9.51158	156.599	0.907482	1.65039	1.37631	8.43889	9.51158	10.4202
July	1.53131	1.14456	9.44430	157.388	0.907013	1.66759	1.39226	8.53424	9.62001	10.5544
Aug	1.51838	1.15134	9.36040	157.472	0.915131	1.64866	1.38856	8.57979	9.37937	10.5872
Sep	1.48258	1.17824	9.12159	162.150	0.916305	1.66168	1.42046	8.76978	9.56627	10.7314
Oct	1.47833	1.18040	9.08595	163.459	0.923728	1.66681	1.41757	8.78735	10.0216	10.8662
Nov	1.46424	1.17374	8.98368	172.546	0.929973	1.64522	1.41446	8.73218	9.98841	10.8774
Dec	1.44881	1.19332	8.86525	174.733	0.928247	1.68076	1.43301	8.86611	10.7693	11.3176
2015 Jan	1.40980	1.24706	8.65194	166.667	0.934763	1.79285	1.30223	9.28315	11.0159	11.6534
Feb	1.40739	1.25213	8.65194	167.846	0.912176	1.76037	1.33534	9.34833	10.7357	11.7788
Mar	1.37949	1.28217	8.47314	165.691	0.932088	1.74961	1.34197	9.57735	11.1594	11.8956
Apr	1.40642	1.25405	8.59838	166.674	0.911718	1.70444	1.31598	9.35918	10.5145	11.6984
May	1.39050	1.26755	8.50933	172.075	0.911926	1.73326	1.30944	9.45555	10.8198	11.7894
June	1.40639	1.25694	8.59816	172.213	0.894767	1.75433	1.30823	9.37726	11.0497	11.5871
July	1.39470	1.27172	8.53170	172.901	0.895528	1.81966	1.34212	9.48902	11.4474	12.0354
Aug	1.40380	1.25172	8.96933	170.141	0.914997	1.85624	1.35382	9.34143	11.7142	11.8760
Sep	1.40374	1.25300	8.92961	168.378	0.923574	1.88016	1.36640	9.34719	11.9341	11.7748
Oct	1.39687	1.26793	8.86942	168.840	0.910075	1.82753	1.38137	9.45600	11.9096	11.8987
Nov	1.37217	1.29707	8.77855	168.502	0.914411	1.82951	1.41484	9.67661	11.9245	11.9797
Dec	1.38573	1.27283	8.99548	167.116	0.935104	1.91785	1.37478	9.47221	12.2069	11.5742
2016 Jan	1.38050	1.26419	9.07853	167.040	0.965111	1.94374	1.40783	9.43450	11.9902	11.7571
Feb	1.38131	1.26866	9.04429	156.641	0.997049	1.86795	1.38394	9.46450	12.0578	11.7931
Mar	1.40882	1.23744	9.11129	158.675	0.978139	1.82738	1.35529	9.22041	11.6498	11.4779
Apr	1.41733	1.24294	9.19084	158.372	0.969847	1.77861	1.36390	9.25249	11.4537	11.3943
May	1.40288	1.25774	9.23753	155.846	0.959693	1.83777	1.38913	9.35454	11.7220	11.6901
June	1.39884	1.25999	9.29463	143.941	1.03710	1.81976	1.36527	9.37348	11.7190	11.8640
July	1.39338	1.25383	9.27042	144.912	1.05743	1.81711	1.35799	9.32523	11.9229	12.0072
Aug	1.39434	1.25255	9.31255	143.561	1.06131	1.82993	1.37245	9.32297	11.6193	11.9107
Sep	1.39581	1.25062	9.31064	141.089	1.07693	1.83089	1.35980	9.31871	11.2387	12.0301
Oct	1.37385	1.25511	9.30085	143.979	1.12879	1.84137	1.35874	9.33724	11.3393	12.3613
Nov	1.35376	1.27293	9.32175	152.149	1.08718	1.81756	1.37312	9.47104	11.4806	12.4014
Dec	1.34433	1.27534	9.34283	157.018	1.09278	1.80503	1.36826	9.48128	11.5881	12.2295

V Value of the special drawing right in selected currencies *

2 Daily rates

SDR 1 = CU ...

