



Exchange rate statistics

March 2023

Statistical Series

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■ Contents

■ I. Euro area and exchange rate stability convergence criterion

1. Euro area countries and irrevocable euro conversion rates in the third stage of Economic and Monetary Union	7
2. Central rates and intervention rates in Exchange Rate Mechanism II	7

■ II. Euro foreign exchange reference rates of the European Central Bank

1. End-of-month and daily rates	8
2. Annual and monthly averages	10
3. End-of-year rates and annual averages	12
4. Exchange rates of major currencies (chart)	14

■ III. Effective exchange rates

1. Effective exchange rates of the euro and indicators of the German economy's price competitiveness (chart)	15
2. Effective exchange rates of the euro	16
3. Indicators of the German economy's price competitiveness	17

■ IV. Overview of world currencies

1. Currencies and exchange rates in individual countries	18
2. Exchange rates of the US dollar against major currencies (chart)	41
3. Currencies in selected territories and states in which the currency of another country is legal tender	42

■ V. Value of the special drawing right in selected currencies 43

■ VI. Global exchange rate arrangements and Monetary policy framework 44

■ VII. ISO currency codes 46

■ Explanatory notes

Euro foreign exchange reference rates of the European Central Bank	48
Effective exchange rates of the euro	48
Indicators of the German economy's price competitiveness	48
Overview of world currencies	50
Value of the special drawing right	50
Global exchange rate arrangements and monetary policy framework	51

■ Explanatory notes on individual countries	53
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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
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	Data unknown, not to be published or not meaningful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 countries and irrevocable euro conversion rates in the third stage of 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	
2023 January 1	Croatia	Croatian kuna	HRK	7.53450	1208/2022	

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	13 July 2020
Denmark	Upper rate	7.62824	7.62824	7.62824	7.62824	7.62824	7.62824	7.62824	7.62824
Danish krone	Central rate	¹ 7.46038	7.46038	7.46038	7.46038	7.46038	7.46038	7.46038	7.46038
DKK	Lower rate	7.29252	7.29252	7.29252	7.29252	7.29252	7.29252	7.29252	7.29252
Bulgaria	Upper rate	–	–	–	–	–	–	–	2.24920
Bulgarian lev	Central rate	–	–	–	–	–	–	–	² 1.95583
BGN	Lower rate	–	–	–	–	–	–	–	1.66246
Greece	Upper rate	406.075	³ 391.863	–	–	–	–	–	–
Greek drachma	Central rate	¹ 353.109	³ 340.750	–	–	–	–	–	–
GRD	Lower rate	300.143	289.638	–	–	–	–	–	–
Estonia	Upper rate	–	–	17.9936	17.9936	17.9936	17.9936	17.9936	–
Estonian kroon	Central rate	–	–	15.6466	15.6466	15.6466	15.6466	⁴ 15.6466	–
EEK	Lower rate	–	–	13.2996	13.2996	13.2996	13.2996	13.2996	–
Lithuania	Upper rate	–	–	3.97072	3.97072	3.97072	3.97072	3.97072	–
Lithuanian litas	Central rate	–	–	3.45280	3.45280	3.45280	3.45280	⁵ 3.45280	–
LTL	Lower rate	–	–	2.93488	2.93488	2.93488	2.93488	2.93488	–
Slovenia	Upper rate	–	–	275.586	275.586	275.586	–	–	–
Slovenian tolar	Central rate	–	–	239.640	239.640	⁶ 239.640	–	–	–
SIT	Lower rate	–	–	203.694	203.694	203.694	–	–	–
Cyprus	Upper rate	–	–	–	0.673065	0.673065	0.673065	–	–
Cyprus pound	Central rate	–	–	–	0.585274	0.585274	⁷ 0.585274	–	–
CYP	Lower rate	–	–	–	0.497483	0.497483	0.497483	–	–
Latvia	Upper rate	–	–	–	0.808225	0.808225	0.808225	0.808225	–
Latvian lats	Central rate	–	–	–	0.702804	0.702804	0.702804	⁸ 0.702804	–
LVL	Lower rate	–	–	–	0.597383	0.597383	0.597383	0.597383	–
Malta	Upper rate	–	–	–	0.493695	0.493695	0.493695	–	–
Maltese lira	Central rate	–	–	–	0.429300	0.429300	⁷ 0.429300	–	–
MTL	Lower rate	–	–	–	0.364905	0.364905	0.364905	–	–
Slovakia	Upper rate	–	–	–	–	44.2233	40.7588	34.6449	–
Slovak koruna	Central rate	–	–	–	–	38.4550	35.4424	⁹ 30.1260	–
SKK	Lower rate	–	–	–	–	32.6868	30.1260	25.6071	–
Croatia	Upper rate	–	–	–	–	–	–	–	8.66468
Croatian kuna	Central rate	–	–	–	–	–	–	–	¹⁰ 7.53450
HRK	Lower rate	–	–	–	–	–	–	–	6.40433

Source: ECB. * One prerequisite before an EU Member State can join the euro area is that its currency must have observed the normal fluctuation margins of 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 According to the EU communiqué of 10 July 2020. ³ Until 31 December 2000; accession to the euro area on 1 January 2001. ⁴ Until 31 December 2010; accession to

the euro area on 1 January 2011. ⁵ Until 31 December 2014; accession to the euro area on 1 January 2015. ⁶ Until 31 December 2006; accession to the euro area on 1 January 2007. ⁷ Until 31 December 2007; accession to the euro area on 1 January 2008. ⁸ Until 31 December 2013; accession to the euro area on 1 January 2014. ⁹ Until 31 December 2008; accession to the euro area on 1 January 2009. ¹⁰ Until 31 December 2022; accession to the euro area on 1 January 2023.

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

1. End-of-month and daily rates

EUR 1 = CU ...

		EU member countries							
		Bulgaria	Croatia ¹	Czechia	Denmark	Hungary	Poland	Romania	Sweden
Period	Bulgarian lev BGN	Kuna HRK	Czech koruna CZK	Danish krone DKK	Hungarian forint HUF	Polish zloty PLN	Romanian leu RON	Swedish krona SEK	
2022 Feb.	1.9558	7.5655	24.997	7.4404	369.72	4.6835	4.9484	10.6055	
Mar.	1.9558	7.5740	24.375	7.4379	369.77	4.6531	4.9463	10.3370	
Apr.	1.9558	7.5667	24.605	7.4415	378.71	4.6780	4.9479	10.2958	
May	1.9558	7.5410	24.714	7.4394	396.20	4.5805	4.9408	10.5053	
June	1.9558	7.5307	24.739	7.4392	397.04	4.6904	4.9464	10.7300	
July	1.9558	7.5180	24.610	7.4438	404.80	4.7375	4.9343	10.3875	
Aug.	1.9558	7.5148	24.550	7.4371	402.80	4.7283	4.8595	10.6788	
Sep.	1.9558	7.5240	24.549	7.4365	422.18	4.8483	4.9490	10.8993	
Oct.	1.9558	7.5310	24.488	7.4444	409.65	4.7085	4.9143	10.9010	
Nov.	1.9558	7.5490	24.338	7.4366	408.40	4.6635	4.9245	10.9345	
Dec.	1.9558	7.5365	24.116	7.4365	400.87	4.6808	4.9495	11.1218	
2023 Jan.	1.9558	–	23.792	7.4388	390.91	4.7090	4.9210	11.3480	
Feb.	1.9558	–	23.497	7.4443	377.68	4.7125	4.9200	11.0780	
2023 Feb. 16	1.9558	–	23.685	7.4490	382.65	4.7765	4.9009	11.1420	
17	1.9558	–	23.715	7.4464	386.61	4.7773	4.9165	11.1983	
20	1.9558	–	23.693	7.4461	382.83	4.7435	4.9180	11.0620	
21	1.9558	–	23.730	7.4456	382.19	4.7478	4.9188	11.0098	
22	1.9558	–	23.669	7.4459	382.33	4.7443	4.9238	11.0163	
23	1.9558	–	23.686	7.4429	381.43	4.7438	4.9146	11.0579	
24	1.9558	–	23.643	7.4438	380.60	4.7205	4.9195	11.0030	
27	1.9558	–	23.619	7.4426	379.93	4.7160	4.9198	11.0595	
28	1.9558	–	23.497	7.4443	377.68	4.7125	4.9200	11.0780	
Mar. 1	1.9558	–	23.426	7.4431	373.58	4.6745	4.9174	11.1000	
2	1.9558	–	23.487	7.4417	374.63	4.6890	4.9223	11.1350	
3	1.9558	–	23.508	7.4412	378.71	4.7080	4.9235	11.1430	
6	1.9558	–	23.545	7.4423	377.00	4.7090	4.9205	11.1590	
7	1.9558	–	23.495	7.4426	377.38	4.6898	4.9178	11.2285	
8	1.9558	–	23.585	7.4412	379.87	4.6753	4.9113	11.2835	
9	1.9558	–	23.626	7.4421	379.10	4.6785	4.9150	11.3365	
10	1.9558	–	23.635	7.4425	383.65	4.6815	4.9143	11.3915	
13	1.9558	–	23.747	7.4444	390.95	4.6944	4.9168	11.4390	
14	1.9558	–	23.791	7.4447	391.50	4.6878	4.9218	11.2880	

		Other European and non-European countries							
		Australia	Brazil	Canada	China	Hong Kong	Iceland	India	Indonesia
Period	Australian dollar AUD	Brazilian real BRL	Canadian dollar CAD	Yuan (renminbi) CNY	Hong Kong dollar HKD	Icelandic krona ISK	Indian rupee INR	Indonesian rupiah IDR	
2022 Feb.	1.5508	5.7828	1.4264	7.0670	8.7514	141.80	84.5540	16,100.72	
Mar.	1.4829	5.3009	1.3896	7.0403	8.6918	142.00	84.1340	15,947.00	
Apr.	1.4699	5.1608	1.3426	6.9441	8.2703	137.80	80.6380	15,301.52	
May	1.4933	5.0965	1.3573	7.1402	8.4063	136.30	83.2310	15,580.15	
June	1.5099	5.4229	1.3425	6.9624	8.1493	138.90	82.1130	15,552.00	
July	1.4646	5.2739	1.3100	6.8705	8.0054	138.30	80.8820	15,155.56	
Aug.	1.4591	5.1482	1.3111	6.8947	7.8488	141.70	79.5465	14,849.93	
Sep.	1.5076	5.2584	1.3401	6.9368	7.6521	140.90	79.4250	14,863.26	
Oct.	1.5529	5.2694	1.3553	7.2380	7.7822	143.30	82.1035	15,489.55	
Nov.	1.5425	5.5063	1.4021	7.3437	8.0944	147.10	84.4215	16,271.81	
Dec.	1.5693	5.6386	1.4440	7.3582	8.3163	151.50	88.1710	16,519.82	
2023 Jan.	1.5476	5.5373	1.4570	7.3198	8.4898	153.10	88.6360	16,282.57	
Feb.	1.5760	5.5280	1.4411	7.3663	8.3351	152.30	87.7205	16,193.42	
2023 Feb. 16	1.5500	5.6090	1.4334	7.3351	8.3985	154.30	88.4574	16,193.38	
17	1.5560	5.5487	1.4366	7.3081	8.3349	154.10	88.0210	16,160.70	
20	1.5456	5.5162	1.4367	7.3191	8.3623	154.70	88.3060	16,178.69	
21	1.5517	5.5110	1.4351	7.3372	8.3645	154.10	88.2835	16,194.81	
22	1.5576	5.5008	1.4408	7.3367	8.3512	154.30	88.2380	16,178.12	
23	1.5551	5.4765	1.4366	7.3227	8.3291	152.70	87.6695	16,141.05	
24	1.5668	5.4633	1.4374	7.3398	8.2959	152.70	87.4845	16,098.17	
27	1.5739	5.4848	1.4334	7.3378	8.2818	152.30	87.3360	16,119.69	
28	1.5760	5.5280	1.4411	7.3663	8.3351	152.30	87.7205	16,193.42	
Mar. 1	1.5776	5.5535	1.4531	7.3349	8.3866	151.70	88.0848	16,273.43	
2	1.5773	5.5242	1.4448	7.3285	8.3244	151.10	87.5365	16,246.63	
3	1.5728	5.5248	1.4437	7.3326	8.3325	150.30	86.9185	16,256.46	
6	1.5807	5.5356	1.4493	7.3802	8.3570	149.70	87.1445	16,326.06	
7	1.6002	5.5224	1.4552	7.3975	8.3719	149.90	87.2625	16,403.79	
8	1.5978	5.4510	1.4499	7.3315	8.2777	149.90	86.4210	16,290.52	
9	1.5965	5.4202	1.4574	7.3515	8.2848	149.90	86.6215	16,294.30	
10	1.6064	5.5037	1.4643	7.3594	8.3095	150.10	86.9375	16,402.95	
13	1.6066	5.6256	1.4745	7.3413	8.3963	150.90	88.0460	16,497.90	
14	1.6052	5.6136	1.4689	7.3758	8.4248	151.10	88.4310	16,492.99	

* See Explanatory notes, p. 48. ¹ Accession to the euro area on 1 January 2023.

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

1. End-of-month and daily rates (cont'd)

EUR 1 = CU ...

Other European and non-European countries (cont'd)									
	Israel	Japan	Korea, Republic of	Malaysia	Mexico	New Zealand	Norway	Philippines	
Period	New shekel ILS	Japanese yen JPY	South Korean won KRW	Malaysian ringgit MYR	Mexican peso MXN	New Zealand dollar NZD	Norwegian krone NOK	Philippine peso PHP	
2022 Feb.	3.6300	129.31	1,347.62	4.7019	22.9011	1.6628	9.9465	57.432	
Mar.	3.5243	135.17	1,347.37	4.6677	22.0903	1.6014	9.7110	57.514	
Apr.	3.4993	137.01	1,326.71	4.5886	21.4181	1.6119	9.7525	55.200	
May	3.5746	137.36	1,329.32	4.6907	20.9870	1.6459	10.0983	56.323	
June	3.6392	141.54	1,351.60	4.5781	20.9641	1.6705	10.3485	57.150	
July	3.4714	136.42	1,329.40	4.5386	20.6745	1.6283	9.8773	56.375	
Aug.	3.3399	138.72	1,342.79	4.4755	20.2044	1.6322	9.9388	56.153	
Sep.	3.4759	141.01	1,400.69	4.5201	19.6393	1.7177	10.5838	57.276	
Oct.	3.4933	147.40	1,416.12	4.6873	19.7122	1.7099	10.3028	57.800	
Nov.	3.5691	144.28	1,365.14	4.6147	20.0111	1.6634	10.2648	58.697	
Dec.	3.7554	140.66	1,344.09	4.6984	20.8560	1.6798	10.5138	59.320	
2023 Jan.	3.7675	141.27	1,338.90	4.6211	20.3961	1.6858	10.9083	59.192	
Feb.	3.8821	145.23	1,401.84	4.7653	19.4480	1.7216	10.9713	58.760	
2023 Feb. 16	3.7907	143.31	1,376.52	4.7123	19.8720	1.7033	10.9513	59.011	
17	3.7850	143.18	1,383.32	4.7090	19.7313	1.7123	11.0150	58.831	
20	3.8032	143.09	1,384.38	4.7291	19.6555	1.7087	10.9683	58.675	
21	3.8859	143.76	1,387.03	4.7268	19.6085	1.7092	10.9468	58.684	
22	3.8860	143.24	1,386.99	4.7275	19.5976	1.7066	10.9665	58.648	
23	3.8401	143.32	1,376.59	4.7071	19.4512	1.7039	10.9545	58.351	
24	3.8916	143.55	1,387.18	4.6883	19.5027	1.7109	10.9370	58.045	
27	3.8742	143.88	1,396.00	4.7266	19.3777	1.7185	10.9635	58.596	
28	3.8821	145.23	1,401.84	4.7653	19.4480	1.7216	10.9713	58.760	
Mar. 1	3.8729	144.82	1,389.03	4.7784	19.4883	1.7048	11.0365	58.762	
2	3.8674	145.07	1,392.26	4.7463	19.2513	1.7057	11.0850	58.343	
3	3.8913	144.55	1,383.24	4.7513	19.1997	1.7069	11.0610	58.128	
6	3.8230	144.64	1,381.49	4.7673	19.1419	1.7188	11.1109	58.510	
7	3.8504	145.21	1,392.09	4.7699	19.2065	1.7229	11.1935	58.721	
8	3.7861	144.70	1,389.60	4.7721	19.0229	1.7242	11.2205	58.377	
9	3.8079	143.82	1,395.00	4.7715	18.9237	1.7232	11.2715	58.237	
10	3.8118	144.70	1,398.24	4.7849	19.5428	1.7292	11.2900	58.400	
13	3.8814	141.96	1,399.19	4.8145	20.1933	1.7225	11.3893	58.872	
14	3.8937	144.09	1,402.36	4.8177	20.0920	1.7198	11.3350	59.134	

Other European and non-European countries (cont'd)									
	Russian Federation	Singapore	South Africa	Switzerland	Thailand	Turkey	United Kingdom	United States	
Period	Russian rouble RUB 1	Singapore dollar SGD	South African rand ZAR	Swiss franc CHF	Thai baht THB	Turkish lira TRY	Pound sterling GBP	US dollar USD	
2022 Feb.	115.4842	1.5201	17.2863	1.0336	36.593	15.4532	0.83550	1.1199	
Mar.	–	1.5028	16.1727	1.0267	36.911	16.2823	0.84595	1.1101	
Apr.	–	1.4545	16.6473	1.0229	36.026	15.6385	0.83908	1.0540	
May	–	1.4687	16.7450	1.0281	36.751	17.5817	0.85138	1.0713	
June	–	1.4483	17.0143	0.9960	36.754	17.3220	0.85820	1.0387	
July	–	1.4088	16.8627	0.9744	36.978	18.2472	0.83990	1.0198	
Aug.	–	1.3969	17.0667	0.9796	36.450	18.1849	0.86035	1.0000	
Sep.	–	1.4001	17.5353	0.9561	36.823	18.0841	0.88300	0.9748	
Oct.	–	1.4038	18.1736	0.9925	37.748	18.4562	0.86115	0.9914	
Nov.	–	1.4180	17.5768	0.9854	36.588	19.3333	0.86488	1.0376	
Dec.	–	1.4300	18.0986	0.9847	36.835	19.9649	0.88693	1.0666	
2023 Jan.	–	1.4268	18.9223	1.0032	35.787	20.3787	0.88073	1.0833	
Feb.	–	1.4314	19.5518	0.9947	37.485	20.0556	0.87701	1.0619	
2023 Feb. 16	–	1.4287	19.4066	0.9873	36.738	20.1685	0.88883	1.0700	
17	–	1.4231	19.2650	0.9896	36.741	20.0478	0.88888	1.0625	
20	–	1.4259	19.3471	0.9861	36.708	20.1379	0.88738	1.0674	
21	–	1.4272	19.4579	0.9853	36.897	20.1223	0.87925	1.0664	
22	–	1.4252	19.4048	0.9870	36.775	20.0908	0.87945	1.0644	
23	–	1.4249	19.4076	0.9892	36.848	20.0355	0.88140	1.0616	
24	–	1.4239	19.5243	0.9898	36.921	19.9565	0.88245	1.0570	
27	–	1.4246	19.4574	0.9929	37.045	19.9324	0.88073	1.0554	
28	–	1.4314	19.5518	0.9947	37.485	20.0556	0.87701	1.0619	
Mar. 1	–	1.4316	19.3769	0.9997	37.063	20.1798	0.88574	1.0684	
2	–	1.4307	19.3211	0.9988	36.943	20.0318	0.88785	1.0605	
3	–	1.4296	19.2837	0.9958	36.781	20.0628	0.88530	1.0615	
6	–	1.4324	19.3688	0.9947	36.761	20.1236	0.88630	1.0646	
7	–	1.4357	19.5975	0.9959	36.917	20.1736	0.88968	1.0665	
8	–	1.4269	19.5893	0.9931	37.002	19.9706	0.89074	1.0545	
9	–	1.4279	19.6578	0.9911	37.066	20.0026	0.88814	1.0554	
10	–	1.4349	19.4250	0.9824	37.115	20.0737	0.88258	1.0586	
13	–	1.4440	19.4545	0.9750	37.000	20.3131	0.88370	1.0706	
14	–	1.4428	19.3931	0.9784	37.010	20.3732	0.88054	1.0737	

* See Explanatory notes, p. 48. 1 The ECB has suspended the publication of the euro foreign exchange reference rate against the Russian rouble with effect from 2 March 2022.

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

2. Annual and monthly averages +

EUR 1 = CU ...