Period	US dollar USD	Euro EUR	Chinese yuan renminbi CNY	Japanese yen JPY	Pound sterling GBP	Canadian dollar CAD	Swiss franc CHF	Danish krone DKK	Norwegian krone NOK	Swedish krona SEK	
2016 Oct	3	1.39768	1.24393	.	141.739	1.08474	1.83614	1.35687	9.26269	11.1488	11.9752
	4	1.39274	1.24786	.	142.060	1.09106	1.83424	1.36433	9.28634	11.1279	11.9713
	5	1.39327	1.24277	.	143.297	1.09490	1.83604	1.36164	9.24838	11.1690	11.9403
	6	1.39106	1.24369	.	143.919	1.09481	1.83760	1.36102	9.25463	11.1854	11.9687
	7	1.38611	1.24426	.	143.878	1.11982	1.84408	1.36061	9.25797	11.1996	12.0091
	11	1.38229	1.24766	9.28135	143.689	1.12775	1.83001	1.36501	9.28410	11.2782	12.0444
	12	1.38012	1.25237	9.26801	143.021	1.12617	1.83238	1.36521	9.31758	11.3077	12.1783
	13	1.37956	1.24983	9.27893	144.164	1.13032	1.82364	1.36480	9.29809	11.3444	12.2292
	14	1.37864	1.25308	9.27119	143.130	1.12680	1.81539	1.36375	9.32262	11.3088	12.1511
	17	1.37707	1.25257	9.28005	143.491	1.13227	1.80920	1.36192	9.31906	11.3125	12.1568
	18	1.37931	1.25472	9.29515	143.200	1.12313	1.80745	1.36386	9.33602	11.2380	12.1406
	19	1.37907	1.25610	9.29428	143.148	1.12101	1.80755	1.36404	9.34649	11.2528	12.1693
	20	1.37791	1.25493	9.28652	142.793	1.12391	1.81857	1.36234	9.33698	11.2473	12.1707
	21	1.37353	1.26174	9.28126	143.012	1.12502	1.83009	1.36598	9.38518	11.2974	12.2253
	24	1.37361	1.26123	9.29757	142.773	1.12223	1.83899	1.36468	9.38289	11.3328	12.2383
	25	1.37220	1.26214	9.29964	143.340	1.12172	1.82969	1.36479	9.38870	11.3426	12.2396
	26	1.37406	1.25772	9.29990	143.383	1.12499	1.83574	1.36265	9.35559	11.3729	12.2544
	27	1.37378	1.25724	9.31107	143.643	1.12054	1.83895	1.36225	9.35078	11.2973	12.2249
	28	1.37171	1.25591	9.29964	144.372	1.13037	1.83603	1.36403	9.34178	11.3591	12.3961
	31	1.37385	1.25511	9.30085	143.979	1.12879	1.84137	1.35874	9.33724	11.3393	12.3613
Nov	1	1.37770	1.24962	9.33393	144.452	1.12613	1.84323	1.35359	9.29575	11.2732	12.3875
	2	1.38316	1.24665	9.35602	143.600	1.12356	1.85205	1.34291	9.27455	11.3115	12.3551
	3	1.38341	1.25037	9.35086	.	1.11015	1.85183	1.34689	9.30354	11.3253	12.3151
	4	1.38525	1.24876	9.36680	142.764	1.10833	1.85790	1.34660	9.29221	11.3759	12.4013
	7	1.38105	1.24846	9.35690	144.236	1.11222	1.84825	1.34845	9.28962	11.3653	12.4360
	8	1.37941	1.24969	9.34824	144.079	1.11189	1.83972	1.34713	9.29999	11.3414	12.4252
	9	1.38331	1.25505	9.36847	140.959	1.11194	1.85474	1.34499	9.33968	11.4451	12.4205
	10	1.37121	1.25857	9.31315	145.211	1.10493	1.84771	1.35394	9.36549	11.4193	12.4023
	11	1.37268	1.25888	9.35454	146.465	1.08766	.	1.35250	9.36891	11.4744	12.4705
	14	1.36619	1.26770	9.33794	146.866	1.09034	1.85557	1.35936	9.43476	11.5804	12.4874
	15	1.36355	1.26665	9.34842	147.127	1.09734	1.83643	1.35987	9.42818	11.5073	12.4048
	16	1.35916	1.27000	9.33768	148.148	1.09371	1.82345	1.36555	9.45162	11.5215	12.4790
	17	1.36204	1.27092	9.35515	148.667	1.09046	1.82909	1.36163	9.45805	11.5498	12.5094
	18	1.35583	1.27559	9.34265	149.955	1.09196	1.83295	1.36559	9.49028	11.6128	12.5689
	21	1.35516	1.27473	9.34545	150.328	1.09433	1.82093	1.36790	9.48506	11.5800	12.5004
	22	1.35525	1.27649	9.33777	149.755	1.08842	1.82199	1.36812	9.49686	11.5603	12.4809
	23	1.35350	1.27665	9.33027	.	1.09180	1.82317	1.36717	9.49812	11.5767	12.4812
	28	1.35177	1.27670	9.33132	151.534	1.08987	1.81151	1.37016	9.49731	11.5986	12.4118
	29	1.35210	1.27846	9.31819	151.503	1.08385	1.81655	1.37225	9.51059	11.6040	12.4460
	30	1.35376	1.27293	9.32175	152.149	1.08718	1.81756	1.37312	9.47104	11.4806	12.4014
Dec	1	1.35333	1.27348	9.32992	154.821	1.07228	1.80412	1.37092	9.47481	11.4140	12.5047
	2	1.35512	1.27337	9.32201	154.118	1.07379	1.80204	1.37097	9.47364	11.4425	12.4866
	5	1.35781	1.26874	9.35340	154.519	1.06645	1.80208	1.37111	9.43895	11.3984	12.4815
	6	1.35977	1.26678	9.34868	154.578	1.06615	1.80590	1.37160	9.42294	11.3761	12.3985
	7	1.35719	1.26486	9.35200	155.059	1.07769	1.79855	1.37104	9.40778	11.3721	12.3692
	8	1.36103	1.26467	9.36417	154.341	1.07341	1.79942	1.37056	9.40787	11.4003	12.3384
	9	1.34997	1.27850	9.31480	154.504	1.07145	1.77710	1.37494	9.50805	11.4816	12.3468
	12	1.35081	1.27483	9.33916	156.018	1.06918	1.77496	1.37039	9.48101	11.4094	12.4123
	13	1.35184	1.27412	9.32845	155.706	1.06390	1.77362	1.36996	9.47562	11.4028	12.3824
	14	1.35392	1.27200	9.34815	155.931	1.07033	1.77675	1.36746	9.45850	11.4764	12.4106
	15	1.33978	1.28590	9.29100	157.625	1.07328	1.79490	1.38172	9.56069	11.5722	12.4474
	16	1.34052	1.28414	9.31498	158.449	1.07850	1.78798	1.37912	9.54636	11.6373	12.5816
	19	1.34042	1.28614	9.31003	157.271	1.07959	1.79575	1.37647	9.56160	11.6376	12.5183
	20	1.33741	1.29044	9.29593	156.798	1.08340	1.78919	1.37740	9.59352	11.6582	12.5387
	21	1.33953	1.28541	9.30960	157.971	1.08315	1.79510	1.37503	9.55603	11.6022	12.4919
	22	1.34017	1.28319	9.30960	157.537	1.08630	1.80494	1.37407	9.53953	11.6738	12.3470
	23	1.33969	1.28249	9.31029	.	1.09318	1.81327	1.37372	9.53434	11.6615	12.3616
	27	1.33965	1.28257	9.31029	157.248	.	.	1.37796	9.53616	11.6815	12.3490
	28	1.33755	1.28598	9.30241	157.296	1.09348	1.81318	1.37767	9.56133	11.6737	12.3330
	29	1.34009	1.28201	9.31949	156.455	1.09350	1.80751	1.37225	9.53016	11.6353	12.2767
	30	1.34433	1.27534	9.34283	157.018	1.09278	1.80503	1.36826	9.48128	11.5881	12.2295
2017 Jan	3	1.33660	1.28705	9.29627	.	1.08759	1.79612	1.37603	9.56800	11.5851	12.2213
	4	1.34007	1.28396	9.31897	158.035	1.09095	1.78136	1.37612	9.54535	11.5435	12.2630
	5	1.34493	1.28077	9.25018	156.819	1.09295	1.77746	1.37264	9.52136	11.5545	12.1981
	6	1.34967	1.27460	9.34309	156.157	1.09135	1.78372	1.36560	9.47580	11.4545	.
	9	1.34399	1.27804	9.31828	.	1.10471	1.77702	1.36831	9.50074	11.5270	12.1869
	10	1.34599	1.27376	9.32218	156.121	1.10845	1.77778	1.36483	9.46898	11.5595	12.1376

VI Global exchange rate arrangements and monetary policy framework *

As of end-April 2016

Exchange rate arrangement	Monetary Policy Framework						
	Exchange rate target				Monetary aggregate target	Inflation-targeting framework	Other ¹
	US dollar	Euro	Exchange rate anchor Composite	Other			
No separate legal tender	Ecuador El Salvador Marshall Islands Micronesia, Federated States of Palau Panama Timor-Leste Zimbabwe	Kosovo Montenegro San Marino		Kiribati Nauru ² Tuvalu			
Currency board	Djibouti Hong Kong ECCU ³ Antigua and Barbuda Dominica Grenada Saint Kitts and Nevis Saint Lucia Saint Vincent and the Grenadines	Bosnia and Herzegovina Bulgaria		Brunei Darussalam			
Conventional peg	Aruba Bahamas Bahrain Barbados Belize Curaçao and Sint Maarten (southern part) Eritrea Iraq Jordan Oman Qatar Saudi Arabia Turkmenistan United Arab Emirates Venezuela, Bolivarian Republic of	Cabo Verde Comoros Denmark ⁴ Sao Tome and Principe WAEMU ⁶ Benin Burkina Faso Côte d'Ivoire Guinea-Bissau Mali Niger Senegal Togo CAEMC ⁷ Cameroon Central African Republic Chad Congo Equatorial Guinea Gabon	Fiji Kuwait Libya Morocco	Bhutan Lesotho Namibia Nepal Swaziland			Samoa Solomon Islands ⁵
Stabilised arrangement	Guyana Lebanon Maldives Trinidad and Tobago	Macedonia, former Yugoslav Republic of	Singapore Viet Nam ⁸		Bangladesh ⁸ Bolivia, Plurinational State of ⁸ Burundi ⁸ Congo, Democratic Republic of the ⁸ Nigeria ⁸ Suriname ⁸ Yemen ⁸	Czechia ⁹	Costa Rica ^{8 10} Lao People's Democratic Republic ⁸ Sudan ⁸
Crawling peg	Honduras Nicaragua		Botswana				
Crawl-like arrangement		Croatia	Iran, Islamic Republic of ⁸		Ethiopia ⁸ Uzbekistan ⁸	Dominican Republic ⁸	Jamaica ^{8 10} Mauritania ^{8 11} Papua New Guinea ⁸ Sri Lanka ^{8 10 11} Tunisia ^{5 10}

VI Global exchange rate arrangements and monetary policy framework *

As of end-April 2016

Exchange rate arrangement	Monetary Policy Framework					Monetary aggregate target	Inflation-targeting framework	Other 1
	Exchange rate target							
	US dollar	Euro	Exchange rate anchor Composite	Other				
Pegged exchange rate within horizontal bands								Tonga 5
Other managed arrangement	Cambodia Liberia		Syrian Arab Republic		Algeria Belarus China 11 Gambia Guinea Myanmar Rwanda Tajikistan			Angola Azerbaijan Egypt Haiti Kyrgyzstan Malaysia Pakistan South Sudan Vanuatu
Floating					Afghanistan Madagascar Malawi Mozambique Seychelles Sierra Leone Tanzania, United Republic of	Albania Armenia 11 Brazil Colombia Georgia Ghana Guatemala Hungary Iceland India Indonesia Israel Kazakhstan Korea, Republic of Moldova, Republic of New Zealand Paraguay Peru Philippines Romania Serbia South Africa Thailand Turkey Uganda Uruguay 11	Argentina 10 Kenya 10 Mauritius Mongolia 10 Switzerland Ukraine Zambia	
Free floating							Australia Canada Chile Japan Mexico 12 Norway Poland Russian Federation Sweden United Kingdom	Somalia United States EMU Austria Belgium Cyprus Estonia Finland France Germany Ireland Italy Latvia Lithuania Luxembourg Malta Netherlands Portugal Slovakia Slovenia Spain

Source: Annual Report on Exchange Arrangements and Exchange Restrictions 2016, Table 2, IMF, Washington. * See Explanatory notes, pp 54–55. 1 Includes countries that have no explicitly stated nominal anchor, but rather monitor various indicators in conducting monetary policy. 2 IMF-member since 12 April 2016. 3 The members participate in the Eastern Caribbean Currency Union. 4 The member participates in the ERM II. 5 The country maintains a de facto exchange rate anchor to a composite. 6 The members participate in the West African Economic and Monetary Union. 7 The members participate in the Central African Economic and Monetary Community.