EU member countries								
	Bulgaria	Croatia ¹	Czechia	Denmark	Hungary	Poland	Romania	Sweden
Period	Bulgarian lev BGN	Kuna HRK	Czech koruna CZK	Danish krone DKK	Hungarian forint HUF	Polish zloty PLN	Romanian leu RON	Swedish krona SEK
2021	1.9558	7.5284	25.640	7.4370	358.52	4.5652	4.9215	10.1465
2022	1.9558	7.5349	24.566	7.4396	391.29	4.6861	4.9313	10.6296
2021 Jan.	1.9558	7.5653	26.141	7.4387	359.19	4.5333	4.8732	10.0952
Feb.	1.9558	7.5729	25.876	7.4367	358.15	4.4968	4.8750	10.0887
Mar.	1.9558	7.5783	26.178	7.4363	365.61	4.5991	4.8884	10.1692
Apr.	1.9558	7.5679	25.924	7.4367	360.58	4.5615	4.9231	10.1620
May	1.9558	7.5226	25.558	7.4362	353.65	4.5281	4.9250	10.1471
June	1.9558	7.4980	25.454	7.4364	349.94	4.5005	4.9238	10.1172
July	1.9558	7.5027	25.636	7.4373	357.26	4.5616	4.9255	10.1979
Aug.	1.9558	7.4960	25.470	7.4369	351.84	4.5687	4.9232	10.2157
Sep.	1.9558	7.4924	25.392	7.4361	352.51	4.5681	4.9471	10.1710
Oct.	1.9558	7.5135	25.496	7.4398	360.82	4.5909	4.9480	10.0557
Nov.	1.9558	7.5195	25.391	7.4373	364.50	4.6462	4.9494	10.0459
Dec.	1.9558	7.5201	25.246	7.4362	367.50	4.6137	4.9492	10.2726
2022 Jan.	1.9558	7.5247	24.470	7.4411	358.68	4.5522	4.9454	10.3579
Feb.	1.9558	7.5338	24.437	7.4408	356.97	4.5487	4.9458	10.5342
Mar.	1.9558	7.5711	25.007	7.4404	376.64	4.7522	4.9482	10.5463
Apr.	1.9558	7.5577	24.435	7.4391	374.87	4.6485	4.9442	10.3175
May	1.9558	7.5356	24.750	7.4405	384.45	4.6485	4.9460	10.4956
June	1.9558	7.5252	24.719	7.4392	396.66	4.6471	4.9444	10.6005
July	1.9558	7.5185	24.594	7.4426	404.10	4.7682	4.9396	10.5752
Aug.	1.9558	7.5138	24.568	7.4393	402.10	4.7233	4.8943	10.5021
Sep.	1.9558	7.5222	24.576	7.4366	404.19	4.7414	4.9097	10.7840
Oct.	1.9558	7.5298	24.528	7.4389	418.31	4.8040	4.9259	10.9503
Nov.	1.9558	7.5426	24.369	7.4387	406.68	4.6964	4.9142	10.8798
Dec.	1.9558	7.5448	24.269	7.4377	407.68	4.6832	4.9224	10.9859
2023 Jan.	1.9558	–	23.958	7.4383	396.03	4.6974	4.9242	11.2051
Feb.	1.9558	–	23.712	7.4447	384.91	4.7415	4.9087	11.1725

Other European and non-European countries								
	Australia	Brazil	Canada	China	Hong Kong	Iceland	India	Indonesia
	Australian dollar AUD	Brazilian real BRL	Canadian dollar CAD	Yuan (renminbi) CNY	Hong Kong dollar HKD	Icelandic krona ISK	Indian rupee INR	Indonesian rupiah IDR
2021	1.5749	6.3779	1.4826	7.6282	9.1932	150.15	87.4392	16,920.72
2022	1.5167	5.4399	1.3695	7.0788	8.2451	142.24	82.6864	15,625.25
2021 Jan.	1.5764	6.5102	1.5494	7.8730	9.4362	156.48	88.9936	17,111.98
Feb.	1.5605	6.5434	1.5354	7.8136	9.3794	155.26	88.0756	17,002.56
Mar.	1.5444	6.7247	1.4970	7.7465	9.2400	151.51	86.6550	17,135.25
Apr.	1.5544	6.6565	1.4975	7.8051	9.3064	150.75	89.4210	17,414.37
May	1.5653	6.4462	1.4732	7.8109	9.4317	149.66	88.9171	17,393.13
June	1.5761	6.0693	1.4713	7.7391	9.3507	146.84	88.6298	17,295.86
July	1.5926	6.0930	1.4806	7.6536	9.1862	147.10	88.1134	17,148.30
Aug.	1.6118	6.1884	1.4827	7.6237	9.1633	148.45	87.2573	16,926.94
Sep.	1.6087	6.1966	1.4910	7.6007	9.1583	150.96	86.6330	16,781.39
Oct.	1.5669	6.4204	1.4436	7.4500	9.0257	149.66	86.9571	16,450.02
Nov.	1.5615	6.3434	1.4339	7.2927	8.8922	149.16	85.0038	16,298.12
Dec.	1.5781	6.3841	1.4463	7.1993	8.8155	147.15	85.1762	16,184.17
2022 Jan.	1.5770	6.2673	1.4282	7.1922	8.8166	146.09	84.2273	16,227.12
Feb.	1.5825	5.8903	1.4422	7.1957	8.8461	141.99	85.0312	16,271.78
Mar.	1.4946	5.4884	1.3950	6.9916	8.6199	143.39	83.9933	15,802.12
Apr.	1.4663	5.1342	1.3652	6.9605	8.4828	139.83	82.4033	15,566.64
May	1.4995	5.2460	1.3588	7.0830	8.3030	138.46	81.7828	15,422.62
June	1.5044	5.3209	1.3537	7.0734	8.2922	138.47	82.5112	15,531.74
July	1.4856	5.4718	1.3180	6.8538	7.9895	139.05	81.0182	15,258.22
Aug.	1.4550	5.2111	1.3078	6.8884	7.9473	140.12	80.5563	15,024.16
Sep.	1.4820	5.1791	1.3187	6.9508	7.7738	140.35	79.4558	14,847.40
Oct.	1.5474	5.1658	1.3477	7.0687	7.7128	141.50	80.9180	15,172.93
Nov.	1.5455	5.3846	1.3708	7.3171	7.9873	146.98	83.3384	15,975.07
Dec.	1.5685	5.5589	1.4379	7.3859	8.2434	150.76	87.3381	16,503.30
2023 Jan.	1.5523	5.6047	1.4474	7.3173	8.4217	154.06	88.1441	16,427.04
Feb.	1.5514	5.5386	1.4400	7.3244	8.4077	153.11	88.5004	16,232.58

* See Explanatory notes, p. 48. + Averages: Bundesbank calculations based on the daily euro foreign exchange reference rates published by the ECB. ¹ Accession to the euro area on 1 January 2023.

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

2. Annual and monthly averages + (cont'd)

EUR 1 = CU ...

Other European and non-European countries (cont'd)								
	Israel	Japan	Korea, Republic of	Malaysia	Mexico	New Zealand	Norway	Philippines
Period	New shekel ILS	Japanese yen JPY	South Korean won KRW	Malaysian ringgit MYR	Mexican peso MXN	New Zealand dollar NZD	Norwegian krone NOK	Philippine peso PHP
2021	3.8208	129.88	1,354.06	4.9015	23.9852	1.6724	10.1633	58.299
2022	3.5345	138.03	1,358.07	4.6279	21.1869	1.6582	10.1026	57.314
2021 Jan.	3.9249	126.31	1,338.64	4.9154	24.2483	1.6924	10.3661	58.498
Feb.	3.9581	127.49	1,345.06	4.8944	24.5557	1.6702	10.2791	58.401
Mar.	3.9402	129.38	1,345.58	4.8907	24.7451	1.6686	10.1469	57.783
Apr.	3.9205	130.49	1,337.96	4.9358	24.0005	1.6788	10.0376	58.067
May	3.9623	132.57	1,364.47	5.0142	24.2682	1.6817	10.0931	58.222
June	3.9179	132.63	1,352.47	4.9808	24.1066	1.6944	10.1444	58.040
July	3.8668	130.35	1,354.46	4.9680	23.6101	1.6933	10.3767	59.264
Aug.	3.7942	129.28	1,366.74	4.9660	23.6237	1.6872	10.4195	59.088
Sep.	3.7744	129.66	1,380.51	4.9054	23.5675	1.6676	10.1861	59.115
Oct.	3.7292	131.21	1,371.23	4.8307	23.7308	1.6452	9.8143	58.835
Nov.	3.5588	130.12	1,351.74	4.7695	23.8113	1.6261	9.9661	57.473
Dec.	3.5426	128.80	1,338.49	4.7599	23.6159	1.6649	10.1308	56.917
2022 Jan.	3.5487	130.01	1,353.61	4.7405	23.1891	1.6789	10.0070	58.000
Feb.	3.6452	130.66	1,358.53	4.7492	23.1808	1.6982	10.0544	58.163
Mar.	3.5710	130.71	1,345.66	4.6277	22.6476	1.6049	9.7367	57.415
Apr.	3.5106	136.61	1,337.58	4.6208	21.7206	1.5978	9.6191	56.264
May	3.5758	136.24	1,340.10	4.6344	21.1861	1.6515	10.1453	55.421
June	3.6038	141.57	1,351.47	4.6496	21.1240	1.6640	10.2972	56.756
July	3.5309	139.17	1,332.00	4.5197	20.8955	1.6436	10.1823	56.917
Aug.	3.3408	136.85	1,337.90	4.5233	20.3909	1.6158	9.8309	56.542
Sep.	3.4181	141.57	1,381.71	4.5005	19.8718	1.6691	10.1697	57.074
Oct.	3.4823	144.73	1,403.51	4.6127	19.6481	1.7299	10.3919	57.738
Nov.	3.5488	145.12	1,384.19	4.7002	19.8393	1.6828	10.3357	58.655
Dec.	3.6562	142.82	1,370.59	4.6721	20.7608	1.6660	10.4480	58.888
2023 Jan.	3.7126	140.54	1,341.38	4.6589	20.4573	1.6851	10.7149	59.162
Feb.	3.7975	142.38	1,368.77	4.6794	19.9543	1.7016	10.9529	58.743

Other European and non-European countries (cont'd)								
	Russian Federation	Singapore	South Africa	Switzerland	Thailand	Turkey	United Kingdom	United States
	Russian rouble RUB 1	Singapore dollar SGD	South African rand ZAR	Swiss franc CHF	Thai baht THB	Turkish lira TRY	Pound sterling GBP	US dollar USD
2021	87.1527	1.5891	17.4766	1.0811	37.837	10.5124	0.85960	1.1827
2022	–	1.4512	17.2086	1.0047	36.856	17.4088	0.85276	1.0530
2021 Jan.	90.5697	1.6140	18.4295	1.0794	36.528	9.0059	0.89267	1.2171
Feb.	89.9554	1.6060	17.8629	1.0858	36.307	8.5785	0.87268	1.2098
Mar.	88.6326	1.5975	17.8284	1.1065	36.632	9.1301	0.85873	1.1899
Apr.	91.1446	1.5975	17.2486	1.1031	37.551	9.7936	0.86527	1.1979
May	89.8737	1.6153	17.0766	1.0968	37.992	10.1852	0.86258	1.2146
June	87.4561	1.6062	16.7540	1.0940	37.873	10.3823	0.85872	1.2047
July	87.3970	1.6019	17.1648	1.0856	38.586	10.1587	0.85613	1.1822
Aug.	86.6067	1.5947	17.3827	1.0762	38.956	9.9788	0.85287	1.1772
Sep.	85.7740	1.5864	17.1373	1.0857	38.919	10.0691	0.85683	1.1770
Oct.	82.7727	1.5673	17.2300	1.0708	38.813	10.6809	0.84694	1.1601
Nov.	83.1111	1.5487	17.7055	1.0522	37.773	12.2361	0.84786	1.1414
Dec.	83.4913	1.5403	17.9331	1.0408	37.931	15.4045	0.84875	1.1304
2022 Jan.	86.5552	1.5286	17.5286	1.0401	37.607	15.3525	0.83503	1.1314
Feb.	88.8910	1.5274	17.2663	1.0461	37.014	15.4901	0.83787	1.1342
Mar.	–	1.4972	16.5138	1.0245	36.648	16.1233	0.83638	1.1019
Apr.	–	1.4775	16.2796	1.0211	36.559	15.9311	0.83655	1.0819
May	–	1.4621	16.8131	1.0355	36.392	16.5412	0.84969	1.0579
June	–	1.4624	16.6961	1.0245	36.928	17.9599	0.85759	1.0566
July	–	1.4211	17.1606	0.9876	37.028	17.7896	0.84955	1.0179
Aug.	–	1.4016	16.9182	0.9690	36.306	18.2701	0.84499	1.0128
Sep.	–	1.3999	17.3828	0.9640	36.670	18.1465	0.87463	0.9904
Oct.	–	1.4003	17.8214	0.9791	37.286	18.2655	0.87058	0.9826
Nov.	–	1.4144	17.8328	0.9842	37.087	18.9877	0.86892	1.0201
Dec.	–	1.4313	18.3036	0.9865	36.817	19.7613	0.86950	1.0589
2023 Jan.	–	1.4283	18.4320	0.9961	35.840	20.2312	0.88212	1.0769
Feb.	–	1.4262	19.1765	0.9905	36.486	20.1981	0.88550	1.0715

* See Explanatory notes, p. 48. + Averages: Bundesbank calculations based on the daily euro foreign exchange reference rates published by the ECB. 1 The ECB has suspended

the publication of the euro foreign exchange reference rate against the Russian rouble with effect from 2 March 2022.

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									
	Bulgaria	Croatia ¹	Czechia	Denmark	Estonia ¹	Hungary	Latvia ¹	Lithuania ¹	Poland
Period	Bulgarian lev BGN	Kuna HRK	Czech koruna CZK	Danish krone DKK	Estonian kroon EEK	Hungarian forint HUF	Latvian lats LVL	Lithuanian litas LTL	Polish zloty PLN
End of year									
2009	1.9558	7.3000	26.473	7.4418	15.6466	270.42	0.709300	3.4528	4.1045
2010	1.9558	7.3830	25.061	7.4535	15.6466	277.95	0.709400	3.4528	3.9750
2011	1.9558	7.5370	25.787	7.4342	–	314.58	0.699500	3.4528	4.4580
2012	1.9558	7.5575	25.151	7.4610	–	292.30	0.697700	3.4528	4.0740
2013	1.9558	7.6265	27.427	7.4593	–	297.04	0.702804	3.4528	4.1543
2014	1.9558	7.6580	27.735	7.4453	–	315.54	–	3.4528	4.2732
2015	1.9558	7.6380	27.023	7.4626	–	315.98	–	–	4.2639
2016	1.9558	7.5597	27.021	7.4344	–	309.83	–	–	4.4103
2017	1.9558	7.4400	25.535	7.4449	–	310.33	–	–	4.1770
2018	1.9558	7.4125	25.724	7.4673	–	320.98	–	–	4.3014
2019	1.9558	7.4395	25.408	7.4715	–	330.53	–	–	4.2568
2020	1.9558	7.5519	26.242	7.4409	–	363.89	–	–	4.5597
2021	1.9558	7.5156	24.858	7.4364	–	369.19	–	–	4.5969
2022	1.9558	7.5365	24.116	7.4365	–	400.87	–	–	4.6808
Annual averages +									
2009	1.9558	7.3400	26.435	7.4462	15.6466	280.33	0.7057	3.4528	4.3276
2010	1.9558	7.2891	25.284	7.4473	15.6466	275.48	0.7087	3.4528	3.9947
2011	1.9558	7.4390	24.590	7.4506	–	279.37	0.7063	3.4528	4.1206
2012	1.9558	7.5217	25.149	7.4437	–	289.25	0.6973	3.4528	4.1847
2013	1.9558	7.5786	25.980	7.4579	–	296.87	0.7015	3.4528	4.1975
2014	1.9558	7.6344	27.536	7.4548	–	308.71	–	3.4528	4.1843
2015	1.9558	7.6137	27.279	7.4587	–	310.00	–	–	4.1841
2016	1.9558	7.5333	27.034	7.4452	–	311.44	–	–	4.3632
2017	1.9558	7.4637	26.326	7.4386	–	309.19	–	–	4.2570
2018	1.9558	7.4182	25.647	7.4532	–	318.89	–	–	4.2615
2019	1.9558	7.4180	25.670	7.4661	–	325.30	–	–	4.2976
2020	1.9558	7.5384	26.455	7.4542	–	351.25	–	–	4.4430
2021	1.9558	7.5284	25.640	7.4370	–	358.52	–	–	4.5652
2022	1.9558	7.5349	24.566	7.4396	–	391.29	–	–	4.6861

EU member countries (cont'd)		Other European and non-European countries						
	Romania	Sweden	Australia	Brazil	Canada	China	Hong Kong	Iceland
	Romanian leu RON	Swedish krona SEK	Australian dollar AUD	Brazilian real BRL	Canadian dollar CAD	Yuan (renminbi) CNY	Hong Kong dollar HKD	Icelandic krona ISK ²
End of year								
2009	4.2363	10.2520	1.6008	2.5113	1.5128	9.8350	11.1709	–
2010	4.2620	8.9655	1.3136	2.2177	1.3322	8.8220	10.3856	–
2011	4.3233	8.9120	1.2723	2.4159	1.3215	8.1588	10.0510	–
2012	4.4445	8.5820	1.2712	2.7036	1.3137	8.2207	10.2260	–
2013	4.4710	8.8591	1.5423	3.2576	1.4671	8.3491	10.6933	–
2014	4.4828	9.3930	1.4829	3.2207	1.4063	7.5358	9.4170	–
2015	4.5240	9.1895	1.4897	4.3117	1.5116	7.0608	8.4376	–
2016	4.5390	9.5525	1.4596	3.4305	1.4188	7.3202	8.1751	–
2017	4.6585	9.8438	1.5346	3.9729	1.5039	7.8044	9.3720	–
2018	4.6635	10.2548	1.6220	4.4440	1.5605	7.8751	9.9675	133.20
2019	4.7830	10.4468	1.5995	4.5157	1.4598	7.8205	8.7473	135.80
2020	4.8683	10.0343	1.5896	6.3735	1.5633	8.0225	9.5142	156.10
2021	4.9490	10.2503	1.5615	6.3101	1.4393	7.1947	8.8333	147.60
2022	4.9495	11.1218	1.5693	5.6386	1.4440	7.3582	8.3163	151.50
Annual averages +								
2009	4.2399	10.6191	1.7727	2.7674	1.5850	9.5277	10.8114	–
2010	4.2122	9.5373	1.4423	2.3314	1.3651	8.9712	10.2994	–
2011	4.2391	9.0298	1.3484	2.3265	1.3761	8.9960	10.8362	–
2012	4.4593	8.7041	1.2407	2.5084	1.2842	8.1052	9.9663	–
2013	4.4190	8.6515	1.3777	2.8687	1.3684	8.1646	10.3016	–
2014	4.4437	9.0985	1.4719	3.1211	1.4661	8.1857	10.3025	–
2015	4.4454	9.3535	1.4777	3.7004	1.4186	6.9733	8.6014	–
2016	4.4904	9.4689	1.4883	3.8561	1.4659	7.3522	8.5922	–
2017	4.5688	9.6351	1.4732	3.6054	1.4647	7.6290	8.8045	–
2018	4.6540	10.2583	1.5797	4.3085	1.5294	7.8081	9.2559	127.89
2019	4.7453	10.5891	1.6109	4.4134	1.4855	7.7355	8.7715	137.28
2020	4.8383	10.4848	1.6549	5.8943	1.5300	7.8747	8.8587	154.59
2021	4.9215	10.1465	1.5749	6.3779	1.4826	7.6282	9.1932	150.15
2022	4.9313	10.6296	1.5167	5.4399	1.3695	7.0788	8.2451	142.24

* See Explanatory notes, p. 48. + Averages: Bundesbank calculations based on the daily euro foreign exchange reference rates published by the ECB. ¹ Accession to the euro

area, see p. 7 (Table I. 1.). ² The ECB did not fix euro foreign exchange reference rates for the Icelandic krona from 4 December 2008 to 31 January 2018.

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

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

EUR 1 = CU ...

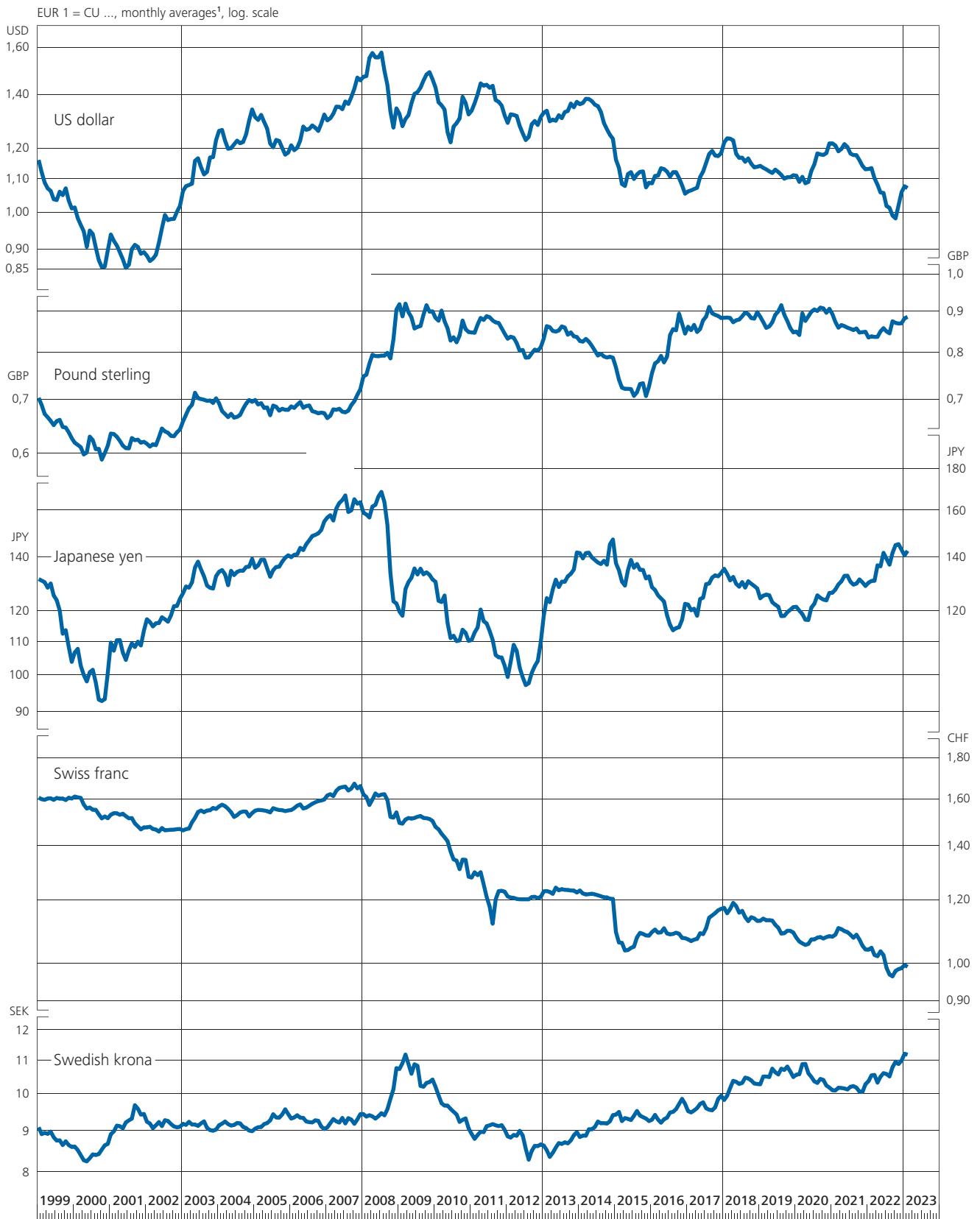
Other European and non-European countries (cont'd)									
India	Indonesia	Israel	Japan	Korea, Republic of	Malaysia	Mexico	New Zealand	Norway	
Indian rupee INR	Indonesian rupiah IDR	New shekel ILS ¹	Japanese yen JPY	South Korean won KRW	Malaysian ringgit MYR	Mexican peso MXN	New Zealand dollar NZD	Norwegian krone NOK	
End of year									
2009	67.0400	13,626.13	5.4524	133.16	1,666.97	4.9326	18.9223	1.9803	8.3000
2010	59.7580	12,002.14	4.7321	108.65	1,499.06	4.0950	16.5475	1.7200	7.8000
2011	68.7130	11,731.47	4.9453	100.20	1,498.69	4.1055	18.0512	1.6737	7.7540
2012	72.5600	12,713.97	4.9258	113.61	1,406.23	4.0347	17.1845	1.6045	7.3483
2013	85.3660	16,764.78	4.7880	144.72	1,450.93	4.5221	18.0731	1.6762	8.3630
2014	76.7190	15,076.10	4.7200	145.23	1,324.80	4.2473	17.8679	1.5525	9.0420
2015	72.0215	15,039.99	4.2481	131.07	1,280.78	4.6959	18.9145	1.5923	9.6030
2016	71.5935	14,173.43	4.0477	123.40	1,269.36	4.7287	21.7719	1.5158	9.0863
2017	76.6055	16,239.12	4.1635	135.01	1,279.61	4.8536	23.6612	1.6850	9.8403
2018	79.7298	16,500.00	4.2972	125.85	1,277.93	4.7317	22.4921	1.7056	9.9483
2019	80.1870	15,595.60	3.8845	121.94	1,296.28	4.5953	21.2202	1.6653	9.8638
2020	89.6605	17,240.76	3.9447	126.49	1,336.00	4.9340	24.4160	1.6984	10.4703
2021	84.2292	16,100.42	3.5159	130.38	1,346.38	4.7184	23.1438	1.6579	9.9888
2022	88.1710	16,519.82	3.7554	140.66	1,344.09	4.6984	20.8560	1.6798	10.5138
Annual averages +									
2009	67.3611	14,443.74	5.4668	130.34	1,772.90	4.9079	18.7989	2.2121	8.7278
2010	60.5878	12,041.70	4.9457	116.24	1,531.82	4.2668	16.7373	1.8377	8.0043
2011	64.8859	12,206.51	4.9775	110.96	1,541.23	4.2558	17.2877	1.7600	7.7934
2012	68.5973	12,045.73	4.9536	102.49	1,447.69	3.9672	16.9029	1.5867	7.4751
2013	77.9300	13,857.50	4.7948	129.66	1,453.91	4.1855	16.9641	1.6206	7.8067
2014	81.0406	15,748.92	4.7449	140.31	1,398.14	4.3446	17.6550	1.5995	8.3544
2015	71.1956	14,870.39	4.3122	134.31	1,256.54	4.3373	17.6157	1.5930	8.9496
2016	74.3717	14,720.83	4.2489	120.20	1,284.18	4.5835	20.6673	1.5886	9.2906
2017	73.5324	15,118.01	4.0622	126.71	1,276.74	4.8527	21.3286	1.5897	9.3270
2018	80.7332	16,803.22	4.2423	130.40	1,299.07	4.7634	22.7054	1.7065	9.5975
2019	78.8361	15,835.27	3.9901	122.01	1,305.32	4.6374	21.5565	1.6998	9.8511
2020	84.6392	16,627.37	3.9258	121.85	1,345.58	4.7959	24.5194	1.7561	10.7228
2021	87.4392	16,920.72	3.8208	129.88	1,354.06	4.9015	23.9852	1.6724	10.1633
2022	82.6864	15,625.25	3.5345	138.03	1,358.07	4.6279	21.1869	1.6582	10.1026