8 The country maintains a de facto exchange rate anchor to the US dollar. 9 The country maintains a de facto exchange rate anchor to the euro. 10 The central bank has taken preliminary steps toward inflation targeting. 11 The exchange rate arrangement or monetary policy framework was reclassified retroactively, overriding a previously published classification. 12 The exchange rate arrangement was reclassified twice during this reporting period, reverting back to the classification in the previous year's report.

VII ISO currency codes *

As of end-December 2016

ISO Code	Currency	Country ¹ or territory	ISO Code	Currency	Country ¹ or territory	ISO Code	Currency	Country ¹ or territory
AED	United Arab Emirates dirham	United Arab Emirates	CUC	Convertible peso	Cuba ¹	GMD	Dalasi	Gambia
			CUP	Cuban peso	Cuba	GNF	Guinean franc	Guinea
AFN	Afghani	Afghanistan	CVE	Cabo Verde escudo	Cabo Verde	GTQ	Quetzal	Guatemala
ALL	Albanian lek	Albania	CZK	Czech koruna	Czechia	GYD	Guyana dollar	Guyana
AMD	Armenian dram	Armenia						
ANG	Netherlands Antillean guilder	Curaçao Sint Maarten (southern part)	DJF	Djibouti franc	Djibouti	HKD	Hong Kong dollar	Hong Kong
AOA	Kwanza	Angola	DKK	Danish krone	Denmark Faroe Islands Greenland	HNL	Lempira	Honduras
ARS	Argentine peso	Argentina	DOP	Dominican peso	Dominican Republic	HRK	Kuna	Croatia
AUD	Australian dollar	Australia Christmas Island Cocos Islands Kiribati Nauru Norfolk Island Tuvalu	DZD	Algerian dinar	Algeria	HTG	Gourde	Haiti
						HUF	Hungarian forint	Hungary
AWG	Aruban florin	Aruba	EGP	Egyptian pound	Egypt	IDR	Indonesian rupiah	Indonesia
AZN	Azerbaijan manat	Azerbaijan	ERN	Nakfa	Eritrea	ILS	New Israeli sheqel	Israel
			ETB	Birr	Ethiopia	INR	Indian rupee	India Bhutan
BAM	Convertible marka	Bosnia and Herzegovina	EUR	Euro	Austria Belgium Cyprus Estonia Finland France Germany Greece Ireland Italy Latvia Lithuania Luxembourg Malta Netherlands Portugal Slovakia Slovenia Spain	IQD	Iraqi dinar	Iraq
BBD	Barbados dollar	Barbados				IRR	Iranian rial	Iran, Islamic Republic of
BDT	Taka	Bangladesh				ISK	Icelandic krona	Iceland
BGN	Bulgarian lev	Bulgaria				JMD	Jamaican dollar	Jamaica
BHD	Bahraini dinar	Bahrain				JOD	Jordanian dinar	Jordan
BIF	Burundi franc	Burundi				JPY	Japanese yen	Japan
BMD	Bermudian dollar	Bermuda						
BND	Brunei dollar	Brunei Darussalam				KES	Kenya shilling	Kenya
BOB	Boliviano	Bolivia, Plurinational State of				KGS	Kyrgyz som	Kyrgyzstan
BRL	Brazilian real	Brazil				KHR	Riel	Cambodia
BSD	Bahamian dollar	Bahamas				KMF	Comorian franc	Comoros
BTN	Ngultrum	Bhutan				KPW	North Korean won	Korea, Democratic People's Republic of
BWP	Pula	Botswana				KRW	South Korean won	Korea, Republic of
BYN	Belarusian rouble	Belarus ¹				KWD	Kuwaiti dinar	Kuwait
BYR	Belarusian rouble	Belarus				KYD	Cayman Islands dollar	Cayman Islands
BZD	Belize dollar	Belize				KZT	Tenge	Kazakhstan
			FJD	Fiji dollar	Fiji			
CAD	Canadian dollar	Canada	FKP	Falkland Islands pound	Falkland Islands (Islas Malvinas)	LAK	Kip	Lao People's Democratic Republic
CDF	Congo franc	Congo, Democratic Republic of the				LBP	Lebanese pound	Lebanon
CHF	Swiss franc	Switzerland Liechtenstein	GBP	Pound sterling	United Kingdom Guernsey Isle of Man Jersey	LKR	Sri Lanka rupee	Sri Lanka
CLP	Chilean peso	Chile				LRD	Liberian dollar	Liberia
CNY	Chinese yuan renminbi	China	GEL	Lari	Georgia	LSL	Loti	Lesotho
COP	Colombian peso	Colombia	GHS	Ghana cedi	Ghana	LYD	Libyan dinar	Libya
CRC	Costa Rican colón	Costa Rica	GIP	Gibraltar pound	Gibraltar			

* Extracted and compiled from ISO communications. ¹ See Explanatory notes on individual countries, p 57 ff.

■ Explanatory notes

■ Euro foreign exchange reference rates of the European Central Bank

On 1 January 1999, 11 member states of the European Union initially adopted the euro as their single currency. On 1 January 2001, Greece joined European Monetary Union, followed by Slovenia on 1 January 2007, Cyprus and Malta on 1 January 2008, Slovakia on 1 January 2009, Estonia on 1 January 2011, Latvia on 1 January 2014 and Lithuania on 1 January 2015 (for details, see Table I 1, p 7).

Since the introduction of the euro, there has been no autonomous foreign exchange market for the currencies replaced by the euro; the euro alone is quoted against non-euro-area currencies, such as the US dollar and the Japanese yen.

Since 4 January 1999, the ECB has published euro foreign exchange reference rates for selected currencies each working day. These rates are calculated on the basis of the daily concertation between central banks which takes place at 14.15 CET. Only one reference rate, ie the middle rate, is established by this procedure. The ECB changed the publication time of the euro foreign exchange reference rates from around 14.30 CET to around 16.00 CET with effect from 1 July 2016.

■ Effective exchange rates of the euro

The indices of the nominal effective exchange rates of the euro are designed to measure, in aggregated form, the impact of changes in exchange rates on price competitiveness in the euro-area industrial sector. They are calculated by the ECB on the basis of weighted averages of the bilateral euro exchange rates against the currencies of selected trading partners of the euro area, with 1999 Q1 = 100. An increase in the index rate indicates an appreciation of the euro and thus, taken in isolation, a decrease in the price competitiveness of the domestic economy. The weights are based on trade in manufactured goods (SITC 5-8) and also capture third-market effects.

The table entitled "Overall trade weights used in the calculation of the effective exchange rates (EER) of the euro" on

page 52 shows trading partners' membership of the EER-19 and EER-38 groups as well as their percentage weights. To prevent breaks in the time series, the indices of two consecutive weighting periods are chain-linked beyond the end of the first period. For information on the revision of trade weights carried out in August 2015, see the ECB's website (www.ecb.europa.eu/stats/exchange/effective/html/index.en.html).

The real effective exchange rates of the euro additionally take account of the differences in price movements between the groups of countries concerned. If the current price indices for determining the real effective exchange rates based on consumer price indices are not yet available, estimates are used for the calculation.

For further information on the calculation method, see the ECB's methodological notes relating to the daily nominal effective exchange rate of the euro and ECB Occasional Paper No 134 of June 2012, which can be downloaded from the ECB's website (www.ecb.europa.eu).

■ Indicators of the German economy's price competitiveness

The calculation of indicators of the German economy's price competitiveness, shown as a *memo item*, is methodologically consistent with the ECB's procedure for determining the effective exchange rates of the euro (see Deutsche Bundesbank, *Monthly Report*, November 2001, pp 50-53, May 2007, pp 31-35 and August 2015, pp 40-42).

The indicators are broken down into three groups in Table III 1 (p 18).

The group of 26 selected industrialised countries comprises the respective euro-area countries (see Table I 1, p 7) as well as Canada, Denmark, Japan, Norway, Sweden, Switzerland, the United Kingdom and the United States.

The group of 37 countries comprises the euro-area countries and the EER-19 group. The group of 56 countries consists of the euro-area countries as well as the EER-38 group.

Overall trade weights used in the calculation of the effective exchange rates (EER) of the euro^o

Figures in %

As of August 2015

Trading partner	Calculation period for weights											
	EER-19						EER-38					
	1995 to 1997	1998 to 2000	2001 to 2003	2004 to 2006	2007 to 2009	2010 to 2012	1995 to 1997	1998 to 2000	2001 to 2003	2004 to 2006	2007 to 2009	2010 to 2012
	Period of use of weights											
	Up to end of 1997	1998 to 2000	2001 to 2003	2004 to 2006	2007 to 2009	From 2010	Up to end of 1997	1998 to 2000	2001 to 2003	2004 to 2006	2007 to 2009	From 2010
EER-38 group							100	100	100	100	100	100
EER-19 group	100	100	100	100	100	100						
Australia	0.95	0.87	0.90	0.92	0.91	0.96	0.77	0.71	0.74	0.75	0.73	0.76
Bulgaria	0.32	0.36	0.45	0.55	0.63	0.62	0.26	0.30	0.37	0.44	0.51	0.49
Canada	1.81	1.91	1.91	1.77	1.63	1.52	1.47	1.57	1.57	1.44	1.32	1.21
China	5.48	6.47	9.21	13.82	18.37	22.18	4.44	5.32	7.58	11.20	14.78	17.67
Croatia	0.66	0.54	0.61	0.65	0.63	0.47	0.54	0.44	0.50	0.53	0.51	0.37
Czechia	2.71	2.91	3.65	4.19	5.07	5.18	2.20	2.39	3.01	3.40	4.08	4.12
Denmark	3.19	2.84	2.80	2.72	2.65	2.17	2.59	2.34	2.30	2.20	2.13	1.73
Hong Kong	2.43	2.08	1.87	1.87	1.67	1.78	1.97	1.71	1.54	1.52	1.35	1.42
Hungary	1.88	2.62	3.02	3.16	3.17	2.85	1.52	2.16	2.48	2.56	2.55	2.27
Japan	11.87	10.76	9.21	8.22	7.14	6.69	9.63	8.85	7.58	6.66	5.75	5.33
Korea, Republic of	3.58	3.30	3.41	3.99	3.99	3.97	2.91	2.72	2.81	3.23	3.21	3.16
Norway	1.59	1.42	1.27	1.31	1.33	1.19	1.29	1.17	1.05	1.06	1.07	0.95
Poland	2.92	3.37	3.97	4.88	6.24	6.40	2.37	2.78	3.27	3.95	5.02	5.10
Romania	0.87	0.98	1.36	1.71	1.96	2.08	0.70	0.80	1.12	1.39	1.57	1.66
Singapore	2.26	1.93	1.69	1.74	1.48	1.58	1.84	1.59	1.39	1.41	1.19	1.26
Sweden	5.87	5.34	4.79	5.08	4.84	4.52	4.77	4.39	3.95	4.12	3.90	3.60
Switzerland	8.28	7.27	7.09	6.63	6.61	6.91	6.72	5.98	5.84	5.37	5.32	5.51
United Kingdom	22.67	21.46	20.13	17.61	14.88	12.99	18.40	17.65	16.58	14.26	11.97	10.34
United States	20.66	23.55	22.65	19.15	16.81	15.93	16.77	19.37	18.65	15.51	13.52	12.68
Additional countries in the EER-38 group												
Algeria							0.31	0.28	0.35	0.35	0.38	0.40
Argentina							0.57	0.49	0.27	0.26	0.30	0.38
Brazil							1.50	1.38	1.21	1.24	1.38	1.43
Chile							0.34	0.31	0.32	0.42	0.42	0.41
China (Taiwan)							2.28	2.38	2.09	1.83	1.50	1.52
Iceland							0.05	0.06	0.07	0.08	0.09	0.09
India							1.46	1.35	1.46	1.76	2.15	2.45
Indonesia							1.01	0.78	0.73	0.61	0.62	0.69
Israel							1.06	1.01	0.88	0.72	0.67	0.68
Malaysia							1.21	1.15	1.17	1.13	1.05	1.02
Mexico							0.87	1.18	1.28	1.19	1.20	1.33
Morocco							0.63	0.62	0.57	0.61	0.58	0.59
New Zealand							0.13	0.11	0.13	0.13	0.11	0.10
Philippines							0.40	0.52	0.50	0.42	0.30	0.28
Russian Federation							2.49	1.83	2.22	2.98	3.47	3.49
South Africa							0.94	0.89	0.92	1.03	0.95	0.98
Thailand							1.20	0.99	1.02	1.04	1.10	1.12
Turkey							2.16	2.21	2.30	3.04	3.13	3.26
Venezuela, Bolivarian Republic of							0.23	0.22	0.18	0.16	0.15	0.15