Other European and non-European countries (cont'd)									
Philippines	Russian Federation	Singapore	South Africa	Switzerland	Thailand	Turkey	United Kingdom	United States	
Philippine peso PHP	Russian rouble RUB ²	Singapore dollar SGD	South African rand ZAR	Swiss franc CHF	Thai baht THB	Turkish lira TRY	Pound sterling GBP	US dollar USD	
End of year									
2009	66.507	43.1540	2.0194	10.6660	1.4836	47.986	2.1547	0.88810	1.4406
2010	58.300	40.8200	1.7136	8.8625	1.2504	40.170	2.0694	0.86075	1.3362
2011	56.754	41.7650	1.6819	10.4830	1.2156	40.991	2.4432	0.83530	1.2939
2012	54.107	40.3295	1.6111	11.1727	1.2072	40.347	2.3551	0.81610	1.3194
2013	61.289	45.3246	1.7414	14.5660	1.2276	45.178	2.9605	0.83370	1.3791
2014	54.436	72.3370	1.6058	14.0353	1.2024	39.910	2.8320	0.77890	1.2141
2015	50.999	80.6736	1.5417	16.9530	1.0835	39.248	3.1765	0.73395	1.0887
2016	52.268	64.3000	1.5234	14.4570	1.0739	37.726	3.7072	0.85618	1.0541
2017	59.795	69.3920	1.6024	14.8054	1.1702	39.121	4.5464	0.88723	1.1993
2018	60.113	79.7153	1.5591	16.4594	1.1269	37.052	6.0588	0.89453	1.1450
2019	56.900	69.9563	1.5111	15.7773	1.0854	33.415	6.6843	0.85080	1.1234
2020	59.125	91.4671	1.6218	18.0219	1.0802	36.727	9.1131	0.89903	1.2271
2021	57.763	85.3004	1.5279	18.0625	1.0331	37.653	15.2335	0.84028	1.1326
2022	59.320	-	1.4300	18.0986	0.9847	36.835	19.9649	0.88693	1.0666
Annual averages +									
2009	66.338	44.1376	2.0241	11.6737	1.5100	47.804	2.1631	0.89094	1.3948
2010	59.739	40.2629	1.8055	9.6984	1.3803	42.014	1.9965	0.85784	1.3257
2011	60.260	40.8846	1.7489	10.0970	1.2326	42.429	2.3378	0.86788	1.3920
2012	54.246	39.9262	1.6055	10.5511	1.2053	39.928	2.3135	0.81087	1.2848
2013	56.428	42.3370	1.6619	12.8330	1.2311	40.830	2.5335	0.84926	1.3281
2014	58.979	50.9518	1.6823	14.4037	1.2146	43.147	2.9065	0.80612	1.3285
2015	50.522	68.0720	1.5255	14.1723	1.0679	38.028	3.0255	0.72584	1.1095
2016	52.556	74.1446	1.5275	16.2645	1.0902	39.043	3.3433	0.81948	1.1069
2017	56.973	65.9383	1.5588	15.0490	1.1117	38.296	4.1206	0.87667	1.1297
2018	62.210	74.0416	1.5926	15.6186	1.1550	38.164	5.7077	0.88471	1.1810
2019	57.985	72.4553	1.5273	16.1757	1.1124	34.757	6.3578	0.87777	1.1195
2020	56.615	82.7248	1.5742	18.7655	1.0705	35.708	8.0547	0.88970	1.1422
2021	58.299	87.1527	1.5891	17.4766	1.0811	37.837	10.5124	0.85960	1.1827
2022	57.314	-	1.4512	17.2086	1.0047	36.856	17.4088	0.85276	1.0530

* See Explanatory notes, p. 48. + Averages: Bundesbank calculations based on the daily euro foreign exchange reference rates published by the ECB. ¹ Up to December 2010, ECB indicative rates. ² The ECB has suspended the publication of the euro foreign exchange reference rate against the Russian rouble with effect from 2 March 2022.

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

4. Exchange rates of major currencies

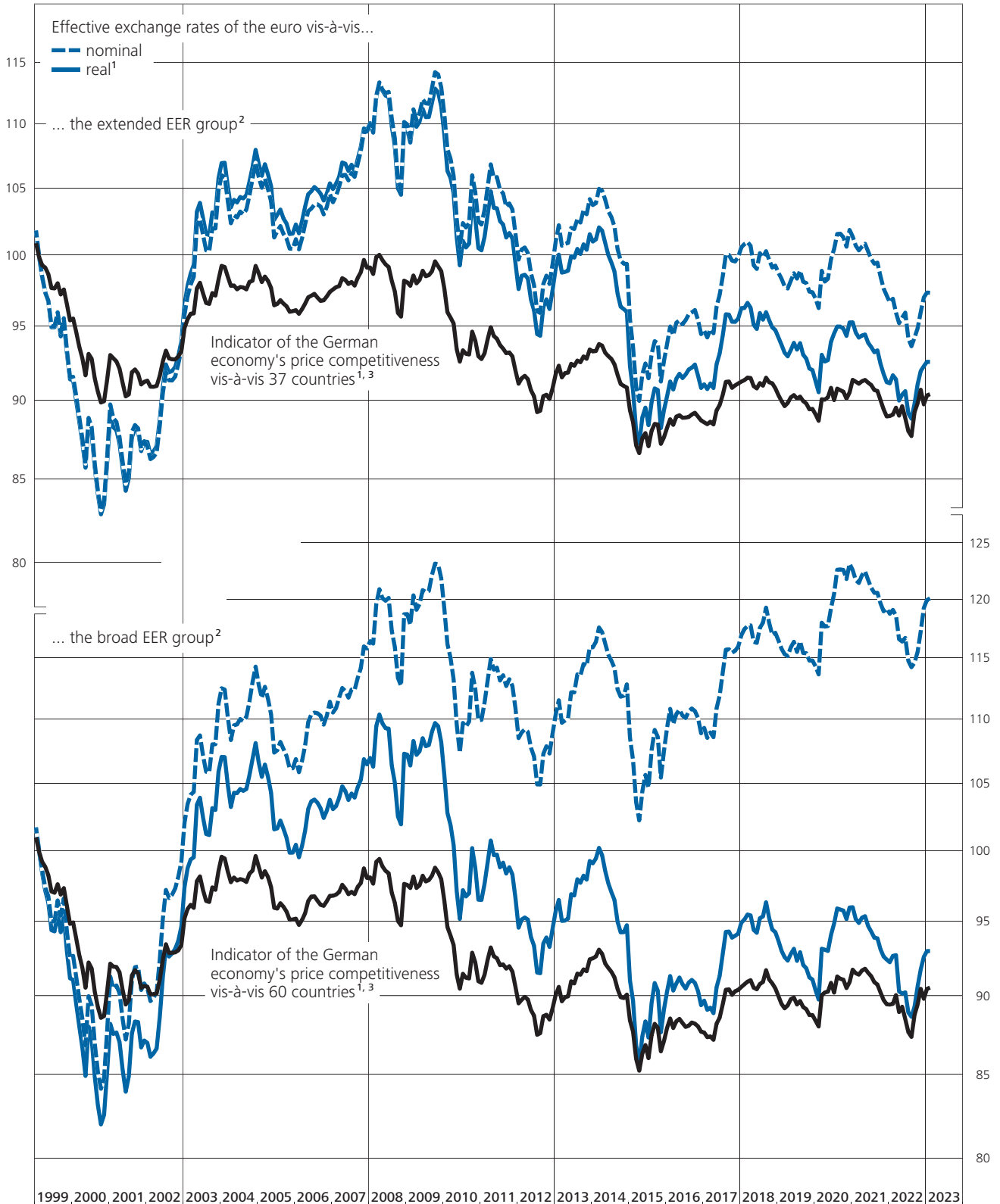


* See explanatory notes, p. 48. ¹ Bundesbank calculations based on the daily euro foreign exchange reference rates published by the ECB.

III. Effective exchange rates

1. Effective exchange rates of the euro and indicators of the German economy's price competitiveness*

Q1 1999 = 100, monthly averages, log. scale



* The weights are based on trade in manufactured goods and services. For more detailed information on methodology and definition of country groups, see Explanatory notes, pp. 48–50. A decline in the figures implies an increase in competitiveness. **1** Based on consumer price indices. **2** Includes the 18 respectively 41 most important trading partners of the euro area economy. **3** Includes the 37 respectively 60 most important trading partners of the German economy.

III. Effective exchange rates

2. Effective exchange rates of the euro *

Q1 1999 = 100

Yearly, quarterly or monthly average	Effective exchange rates of the euro vis-à-vis the currencies of the					
	extended EER group of trading partners (fixed composition) ¹				broad EER group of trading partners (fixed composition) ^{2 3}	
	Nominal	In real terms based on consumer price indices	In real terms based on the deflators of gross domestic product	In real terms based on unit labour costs of national economy	Nominal	In real terms based on consumer price indices
1999	96.2	96.1	95.9	96.2	96.6	95.9
2000	87.0	86.8	86.0	85.7	88.1	86.1
2001	87.5	87.1	86.6	84.5	90.2	86.9
2002	89.8	90.2	89.6	88.1	94.5	90.5
2003	100.4	101.4	100.8	99.2	106.4	101.6
2004	104.2	105.3	103.8	102.4	110.9	105.4
2005	102.8	104.0	101.8	100.6	109.1	103.0
2006	102.8	104.0	101.2	99.5	109.2	102.3
2007	106.3	107.0	103.5	101.2	112.8	104.5
2008	110.2	109.9	105.7	105.1	117.6	107.0
2009	111.7	110.8	106.8	108.7	120.7	108.1
2010	104.5	103.0	98.6	101.2	112.0	99.1
2011	104.2	102.1	96.7	99.4	112.8	98.6
2012	98.5	96.8	91.2	93.6	107.6	93.8
2013	102.1	99.9	94.2	96.5	112.3	96.8
2014	102.3	99.2	94.2	96.6	114.7	97.2
2015	92.5	89.5	85.6	86.0	106.2	88.6
2016	95.2	91.5	87.9	p 87.3	110.2	90.6
2017	97.5	93.4	89.1	p 88.0	112.6	91.8
2018	100.0	95.6	90.6	p 89.6	117.4	95.0
2019	98.1	93.2	88.9	p 87.1	115.6	92.4
2020	99.7	93.6	89.4	p 87.8	119.5	93.9
2021	99.6	93.5	p 88.7	p 86.2	120.9	94.3
2022	95.5	p 90.7	...	...	116.8	p 90.8
2021 Mar.	100.3	94.2			121.4	94.9
Apr.	100.6	94.3			122.1	95.2
May	100.8	94.4	89.4	p 86.6	122.4	95.3
June	100.3	93.8			121.7	94.7
July	99.7	93.5			121.0	94.3
Aug.	99.4	93.2	p 88.6	p 85.8	120.6	93.9
Sep.	99.5	93.3			120.6	93.8
Oct.	98.5	92.4			119.6	93.1
Nov.	97.6	91.7	p 86.6	p 84.2	119.0	92.6
Dec.	97.1	91.2			119.2	92.4
2022 Jan.	96.6	91.1			118.7	p 92.2
Feb.	96.9	91.6	p 84.7	p 82.8	119.1	p 92.6
Mar.	95.9	91.4			118.6	p 92.7
Apr.	95.2	90.0			116.6	p 90.3
May	95.6	90.4	p 83.2	p 81.3	116.4	p 90.1
June	95.9	90.6			116.7	p 90.2
July	94.1	89.1			114.7	p 88.9
Aug.	93.6	88.8	p 81.8	p 80.0	114.2	p 88.6
Sep.	94.2	p 89.8			114.6	p 89.3
Oct.	94.8	p 91.1			115.5	p 90.6
Nov.	96.0	p 91.9	...	...	117.2	p 91.7
Dec.	97.0	p 92.3			119.2	p 92.6
2023 Jan.	97.3	p 92.5			119.9	p 93.0
Feb.	97.3	p 92.5	...	...	120.1	p 93.0
2023 Feb. 13	97.1	-	-	-	119.8	-
14	97.3	-	-	-	120.1	-
15	97.3	-	-	-	120.1	-
16	97.4	-	-	-	120.2	-
17	97.3	-	-	-	120.0	-
20	97.2	-	-	-	120.0	-
21	97.1	-	-	-	119.9	-
22	97.1	-	-	-	119.9	-
23	97.0	-	-	-	119.7	-
24	96.9	-	-	-	119.6	-
27	96.9	-	-	-	119.6	-
28	97.1	-	-	-	119.9	-
Mar. 1	97.3	-	-	-	120.2	-
2	97.2	-	-	-	119.9	-
3	97.2	-	-	-	119.9	-
6	97.4	-	-	-	120.1	-
7	97.6	-	-	-	120.4	-
8	97.2	-	-	-	119.8	-
9	97.2	-	-	-	119.8	-
10	97.2	-	-	-	120.0	-
13	97.5	-	-	-	120.5	-
14	97.6	-	-	-	120.7	-

* The weights are based on trade in manufactured goods and services. For information on methodology and grouping of countries, see Explanatory notes, pp. 48-50. A decline in the figures implies an increase in competitiveness. Where current price and wage indices were not available, estimates were used. ¹ Includes the 18 most important trading partners for the euro area economy. ² Includes the 41 most important trading partners for the euro area economy. ³ The ECB has suspended the publication

and calculation of the euro foreign exchange reference rate against Russian rouble with effect from March 2, 2022 until further notice. For the calculation of effective exchange rates, an indicative rate is used for the Russian Federation from that date. It is calculated from the daily RUB/USD rates determined by the Bank of Russia in conjunction with the respective ECB's euro foreign exchange reference rate to the US dollar.

III. Effective exchange rates

3. Indicators of the German economy's price competitiveness *

Q1 1999 = 100

Yearly, quarterly or monthly average	Based on the deflators of total sales vis-à-vis					Based on consumer price indices vis-à-vis							
	27 selected industrial countries ¹				37 countries ²	27 selected industrial countries ¹					37 countries ²	60 countries ^{2 3}	
	Total	of which:		Euro area countries		Non-euro area countries	Total	of which:		Euro area countries			Non-euro area countries
		Euro area countries	Non-euro area countries					Euro area countries	Non-euro area countries				
1999	97.9	99.6	95.7	95.7	97.7	98.3	100.1	96.1	96.1	98.1	97.8		
2000	91.9	97.5	85.4	85.4	91.1	93.1	99.0	86.1	86.1	92.3	91.2		
2001	91.7	96.6	86.0	86.0	90.5	93.0	98.1	86.9	86.9	91.7	91.0		
2002	92.3	95.7	88.3	88.3	91.0	93.5	96.9	89.4	89.4	92.2	91.9		
2003	95.9	94.8	97.5	97.5	95.3	97.0	95.7	99.0	99.0	96.7	96.8		
2004	96.1	93.6	99.9	99.9	95.6	98.5	95.4	102.8	102.8	98.2	98.4		
2005	94.7	92.0	98.7	98.7	93.2	98.4	95.2	103.1	103.1	97.1	96.7		
2006	93.5	90.4	98.1	98.1	91.6	98.6	94.8	104.0	104.0	96.7	96.0		
2007	94.5	89.7	102.0	102.0	92.0	100.9	95.1	109.6	109.6	98.3	97.3		
2008	94.9	88.4	105.1	105.1	91.3	102.4	94.5	114.6	114.6	98.4	97.5		
2009	95.2	89.2	104.5	104.5	92.0	101.9	94.4	113.5	113.5	98.6	97.9		
2010	92.5	88.7	98.1	98.1	88.1	98.8	94.0	105.7	105.7	94.3	92.5		
2011	92.1	88.4	97.5	97.5	87.3	98.2	93.7	104.7	104.7	93.5	91.9		
2012	90.0	88.3	92.4	92.4	84.7	95.9	93.2	99.5	99.5	90.5	88.9		
2013	92.3	88.8	97.4	97.4	86.6	98.1	93.3	105.2	105.2	92.3	90.9		
2014	92.9	89.6	97.6	97.6	87.3	98.2	93.6	104.7	104.7	92.5	91.5		
2015	89.7	90.2	88.8	88.8	83.6	94.4	94.1	94.4	94.4	87.8	87.0		
2016	90.6	90.7	90.4	90.4	84.9	95.0	94.1	96.1	96.1	88.8	88.1		
2017	91.9	90.8	93.3	93.3	85.7	96.3	94.3	99.1	99.1	89.9	88.9		
2018	93.1	91.0	96.3	96.3	86.7	97.7	94.4	102.4	102.4	91.2	90.8		
2019	92.2	91.2	93.5	93.5	85.8	96.4	94.3	99.2	99.2	89.9	89.4		
2020	92.3	91.5	93.4	93.4	86.4	96.4	94.2	99.5	99.5	90.1	90.2		
2021	93.4	92.0	95.4	95.4	86.8	97.4	94.8	100.9	100.9	90.7	91.0		
2022	p 92.2	p 92.0	92.4	p 85.2	p 96.0	p 94.6	97.7	p 89.2	p 89.1	p 89.1	p 89.1		
2019 Sep.						96.2	94.4	98.4	89.9	89.9	89.3		
Oct.						96.2	94.4	98.5	89.8	89.8	89.1		
Nov.	91.9	91.4	92.6	85.7	95.9	94.4	97.9	89.4	89.4	88.7	88.7		
Dec.					95.9	94.4	97.8	89.4	89.4	88.7	88.7		
2020 Jan.						95.8	94.5	97.5	89.1	89.1	88.4		
Feb.	91.9	91.7	92.2	85.7	95.5	94.5	96.6	88.7	88.7	88.0	88.0		
Mar.					96.4	94.6	98.9	90.1	90.1	90.0	90.0		
Apr.						96.1	94.7	98.0	90.0	90.0	90.2		
May	91.8	91.7	91.8	86.3	96.3	94.8	98.2	90.2	90.2	90.3	90.3		
June					97.0	94.7	100.1	90.8	90.8	90.8	90.8		
July						96.0	93.4	99.0	90.0	90.0	90.2		
Aug.	92.4	91.1	94.2	86.7	97.0	94.1	101.0	90.8	90.8	91.3	91.3		
Sep.					96.9	94.0	101.0	90.7	90.7	91.1	91.1		
Oct.						96.7	93.9	100.8	90.6	90.6	91.0		
Nov.	93.1	91.4	95.5	86.9	96.5	93.7	100.4	90.1	90.1	90.5	90.5		
Dec.					97.0	93.6	101.7	90.5	90.5	90.9	90.9		
2021 Jan.						97.9	94.7	102.6	91.3	91.3	91.7		
Feb.	93.4	91.8	95.7	87.0	97.9	95.0	102.2	91.2	91.2	91.5	91.5		
Mar.					97.7	94.8	101.7	91.1	91.1	91.4	91.4		
Apr.						97.9	94.9	102.1	91.3	91.3	91.7		
May	93.2	91.4	95.8	86.6	98.1	95.0	102.5	91.3	91.3	91.8	91.8		
June					98.0	95.1	101.9	91.2	91.2	91.5	91.5		
July						97.7	95.2	101.1	91.0	91.0	91.3		
Aug.	93.7	92.3	95.7	87.0	97.4	95.1	100.5	90.7	90.7	90.9	90.9		
Sep.					97.3	94.9	100.6	90.6	90.6	90.7	90.7		
Oct.						96.7	94.6	99.4	90.0	90.0	90.2		
Nov.	93.4	92.6	94.5	86.4	96.1	94.3	98.4	89.4	89.4	89.7	89.7		
Dec.					95.7	94.1	97.7	89.0	89.0	89.4	89.4		
2022 Jan.						95.9	94.2	98.2	89.0	p 89.4	p 89.4		
Feb.	92.9	92.3	93.6	85.7	96.1	94.1	98.7	89.1	p 89.1	p 89.5	p 89.5		
Mar.					96.3	94.5	98.7	89.5	p 89.5	p 90.0	p 90.0		
Apr.						96.1	94.8	97.8	89.0	p 88.9	p 88.9		
May	92.1	91.7	92.5	84.9	96.6	95.3	98.1	89.6	p 89.6	p 89.3	p 89.3		
June					95.7	94.3	97.6	88.8	p 88.8	p 88.5	p 88.5		
July						94.9	94.2	95.6	88.0	p 87.6	p 87.6		
Aug.	91.5	92.0	90.8	84.7	94.5	94.0	94.9	87.7	p 87.7	p 87.3	p 87.3		
Sep.					96.0	95.1	97.1	89.2	p 89.2	p 88.8	p 88.8		
Oct.						96.1	94.8	97.7	p 89.8	p 89.4	p 89.4		
Nov.	p 92.2	p 91.8	92.6	p 85.6	97.1	95.5	99.2	p 90.7	p 90.7	p 90.4	p 90.4		
Dec.					96.2	94.2	99.0	p 89.7	p 89.7	p 89.8	p 89.8		
2023 Jan.					p 97.4	p 94.9	100.9	p 90.3	p 90.3	p 90.4	p 90.4		
Feb.	...	...	...	...	p 97.6	p 95.1	p 101.0	p 90.4	p 90.4	p 90.5	p 90.5

* The weights are based on trade in manufactured goods and services. For information on methodology and grouping of countries, see Explanatory notes, pp. 48-50. A decline in the figures implies an increase in competitiveness. Where current price and wage indices were not available, estimates were used. ¹ Includes euro area countries (moving composition) as well as the 8 most important trading partners for the German

economy. ² Includes the 37 respectively 60 most important trading partners for the German economy. ³ As of March 2022, for the Russian Federation a monthly average indicative rate is used. It is calculated from the daily RUB/USD rates determined by the Bank of Russia in conjunction with the respective ECB's euro foreign exchange reference rate to the US dollar.