^o Figures have been rounded. The ECB also publishes weighting schemes and indicators for a group of 12 countries as well as for a group of 18 countries.

■ Overview of world currencies

The end-of-month exchange rates listed in Table IV 1 (pp 20-42) are the latest rates known to us at the end of a given month; in general, they have been taken from reliable sources (central bank or a commercial bank in the country in question). However, we do not know whether transactions were actually executed at those rates in all cases. If no exchange rates for euro or US dollar are available from a country, we have calculated comparative values at the exchange rates or parities available and identified them with a "V" in the column "type of rate".

The previous-year average specified in this table was basically calculated from all of the rates or comparable figures available to us.

In addition to the generally accepted currency name and its abbreviation, the three-character alphabetical ISO currency code is specified (see Table VII, pp 48-49). This was developed by the International Organization for Standardization as ISO Standard 4217. This currency code is designed to enable uniformly abbreviated designations for currency-related values to be used in international financial transactions. This applies, inter alia, to all external payments under the SWIFT system. The ISO code should not, however, be confused with the official national currency abbreviations.

The numerical country code is based on the list of countries for foreign trade and payments statistics of the Federal Republic of Germany, which can be found on the Deutsche Bundesbank's website under Service / Reporting systems / External sector / Code lists.

■ Value of the special drawing right

With the introduction of the Chinese yuan renminbi on 1 October 2016, the value of an SDR (ISO code XDR) is defined as the sum of the values of fixed amounts of five currencies.

The composition of the currency basket as well as the weight and amounts of the currency units in the basket are reviewed every five years. In the most recently concluded review (November 2015), the Executive Board of the IMF decided that the Chinese yuan renminbi will be included in the SDR basket as the fifth currency. With effect from 1 October 2016, the SDR basket comprises the five fixed currency amounts shown in column (a). These were fixed on 30 September 2016 on the basis of the average exchange rates in the London spot exchange market in the

third quarter of 2016 and of the initial new percentage weights (column (b)) such that, on 30 September 2016, the new SDR value corresponded with the value calculated on the basis of the old basket (see <http://www.imf.org/external/np/pp/eng/2016/093016.pdf>).

	(a)	(b)
US dollar	0.58252	41.73
Euro	0.38671	30.93
Chinese yuan renminbi	1.0174	10.92
Japanese yen	11.900	8.33
Pound sterling	0.085946	8.09

The above-mentioned currency amounts are converted into US dollar amounts on the basis of the market rates on every business day. In principle, the middle rates between the buying and selling rates fixed at noon in the London spot exchange market are used as market rates. The sum of the US dollar equivalents of the currency amounts yields the value of the SDR expressed in terms of the US dollar. Values of the SDR in terms of all other currencies are ascertained, using the value for the SDR in terms of the US dollar, from the representative market exchange rates of these currencies vis-à-vis the US dollar; for the euro, it is the reference exchange rate of the European Central Bank.

The current criteria for inclusion were adopted by the Executive Board in 2000. They establish that the SDR basket comprises the currencies that are issued by member countries or monetary unions whose exports had the largest value over a five-year period, and have been determined by the IMF to be "freely usable". In the case of a monetary union, exports of goods and services do not cover cross-border trade between the members of the monetary union.

The export criterion, which acts as a "gateway", aims to ensure that currencies that qualify for the basket are those issued by member countries or monetary unions that play a central role in the global economy. This criterion has been part of the SDR methodology since the 1970s.

The requirement for currencies in the SDR basket to be also freely usable is the second criterion, and it was incorporated in 2000 to reflect formally the importance of financial transactions for the purposes of valuing the SDR basket.