IV. Overview of world currencies *

1. Currencies and exchange rates in individual countries

Country 1 Capital	Currency ISO currency code	Type of rate	Unit	Annual average 2022	Rate at end of month		
					December 2022	January 2023	February 2023
Afghanistan							
Kabul	Afghani = 100 puls	B	USD 1 =	AFN 89.6490	AFN 89.0900	AFN 89.6171	AFN 88.9261
		S	USD 1 =	AFN 89.7490	AFN 89.1900	AFN 89.7171	AFN 89.0261
	AFN	B	EUR 1 =	AFN 94.3145	AFN 94.3638	AFN 97.0126	AFN 93.2997
		S	EUR 1 =	AFN 94.5745	AFN 94.6238	AFN 97.2726	AFN 93.5597
Albania							
Tirana	Albanian lek = 100 qindarka ALL	M	USD 1 =	ALL 112.99	ALL 107.05	ALL 107.72	ALL 108.43
		M	EUR 1 =	ALL 118.82	ALL 114.23	ALL 116.55	ALL 115.04
Algeria							
Algiers	Algerian dinar = 100 centimes	B	USD 1 =	DZD 142.0187	DZD 137.2019	DZD 135.9499	DZD 136.3330
		S	USD 1 =	DZD 142.0337	DZD 137.2169	DZD 135.9649	DZD 136.3480
	DZD	B	EUR 1 =	DZD 149.5203	DZD 146.0240	DZD 146.8939	DZD 145.0174
		S	EUR 1 =	DZD 149.5785	DZD 146.0674	DZD 146.9509	DZD 145.0879
Angola							
Luanda	Kwanza = 100 cêntimos AOA	M	USD 1 =	AOA 460.058	AOA 503.691	AOA 504.275	AOA 503.428
		M	EUR 1 =	AOA 483.899	AOA 537.438	AOA 546.130	AOA 534.539
Antigua und Barbuda							
St John's	East Caribbean dollar = 100 cents	2 B	USD 1 =	XCD 2.6882	XCD 2.6882	XCD 2.6882	XCD 2.6882
		2 S	USD 1 =	XCD 2.7169	XCD 2.7169	XCD 2.7169	XCD 2.7169
	XCD	V, B	EUR 1 =	XCD 2.8307	XCD 2.8672	XCD 2.9121	XCD 2.8546
		V, S	EUR 1 =	XCD 2.8609	XCD 2.8978	XCD 2.9432	XCD 2.8851
Argentina 1							
Buenos Aires	Argentine peso = 100 centavos	B	USD 1 =	ARS 130.6116	ARS 176.9600	ARS 186.8000	ARS 196.9500
		S	USD 1 =	ARS 130.8116	ARS 177.1600	ARS 187.0000	ARS 197.1500
	ARS	B	EUR 1 =	ARS 136.6931	ARS 189.2587	ARS 202.7714	ARS 208.3928
		S	EUR 1 =	ARS 137.2306	ARS 189.9155	ARS 203.4560	ARS 209.0973
Armenia							
Yerevan	Armenian dram = 100 luma AMD	M	USD 1 =	AMD 433.61	AMD 393.57	AMD 395.67	AMD 389.34
		M	EUR 1 =	AMD 457.81	AMD 420.06	AMD 428.27	AMD 413.40
Aruba							
Oranjestad	Aruban florin = 100 cents	2 B	USD 1 =	AWG 1.78	AWG 1.78	AWG 1.78	AWG 1.78
		2 S	USD 1 =	AWG 1.80	AWG 1.80	AWG 1.80	AWG 1.80
	AWG	B	EUR 100 =	AWG 187.10	AWG 190.36	AWG 192.77	AWG 189.05
		S	EUR 100 =	AWG 188.98	AWG 192.27	AWG 194.71	AWG 190.95

Source: Central bank or a commercial bank of the country concerned. * See Explanatory notes, p. 50. 1 See Explanatory notes on individual countries, pp. 53 ff. 2 Value against the US dollar.

IV. Overview of world currencies *

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

Country 1 Capital	Currency ISO currency code	Type of rate	Unit	Annual average 2022	Rate at end of month		
					December 2022	January 2023	February 2023
Australia							
Canberra	Australian dollar = 100 cents AUD	M	AUD 1 =	USD 0.6947	USD 0.6775	USD 0.7037	USD 0.6730
		M	AUD 1 =	EUR 0.6593	EUR 0.6359	EUR 0.6488	EUR 0.6354
Austria							
Vienna	Euro = 100 cent EUR	M	EUR 1 =	USD 1.0530	USD 1.0666	USD 1.0833	USD 1.0619
Azerbaijan							
Baku	Azerbaijan manat = 100 qapik AZN	M	USD 1 =	AZN 1.7000	AZN 1.7000	AZN 1.7000	AZN 1.7000
		M	EUR 1 =	AZN 1.7894	AZN 1.8114	AZN 1.8437	AZN 1.7999
Bahamas							
Nassau	Bahamian dollar = 100 cents BSD	2 B	USD 1 =	BSD 0.9950	BSD 0.9950	BSD 0.9950	BSD 0.9950
		2 S	USD 1 =	BSD 1.0125	BSD 1.0125	BSD 1.0125	BSD 1.0125
		V, B	EUR 1 =	BSD 1.04774	BSD 1.06127	BSD 1.07788	BSD 1.05659
		V, S	EUR 1 =	BSD 1.06616	BSD 1.07993	BSD 1.09684	BSD 1.07517
Bahrain							
Manama	Bahraini dinar = 1,000 fils BHD	2 M	USD 1 =	BHD 0.376081	BHD 0.376081	BHD 0.376081	BHD 0.376081
		M	EUR 1 =	BHD 0.3952958	BHD 0.3998310	BHD 0.4081800	BHD 0.3990030
Bangladesh 1							
Dhaka	Taka = 100 poisha BDT	B	USD 1 =	BDT 93.0250	BDT 101.0000	BDT 102.0000	BDT 103.0000
		S	USD 1 =	BDT 94.2567	BDT 103.1200	BDT 106.1700	BDT 105.5900
		B	EUR 1 =	BDT 97.2996	BDT 106.2722	BDT 110.5884	BDT 109.0564
		S	EUR 1 =	BDT 99.3953	BDT 111.6068	BDT 118.3371	BDT 115.0086
Barbados							
Bridgetown	Barbados dollar = 100 cents BBD	2 B	USD 1 =	BBD 1.99375	BBD 1.99375	BBD 1.99375	BBD 1.99375
		2 S	USD 1 =	BBD 2.02768	BBD 2.02768	BBD 2.02768	BBD 2.02768
		B	EUR 1 =	BBD 2.09598	BBD 2.12625	BBD 2.16119	BBD 2.11141
		S	EUR 1 =	BBD 2.13528	BBD 2.16611	BBD 2.20171	BBD 2.15100
Belarus							
Minsk	Belarusian rouble = 100 kopecks BYN	M	USD 1 =	BYN 2.6257	BYN 2.7364	BYN 2.6468	BYN 2.8080
		M	EUR 1 =	BYN 2.7634	BYN 2.9156	BYN 2.8867	BYN 2.9624

Source: Central bank or a commercial bank of the country concerned. * See Explanatory notes, p. 50. 1 See Explanatory notes on individual countries, pp. 53 ff. 2 Value against the US dollar.

IV. Overview of world currencies *

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

Country ¹ Capital	Currency ISO currency code	Type of rate	Unit	Annual average 2022	Rate at end of month		
					December 2022	January 2023	February 2023
Belgium							
Brussels	Euro = 100 cent EUR	M	EUR 1 =	USD 1.0530	USD 1.0666	USD 1.0833	USD 1.0619
Belize							
Belmopan	Belize dollar = 100 cents BZD	2 B	USD 1 =	BZD 1.9825	BZD 1.9825	BZD 1.9825	BZD 1.9825
		2 S	USD 1 =	BZD 2.0175	BZD 2.0175	BZD 2.0175	BZD 2.0175
		B	EUR 1 =	BZD 2.0826	BZD 2.1161	BZD 2.1526	BZD 2.1058
		S	EUR 1 =	BZD 2.1193	BZD 2.1535	BZD 2.1906	BZD 2.1430
Benin ¹							
Porto-Novo Seat of government: Cotonou	CFA franc XOF	B	USD 1 =	XOF 621.10	XOF 612.75	XOF 601.25	XOF 616.00
		S	USD 1 =	XOF 628.10	XOF 619.75	XOF 608.25	XOF 623.00
		3	EUR 1 =	XOF 655.957	XOF 655.957	XOF 655.957	XOF 655.957
Bermuda							
Hamilton	Bermudian dollar = 100 cents BMD	2 B	USD 1 =	BMD 0.9960	BMD 0.9960	BMD 0.9960	BMD 0.9960
		2 S	USD 1 =	BMD 1.0043	BMD 1.0043	BMD 1.0043	BMD 1.0043
		V, B	EUR 1 =	BMD 1.0488	BMD 1.0623	BMD 1.0790	BMD 1.0577
		V, S	EUR 1 =	BMD 1.0575	BMD 1.0712	BMD 1.0880	BMD 1.0665
Bhutan ¹							
Thimphu	Ngultrum = 100 chhetrum BTN	B	USD 1 =	BTN 77.80	BTN 81.50	BTN 80.30	BTN 81.60
		S	USD 1 =	BTN 80.22	BTN 84.05	BTN 82.80	BTN 84.15
		B	EUR 1 =	BTN 81.52	BTN 86.80	BTN 87.50	BTN 86.05
		S	EUR 1 =	BTN 83.79	BTN 89.25	BTN 89.90	BTN 88.40
Bolivia, Plurinational State of							
Sucre Seat of government: La Paz	Boliviano = 100 centavos BOB	B	USD 1 =	BOB 6.86	BOB 6.86	BOB 6.86	BOB 6.86
		S	USD 1 =	BOB 6.96	BOB 6.96	BOB 6.96	BOB 6.96
		V, B	EUR 1 =	BOB 7.2242	BOB 7.3169	BOB 7.4314	BOB 7.2846
		V, S	EUR 1 =	BOB 7.3295	BOB 7.4235	BOB 7.5398	BOB 7.3908
Bosnia and Herzegovina							
Sarajevo	Convertible marka = 100 feninga BAM	B	USD 1 =	BAM 1.859955	BAM 1.832041	BAM 1.789361	BAM 1.848532
		S	USD 1 =	BAM 1.869278	BAM 1.841225	BAM 1.798331	BAM 1.857798
		3	EUR 1 =	BAM 1.95583	BAM 1.95583	BAM 1.95583	BAM 1.95583
Botswana							
Gaborone	Pula = 100 thebe BWP	B	BWP 1 =	USD 0.0808	USD 0.0785	USD 0.0774	USD 0.0752
		S	BWP 1 =	USD 0.0806	USD 0.0783	USD 0.0772	USD 0.0751
		B	BWP 1 =	EUR 0.0770	EUR 0.0735	EUR 0.0775	EUR 0.0709
		S	BWP 1 =	EUR 0.0768	EUR 0.0734	EUR 0.0773	EUR 0.0707

Source: Central bank or a commercial bank of the country concerned. * See Explanatory notes, p. 50. ¹ See Explanatory notes on individual countries, pp. 53 ff. ² Value against the US dollar. ³ Value against the euro.

IV. Overview of world currencies *

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

Country ¹ Capital	Currency ISO currency code	Type of rate	Unit	Annual average 2022	Rate at end of month			
					December 2022	January 2023	February 2023	
Brazil								
Brasília	Brazilian real = 100 centavos	B	USD 1 =	BRL 5.1649	BRL 5.2171	BRL 5.0987	BRL 5.2072	
		S	USD 1 =	BRL 5.1655	BRL 5.2177	BRL 5.0993	BRL 5.2078	
	BRL	B	EUR 1 =	BRL 5.3984	BRL 5.5666	BRL 5.5367	BRL 5.5217	
		S	EUR 1 =	BRL 5.4004	BRL 5.5694	BRL 5.5389	BRL 5.5244	
	Brunei Darussalam ¹							
	Bandar Seri Begawan	Brunei dollar = 100 cents	B	USD 1 =	BND 1.3702	BND 1.3358	BND 1.3060	BND 1.3386
S			USD 1 =	BND 1.3874	BND 1.3525	BND 1.3230	BND 1.3556	
BND		B	EUR 1 =	BND 1.4255	BND 1.4074	BND 1.4013	BND 1.4036	
		S	EUR 1 =	BND 1.4796	BND 1.4607	BND 1.4550	BND 1.4577	
Bulgaria								
Sofia		Bulgarian lev = 100 stotinkas BGN	M	USD 1 =	BGN 1.86180	BGN 1.83371	BGN 1.80544	BGN 1.84182
	²		EUR 1 =	BGN 1.95583	BGN 1.95583	BGN 1.95583	BGN 1.95583	
Burkina Faso ¹								
Ouagadougou	CFA franc	B	USD 1 =	XOF 621.10	XOF 612.75	XOF 601.25	XOF 616.00	
		S	USD 1 =	XOF 628.10	XOF 619.75	XOF 608.25	XOF 623.00	
	XOF	²	EUR 1 =	XOF 655.957	XOF 655.957	XOF 655.957	XOF 655.957	
Burundi								
Gitega	Burundi franc = 100 centimes	B	USD 1 =	BIF 2,016.8987	BIF 2,046.9424	BIF 2,052.3488	BIF 2,056.8326	
		S	USD 1 =	BIF 2,056.2563	BIF 2,079.9576	BIF 2,085.4512	BIF 2,090.0074	
	BIF	B	EUR 1 =	BIF 2,122.2930	BIF 2,180.6077	BIF 2,223.7199	BIF 2,176.9517	
		S	EUR 1 =	BIF 2,163.7098	BIF 2,215.7788	BIF 2,259.5864	BIF 2,212.0638	
Cabo Verde								
Praia	Cabo Verde escudo = 100 centavos	B	USD 1 =	CVE 105.075	CVE 103.532	CVE 101.032	CVE 104.376	
		S	USD 1 =	CVE 105.277	CVE 103.734	CVE 101.234	CVE 104.578	
	CVE	²	EUR 1 =	CVE 110.265	CVE 110.265	CVE 110.265	CVE 110.265	
Cambodia								
Phnom Penh	Riel = 100 sen KHR	M	USD 1 =	KHR 4,089	KHR 4,117	KHR 4,104	KHR 4,043	
		B	EUR 1 =	KHR 4,298	KHR 4,378	KHR 4,468	KHR 4,267	
	S	EUR 1 =	KHR 4,341	KHR 4,422	KHR 4,512	KHR 4,310		
Cameroon ¹								
Yaoundé	CFA franc	B	USD 1 =	XAF 619.1417	XAF 612.9097	XAF 599.5645	XAF 615.4018	
		S	USD 1 =	XAF 626.1757	XAF 617.0287	XAF 603.8063	XAF 621.2479	
	XAF	²	EUR 1 =	XAF 655.957	XAF 655.957	XAF 655.957	XAF 655.957	
Canada								
Ottawa	Canadian dollar = 100 cents CAD	M	USD 1 =	CAD 1.3013	CAD 1.3544	CAD 1.3350	CAD 1.3609	
		M	EUR 1 =	CAD 1.3703	CAD 1.4458	CAD 1.4497	CAD 1.4434	

Source: Central bank or a commercial bank of the country concerned. * See Explanatory notes, p. 50. ¹ See Explanatory notes on individual countries, pp. 53 ff. ² Value against the euro.

IV. Overview of world currencies *

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

Country ¹ Capital	Currency ISO currency code	Type of rate	Unit	Annual average 2022	Rate at end of month		
					December 2022	January 2023	February 2023
Cayman Islands							
George Town	Cayman Islands dollar = 100 cents KYD	2	KYD 1 =	USD 1.20	USD 1.20	USD 1.20	USD 1.20
		V	EUR 1 =	KYD 0.8775	KYD 0.8888	KYD 0.9028	KYD 0.8849
Central African Republic ¹							
Bangui	CFA franc XAF	B	USD 1 =	XAF 619.1417	XAF 612.9097	XAF 599.5645	XAF 615.4018
		S	USD 1 =	XAF 626.1757	XAF 617.0287	XAF 603.8063	XAF 621.2479
		3	EUR 1 =	XAF 655.957	XAF 655.957	XAF 655.957	XAF 655.957
Chad ¹							
N'Djaména	CFA franc XAF	B	USD 1 =	XAF 619.1417	XAF 612.9097	XAF 599.5645	XAF 615.4018
		S	USD 1 =	XAF 626.1757	XAF 617.0287	XAF 603.8063	XAF 621.2479
		3	EUR 1 =	XAF 655.957	XAF 655.957	XAF 655.957	XAF 655.957
Chile							
Santiago	Chilean peso = 100 centavos CLP	M	USD 1 =	CLP 872.33	CLP 859.51	CLP 810.37	CLP 831.24
		M	EUR 1 =	CLP 917.60	CLP 916.91	CLP 880.07	CLP 880.64
China							
Beijing	Chinese renminbi ⁴ 1 yuan (renminbi) = 10 jiao = 100 fen CNY	M	USD 1 =	CNY 6.7261	CNY 6.9646	CNY 6.7604	CNY 6.9519
		M	EUR 1 =	CNY 7.0985	CNY 7.4229	CNY 7.3354	CNY 7.3747
		M	HKD 1 =	CNY 0.85986	CNY 0.89327	CNY 0.86267	CNY 0.88604
China (Taiwan)							
Taipei	New Taiwan dollar = 100 cents TWD	B	USD 1 =	TWD 29.808	TWD 30.660	TWD 29.985	TWD 30.430
		S	USD 1 =	TWD 29.908	TWD 30.760	TWD 30.085	TWD 30.530
		B	EUR 1 =	TWD 31.15	TWD 32.52	TWD 32.37	TWD 32.08
		S	EUR 1 =	TWD 31.55	TWD 32.92	TWD 32.77	TWD 32.48
Colombia							
Bogotá	Colombian peso = 100 centavos COP	M	USD 1 =	COP 4,255.98	COP 4,810.20	COP 4,632.20	COP 4,808.14
		V, M	EUR 1 =	COP 4,470.963	COP 5,130.559	COP 5,018.062	COP 5,105.764
Comoros							
Moroni	Comorian franc = 100 centimes KMF	V	USD 1 =	KMF 467.20584	KMF 461.24859	KMF 454.13805	KMF 463.29009
		3	EUR 1 =	KMF 491.96775	KMF 491.96775	KMF 491.96775	KMF 491.96775
Congo ¹							
Brazzaville	CFA franc XAF	B	USD 1 =	XAF 619.1417	XAF 612.9097	XAF 599.5645	XAF 615.4018
		S	USD 1 =	XAF 626.1757	XAF 617.0287	XAF 603.8063	XAF 621.2479
		3	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. 50. ¹ See Explanatory notes on individual countries, pp. 53 ff. ² Value against

the US dollar. ³ Value against the euro. ⁴ Currency amounts are denoted using the designation yuan (renminbi).

IV. Overview of world currencies *

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

Country ¹ Capital	Currency ISO currency code	Type of rate	Unit	Annual average 2022	Rate at end of month		
					December 2022	January 2023	February 2023
Congo, Democratic Republic of the							
Kinshasa	Congo franc = 100 centimes	B	USD 1 =	CDF 1,966.9502	CDF 1,976.2423	CDF 1,991.8527	CDF 1,995.2623
		S	USD 1 =	CDF 2,047.2339	CDF 2,056.9052	CDF 2,073.1528	CDF 2,076.7016
	CDF	B	EUR 1 =	CDF 2,068.3883	CDF 2,098.7483	CDF 2,162.4471	CDF 2,102.5438
		S	EUR 1 =	CDF 2,152.8123	CDF 2,184.4115	CDF 2,250.7103	CDF 2,188.3619
Cook Islands ¹							
Avarua	Cook Islands dollar ² = 100 cents NZD	B	NZD 1 =	EUR 0.6136	EUR 0.6049	EUR 0.6066	EUR 0.5931
		S	NZD 1 =	EUR 0.5904	EUR 0.5818	EUR 0.5837	EUR 0.5706
Costa Rica							
San José	Costa Rican colón = 100 céntimos	B	USD 1 =	CRC 642.58	CRC 594.17	CRC 549.76	CRC 556.40
		S	USD 1 =	CRC 650.15	CRC 601.99	CRC 557.40	CRC 564.27
	CRC	V, B	EUR 1 =	CRC 674.9581	CRC 633.7417	CRC 595.5550	CRC 590.8412
		V, S	EUR 1 =	CRC 682.8784	CRC 642.0825	CRC 603.8314	CRC 599.1983
Côte d'Ivoire ¹							
Yamoussoukro Seat of government: Abidjan	CFA franc XOF	B	USD 1 =	XOF 621.10	XOF 612.75	XOF 601.25	XOF 616.00
		S	USD 1 =	XOF 628.10	XOF 619.75	XOF 608.25	XOF 623.00
		3	EUR 1 =	XOF 655.957	XOF 655.957	XOF 655.957	XOF 655.957
Croatia ⁴							
Zagreb	Kuna = 100 lipa	B	USD 1 =	HRK 7.151885	HRK 7.064848	–	–
		S	USD 1 =	HRK 7.194925	HRK 7.107364	–	–
	from 1 January 2023 Euro = 100 cent HRK / EUR	B	EUR 1 =	HRK 7.513327	HRK 7.514172	–	–
		S	EUR 1 =	HRK 7.558542	HRK 7.559392	–	–
	M	EUR 1 =	–	–	USD 1.0833	USD 1.0619	
Cuba ¹							
Havana	Cuban peso = 100 centavos CUP	5 ⁶ M	USD 1 =	CUP 24.00	CUP 24.00	CUP 24.00	CUP 24.00
		6 M	EUR 1 =	CUP 25.2152	CUP 25.6680	CUP 26.0520	CUP 25.4712
		7 M	USD 1 =	CUP 120.00 ⁸	CUP 120.00	CUP 120.00	CUP 120.00
		7 M	EUR 1 =	CUP 121.3464 ⁸	CUP 128.3400	CUP 130.2600	CUP 127.3560
Curaçao							
Willemstad	Netherlands Antillean guilder = 100 cents	5 B	USD 1 =	ANG 1.78	ANG 1.78	ANG 1.78	ANG 1.78
		5 S	USD 1 =	ANG 1.82	ANG 1.82	ANG 1.82	ANG 1.82
	ANG	B	EUR 100 =	ANG 187.16	ANG 190.36	ANG 192.78	ANG 189.06
		S	EUR 100 =	ANG 190.93	ANG 194.19	ANG 196.67	ANG 192.87
Cyprus							
Nicosia	Euro = 100 cent EUR	M	EUR 1 =	USD 1.0530	USD 1.0666	USD 1.0833	USD 1.0619
Czechia							
Prague	Czech koruna = 100 heller CZK	M	USD 1 =	CZK 23.360	CZK 22.616	CZK 21.961	CZK 22.123
		M	EUR 1 =	CZK 24.537	CZK 24.115	CZK 23.790	CZK 23.495

Source: Central bank or a commercial bank of the country concerned. * See Explanatory notes, p. 50. ¹ See Explanatory notes on individual countries, pp. 53 ff. ² Parity in relation to the New Zealand dollar. ³ Value against the euro. ⁴ Accession to the euro

area on 1 January 2023, see p 7 (Table I 1). ⁵ Value against the US dollar. ⁶ Rate for governmental transactions. ⁷ Rate for non-governmental transactions. ⁸ Average from August to December 2022.

IV. Overview of world currencies *

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

Country ¹ Capital	Currency ISO currency code	Type of rate	Unit	Annual average 2022	Rate at end of month		
					December 2022	January 2023	February 2023
Denmark							
Copenhagen	Danish krone = 100 øre DKK	M	USD 100 =	DKK 708.30	DKK 697.22	DKK 686.68	DKK 701.04
		M	EUR 100 =	DKK 743.96	DKK 743.65	DKK 743.88	DKK 744.43
Djibouti							
Djibouti	Djibouti franc = 100 centimes DJF	2 B	USD 1 =	DJF 176.832	DJF 176.832	DJF 176.832	DJF 176.832
		2 S	USD 1 =	DJF 179.498	DJF 179.498	DJF 179.498	DJF 179.498
		B	EUR 1 =	DJF 184.38	DJF 186.46	DJF 190.28	DJF 185.77
		S	EUR 1 =	DJF 191.90	DJF 193.74	DJF 197.71	DJF 193.03
Dominica							
Roseau	East Caribbean dollar = 100 cents XCD	2 B	USD 1 =	XCD 2.6882	XCD 2.6882	XCD 2.6882	XCD 2.6882
		2 S	USD 1 =	XCD 2.7169	XCD 2.7169	XCD 2.7169	XCD 2.7169
		V, B	EUR 1 =	XCD 2.8307	XCD 2.8672	XCD 2.9121	XCD 2.8546
		V, S	EUR 1 =	XCD 2.8609	XCD 2.8978	XCD 2.9432	XCD 2.8851
Dominican Republic							
Santo Domingo	Dominican peso = 100 centavos DOP	B	USD 1 =	DOP 54.1084	DOP 55.2362	DOP 55.6793	DOP 55.0556
		S	USD 1 =	DOP 55.4002	DOP 56.3681	DOP 56.8011	DOP 56.3330
		B	EUR 1 =	DOP 56.2465	DOP 57.9563	DOP 59.7922	DOP 57.4959
		S	EUR 1 =	DOP 59.9209	DOP 61.5235	DOP 63.2682	DOP 61.0522
Egypt ¹							
Cairo	Egyptian pound = 100 piastres = 1,000 milliems EGP	B	USD 1 =	EGP 19.34	EGP 24.66	EGP 30.03	EGP 30.48
		S	USD 1 =	EGP 19.41	EGP 24.71	EGP 30.13	EGP 30.58
		B	EUR 1 =	EGP 20.1763	EGP 26.1667	EGP 32.4414	EGP 32.2570
		S	EUR 1 =	EGP 20.4427	EGP 26.3631	EGP 32.7212	EGP 32.5341
El Salvador ¹							
San Salvador	El Salvador colón = 100 centavos SVC	2	USD 1 =	SVC 8.75	SVC 8.75	SVC 8.75	SVC 8.75
		V, B / S	EUR 1 =	SVC 9.2138	SVC 9.3328	SVC 9.4789	SVC 9.2916
Equatorial Guinea ¹							
Malabo	CFA franc XAF	B	USD 1 =	XAF 619.1417	XAF 612.9097	XAF 599.5645	XAF 615.4018
		S	USD 1 =	XAF 626.1757	XAF 617.0287	XAF 603.8063	XAF 621.2479
		3	EUR 1 =	XAF 655.957	XAF 655.957	XAF 655.957	XAF 655.957
Eritrea							
Asmara	Nakfa = 100 cents ERN	2 B	USD 1 =	ERN 15.00	ERN 15.00	ERN 15.00	ERN 15.00
		2 S	USD 1 =	ERN 15.15	ERN 15.15	ERN 15.15	ERN 15.15
		B	EUR 1 =	ERN 15.7695	ERN 15.9570	ERN 16.3440	ERN 15.8430
		S	EUR 1 =	ERN 16.4057	ERN 16.5932	ERN 16.9802	ERN 16.4792
Estonia							
Tallinn	Euro = 100 cent EUR	M	EUR 1 =	USD 1.0530	USD 1.0666	USD 1.0833	USD 1.0619

Source: Central bank or a commercial bank of the country concerned. * See Explanatory notes, p. 50. ¹ See Explanatory notes on individual countries, pp. 53 ff. ² Value against the US dollar. ³ Value against the euro.

IV. Overview of world currencies *

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

Country ¹ Capital	Currency ISO currency code	Type of rate	Unit	Annual average 2022	Rate at end of month		
					December 2022	January 2023	February 2023
Eswatini ¹							
Mbabane	Lilangeni = 100 cents	B	USD 1 =	SZL 16.3727	SZL 16.9427	SZL 17.4004	SZL 18.3848
		S	USD 1 =	SZL 16.3850	SZL 16.9543	SZL 17.4080	SZL 18.3924
	SZL	B	EUR 1 =	SZL 17.1847	SZL 18.0671	SZL 18.8920	SZL 19.5490
		S	EUR 1 =	SZL 17.2046	SZL 18.0804	SZL 18.9016	SZL 19.5587
Ethiopia							
Addis Ababa	Birr = 100 cents	B	USD 1 =	ETB 51.9141	ETB 53.3387	ETB 53.4716	ETB 53.7445
		S	USD 1 =	ETB 52.9524	ETB 54.4055	ETB 54.5410	ETB 54.8194
	ETB	B	EUR 1 =	ETB 54.5005	ETB 56.7257	ETB 58.3375	ETB 56.7972
		S	EUR 1 =	ETB 55.5905	ETB 57.8602	ETB 59.5043	ETB 57.9331
Falkland Islands (Islas Malvinas)							
Stanley	Falkland Islands pound ² = 100 pence FKP	V	USD 1 =	FKP 0.80984	FKP 0.83155	FKP 0.81301	FKP 0.82589
		V	EUR 1 =	FKP 0.85276	FKP 0.88693	FKP 0.88073	FKP 0.87701
Fiji							
Suva	Fiji dollar = 100 cents	B	FJD 1 =	USD 0.4618	USD 0.4579	USD 0.4676	USD 0.4553
		S	FJD 1 =	USD 0.4449	USD 0.4409	USD 0.4506	USD 0.4383
	FJD	B	FJD 1 =	EUR 0.4372	EUR 0.4289	EUR 0.4286	EUR 0.4267
		S	FJD 1 =	EUR 0.4251	EUR 0.4169	EUR 0.4166	EUR 0.4147
Finland							
Helsinki	Euro = 100 cent EUR	M	EUR 1 =	USD 1.0530	USD 1.0666	USD 1.0833	USD 1.0619
France							
Paris	Euro = 100 cent EUR	M	EUR 1 =	USD 1.0530	USD 1.0666	USD 1.0833	USD 1.0619
Gabon ¹							
Libreville	CFA franc	B	USD 1 =	XAF 619.1417	XAF 612.9097	XAF 599.5645	XAF 615.4018
		S	USD 1 =	XAF 626.1757	XAF 617.0287	XAF 603.8063	XAF 621.2479
	XAF	3	EUR 1 =	XAF 655.957	XAF 655.957	XAF 655.957	XAF 655.957
Gambia							
Banjul	Dalasi = 100 bututs GMD	M	USD 1 =	GMD 55.14	GMD 60.82	GMD 60.75	GMD 60.89
		M	EUR 1 =	GMD 59.46	GMD 64.19	GMD 65.06	GMD 65.92
Georgia							
Tbilisi	Lari = 100 tetri GEL	M	USD 1 =	GEL 2.9098	GEL 2.7020	GEL 2.6410	GEL 2.6272
		M	EUR 1 =	GEL 3.0689	GEL 2.8844	GEL 2.8813	GEL 2.7751

Source: Central bank or a commercial bank of the country concerned. * See Explanatory notes, p. 50. ¹ See Explanatory notes on individual countries, pp. 53 ff. ² Parity in relation to the pound sterling. ³ Value against the euro.

IV. Overview of world currencies *

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

Country ¹ Capital	Currency ISO currency code	Type of rate	Unit	Annual average 2022	Rate at end of month		
					December 2022	January 2023	February 2023
Germany							
Berlin	Euro = 100 cent EUR	M	EUR 1 =	USD 1.0530	USD 1.0666	USD 1.0833	USD 1.0619
Ghana							
Accra	Ghana cedi = 100 Ghana pesewas	B S	USD 1 =	GHS 8.4426	GHS 8.5717	GHS 10.7943	GHS 11.0080
			USD 1 =	GHS 8.4511	GHS 8.5803	GHS 10.8051	GHS 11.0190
	GHS	B S	EUR 1 = EUR 1 =	GHS 8.8173 GHS 8.8260	GHS 9.1412 GHS 9.1502	GHS 11.7203 GHS 11.7320	GHS 11.7134 GHS 11.7230
Gibraltar							
Gibraltar	Gibraltar pound ² = 100 pence GIP	V V	USD 1 =	GIP 0.80984	GIP 0.83155	GIP 0.81301	GIP 0.82589
			EUR 1 =	GIP 0.85276	GIP 0.88693	GIP 0.88073	GIP 0.87701
Greece							
Athens	Euro = 100 cent EUR	M	EUR 1 =	USD 1.0530	USD 1.0666	USD 1.0833	USD 1.0619
Grenada							
St George's	East Caribbean dollar = 100 cents	3 B 3 S	USD 1 =	XCD 2.6882	XCD 2.6882	XCD 2.6882	XCD 2.6882
			USD 1 =	XCD 2.7169	XCD 2.7169	XCD 2.7169	XCD 2.7169
	XCD	V, B V, S	EUR 1 = EUR 1 =	XCD 2.8307 XCD 2.8609	XCD 2.8672 XCD 2.8978	XCD 2.9121 XCD 2.9432	XCD 2.8546 XCD 2.8851
Guatemala							
Guatemala City	Quetzal = 100 centavos GTQ	M V, M	USD 1 =	GTQ 7.75578	GTQ 7.85222	GTQ 7.84855	GTQ 7.81493
			EUR 1 =	GTQ 8.14131	GTQ 8.37518	GTQ 8.50233	GTQ 8.29867
Guinea							
Conakry	Guinean franc GNF	M M	USD 1 =	GNF 8,677.1655	GNF 8,553.2812	GNF 8,535.3780	GNF 8,530.1151
			EUR 1 =	GNF 9,119.7462	GNF 9,085.2923	GNF 9,306.1244	GNF 9,002.6880
Guinea-Bissau ¹							
Bissau	CFA franc	B S	USD 1 =	XOF 621.10	XOF 612.75	XOF 601.25	XOF 616.00
			USD 1 =	XOF 628.10	XOF 619.75	XOF 608.25	XOF 623.00
	XOF	4	EUR 1 =	XOF 655.957	XOF 655.957	XOF 655.957	XOF 655.957
Guyana							
Georgetown	Guyana dollar = 100 cents	B S	USD 1 =	GYD 207.98	GYD 207.98	GYD 207.98	GYD 207.98
			USD 1 =	GYD 210.45	GYD 210.45	GYD 210.45	GYD 210.45
	GYD	B S	EUR 1 =	GYD 218.37	GYD 222.33	GYD 225.21	GYD 220.64
			EUR 1 =	GYD 221.18	GYD 225.19	GYD 228.10	GYD 223.48

Source: Central bank or a commercial bank of the country concerned. * See Explanatory notes, p. 50. ¹ See Explanatory notes on individual countries, pp. 53 ff. ² Parity in relation to the pound sterling. ³ Value against the US dollar. ⁴ Value against the euro.

IV. Overview of world currencies *

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

Country ¹ Capital	Currency ISO currency code	Type of rate	Unit	Annual average 2022	Rate at end of month		
					December 2022	January 2023	February 2023
Haiti							
Port-au-Prince	Gourde = 100 centimes HTG	M	USD 1 =	HTG 116.5416	HTG 145.1973	HTG 148.0278	HTG 149.6584
		V, M	EUR 1 =	HTG 122.1069	HTG 154.8674	HTG 160.3585	HTG 158.9223
Honduras							
Tegucigalpa	Lempira = 100 centavos HNL	B	USD 1 =	HNL 24.4976	HNL 24.5978	HNL 24.5596	HNL 24.5684
		S	USD 1 =	HNL 24.6486	HNL 24.7208	HNL 24.6824	HNL 24.6912
		V, B	EUR 1 =	HNL 25.7194	HNL 26.2360	HNL 26.6054	HNL 26.0892
		V, S	EUR 1 =	HNL 25.8786	HNL 26.3672	HNL 26.7384	HNL 26.2196
Hong Kong							
Hong Kong	Hong Kong dollar = 100 cents HKD	B	USD 1 =	HKD 7.79913	HKD 7.76740	HKD 7.80800	HKD 7.81850
		S	USD 1 =	HKD 7.86089	HKD 7.82920	HKD 7.86970	HKD 7.88020
		B	EUR 1 =	HKD 8.16743	HKD 8.24070	HKD 8.41180	HKD 8.26510
		S	EUR 1 =	HKD 8.30988	HKD 8.38320	HKD 8.55450	HKD 8.40770
Hungary							
Budapest	Hungarian forint = 100 fillér HUF	M	USD 1 =	HUF 373.12	HUF 375.68	HUF 359.18	HUF 358.19
		M	EUR 1 =	HUF 393.01	HUF 400.25	HUF 388.99	HUF 379.90
Iceland							
Reykjavík	Icelandic krona ISK	M	USD 1 =	ISK 135.359	ISK 142.04	ISK 141.33	ISK 143.42
		M	EUR 1 =	ISK 141.900	ISK 151.50	ISK 153.10	ISK 152.30
India ¹							
New Delhi	Indian rupee = 100 paise INR	M	USD 1 =	INR 78.6531	INR 82.7862	INR 81.7387	INR 82.6816
		M	EUR 1 =	INR 82.8923	INR 88.1496	INR 88.5982	INR 87.5471
Indonesia							
Jakarta	Indonesian rupiah = 100 sen IDR	B	USD 1 =	IDR 14,789.68	IDR 15,652.34	IDR 14,904.10	IDR 15,197.63
		S	USD 1 =	IDR 14,938.32	IDR 15,809.66	IDR 15,053.90	IDR 15,350.37
		B	EUR 1 =	IDR 15,596.28	IDR 16,625.92	IDR 16,203.74	IDR 16,036.54
		S	EUR 1 =	IDR 15,757.15	IDR 16,799.34	IDR 16,372.62	IDR 16,203.85
Iran, Islamic Republic of ¹							
Tehran	Iranian rial = 100 dinars IRR	2 M	USD 1 =	IRR 42,000	IRR 42,000	IRR 42,000	IRR 42,000
		2 M	EUR 1 =	IRR 44,192	IRR 44,745	IRR 45,642	IRR 44,499
		3 M	USD 1 =	IRR 312,767	IRR 397,600	IRR 443,800	IRR 584,000
		3 M	EUR 1 =	IRR 328,613	IRR 426,500	IRR 481,250	IRR 618,250

Source: Central bank or a commercial bank of the country concerned. * See Explanatory notes, p. 50. ¹ See Explanatory notes on individual countries, pp. 53 ff. ² Central bank rate. ³ Bureau de change rate.

IV. Overview of world currencies *

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

Country ¹ Capital	Currency ISO currency code	Type of rate	Unit	Annual average 2022	Rate at end of month			
					December 2022	January 2023	February 2023	
Iraq ¹								
Baghdad	Iraqi dinar = 1,000 fils	2 B 2 S	USD 1 =	IQD 1,450.00	IQD 1,450.00	IQD 1,450.00	IQD 1,300.00	1
			USD 1 =	IQD 1,460.00	IQD 1,460.00	IQD 1,460.00	IQD 1,310.00	1
		B S	EUR 1 =	IQD 1,520.325	IQD 1,545.845	IQD 1,570.785	IQD 1,380.470	1
			EUR 1 =	IQD 1,530.810	IQD 1,556.506	IQD 1,581.618	IQD 1,391.089	1
		3 S	USD 1 =	IQD 1,483.151	IQD 1,544.021	IQD 1,665.027	IQD 1,613.523	
IQD	V, S	EUR 1 =	IQD 1,557.36	IQD 1,646.85	IQD 1,803.72	IQD 1,713.40		
Ireland								
Dublin	Euro = 100 cent EUR	M	EUR 1 =	USD 1.0530	USD 1.0666	USD 1.0833	USD 1.0619	
Israel								
Jerusalem	New shekel = 100 agorot ILS	M	USD 1 =	ILS 3.3577	ILS 3.5190	ILS 3.4750	ILS 3.6680	
		M	EUR 1 =	ILS 3.5456	ILS 3.7530	ILS 3.7646	ILS 3.8913	
Italy								
Rome	Euro = 100 cent EUR	M	EUR 1 =	USD 1.0530	USD 1.0666	USD 1.0833	USD 1.0619	
Jamaica								
Kingston	Jamaican dollar = 100 cents JMD	B S	USD 1 =	JMD 152.5317	JMD 151.0898	JMD 153.1076	JMD 152.7715	
			USD 1 =	JMD 154.0195	JMD 152.3094	JMD 154.5754	JMD 154.6230	
		B S	EUR 1 =	JMD 156.9033	JMD 155.1361	JMD 164.8899	JMD 163.5579	
			EUR 1 =	JMD 164.3159	JMD 164.8326	JMD 169.3608	JMD 164.8300	
Japan								
Tokyo	Japanese yen = 100 sen JPY	B S	USD 1 =	JPY 130.62	JPY 131.70	JPY 129.47	JPY 135.33	
			USD 1 =	JPY 132.62	JPY 133.70	JPY 131.47	JPY 137.33	
		B S	EUR 1 =	JPY 137.02	JPY 139.97	JPY 140.06	JPY 143.11	
			EUR 1 =	JPY 140.02	JPY 142.97	JPY 143.06	JPY 146.11	
Jordan								
Amman	Jordanian dinar = 1,000 fils JOD	2 B 2 S	USD 1 =	JOD 0.7080	JOD 0.7080	JOD 0.7080	JOD 0.7080	
			USD 1 =	JOD 0.7100	JOD 0.7100	JOD 0.7100	JOD 0.7100	
		B S	EUR 1 =	JOD 0.74033	JOD 0.75098	JOD 0.76464	JOD 0.74906	
			EUR 1 =	JOD 0.74820	JOD 0.75665	JOD 0.77106	JOD 0.75438	
Kazakhstan								
Astana	Tenge = 100 tiyn KZT	M	USD 1 =	KZT 460.06	KZT 462.65	KZT 459.92	KZT 449.14	
		M	EUR 1 =	KZT 483.87	KZT 492.86	KZT 501.31	KZT 473.80	

Source: Central bank or a commercial bank of the country concerned. * See Explanatory notes, p. 50. ¹ See Explanatory notes on individual countries, pp. 53 ff. ² Official rate; value against the US dollar. ³ Market rate.

IV. Overview of world currencies *

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

Country 1 Capital	Currency ISO currency code	Type of rate	Unit	Annual average 2022	Rate at end of month			
					December 2022	January 2023	February 2023	
Kenya ¹								
Nairobi	Kenya shilling = 100 cents	B	USD 1 =	KES 118.1835	KES 123.2735	KES 124.3029	KES 126.7529	
		S	USD 1 =	KES 118.3835	KES 123.4735	KES 124.5029	KES 126.9529	
	KES	B	EUR 1 =	KES 124.2511	KES 131.1400	KES 135.2018	KES 133.8106	
		S	EUR 1 =	KES 124.4973	KES 131.3906	KES 135.4588	KES 134.0541	
	Korea, Democratic People's Republic of ¹							
	Pyongyang	North Korean won = 100 chon	B	USD 1 =
S			USD 1 =	.	.	.	.
KPW		B	EUR 1 =	.	.	.	.
		S	EUR 1 =	.	.	.	.
Korea, Republic of								
Seoul	South Korean won = 100 chon	B	USD 1 =	KRW 1,281.21	KRW 1,250.70	KRW 1,223.90	KRW 1,304.10	
		S	USD 1 =	KRW 1,306.47	KRW 1,275.30	KRW 1,248.10	KRW 1,329.90	
	KRW	B	EUR 1 =	KRW 1,344.59	KRW 1,338.41	KRW 1,329.25	KRW 1,383.50	
		S	EUR 1 =	KRW 1,371.74	KRW 1,365.43	KRW 1,356.09	KRW 1,411.44	
Kuwait								
Kuwait	Kuwaiti dinar = 1,000 fils	B	USD 1 =	KWD 0.30500	KWD 0.30500	KWD 0.30405	KWD 0.30555	
		S	USD 1 =	KWD 0.30889	KWD 0.30860	KWD 0.30765	KWD 0.30915	
	KWD	B	EUR 1 =	KWD 0.320336	KWD 0.326503	KWD 0.329301	KWD 0.324570	
		S	EUR 1 =	KWD 0.324428	KWD 0.330356	KWD 0.333200	KWD 0.328395	
Kyrgyzstan								
Bishkek	Kyrgyz som = 100 tyiyn	M	USD 1 =	KGS 83.9515	KGS 85.6800	KGS 86.1500	KGS 87.4170	
		M	EUR 1 =	KGS 88.5146	KGS 91.4377	KGS 93.7441	KGS 92.2424	
KGS								
Lao People's Democratic Republic								
Vientiane	Kip	B	USD 1 =	LAK 14,506	LAK 17,220	LAK 16,762	LAK 16,786	
		S	USD 1 =	LAK 14,554	LAK 17,347	LAK 16,927	LAK 16,951	
	LAK	B	EUR 1 =	LAK 15,144	LAK 18,287	LAK 18,162	LAK 17,777	
		S	EUR 1 =	LAK 15,267	LAK 18,468	LAK 18,341	LAK 17,953	
Latvia								
Riga	Euro = 100 cent EUR	M	EUR 1 =	USD 1.0530	USD 1.0666	USD 1.0833	USD 1.0619	
Lebanon ¹								
Beirut	Lebanese pound = 100 piastres	² M	USD 1 =	LBP 1,507.50	LBP 1,507.50	LBP 1,507.50	LBP 15,000.00	
		² M	EUR 1 =	LBP 1,588.07	LBP 1,603.83	LBP 1,631.72	LBP 15,916.50	
	LBP	³ M	USD 1 =	LBP 26,433.00	LBP 38,000.00	LBP 38,000.00	LBP 45,400.00	
		V, M	EUR 1 =	LBP 27,637.68	LBP 40,530.80	LBP 41,165.40	LBP 48,210.26	

Source: Central bank or a commercial bank of the country concerned. * See Explanatory notes, p. 50. ¹ See Explanatory notes on individual countries, pp. 53 ff. ² Official rate. ³ Sayrafa market rate.