A "freely usable" currency is defined in the IMF's Articles of Agreement to mean a currency that the IMF determines is, in fact, widely used to make payments for international

transactions, and is widely traded in the major exchange markets. The concept of a freely usable currency concerns the actual international use and trading of a currency, and is different from whether a currency is either freely floating or fully convertible. A currency can be widely used and widely traded even if it is subject to some capital account restrictions. On the other hand, a currency that is fully convertible is not necessarily widely used and widely traded.

The formula adopted by the IMF for determining currency weights for the SDR basket assigns equal shares to the currency issuer's exports and a composite financial indicator. The financial indicator comprises, in equal shares, official reserves denominated in the member country's (or monetary union's) currency that are held by other monetary authorities that are not issuers of the relevant currency, foreign exchange turnover in the relevant currency, and the sum of all outstanding international bank liabilities and international debt securities denominated in the currency.

The IMF uses the SDR as unit of account for its transactions and for all conversions into national currencies. In addition, the SDR is used by public and private bodies in Germany and abroad, inter alia as the "successor" to those units of account which had hitherto been defined in terms of gold (eg gold francs).

Global exchange rate arrangements and monetary policy framework

The overview of the exchange rate arrangements and monetary policy framework as at the end of April 2016 (see Table VI, pp 46-47) is based on the IMF's *Annual Report on Exchange Arrangements and Exchange Restrictions 2016*, which can be purchased from the IMF (<http://www.imfbookstore.org>).

The IMF's classification system is generally based on the actual, *de facto* exchange rate regimes identified and operating in member countries. These may differ from the official, *de jure* exchange rate arrangements in these countries.

Exchange rate arrangements are primarily classified on the basis of the degree to which the exchange rate is determined by the market rather than by official action, with market-determined exchange rates being on the whole more flexible. The IMF's system distinguishes between four major categories. The category "hard pegs" (fixed exchange rate anchors) is subdivided into exchange ar-

rangements with no separate legal tender and currency board arrangements (institutionalised, unilateral exchange rate peg). The category "soft pegs" (less stringent exchange rate anchors) comprises conventional fixed peg arrangements (exchange rate guarantee but no irrevocable parity), stabilised arrangements (exchange rate within a narrow band without any political obligation), crawling pegs (moving central rate without a band), crawl-like arrangements (moving central rate with an annual minimum rate of change) and pegged exchange rates within horizontal bands. The category "floating regimes" (market-determined rates) distinguishes between free-floating rates (intervention in exceptional cases only) and floating rates (more frequent modes of intervention). All other exchange rate arrangements are grouped under the category "residual" (other managed arrangements). The classification system presents members' exchange rate arrangements against alternative monetary policy frameworks in order to highlight the role of the exchange rate in broad economic policy and to illustrate that different exchange rate arrangements can be consistent with similar monetary frameworks.

The monetary policy frameworks listed are as follows.

Exchange rate anchor

The monetary authority buys or sells foreign exchange to maintain the exchange rate at its predetermined level or within a range. The exchange rate thus serves as the nominal anchor or intermediate target of monetary policy. These frameworks are associated with exchange rate arrangements with no separate legal tender, currency board arrangements, pegs (or stabilised arrangements) with or without bands, crawling pegs (or crawl-like arrangements) and other managed arrangements.

Monetary aggregate target

The monetary authority uses its instruments to achieve a target growth rate for a monetary aggregate, such as reserve money, M1 or M2, and the targeted aggregate becomes the nominal anchor or intermediate target of monetary policy.

Inflation-targeting framework

This involves the public announcement of numerical targets for inflation, with an institutional commitment by the monetary authority to achieve these targets, typically over a medium-term horizon. Additional key features normally include increased communication with the public and the markets about the plans and objectives of monetary policymakers and increased accountability of the central bank for achieving its inflation objectives. Monetary policy decisions are often guided by the deviation of forecasts of

future inflation from the announced inflation target, with the inflation forecast acting (implicitly or explicitly) as the intermediate target of monetary policy.

Other

The country has no explicitly stated nominal anchor, but rather monitors various indicators in conducting monetary policy. This category is also used when no relevant information on the country is available.

Explanatory notes on individual countries

Angola

There is a black market in which, according to financial information providers, the exchange rate was at 600 kwanza to the US dollar at the beginning of December 2016.

Bangladesh

Units of account for larger amounts: 1 lakh (in digits: 1,00,000) = 100,000 taka; 1 crore (in digits: 1,00,00,000) = 100 lakh = 10,000,000 taka.

Belarus

With effect from 1 July 2016, a currency changeover took place at the ratio of 10,000 old Belarusian rouble (BYR) = 1 new Belarusian rouble (BYN); the (old) Belarusian rouble remained legal tender in this ratio until the end of December 2016.

The currency changeover did not entail any appreciation or depreciation against other currencies.

Benin

Benin, Burkina Faso, Côte d'Ivoire, Guinea-Bissau, Mali, Niger, Senegal and Togo all belong to the West African Economic and Monetary Union (UEMOA = Union Économique et Monétaire Ouest Africaine). The responsible monetary authority is the "Banque Centrale des Etats de l'Afrique de l'Ouest", whose CFA franc (F.CFA = Franc de la Communauté Financière Africaine) is legal tender only in the aforementioned countries.

Bhutan

The Indian rupee is likewise legal tender alongside the Bhutanese ngultrum (convertible at par).

Brunei Darussalam

Under an agreement between Brunei Darussalam and Singapore, the Singapore dollar (convertible at par) is also accepted as legal tender.

Burkina Faso

See Explanatory notes on Benin.