IV. Overview of world currencies *

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

Country 1 Capital	Currency ISO currency code	Type of rate	Unit	Annual average 2022	Rate at end of month		
					December 2022	January 2023	February 2023
Lesotho ¹							
Maseru	Loti = 100 lisente LSL	M	USD 1 =	LSL 16.4312	LSL 17.0860	LSL 17.1909	LSL 18.4284
		M	EUR 1 =	LSL 17.1975	LSL 18.2016	LSL 18.6717	LSL 19.5134
Liberia ¹							
Monrovia	Liberian dollar = 100 cents LRD	B	USD 1 =	LRD 152.4261	LRD 153.6472	LRD 155.7585	LRD 157.9592
		S	USD 1 =	LRD 154.1709	LRD 155.3317	LRD 157.9959	LRD 159.8189
		V, B	EUR 1 =	LRD 160.0355	LRD 163.8801	LRD 168.7332	LRD 167.7369
		V, S	EUR 1 =	LRD 161.8671	LRD 165.6768	LRD 171.1570	LRD 169.7117
Libya							
Tripoli	Libyan dinar = 1,000 dirham LYD	B	USD 1 =	LYD 4.8064	LYD 4.8167	LYD 4.7523	LYD 4.8257
		S	USD 1 =	LYD 4.8305	LYD 4.8408	LYD 4.7761	LYD 4.8499
		B	EUR 1 =	LYD 5.0421	LYD 5.1158	LYD 5.1512	LYD 5.1087
		S	EUR 1 =	LYD 5.0674	LYD 5.1414	LYD 5.1770	LYD 5.1343
Lithuania							
Vilnius	Euro = 100 cent EUR	M	EUR 1 =	USD 1.0530	USD 1.0666	USD 1.0833	USD 1.0619
Macao ¹							
Macao	Pataca = 100 avos MOP	B	USD 1 =	MOP 8.0598	MOP 8.0238	MOP 8.0645	MOP 8.0764
		S	USD 1 =	MOP 8.0860	MOP 8.0500	MOP 8.0907	MOP 8.1026
		B	EUR 1 =	MOP 8.4692	MOP 8.5307	MOP 8.7382	MOP 8.5426
		S	EUR 1 =	MOP 8.5204	MOP 8.5699	MOP 8.7774	MOP 8.5818
Madagascar							
Antananarivo	Ariary = 5 iraimbilanja MGA	M	USD 1 =	MGA 4,107.15	MGA 4,461.98	MGA 4,273.38	MGA 4,285.99
		M	EUR 1 =	MGA 4,306.86	MGA 4,728.55	MGA 4,617.09	MGA 4,505.84
Malawi							
Lilongwe	Malawi kwacha = 100 tambala MWK	B	USD 1 =	MWK 946.8481	MWK 1,016.6211	MWK 1,016.6211	MWK 1,016.6211
		S	USD 1 =	MWK 965.2420	MWK 1,036.2485	MWK 1,036.2485	MWK 1,036.2485
		B	EUR 1 =	MWK 1,005.5700	MWK 1,114.9730	MWK 1,135.0777	MWK 1,108.0621
		S	EUR 1 =	MWK 1,025.1127	MWK 1,136.4994	MWK 1,156.9922	MWK 1,129.4550
Malaysia							
Kuala Lumpur Seat of government: Putrajaya	Malaysian ringgit = 100 sen MYR	B	USD 1 =	MYR 4.3345	MYR 4.3340	MYR 4.1709	MYR 4.3850
		S	USD 1 =	MYR 4.4742	MYR 4.4910	MYR 4.3221	MYR 4.5440
		B	EUR 1 =	MYR 4.5384	MYR 4.6090	MYR 4.5145	MYR 4.6410
		S	EUR 1 =	MYR 4.7256	MYR 4.8000	MYR 4.7016	MYR 4.8333

Source: Central bank or a commercial bank of the country concerned. * See Explanatory notes, p. 50. ¹ See Explanatory notes on individual countries, pp. 53 ff.

IV. Overview of world currencies *

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

Country 1 Capital	Currency ISO currency code	Type of rate	Unit	Annual average 2022	Rate at end of month		
					December 2022	January 2023	February 2023
Maldives							
Malé	Rufiyaa = 100 laari MVR	M	USD 1 =	MVR 15.39	MVR 15.40	MVR 15.40	MVR 15.40
		V, M	EUR 1 =	MVR 16.16374	MVR 16.42564	MVR 16.68282	MVR 16.35326
Mali 1							
Bamako	CFA franc XOF	B	USD 1 =	XOF 621.10	XOF 612.75	XOF 601.25	XOF 616.00
		S	USD 1 =	XOF 628.10	XOF 619.75	XOF 608.25	XOF 623.00
		2	EUR 1 =	XOF 655.957	XOF 655.957	XOF 655.957	XOF 655.957
Malta							
Valletta	Euro = 100 cent EUR	M	EUR 1 =	USD 1.0530	USD 1.0666	USD 1.0833	USD 1.0619
Mauritania							
Nouakchott	Ouguiya MRU	B	USD 1 =	MRU 36.85	MRU 36.55	MRU 35.60	MRU 34.66
		S	USD 1 =	MRU 37.21	MRU 36.91	MRU 35.96	MRU 35.01
		B	EUR 1 =	MRU 38.61	MRU 38.88	MRU 38.55	MRU 36.79
		S	EUR 1 =	MRU 38.99	MRU 39.27	MRU 38.94	MRU 37.16
Mauritius							
Port Louis	Mauritian rupee = 100 cents MUR	B	USD 1 =	MUR 43.6957	MUR 43.4643	MUR 44.2607	MUR 45.9400
		S	USD 1 =	MUR 44.5951	MUR 44.3643	MUR 45.1600	MUR 46.8393
		B	EUR 1 =	MUR 45.8582	MUR 46.1932	MUR 47.8812	MUR 48.5123
		S	EUR 1 =	MUR 47.1258	MUR 47.4756	MUR 49.1942	MUR 49.8258
Mexico							
Mexico City	Mexican peso = 100 centavos MXN	M	USD 1 =	MXN 20.0794	MXN 19.5089	MXN 18.8390	MXN 18.3253
		V, M	EUR 1 =	MXN 21.0432	MXN 20.8082	MXN 20.4083	MXN 19.4596
Moldova, Republic of							
Chisinau	Moldovan leu = 100 bani MDL	M	USD 1 =	MDL 18.91190	MDL 19.1579	MDL 18.7625	MDL 18.8785
		M	EUR 1 =	MDL 19.86830	MDL 20.3792	MDL 20.4427	MDL 19.9384
Mongolia							
Ulan Bator	Togrog = 100 mongo MNT	M	USD 1 =	MNT 3,164.28	MNT 3,444.60	MNT 3,491.46	MNT 3,521.87
		M	EUR 1 =	MNT 3,322.26	MNT 3,669.02	MNT 3,786.14	MNT 3,731.07
Morocco							
Rabat	Moroccan dirham = 100 centimes MAD	M	USD 1 =	MAD 10.1646	MAD 10.4477	MAD 10.2003	MAD 10.3968
		M	EUR 1 =	MAD 10.6851	MAD 11.1592	MAD 11.0459	MAD 11.0341

Source: Central bank or a commercial bank of the country concerned. * See Explanatory notes, p. 50. 1 See Explanatory notes on individual countries, pp. 53 ff. 2 Value against the euro.

IV. Overview of world currencies *

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

Country 1 Capital	Currency ISO currency code	Type of rate	Unit	Annual average 2022	Rate at end of month		
					December 2022	January 2023	February 2023
Mozambique							
Maputo	Metical = 100 centavos	B S	USD 1 =	MZN 63.22	MZN 63.24	MZN 63.24	MZN 63.25
			USD 1 =	MZN 64.48	MZN 64.50	MZN 64.51	
	MZN	B S	EUR 1 =	MZN 66.37	MZN 67.51	MZN 68.49	MZN 67.17
			EUR 1 =	MZN 67.70	MZN 68.85	MZN 69.86	MZN 68.51
Myanmar							
Nay Pyi Taw	Kyat = 100 pyas MMK	M M	USD 1 =	MMK 1,936.17	MMK 2,100.00	MMK 2,100.00	MMK 2,100.00
			EUR 1 =	MMK 2,030.23	MMK 2,237.80	MMK 2,272.60	MMK 2,228.90
Namibia 1							
Windhoek	Namibia dollar = 100 cents NAD	M M	USD 1 =	NAD 16.3860	NAD 16.9624	NAD 17.4196	NAD 18.4257
			EUR 1 =	NAD 17.1944	NAD 18.0765	NAD 18.8866	NAD 19.5141
Nepal							
Kathmandu	Nepalese rupee = 100 paisa	B S	USD 1 =	NPR 125.93	NPR 132.06	NPR 130.10	NPR 132.24
			USD 1 =	NPR 126.53	NPR 132.66	NPR 130.70	NPR 132.84
	NPR	B S	EUR 1 =	NPR 132.44	NPR 140.78	NPR 141.94	NPR 139.69
			EUR 1 =	NPR 133.07	NPR 141.42	NPR 142.59	NPR 140.32
Netherlands							
Amsterdam Seat of government: The Hague	Euro = 100 cent EUR	M	EUR 1 =	USD 1.0530	USD 1.0666	USD 1.0833	USD 1.0619
New Caledonia 1							
Nouméa	CFP franc XPF	V 2	XPF 1,000 =	USD 8.82	USD 8.94	USD 9.08	USD 8.90
			XPF 1,000 =	EUR 8.38	EUR 8.38	EUR 8.38	EUR 8.38
New Zealand							
Wellington	New Zealand dollar = 100 cents	B S	NZD 1 =	USD 0.6250	USD 0.6444	USD 0.6578	USD 0.6279
			NZD 1 =	USD 0.6015	USD 0.6199	USD 0.6331	USD 0.6042
	NZD	B S	NZD 1 =	EUR 0.6136	EUR 0.6049	EUR 0.6066	EUR 0.5931
			NZD 1 =	EUR 0.5904	EUR 0.5818	EUR 0.5837	EUR 0.5706
Nicaragua							
Managua	Córdoba = 100 centavos NIO	M V, M	USD 1 =	NIO 35.9031	NIO 36.2314	NIO 36.2924	NIO 36.3201
			EUR 1 =	NIO 37.69085	NIO 38.64441	NIO 39.31556	NIO 38.56831

Source: Central bank or a commercial bank of the country concerned. * See Explanatory notes, p. 50. 1 See Explanatory notes on individual countries, pp. 53 ff. 2 Value against the euro.

IV. Overview of world currencies *

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

Country ¹ Capital	Currency ISO currency code	Type of rate	Unit	Annual average 2022	Rate at end of month		
					December 2022	January 2023	February 2023
Niger ¹							
Niamey	CFA franc	B	USD 1 =	XOF 621.10	XOF 612.75	XOF 601.25	XOF 616.00
		S	USD 1 =	XOF 628.10	XOF 619.75	XOF 608.25	XOF 623.00
		XOF	²	EUR 1 =	XOF 655.957	XOF 655.957	XOF 655.957
Nigeria ¹							
Abuja	Naira = 100 kobo	B	USD 1 =	NGN 423.217	NGN 448.050	NGN 460.500	NGN 459.970
		S	USD 1 =	NGN 424.509	NGN 449.050	NGN 461.500	NGN 460.970
	B	EUR 1 =	NGN 445.0897	NGN 478.3830	NGN 499.0899	NGN 488.3501	
	S	EUR 1 =	NGN 446.4515	NGN 479.4507	NGN 500.1737	NGN 489.4118	
North Macedonia							
Skopje	North Macedonia denar = 100 deni	B	USD 1 =	MKD 58.3798	MKD 57.3652	MKD 56.3023	MKD 58.1642
		S	USD 1 =	MKD 58.9665	MKD 57.9418	MKD 56.8681	MKD 58.7488
	B	EUR 1 =	MKD 61.3099	MKD 61.1857	MKD 61.3863	MKD 61.3865	
	S	EUR 1 =	MKD 61.9261	MKD 61.8007	MKD 62.0033	MKD 62.0035	
Norway							
Oslo	Norwegian krone = 100 øre	B	USD 1 =	NOK 9.5924	NOK 9.8686	NOK 9.9487	NOK 10.3310
		S	USD 1 =	NOK 9.6684	NOK 9.9446	NOK 10.0247	NOK 10.4070
	B	EUR 1 =	NOK 10.0833	NOK 10.5097	NOK 10.7900	NOK 10.9427	
	S	EUR 1 =	NOK 10.1683	NOK 10.5947	NOK 10.8750	NOK 11.0277	
Oman							
Muscat	Rial Omani = 1,000 baisa	³ B	USD 1 =	OMR 0.3840	OMR 0.3840	OMR 0.3840	OMR 0.3840
		³ S	USD 1 =	OMR 0.3850	OMR 0.3850	OMR 0.3850	OMR 0.3850
	B	EUR 1 =	OMR 0.4035168	OMR 0.4078848	OMR 0.4165248	OMR 0.4068480	
	S	EUR 1 =	OMR 0.4046254	OMR 0.4089855	OMR 0.4176480	OMR 0.4079460	
Pakistan							
Islamabad	Pakistani rupee = 100 paisa	B	USD 1 =	PKR 205.12	PKR 226.40	PKR 269.60	PKR 259.80
		S	USD 1 =	PKR 205.62	PKR 226.90	PKR 270.10	PKR 260.30
	B	EUR 1 =	PKR 215.59	PKR 241.80	PKR 292.98	PKR 275.66	
	S	EUR 1 =	PKR 216.12	PKR 242.33	PKR 293.53	PKR 276.19	
Panama ¹							
Panama City	Balboa = 100 centésimos PAB	⁴	USD 1 =	PAB 1	PAB 1	PAB 1	PAB 1
		V	EUR 1 =	PAB 1.0530	PAB 1.0666	PAB 1.0833	PAB 1.0619
Papua New Guinea							
Port Moresby	Kina = 100 toea	B	PGK 1 =	USD 0.2916	USD 0.2915	USD 0.2915	USD 0.2915
		S	PGK 1 =	USD 0.2766	USD 0.2765	USD 0.2765	USD 0.2765
	B	PGK 1 =	EUR 0.2711	EUR 0.2669	EUR 0.2622	EUR 0.2683	
	S	PGK 1 =	EUR 0.2561	EUR 0.2519	EUR 0.2472	EUR 0.2533	

Source: Central bank or a commercial bank of the country concerned. * See Explanatory notes, p. 50. ¹ See Explanatory notes on individual countries, pp. 53 ff. ² Value against the euro. ³ Value against the US dollar. ⁴ Parity in relation to the US dollar.

IV. Overview of world currencies *

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

Country 1 Capital	Currency ISO currency code	Type of rate	Unit	Annual average 2022	Rate at end of month		
					December 2022	January 2023	February 2023
Paraguay							
Asunción	Guaraní = 100 céntimos	B S	USD 1 =	PYG 6,980.58	PYG 7,322.90	PYG 7,285.36	PYG 7,221.26
			USD 1 =	PYG 6,993.10	PYG 7,339.62	PYG 7,301.44	PYG 7,222.34
	PYG	V, B V, S	EUR 1 = EUR 1 =	PYG 7,349.72 PYG 7,362.88	PYG 7,798.16 PYG 7,815.96	PYG 7,892.23 PYG 7,909.65	PYG 7,668.26 PYG 7,669.40
Peru							
Lima	Sol = 100 céntimos	B S	USD 1 =	PEN 3.831	PEN 3.808	PEN 3.844	PEN 3.803
			USD 1 =	PEN 3.839	PEN 3.820	PEN 3.851	PEN 3.810
	PEN	B S	EUR 1 =	PEN 3.908	PEN 3.869	PEN 4.096	PEN 3.899
			EUR 1 =	PEN 4.313	PEN 4.360	PEN 4.280	PEN 4.350
Philippines							
Manila	Philippine peso = 100 centavos	B S	USD 1 =	PHP 54.25	PHP 55.40	PHP 54.25	PHP 54.95
			USD 1 =	PHP 54.75	PHP 55.90	PHP 54.75	PHP 55.45
	PHP	B S	EUR 1 =	PHP 55.5211	PHP 57.8331	PHP 57.8291	PHP 57.2981
			EUR 1 =	PHP 58.7388	PHP 60.8302	PHP 60.4536	PHP 59.8971
Poland							
Warsaw	Polish zloty = 100 groszy PLN	M M	USD 1 =	PLN 4.4615	PLN 4.4018	PLN 4.3480	PLN 4.4475
			EUR 1 =	PLN 4.6883	PLN 4.6899	PLN 4.7089	PLN 4.7170
Portugal							
Lisbon	Euro = 100 cent EUR	M	EUR 1 =	USD 1.0530	USD 1.0666	USD 1.0833	USD 1.0619
Qatar							
Doha	Qatari riyal = 100 dirham QAR	2 V, M	USD 1 =	QAR 3.6400	QAR 3.6400	QAR 3.6400	QAR 3.6400
			EUR 1 =	QAR 3.8219	QAR 3.8824	QAR 3.9432	QAR 3.8653
Romania							
Bucharest	Romanian leu = 100 bani RON	M M	USD 1 =	RON 4.6923	RON 4.6346	RON 4.5466	RON 4.6376
			EUR 1 =	RON 4.9335	RON 4.9474	RON 4.9221	RON 4.9200
Russian Federation							
Moscow	Russian rouble = 100 kopecks RUB	M M	USD 1 =	RUB 68.3522	RUB 70.3375	RUB 69.5927	RUB 75.4323
			EUR 1 =	RUB 70.4832 ³	RUB 75.6553 ³	RUB 75.7799 ³	RUB 79.6230 ³

Source: Central bank or a commercial bank of the country concerned. * See Explanatory notes, p. 50. ¹ See Explanatory notes on individual countries, pp. 53 ff. ² Value against

the US dollar. ³ Indicative rate; according to the Bank of Russia, calculated on the basis of their established official RUB/USD rates and USD/EUR market rates.

IV. Overview of world currencies *

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

Country 1 Capital	Currency ISO currency code	Type of rate	Unit	Annual average 2022	Rate at end of month		
					December 2022	January 2023	February 2023
Rwanda							
Kigali	Rwanda franc = 100 centimes	B	USD 1 =	RWF 1,021.528453	RWF 1,060.112344	RWF 1,073.030113	RWF 1,080.264823
		S	USD 1 =	RWF 1,041.956959	RWF 1,081.312450	RWF 1,094.488547	RWF 1,101.867937
	RWF	B	EUR 1 =	RWF 1,075.04828	RWF 1,131.13987	RWF 1,163.37925	RWF 1,144.10847
		S	EUR 1 =	RWF 1,096.54708	RWF 1,153.76038	RWF 1,186.64448	RWF 1,166.98833
Saint Helena, Ascension and Tristan da Cunha							
Jamestown	Saint Helena pound 2 = 100 pence SHP	V	USD 1 =	SHP 0.80984	SHP 0.83155	SHP 0.81301	SHP 0.82589
		V	EUR 1 =	SHP 0.85276	SHP 0.88693	SHP 0.88073	SHP 0.87701
Saint Kitts and Nevis							
Basseterre	East Caribbean dollar = 100 cents	3 B	USD 1 =	XCD 2.6882	XCD 2.6882	XCD 2.6882	XCD 2.6882
		3 S	USD 1 =	XCD 2.7169	XCD 2.7169	XCD 2.7169	XCD 2.7169
	XCD	V, B	EUR 1 =	XCD 2.8307	XCD 2.8672	XCD 2.9121	XCD 2.8546
		V, S	EUR 1 =	XCD 2.8609	XCD 2.8978	XCD 2.9432	XCD 2.8851
Saint Lucia							
Castries	East Caribbean dollar = 100 cents	3 B	USD 1 =	XCD 2.6882	XCD 2.6882	XCD 2.6882	XCD 2.6882
		3 S	USD 1 =	XCD 2.7169	XCD 2.7169	XCD 2.7169	XCD 2.7169
	XCD	V, B	EUR 1 =	XCD 2.8307	XCD 2.8672	XCD 2.9121	XCD 2.8546
		V, S	EUR 1 =	XCD 2.8609	XCD 2.8978	XCD 2.9432	XCD 2.8851
Saint Vincent and the Grenadines							
Kingstown	East Caribbean dollar = 100 cents	3 B	USD 1 =	XCD 2.6882	XCD 2.6882	XCD 2.6882	XCD 2.6882
		3 S	USD 1 =	XCD 2.7169	XCD 2.7169	XCD 2.7169	XCD 2.7169
	XCD	V, B	EUR 1 =	XCD 2.8307	XCD 2.8672	XCD 2.9121	XCD 2.8546
		V, S	EUR 1 =	XCD 2.8609	XCD 2.8978	XCD 2.9432	XCD 2.8851
Samoa							
Apia	Tala = 100 sene WST	M	WST 1 =	USD 0.37137	USD 0.37015	USD 0.37546	USD 0.36657
		M	WST 1 =	EUR 0.35358	EUR 0.34666	EUR 0.34628	EUR 0.34548
Sao Tome and Principe							
São Tomé	Dobra = 100 cêntimos	B	USD 1 =	STN 23.3986	STN 23.0069	STN 22.4709	STN 23.2139
		S	USD 1 =	STN 23.7496	STN 23.3520	STN 22.8079	STN 23.5622
	STN	4	EUR 1 =	STN 24.5000	STN 24.5000	STN 24.5000	STN 24.5000
Saudi Arabia							
Riyadh	Saudi riyal = 100 halalah SAR	3 M	USD 1 =	SAR 3.75	SAR 3.75	SAR 3.75	SAR 3.75
		V, M	EUR 1 =	SAR 3.94893	SAR 3.99975	SAR 4.06238	SAR 3.98213

Source: Central bank or a commercial bank of the country concerned. * See Explanatory notes, p. 50. 1 See Explanatory notes on individual countries, pp. 53 ff. 2 Parity in relation to the pound sterling. 3 Value against the US dollar. 4 Value against the euro.

IV. Overview of world currencies *

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

Country 1 Capital	Currency ISO currency code	Type of rate	Unit	Annual average 2022	Rate at end of month		
					December 2022	January 2023	February 2023
Senegal ¹							
Dakar	CFA franc	B	USD 1 =	XOF 621.10	XOF 612.75	XOF 601.25	XOF 616.00
		S	USD 1 =	XOF 628.10	XOF 619.75	XOF 608.25	XOF 623.00
	2	EUR 1 =	XOF 655.957	XOF 655.957	XOF 655.957	XOF 655.957	
Serbia							
Belgrade	Serbian dinar = 100 para	B	USD 1 =	RSD 111.4415	RSD 109.8210	RSD 107.9639	RSD 110.4511
		S	USD 1 =	RSD 112.1122	RSD 110.4820	RSD 108.6137	RSD 111.1159
	B	EUR 1 =	RSD 117.1136	RSD 116.9704	RSD 117.0221	RSD 116.9568	
	RSD	S	EUR 1 =	RSD 117.8184	RSD 117.6744	RSD 117.7263	RSD 117.6606
Seychelles							
Victoria	Seychelles rupee = 100 cents	B	USD 1 =	SCR 13.9344	SCR 13.7885	SCR 13.7780	SCR 13.6423
		S	USD 1 =	SCR 14.4945	SCR 14.3471	SCR 14.0906	SCR 13.9749
	B	EUR 1 =	SCR 14.6660	SCR 15.0651	SCR 14.8230	SCR 14.3494	
	SCR	S	EUR 1 =	SCR 15.3796	SCR 15.1756	SCR 15.5630	SCR 14.6625
Sierra Leone ¹							
Freetown	Leone = 100 cents	B	USD 1 =	SLE 14.2462 ³	SLE 18.7408	SLE 19.2968	SLE 20.0724
		S	USD 1 =	SLE 14.4514 ³	SLE 18.9292	SLE 19.4907	SLE 20.2741
	B	EUR 1 =	SLE 14.9589 ³	SLE 19.9883	SLE 20.8828	SLE 21.2799	
	SLE	S	EUR 1 =	SLE 15.1726 ³	SLE 20.1819	SLE 21.0901	SLE 21.4860
Singapore ¹							
Singapore	Singapore dollar = 100 cents	M	USD 1 =	SGD 1.3781	SGD 1.3446	SGD 1.3142	SGD 1.3480
		M	EUR 1 =	SGD 1.4496	SGD 1.4331	SGD 1.4252	SGD 1.4279
	SGD						
Sint Maarten (southern part)							
Philipsburg	Netherlands Antillean guilder = 100 cents	4 B	USD 1 =	ANG 1.78	ANG 1.78	ANG 1.78	ANG 1.78
		4 S	USD 1 =	ANG 1.82	ANG 1.82	ANG 1.82	ANG 1.82
	B	EUR 100 =	ANG 187.16	ANG 190.36	ANG 192.78	ANG 189.06	
	ANG	S	EUR 100 =	ANG 190.93	ANG 194.19	ANG 196.67	ANG 192.87
Slovakia							
Bratislava	Euro = 100 cent	M	EUR 1 =	USD 1.0530	USD 1.0666	USD 1.0833	USD 1.0619
	EUR						
Slovenia							
Ljubljana	Euro = 100 cent	M	EUR 1 =	USD 1.0530	USD 1.0666	USD 1.0833	USD 1.0619
	EUR						
Solomon Islands							
Honiara	Solomon Islands dollar = 100 cents	M	SBD 1 =	USD 0.1224	USD 0.1208	USD 0.1213	USD 0.1206
		M	SBD 1 =	EUR 0.11647	EUR 0.11330	EUR 0.11180	EUR 0.11390
	SBD						

Source: Central bank or a commercial bank of the country concerned. * See Explanatory notes, p. 50. ¹ See Explanatory notes on individual countries, pp. 53 ff. ² Value against the euro. ³ To calculate the annual average for 2022, the exchange rates set in (old)

leone were converted at a rate of 1,000:1 and included in the calculation. ⁴ Value against the US dollar.

IV. Overview of world currencies *

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

Country 1 Capital	Currency ISO currency code	Type of rate	Unit	Annual average 2022	Rate at end of month		
					December 2022	January 2023	February 2023
Somalia ¹							
Mogadishu	Somali shilling	M	USD 1 =	.	.	.	.
	SOS	M	EUR 1 =	.	.	.	.
South Africa							
Pretoria Seat of parliament: Cape Town	South African rand = 100 cents	B	USD 1 =	ZAR 16.1790	ZAR 16.7588	ZAR 17.2120	ZAR 18.2041
		S	USD 1 =	ZAR 16.5462	ZAR 17.1311	ZAR 17.5791	ZAR 18.5715
	ZAR	B	EUR 1 =	ZAR 16.9056	ZAR 17.7552	ZAR 18.5595	ZAR 19.2169
		S	EUR 1 =	ZAR 17.5219	ZAR 18.3982	ZAR 19.2027	ZAR 19.8663
South Sudan							
Juba	South Sudanese pound = 100 piastres	M	USD 1 =	SSP 543.6821	SSP 668.6672	SSP 690.6302	SSP 780.8191
		M	EUR 1 =	SSP 567.6622	SSP 711.2623	SSP 746.5032	SSP 824.0776
SSP							
Spain							
Madrid	Euro = 100 cent	M	EUR 1 =	USD 1.0530	USD 1.0666	USD 1.0833	USD 1.0619
	EUR						
Sri Lanka							
Colombo	Sri Lanka rupee = 100 cents	B	USD 1 =	LKR 322.6410	LKR 360.4081	LKR 360.4879	LKR 357.6822
		S	USD 1 =	LKR 332.4230	LKR 371.6068	LKR 371.3887	LKR 366.9212
	LKR	B	EUR 1 =	LKR 336.5339	LKR 382.4055	LKR 388.9307	LKR 376.3599
		S	EUR 1 =	LKR 349.6294	LKR 397.9840	LKR 404.5976	LKR 390.9386
Sudan							
Khartoum	Sudanese pound = 100 piastres	B	USD 1 =	SDG 550.4849	SDG 576.9735	SDG 584.0000	SDG 590.0000
		S	USD 1 =	SDG 555.4137	SDG 583.3425	SDG 588.3800	SDG 594.4250
	SDG	B	EUR 1 =	SDG 576.4179	SDG 616.5476	SDG 629.8907	SDG 621.3924
		S	EUR 1 =	SDG 581.9707	SDG 624.2931	SDG 637.8039	SDG 629.1989
Suriname							
Paramaribo	Suriname dollar = 100 cents	B	USD 1 =	SRD 24.865	SRD 31.765	SRD 32.281	SRD 33.645
		S	USD 1 =	SRD 25.202	SRD 31.853	SRD 32.510	SRD 33.802
	SRD	B	EUR 1 =	SRD 25.760	SRD 33.231	SRD 34.633	SRD 35.343
		S	EUR 1 =	SRD 26.367	SRD 33.890	SRD 34.855	SRD 35.376
Sweden							
Stockholm	Swedish krona = 100 öre	B	USD 1 =	SEK 10.0721	SEK 10.4223	SEK 10.3628	SEK 10.3379
		S	USD 1 =	SEK 10.1771	SEK 10.5273	SEK 10.4678	SEK 10.4429
	SEK	B	EUR 1 =	SEK 10.6048	SEK 11.0857	SEK 11.2099	SEK 10.9582
		S	EUR 1 =	SEK 10.7198	SEK 11.2007	SEK 11.3249	SEK 11.0732

Source: Central bank or a commercial bank of the country concerned. * See Explanatory notes, p. 50. ¹ See Explanatory notes on individual countries, pp. 53 ff.

IV. Overview of world currencies *

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

Country 1 Capital	Currency ISO currency code	Type of rate	Unit	Annual average 2022	Rate at end of month		
					December 2022	January 2023	February 2023
Switzerland							
Berne	Swiss franc = 100 rappen/centimes CHF	B	USD 1 =	CHF 0.9550	CHF 0.9233	CHF 0.9267	CHF 0.9379
		B	EUR 1 =	CHF 1.0022	CHF 0.9839	CHF 1.0037	CHF 0.9948
Syrian Arab Republic ¹							
Damascus	Syrian pound = 100 piastres SYP	2 B	USD 1 =	SYP 2,791.67	SYP 3,000.00	SYP 4,500.00	1 SYP 4,500.00
		2 B	USD 1 =	SYP 2,819.58	SYP 3,030.00	SYP 4,545.00	1 SYP 4,545.00
		2 B	EUR 1 =	SYP 2,924.92	SYP 3,193.00	SYP 4,879.00	1 SYP 4,764.00
		2 B	EUR 1 =	SYP 2,954.17	SYP 3,224.93	SYP 4,927.79	1 SYP 4,811.64
Tajikistan							
Dushanbe	Somoni = 100 diram TJS	M	USD 1 =	TJS 11.0237	TJS 10.2024	TJS 10.2920	TJS 10.9159
		M	EUR 1 =	TJS 11.6340	TJS 10.8911	TJS 11.2142	TJS 11.5567
Tanzania, United Republic of							
Dodoma Seat of Government: Dar es Salaam	Tanzania shilling = 100 cents TZS	B	USD 1 =	TZS 2,292.0223	TZS 2,297.4258	TZS 2,297.8416	TZS 2,298.3861
		S	USD 1 =	TZS 2,314.9425	TZS 2,320.4000	TZS 2,320.8200	TZS 2,321.3700
		B	EUR 1 =	TZS 2,411.5148	TZS 2,453.1912	TZS 2,503.7282	TZS 2,428.0151
		S	EUR 1 =	TZS 2,436.4017	TZS 2,478.6512	TZS 2,528.9976	TZS 2,452.5274
Thailand							
Bangkok	Thai baht = 100 satang THB	B	USD 1 =	THB 34.9309	THB 34.3913	THB 32.6217	THB 34.9875
		S	USD 1 =	THB 35.2606	THB 34.7335	THB 32.9524	THB 35.3155
		B	EUR 1 =	THB 36.5572	THB 36.4494	THB 35.1975	THB 36.8441
		S	EUR 1 =	THB 37.2970	THB 37.2053	THB 35.9285	THB 37.5803
Togo ¹							
Lomé	CFA franc XOF	B	USD 1 =	XOF 621.10	XOF 612.75	XOF 601.25	XOF 616.00
		S	USD 1 =	XOF 628.10	XOF 619.75	XOF 608.25	XOF 623.00
		3	EUR 1 =	XOF 655.957	XOF 655.957	XOF 655.957	XOF 655.957
Tonga							
Nuku'alofa	Pa'anga = 100 seniti TOP	M	TOP 1 =	USD 0.4289	USD 0.4274	USD 0.4324	USD 0.4240
		M	TOP 1 =	EUR 0.4063	EUR 0.3993	EUR 0.3975	EUR 0.3986
Trinidad and Tobago							
Port-of-Spain	Trinidad and Tobago dollar = 100 cents TTD	B	USD 1 =	TTD 6.7071	TTD 6.7001	TTD 6.7184	TTD 6.7134
		S	USD 1 =	TTD 6.7696	TTD 6.7828	TTD 6.7756	TTD 6.7728
		B	EUR 1 =	TTD 7.0698	TTD 7.1154	TTD 7.2740	TTD 7.2290
		S	EUR 1 =	TTD 7.5865	TTD 7.7374	TTD 7.8056	TTD 7.5145

Source: Central bank or a commercial bank of the country concerned. * See Explanatory notes, p. 50. ¹ See Explanatory notes on individual countries, pp. 53 ff. ² Bank rate. ³ Value against the euro.

IV. Overview of world currencies *

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

Country 1 Capital	Currency ISO currency code	Type of rate	Unit	Annual average 2022	Rate at end of month		
					December 2022	January 2023	February 2023
Tunisia							
Tunis	Tunisian dinar = 1,000 millimes TND	B	USD 1 =	TND 3.0727	TND 3.0755	TND 3.0408	TND 3.0946
		S	USD 1 =	TND 3.0757	TND 3.0785	TND 3.0438	TND 3.0976
		B	EUR 1 =	TND 3.2295	TND 3.2791	TND 3.3003	TND 3.2873
		S	EUR 1 =	TND 3.2327	TND 3.2823	TND 3.3036	TND 3.2905
Turkey							
Ankara	Turkish lira = 100 kuruş TRY	B	USD 1 =	TRY 16.5529	TRY 18.6966	TRY 18.7876	TRY 18.8632
		S	USD 1 =	TRY 16.5827	TRY 18.7303	TRY 18.8215	TRY 18.8972
		B	EUR 1 =	TRY 17.4960	TRY 19.8816	TRY 20.4525	TRY 19.9061
		S	EUR 1 =	TRY 17.5275	TRY 19.9175	TRY 20.4894	TRY 19.9419
Turkmenistan ¹							
Ashgabat	Turkmen manat = 100 tenge TMT	2	USD 1 =	TMT 3.50	TMT 3.50	TMT 3.50	TMT 3.50
		M	EUR 1 =	TMT 3.6870	TMT 3.7300	TMT 3.8115	TMT 3.6936
Uganda							
Kampala	Uganda shilling UGX	B	USD 1 =	UGX 3,706.26	UGX 3,708.63	UGX 3,678.33	UGX 3,716.83
		S	USD 1 =	UGX 3,716.26	UGX 3,718.63	UGX 3,688.33	UGX 3,726.83
		B	EUR 1 =	UGX 3,882.75	UGX 3,948.95	UGX 3,985.10	UGX 3,935.38
		S	EUR 1 =	UGX 3,893.24	UGX 3,959.60	UGX 3,995.94	UGX 3,945.97
Ukraine							
Kyiv	Hryvnia = 100 kopyok UAH	M	USD 1 =	UAH 32.4179	UAH 36.5686 ²	UAH 36.5686 ²	UAH 36.5686 ²
		M	EUR 1 =	UAH 34.0188	UAH 38.9510	UAH 39.8762	UAH 38.6110
United Arab Emirates ¹							
Abu Dhabi	United Arab Emirates dirham = 100 fils AED	2	USD 1 =	AED 3.6725	AED 3.6725	AED 3.6725	AED 3.6725
		V, M	EUR 1 =	AED 3.8561	AED 3.9171	AED 3.9784	AED 3.8998
United Kingdom ¹							
London	Pound sterling = 100 pence GBP	M	GBP 1 =	USD 1.2362	USD 1.2039	USD 1.2307	USD 1.2107
		M	EUR 1 =	GBP 0.8548	GBP 0.8868	GBP 0.8825	GBP 0.8760
United States							
Washington	US dollar = 100 cents USD	M	EUR 1 =	USD 1.05281	USD 1.0702	USD 1.0862	USD 1.0576
		M	GBP 1 =	USD 1.23635	USD 1.2097	USD 1.2320	USD 1.2020

Source: Central bank or a commercial bank of the country concerned. * See Explanatory notes, p. 50. ¹ See Explanatory notes on individual countries, pp. 53 ff. ² Value against the US dollar.

IV. Overview of world currencies *

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

Country 1 Capital	Currency ISO currency code	Type of rate	Unit	Annual average 2022	Rate at end of month		
					December 2022	January 2023	February 2023
Uruguay							
Montevideo	Uruguayan peso = 100 centésimos UYU	M	USD 1 =	UYU 41.126	UYU 40.071	UYU 38.681	UYU 38.893
		M	EUR 1 =	UYU 43.3572	UYU 42.8780	UYU 42.0520	UYU 41.2013
Uzbekistan							
Tashkent	Uzbekistan sum = 100 tiyin UZS	M	USD 1 =	UZS 11,046.36	UZS 11,225.46	UZS 11,301.59	UZS 11,320.01
		M	EUR 1 =	UZS 11,628.35	UZS 11,961.85	UZS 12,320.99	UZS 11,943.74
Vanuatu							
Port Vila	Vatu VUV	B	USD 1 =	VUV 114.46	VUV 115.64	VUV 112.75	VUV 115.97
		S	USD 1 =	VUV 121.75	VUV 123.00	VUV 119.92	VUV 123.35
		B	EUR 1 =	VUV 121.15	VUV 123.67	VUV 123.28	VUV 123.98
		S	EUR 1 =	VUV 126.04	VUV 128.66	VUV 128.26	VUV 128.99
Venezuela, Bolivarian Republic of ¹							
Caracas	Bolívar = 100 céntimos VES	B	USD 1 =	VES 7.269381	VES 17.445278	VES 22.317766	VES 24.299998
		S	USD 1 =	VES 7.287600	VES 17.489000	VES 22.373700	VES 24.360900
		B	EUR 1 =	VES 7.602909	VES 18.647257	VES 24.203840	VES 25.811701
		S	EUR 1 =	VES 7.621964	VES 18.693992	VES 24.264501	VES 25.876392
Viet Nam							
Hanoi	Dong = 10 hào = 100 xu VND	B	USD 1 =	VND 23,307	VND 23,410	VND 23,280	VND 23,600
		S	USD 1 =	VND 23,590	VND 23,730	VND 23,620	VND 23,940
		B	EUR 1 =	VND 24,239.45	VND 24,718.46	VND 25,047.15	VND 24,824.35
		S	EUR 1 =	VND 25,356.99	VND 25,841.35	VND 26,185.21	VND 25,962.62
Yemen ¹							
Sana'a	Yemeni rial = 100 fils YER	B	USD 1 =	.	.	.	.
		S	USD 1 =	.	.	.	.
		B	EUR 1 =	.	.	.	.
		S	EUR 1 =	.	.	.	.
Zambia							
Lusaka	Kwacha = 100 ngwee ZMW	B	USD 1 =	ZMW 17.0151	ZMW 18.0507	ZMW 19.0116	ZMW 19.8277
		S	USD 1 =	ZMW 17.0644	ZMW 18.0970	ZMW 19.0557	ZMW 19.8726
		B	EUR 1 =	ZMW 17.8910	ZMW 19.2728	ZMW 20.5858	ZMW 21.0491
		S	EUR 1 =	ZMW 17.9480	ZMW 19.3294	ZMW 20.6411	ZMW 21.1047
Zimbabwe ¹							
Harare	Zimbabwe dollar = 100 cents ZWL	2 M	USD 1 =	ZWL 395.12206 ³	ZWL 671.44660	ZWL 779.31010	–
		2 M	EUR 1 =	ZWL 407.97590 ³	ZWL 715.49550	ZWL 844.93030	–
		4 M	USD 1 =	ZWL 532.13706 ⁵	ZWL 684.33390	ZWL 796.52150	ZWL 889.13250 ¹
		4 M	EUR 1 =	ZWL 545.09904 ⁵	ZWL 729.16265	ZWL 863.67350	ZWL 941.15310 ¹

Source: Central bank or a commercial bank of the country concerned. * See Explanatory notes, p. 50. ¹ See Explanatory notes on individual countries, pp. 53 ff. ² Auction rate.

³ Calculated using the official rates (January to April 2022) and the auction rates (since May 2022). ⁴ Interbank rate. ⁵ Average from May to December 2022.

IV. Overview of world currencies*

2. Exchange rates of the US dollar against major currencies



* See Explanatory notes, p. 50. ¹ Calculated on the basis of national central banks' daily rates.

V. Value of the special drawing right in selected currencies *

SDR 1 = CU ... , year-end and month-end data as well as daily data

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
2008	1.54027	1.10675	10.52710	140.464	1.056570	1.88621	1.63839	8.18003	10.78020	12.0833
2009	1.56769	1.08822	10.70450	143.797	0.968007	1.64075	1.61551	8.10688	9.05608	11.3070
2010	1.54003	1.15966	10.19950	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	10.76930	11.3176
2015	1.38573	1.27283	8.99548	167.116	0.935104	1.91785	1.37478	9.47221	12.20690	11.5742
2016	1.34433	1.27534	9.34283	157.018	1.092780	1.80503	1.36826	9.48128	11.58810	12.2295
2017	1.42413	1.18747	9.27343	160.785	1.054020	1.78837	1.38967	8.84056	11.68500	11.7238
2018	1.39079	1.21424	9.53107	154.141	1.095500	1.89153	1.36451	9.06709	12.11060	12.4768
2019	1.38283	1.23588	9.66184	150.894	1.053860	1.80583	1.34362	9.23156	12.16850	12.8879
2020	1.44027	1.18385	9.41203	149.255	1.073230	1.85161	1.28162	8.80553	12.57700	11.9614
2021	1.39959	1.23748	8.91599	159.848	1.041830	1.79808	1.28791	9.20217	12.38880	12.7593
2022	1.33084	1.25291	9.29731	176.537	1.102790	1.81035	1.23808	9.31203	13.08650	13.9407
2021 Mar.	1.41721	1.20871	9.29731	156.885	1.029650	1.78214	1.33650	8.98949	12.08160	12.3636
Apr.	1.43599	1.18853	9.29861	156.451	1.032190	1.76411	1.30596	8.80375	11.82980	12.0400
May	1.44467	1.18435	9.21175	157.758	1.022770	1.75160	1.29738	8.80716	12.07480	12.0046
June	1.42642	1.20029	9.21311	157.620	1.028940	1.76791	1.31645	8.92554	12.20900	12.1393
July	1.42877	1.20156	9.22526	156.450	1.022890	1.78053	1.29325	8.93711	12.54490	12.2277
Aug.	1.42426	1.20353	9.20073	156.483	1.034390	1.79698	1.30170	8.94943	12.34820	12.2378
Sep.	1.40887	1.21675	9.10606	157.667	1.048660	1.80099	1.31934	9.04781	12.36820	12.3855
Oct.	1.41538	1.21544	9.04486	160.858	1.026830	1.75281	1.28948	9.04159	11.85000	12.0583
Nov.	1.40080	1.23277	8.92530	159.411	1.049950	1.79190	1.28712	9.16792	12.67230	12.6469
Dec.	1.39959	1.23748	8.91599	159.848	1.041830	1.79808	1.28791	9.20217	12.38880	12.7593
2022 Jan.	1.39178	1.24756	8.85089	160.653	1.038330	1.77021	1.29986	9.28428	12.48620	13.0564
Feb.	1.39486	1.24553	8.80282	161.176	1.041370	1.77120	1.28565	9.26715	12.38860	13.2894
Mar.	1.38240	1.24529	8.76816	169.206	1.053220	1.72745	1.27886	9.26235	12.09310	12.8067
Apr.	1.34430	1.27543	8.85442	174.625	1.069500	1.71963	1.30471	9.49109	12.43860	13.1293
May	1.34970	1.25987	8.99062	173.032	1.072130	1.70710	1.29578	9.37269	12.72250	13.2277
June	1.32778	1.27831	8.88920	181.415	1.096520	1.71098	1.27374	9.50959	13.22850	13.5691
July	1.32360	1.29790	8.90599	176.039	1.086520	1.69738	1.25954	9.66137	12.87810	13.4163
Aug.	1.30134	1.30134	8.97070	180.379	1.120300	1.70619	1.27545	9.67820	12.93380	13.8835
Sep.	1.27988	1.31297	9.08174	185.250	1.156590	1.74885	1.25364	9.76381	13.89620	14.2357
Oct.	1.28329	1.29443	9.35891	190.236	1.112280	1.75157	1.28310	9.63623	13.33620	14.1058
Nov.	1.31484	1.26719	9.39038	182.500	1.094700	1.77609	1.24864	9.42356	13.00750	13.8837
Dec.	1.33084	1.25291	9.29731	176.537	1.102790	1.81035	1.23808	9.31203	13.08650	13.9407
2023 Jan.	1.34847	1.24478	9.10606	175.854	1.094180	1.80021	1.24976	9.25969	13.57840	14.0447
Feb.	1.32879	1.25133	9.22824	181.100	1.098620	1.80834	1.24633	9.31532	13.72870	13.8066
2023 Jan. 23	1.35016	1.24199	.	174.563	1.092980	1.80679	1.24377	9.23958	13.26870	13.8133
24	1.34928	1.24266	.	175.892	1.095640	1.80399	1.24484	9.24522	13.32050	13.7684
25	1.34970	1.24076	.	175.933	1.096430	1.80765	1.24463	9.22884	13.38730	13.7867
26	1.35256	1.24145	.	174.737	1.091560	1.80553	1.24090	9.23429	13.36040	13.7961
27	1.35113	1.24356	.	175.647	1.092390	1.79889	1.24635	9.24941	13.38080	13.9150
30	1.35170	1.23975	9.12709	175.802	1.091580	1.80533	1.24444	9.22169	13.38010	13.9406
31	1.34847	1.24478	9.10606	175.854	1.094180	1.80021	1.24976	9.25969	13.57840	14.0447
Feb. 1	1.35154	1.24063	9.11743	175.524	1.096360	1.80038	1.23787	9.22978	13.46930	14.0975
2	1.35737	1.23532	9.12492	174.286	1.097130	1.80693	1.23405	9.18991	13.53110	13.9915
3	1.35355	1.23758	9.12884	174.174	1.104260	1.81253	1.23626	9.21294	13.58660	14.0740
6	1.34169	1.24507	9.09827	177.572	1.113250	1.80349	1.24307	9.26733	13.74910	14.2145
7	1.33875	1.25117	9.08612	177.438	1.116880	1.79861	1.24136	9.31064	13.91970	14.2234
8	1.34191	1.25003	9.09769	175.642	1.109560	1.80205	1.23368	9.30293	13.78290	14.1335
9	1.34346	1.24730	9.11585	176.733	1.105820	1.80387	1.23545	9.28229	13.61090	14.1182
10	1.33991	1.25343	9.10871	176.360	1.106540	1.79039	1.23641	9.33114	13.62600	13.8491
13	1.33700	1.25117	9.12409	176.083	1.108810	1.78396	1.23358	9.31932	13.53930	13.9881
14	1.34166	1.24701	9.14863	177.475	1.099450	1.79044	1.23211	9.29195	13.56470	.
15	1.33738	1.24989	9.15675	177.511	1.109170	1.79356	1.23367	9.31350	13.64800	13.9087
16	1.33654	1.24910	9.16280	179.163	1.108700	1.79617	1.23222	9.30458	13.67930	13.8783
17	1.33097	1.25268	9.15424	178.749	1.115180	1.79508	1.24166	9.32792	13.79830	14.0030
21	1.33394	1.25089	9.17019	179.082	1.101520	1.80296	1.23330	9.31359	13.69320	13.8019
22	1.33226	1.25165	9.18527	179.589	1.102590	1.80415	1.23667	9.31966	13.72630	13.7758
23	1.33066	1.25345	9.16943	.	1.106210	1.80291	1.24011	9.32923	13.73090	13.8396
24	1.32779	1.25619	9.21022	178.057	1.107740	1.80872	1.24195	9.35086	13.73890	13.8129
27	1.32629	1.25667	9.23856	180.575	1.106900	1.80018	1.24711	9.35287	13.77750	13.9149
28	1.32879	1.25133	9.22824	181.100	1.098620	1.80834	1.24633	9.31532	13.72870	13.8066
Mar. 1	1.33387	1.24847	9.19118	181.886	1.106940	1.81566	1.24837	9.29256	13.77870	13.8731
2	1.32972	1.25386	9.18797	181.507	1.109860	1.81028	1.25106	9.33088	13.89900	13.9563
3	1.32994	1.25289	9.17793	181.671	1.107830	1.81005	1.24862	9.32305	13.85830	13.9393
6	1.33004	1.24933	9.20099	180.699	1.108090	1.81085	1.24366	9.29791	13.88130	13.9406
7	1.33058	1.24761	9.21464	181.078	1.110060	1.82515	1.24256	9.28548	13.96510	13.9075
8	1.32337	1.25498	9.22475	181.739	1.117950	1.82427	1.24821	9.33855	14.08150	14.2067
9	1.32584	1.25625	9.24471	181.667	1.115140	1.82833	1.24291	9.34903	14.15970	14.1793
10	1.32716	1.25369	9.24462	180.374	1.106660	.	1.23107	9.33062	14.15410	14.2878
13	1.33575	1.24767	9.21939	179.432	1.105210	1.83399	1.22115	9.28816	14.21000	14.2025
14	1.33731	1.24551	9.18729	177.929	1.099220	1.82904	1.21929	9.27248	14.11800	14.1990

Source: IMF, Washington. * See Explanatory notes, pp. 50-51. 1 ISO currency code: XDR.