Cameroon

Cameroon, the Central African Republic, Chad, Congo, Equatorial Guinea and Gabon all belong to the Central African Economic and Monetary Community (CEMAC = Communauté Économique et Monétaire de l'Afrique Centrale). The responsible monetary authority is the "Banque des Etats de l'Afrique Centrale", whose CFA franc (F.CFA = Franc de la Coopération Financière en Afrique Centrale) is legal tender only in the aforementioned countries.

Central African Republic

See Explanatory notes on Cameroon.

Chad

See Explanatory notes on Cameroon.

Congo

See Explanatory notes on Cameroon.

Cook Islands

The New Zealand dollar is also legal tender alongside the Cook Islands dollar (convertible at par).

Côte d'Ivoire

See Explanatory notes on Benin.

Cuba

Alongside the convertible peso (CUC), which is primarily intended for use by foreigners, there is the Cuban peso (CUP), which is generally used to pay wages and salaries.

In its national accounts, the Cuban government has set the CUC to CUP exchange rate at 1:1. In reality, Cuban pesos can only be exchanged for convertible pesos at a considerable discount.

With effect from 18 March 2005, the Cuban central bank decreed (Acuerdo no 13/2005) that the exchange rate for currency conversion by individuals would be as follows.

The government foreign exchange bureaus (CADECA - casas de cambio) will pay CUP 24 per CUC or USD. Individuals wanting to purchase CUC must, as of that date, pay CUP 25 per CUC.

The euro is also an accepted form of payment in some tourist locations.

Egypt

On 3 November 2016, the de facto peg of the Egyptian pound to the US dollar was abandoned.

We recorded the following exchange rates (buying/selling) from the Central Bank of Egypt:

2 November 2016 USD 1 = EGP 8.8583 / 8.8800
EUR 1 = EGP 9.8274 / 9.8524

3 November 2016 USD 1 = EGP 13.5277 / 14.2757
EUR 1 = EGP 15.0076 / 15.8389.

Calculated using these exchange rates, the Egyptian pound experienced a devaluation of 36.2% against the US dollar and the euro (on average).

El Salvador

The US dollar is likewise legal tender alongside the El Salvador colón.

Equatorial Guinea

See Explanatory notes on Cameroon.

Eritrea

With effect from 1 December 2016, the fixed exchange rate between the nakfa and the US dollar of USD 1 = ERN 15.00 / 15.75 was changed to USD 1 = ERN 15.00 / 15.15.

Gabon

See Explanatory notes on Cameroon.

Greece

Greece imposed capital controls by way of a decree dated 28 June 2015; these controls have been renewed and amended several times.

Guinea-Bissau

See Explanatory notes on Benin.

India

Units of account for larger amounts: 1 lakh (in digits: 1,00,000) = 100,000 rupees; 1 crore (in digits: 1,00,00,000) = 100 lakh = 10,000,000 rupees.

Iran, Islamic Republic of

Alongside the official, published exchange rate, there is a different, bureau de change rate. According to the German Embassy in Tehran, it was 40,300 Iranian rials to the US dollar and 42,900 Iranian rials to the euro at the end of December 2016.

The term "toman" (an old Persian currency) is also used to denote 10 Iranian rials.

Kenya

The term "Kenya pound" is a unit of account equivalent to 20 Kenya shillings.

Lesotho

The South African rand is likewise legal tender alongside the loti.

Liberia

The US dollar is likewise legal tender alongside the Liberian dollar.

Macao

The Hong Kong dollar, to which the pataca is pegged at a rate of HKD 100 = MOP 103, is in circulation as a common currency alongside the pataca.

Mali

See Explanatory notes on Benin.

Namibia

The South African rand is likewise legal tender alongside the Namibia dollar.

New Caledonia

CFP was originally the abbreviation for "Colonies Françaises du Pacifique" and is still used as a currency symbol (in connection with the franc).

Niger

See Explanatory notes on Benin.

Nigeria

There is a black market in which, according to press reports, the exchange rate was over 480 naira to the US dollar at the end of December 2016.

Panama

The US dollar is legal tender alongside the balboa, which is in circulation exclusively in coin form.

Sao Tome and Principe

The unit of account for 1,000 dobras is 1 conto.

Senegal

See Explanatory notes on Benin.

Singapore

Under an agreement between Singapore and Brunei Darussalam, the Brunei dollar (convertible at par) is also accepted as legal tender.

Somalia

No exchange rates are available for the Somali shilling.

South Sudan

No exchange rates have been available for the South Sudanese pound since the end of July 2016

Swaziland

The South African rand is likewise legal tender alongside the lilangeni.

Togo

See Explanatory notes on Benin.

United Arab Emirates

The United Arab Emirates include Abu Dhabi, Ajman, Dubai, Fujairah, Ras al Khaimah, Sharjah and Umm al Qaiwain.

United Kingdom

In Scotland and Northern Ireland, a small volume of banknotes issued by commercial banks in these territories is in circulation alongside notes issued by the Bank of England.

Venezuela, Bolivarian Republic of

On 10 March 2016, a new system of foreign exchange controls came into force. The system consists of two exchange rates: one fixed by the state (DIPRO) and a complementary exchange rate (DICOM), which is a controlled fluctuating rate.

Exchange rate application

DIPRO

For priority goods, services and remittances as well as for the purchase of food, medicine and basic goods and for the settlement of public external debt. In addition, for payments made in connection with transactions and investments in the areas of health care, sports, culture and sciences and other particularly urgent cases such as payments for stays abroad for academic purposes.

DICOM

For all transactions that are not included in the DIPRO (eg private trips abroad, applications for foreign currency payments by credit card, sales of foreign currency by diplomatic missions and consulates as well as the sale of foreign currency generated through the export and sale of mineral oil products).

There is still a black market in which, according to press reports, the exchange rate was 4,400 bolivar to the US dollar at the beginning of December 2016.