VI. Global exchange rate arrangements and monetary policy framework *

As of end-April 2021

Exchange rate arrangement	Monetary policy framework						
	Exchange rate target				Monetary aggregate target	Inflation-targeting framework	Other ¹
	Exchange rate anchor						
	US dollar	Euro	Composite	Other			
No separate legal tender	Ecuador El Salvador Marshall Islands Micronesia, Federated States of Palau Panama Timor-Leste	Andorra ² Kosovo Montenegro San Marino		Kiribati Nauru Tuvalu			
Currency board	Djibouti Hong Kong ECCU ⁴ Antigua & Barbuda Dominica Grenada Saint Kitts and Nevis Saint Lucia Saint Vincent and the Grenadines	Bosnia and Herzegovina Bulgaria ³		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	Cabo Verde Comoros Denmark ³ 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 Libya	Bhutan Eswatini Lesotho Namibia Nepal	Samoa ⁵		
Stabilised arrangement	Cambodia Guyana Iran, Islamic Republic of ⁸ Lebanon Maldives Trinidad and Tobago	Croatia ³ North Macedonia	Singapore		Algeria ⁸ Bangladesh ⁸ Bolivia, Plurinational State of ⁸ Gambia ^{8,11} Nigeria ⁸ Papua New Guinea ⁸ Suriname ⁸ Tajikistan ^{8,9} Tanzania, United Republic of ⁸	Guatemala ⁸ Serbia	Azerbaijan ⁸ Egypt ^{8,9,10} Mongolia ⁹ Sudan ^{8,10}
Crawling peg	Honduras Nicaragua		Botswana				
Pegged exchange rate within horizontal bands			Morocco				

Source: Annual Report on Exchange Arrangements and Exchange Restrictions 2021, Table 4, IMF, Washington. * See Explanatory notes, pp. 51-52. ¹ Includes countries that have no explicitly stated nominal anchor, but rather monitor various indicators in conducting monetary policy. ² IMF-member since 16 October 2020. ³ The member parti-

cipates in ERM II. ⁴ The members participate in the Eastern Caribbean Currency Union. 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

VI. Global exchange rate arrangements and monetary policy framework *

As of end-April 2021

Exchange rate arrangement	Monetary policy framework						
	Exchange rate target				Monetary aggregate target	Inflation-targeting framework	Other ¹
	Exchange rate anchor						
	US dollar	Euro	Composite	Other			
Crawl-like-arrangement			Viet Nam ⁸		Afghanistan ⁸ Burundi ⁸ China ⁵ Congo, Democratic Republic of the ^{8,10,11} Ethiopia ^{8,10,11} Guinea ^{8,10,11} Rwanda ⁸	Costa Rica Dominican Republic ⁸ Ghana ⁸ Philippines ⁸ Romania ¹² Uzbekistan ⁸	Argentina ⁸ Lao People's Democratic Republic ⁸ Malawi ⁸ Mauritania ⁸ Mozambique ^{8,9} Solomon Islands ^{5,10,11} South Sudan ⁸ Switzerland ¹² Tunisia ^{9,12} Zambia ⁸
Other managed arrangement			Kuwait Syrian Arab Republic		Liberia ^{10,11} Myanmar Sierra Leone Zimbabwe	Kenya	Haiti ^{8,11} Kyrgyzstan Tonga Vanuatu Venezuela, Bolivarian Republic of
Floating					Angola Belarus Madagascar Yemen ¹¹	Albania Armenia Brazil ¹³ Colombia Georgia Hungary Iceland India ¹³ Indonesia ¹³ Israel Jamaica Kazakhstan Korea, Republic of Moldova, Republic of New Zealand Paraguay Peru ¹⁰ Seychelles Sri Lanka ¹³ South Africa Thailand ¹³ Turkey Uganda Ukraine Uruguay	Malaysia Mauritius Pakistan ⁹
Free floating						Australia Canada Chile Czechia Japan Mexico Norway Poland ¹³ Russian Federation Sweden ¹³ United Kingdom	Somalia ¹⁴ United States Euro area Austria Belgium Cyprus Estonia Finland France Germany Greece Ireland Italy Latvia Lithuania Luxembourg Malta Netherlands Portugal Slovakia Slovenia Spain

country maintains a de facto exchange rate anchor to the US dollar. ⁹ The central bank is in transition towards inflation targeting. ¹⁰ The exchange rate arrangement was reclassified twice during this reporting period. ¹¹ The exchange rate arrangement or monetary policy framework was reclassified retroactively, overriding a previously

published classification. ¹² The country maintains a de facto exchange rate anchor to the euro. ¹³ The monetary policy framework is referred to as "flexible inflation-targeting". ¹⁴ Currently the Central Bank of Somalia does not have a monetary policy framework.

VII. ISO currency codes *

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	CUP	Cuban peso	Cuba	GMD	Dalasi	Gambia
AFN	Afghani	Afghanistan	CVE	Cabo Verde escudo	Cabo Verde	GNF	Guinean franc	Guinea
ALL	Albanian lek	Albania	CZK	Czech koruna	Czechia	GTQ	Quetzal	Guatemala
AMD	Armenian dram	Armenia				GYD	Guyana dollar	Guyana
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 ²
AUD	Australian dollar	Australia Christmas Island Cocos Islands Kiribati Nauru Norfolk Island Tuvalu	DZD	Algerian dinar	Algeria	HTG	Gourde	Haiti
			EGP	Egyptian pound	Egypt	HUF	Hungarian forint	Hungary
AWG	Aruban florin	Aruba	ERN	Nakfa	Eritrea	IDR	Indonesian rupiah	Indonesia
AZN	Azerbaijan manat	Azerbaijan	ETB	Birr	Ethiopia	ILS	New shekel	Israel
			EUR	Euro	Austria Belgium Croatia ² Cyprus Estonia Finland France Germany Greece Ireland Italy Latvia Lithuania Luxembourg Malta Netherlands Portugal Slovakia Slovenia Spain	INR	Indian rupee	India Bhutan
BAM	Convertible marka	Bosnia and Herzegovina				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				KWD	Kuwaiti dinar	Kuwait
BZD	Belize dollar	Belize				KYD	Cayman Islands dollar	Cayman Islands
			FJD	Fiji dollar	Fiji	KZT	Tenge	Kazakhstan
CAD	Canadian dollar	Canada	FKP	Falkland Islands pound	Falkland Islands (Islas Malvinas)			
CDF	Congo franc	Congo, Democratic Republic of the				LAK	Kip	Lao People's Democratic Republic
CHF	Swiss franc	Switzerland Liechtenstein	GBP	Pound sterling	United Kingdom Guernsey Isle of Man Jersey	LBP	Lebanese pound	Lebanon
CLP	Chilean peso	Chile				LKR	Sri Lanka rupee	Sri Lanka
CNY	Chinese renminbi	China	GEL	Lari	Georgia	LRD	Liberian dollar	Liberia
COP	Colombian peso	Colombia	GHS	Ghana cedi	Ghana	LSL	Loti	Lesotho
CRC	Costa Rican colón	Costa Rica	GIP	Gibraltar pound	Gibraltar	LYD	Libyan dinar	Libya

* Extracted and compiled from ISO communications. ¹ See Explanatory notes on individual countries, pp. 53 ff. ² Accession to the euro area on 1 January 2023, see p 7 (Table I 1).

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 the euro area, 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, Lithuania on 1 January 2015 and Croatia on 1 January 2023 (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, i. e. 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. For information on the framework for the euro foreign exchange reference rates, see the ECB's website: <https://www.ecb.europa.eu/stats/pdf/exchange/Frameworkfortheeuroforeignexchangereference-rates.en.pdf?c883afa875c74877fdf4634dcb85688c>.

Effective euro exchange rates

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 the price competitiveness of the euro area economy as a whole. They are calculated by the Deutsche Bundesbank on the basis of weighted averages of the bilateral euro exchange rates against the currencies of selected trading partners of the euro area, with Q1 1999 = 100. An increase in the index rate indicates an appreciation of the euro and thus, taken in isolation, a negative impact on the price competitiveness of the domestic economy. The weights are based on the trade in manufactured goods (Sections 5 to 8 of

the Standard International Trade Classification (SITC)) and services (Extended Balance of Payments Services Classification (EBOPS) – Total EBOPS services) and also reflect third-market effects.

The table entitled "Overall trade weights used in the calculation of the effective exchange rates (EER) of the euro" on page 49 shows trading partners' membership of the extended or the broad EER group 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 preceding period. See the ECB's website for information on the revised trade weights published from July 2020 (<https://www.ecb.europa.eu/stats/pdf/exchange/updatedtradeweights201708202007.pdf?184ad85cc2c5ccfed05680706893cde>).

The real effective exchange rates of the euro additionally take account of the differences in price movements between the groups of countries under review. If the current price indices for determining the real effective exchange rate 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 is methodically consistent with the ECB's procedure for determining the effective exchange rates of the euro. For more detailed information on methodology and weighting scale, see the website of the Deutsche Bundesbank (<https://www.bundesbank.de/content/796162>).

The indicators are broken down into three groups in Table III. 3. (p. 17).

The group of 27 selected industrialised countries comprises the respective composition of euro area countries

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

Figures in %

As of January 2023

Trading partner	Calculation period for weights ¹											
	Extended EER group of trading partners						Broad EER group of trading partners					
	1995 to 1997	1998 to 2000	2007 to 2009	2010 to 2012	2013 to 2015	2016 to 2018	1995 to 1997	1998 to 2000	2007 to 2009	2010 to 2012	2013 to 2015	2016 to 2018
	Period of use of weights ¹											
	Up to end of 1997	1998 to 2000 ²	2007 to 2009	2010 to 2012	2013 to 2015	From 2016	Up to end of 1997	1998 to 2000 ²	2007 to 2009	2010 to 2012	2013 to 2015	From 2016
Broad EER group							100	100	100	100	100	100
Extended EER group	100	100	100	100	100	100						
Australia	1.01	0.91	1.05	1.15	1.05	1.02	0.82	0.75	0.83	0.90	0.82	0.81
Bulgaria	0.27	0.31	0.63	0.60	0.63	0.68	0.22	0.26	0.50	0.46	0.50	0.54
Canada	1.86	1.96	1.91	1.87	1.81	1.77	1.51	1.62	1.51	1.46	1.43	1.40
China	4.16	4.89	13.76	16.79	17.58	17.65	3.39	4.03	10.90	13.11	13.82	13.94
Czechia	2.39	2.54	4.39	4.38	4.26	4.60	1.95	2.09	3.48	3.42	3.35	3.64
Denmark	3.16	2.84	2.94	2.53	2.44	2.37	2.58	2.34	2.33	1.97	1.92	1.88
Hong Kong	3.68	3.35	2.64	2.61	2.58	2.29	3.00	2.76	2.09	2.03	2.03	1.81
Hungary	1.63	2.19	2.89	2.64	2.71	2.84	1.33	1.80	2.29	2.06	2.13	2.25
Japan	10.07	9.10	6.27	5.89	4.83	4.89	8.22	7.50	4.96	4.60	3.80	3.86
Korea, Republic of	2.89	2.58	3.32	3.23	3.09	3.00	2.35	2.13	2.63	2.52	2.43	2.37
Norway	1.70	1.60	1.75	1.60	1.46	1.28	1.39	1.32	1.38	1.25	1.15	1.01
Poland	2.61	2.97	5.57	5.75	5.98	6.53	2.13	2.45	4.41	4.49	4.70	5.16
Romania	0.72	0.80	1.84	1.88	2.10	2.34	0.58	0.66	1.46	1.47	1.65	1.85
Singapore	2.42	2.08	2.09	2.23	2.09	2.19	1.97	1.71	1.65	1.74	1.64	1.73
Sweden	5.14	4.91	4.48	4.32	4.12	3.94	4.19	4.05	3.55	3.38	3.24	3.11
Switzerland	9.75	8.63	8.20	8.37	7.85	7.40	7.95	7.11	6.50	6.54	6.17	5.84
United Kingdom	23.03	22.48	17.18	15.60	15.82	15.17	18.78	18.53	13.61	12.18	12.43	11.99
United States	23.51	25.86	19.09	18.56	19.60	20.04	19.18	21.32	15.12	14.49	15.41	15.83
Additional countries in the broad EER group												
Algeria							0.37	0.32	0.40	0.40	0.40	0.30
Argentina							0.54	0.50	0.35	0.44	0.36	0.34
Brazil							1.29	1.25	1.44	1.59	1.39	1.16
Chile							0.34	0.31	0.41	0.40	0.32	0.27
China (Taiwan)							1.83	1.89	1.27	1.28	1.16	1.23
Colombia							0.21	0.17	0.19	0.20	0.20	0.18
Iceland							0.07	0.08	0.11	0.09	0.09	0.11
India							1.14	1.17	2.29	2.66	2.66	2.86
Indonesia							0.81	0.61	0.54	0.64	0.62	0.62
Israel							1.05	1.05	0.75	0.79	0.84	0.91
Malaysia							1.15	1.02	0.96	0.96	0.92	0.88
Mexico							0.76	1.07	1.04	1.13	1.21	1.33
Morocco							0.54	0.60	0.66	0.64	0.66	0.72
New Zealand							0.17	0.14	0.14	0.14	0.15	0.15
Peru							0.13	0.10	0.13	0.15	0.15	0.16
Philippines							0.36	0.46	0.34	0.33	0.39	0.42
Russian Federation							2.32	1.76	3.14	3.37	3.10	2.57
Saudi Arabia							0.47	0.42	0.67	0.68	0.80	0.76
South Africa							0.89	0.82	0.89	0.85	0.75	0.72
Thailand							1.13	0.89	0.96	1.00	1.06	1.17
Turkey							2.01	2.11	2.60	2.67	2.69	2.60
Ukraine							0.43	0.36	0.67	0.60	0.44	0.41
United Arab Emirates							0.45	0.47	0.85	0.92	1.02	1.11

^o Weights based on trade in goods and services. Figures have been rounded. In addition, the ECB publishes weighting schemes and indicators for the narrow EER group of trading partners with 12 countries. ¹ Selected calculation periods; for a comprehensive overview, see <https://www.bundesbank.de/en/statistics/exchange-rates/effective-exchange-rates/-/methodology-and-quality-796162>. ² Including the reference period of the indices.

(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 countries of the extended EER group of trading partners; the group of 60 countries consists of the euro area countries as well as the countries of the broad EER group.

■ Overview of world currencies

The end-of-month exchange rates listed in Table IV. 1. (pp. 18-40) 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. 46-47). 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.

■ Value of the special drawing right

The value of a SDR (ISO code: XDR) is currently defined as the sum of the values of fixed amounts of five currencies.

The composition of the currency basket as well as the weights and amounts of the currency units in the basket are generally reviewed every five years. As a result of the latest review, conducted in 2022, since 1 August 2022, the SDR basket has contained the fixed currency amounts shown in column (a). These were fixed on 29 July 2022 on the basis of the average exchange rates in the London spot

exchange market over the preceding three-month period (2 May to 29 July, 2022) and the initial new percentage weights (column b) such that, on 29 July 2022, the new SDR value corresponded with the value calculated on the basis of the old basket (see <https://www.imf.org/en/Publications/Policy-Papers/Issues/2022/07/29/Review-of-the-Method-of-Valuation-of-the-SDR-Amendment-to-Rule-O-1-521564>).

	(a)	(b)
US dollar	0.57813	43.38
Euro	0.37379	29.31
Chinese yuan (renminbi)	1.0993	12.28
Japanese yen	13.452	7.59
Pound sterling	0.080870	7.44

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 foreign exchange reference 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 (e. g. 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 2021 (see Table VI., pp. 44-45) is based on the IMF's "Annual Report on Exchange Arrangements and Exchange Restrictions 2021", which can be accessed online (<https://www.elibrary-areaer.imf.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 arrangements 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

Argentina

Capital controls were introduced by decree on 1 September 2019 in response to the escalating financial and sovereign debt crisis.

Since 23 December 2019 (the date on which Law 27541 entered into force), Argentina has been levying a tax (Impuesto Para una Argentina Inclusiva y Solidaria – PAÍS) of 30% on transactions such as the following:

- purchases of foreign currency banknotes and foreign exchange, including travellers' cheques, by Argentine residents;
- the exchange of foreign currency intended for the purchase of goods or services or for the purchase of services abroad;
- foreign transactions with Argentine bank cards.

The Argentine Tax Authority (Administración Federal de Ingresos Públicos, or AFIP) has been levying an additional tax of 35% on the aforementioned transactions since 16 September 2020. In July and October 2022, the AFIP increased this additional tax for certain transactions to which it is applied.

In addition, since 4 November 2022, there has been a separate settlement exchange rate for non-residents making payments on selected foreign credit, debit and prepaid cards for tourism purposes; this rate stood at 360 Argentine pesos to the US dollar at the beginning of March 2023.

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.

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 customary 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

In addition to the existing official exchange rate of USD 1 = CUP 24, which is to be used only for government sector transactions, a new official exchange rate of USD 1 = CUP 120 was introduced with effect from 4 August 2022. This is to be applied in the government foreign exchange bureaus (CADECA – casas de cambio) as well as for all transactions by households and enterprises.

It is understood that there is a considerably different, black market rate alongside the official, published exchange rates. According to press reports, this rate was around 180 Cuban pesos at the beginning of March 2023.

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

Egypt

In January, the Egyptian pound depreciated strongly. Calculated using the exchange rates from the end of December 2022 and the end of January 2023, the Egyptian pound depreciated by 17.9% against the US dollar and by 19.4% against the euro (calculated on the basis of the middle rates).

El Salvador

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

Equatorial Guinea

See Explanatory notes on Cameroon.

Eswatini

The South African rand is likewise legal tender alongside the lilangeni (convertible at par).

Gabon

See Explanatory notes on Cameroon.

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

As we have only incomplete information on the extensive changes and regulations in the multiple exchange rate system, the information provided below on applying exchange rates – valid since 6 August 2018 – is intended merely as a guideline.

Central bank rate

For imports of essential goods (e.g. basic foodstuffs and pharmaceuticals).

NIMA rate (see <https://www.sanarate.ir/Default.aspx>)

For other, non-specified goods imports and services. Access to the electronic platform NIMA is possible only for certain importers as well as exchange bureaus.

Bureau de change rate

Used in addition to the regulated central bank and NIMA exchange rates, including for travelling abroad, tuition fees at foreign universities, medical treatment and legal fees abroad.

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

Iraq

With effect from 8 February 2023, the official exchange rates were adjusted more sharply.

We recorded the following exchange rates (buying/selling):

7 February 2023 USD 1 = IQD 1,450.00/1,460.00
 EUR 1 = IQD 1,551.500/1,562.200

8 February 2023 USD 1 = IQD 1,300.00/1,310.00
 EUR 1 = IQD 1,395.550/1,406.285

Calculated using these exchange rates, the Iraqi dinar appreciated by 11.5% against the US dollar and by 11.1% against the euro (calculated on the basis of the middle rates).

The official exchange rate applies only to foreign exchange transactions between the central bank and domes-

tic and foreign commercial banks, public sector institutions, money transfer institutions and foreign exchange bureaux.

Kenya

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

Korea, Democratic People’s Republic of

We have no exchange rates for the won as of July 2020.

Lebanon

The ongoing liquidity and economic crisis, coupled with a significant depreciation of the Lebanese pound and the formation of a parallel market, has prompted Lebanon’s central bank to take various steps since mid-2020 to keep the resulting foreign exchange shortage in check.

Multiple exchange rates have emerged in Lebanon: alongside the official exchange rate to the US dollar, there is a bank rate and also the central bank’s own electronic Sayrafa platform, through which commercial banks and foreign exchange dealers operating in Lebanon are expected to settle their business in foreign currency.

After the action taken did not have the desired impact, Lebanon’s central bank changed the official exchange rate to the US dollar from 1,507.50 to 15,000 Lebanese pounds per US dollar, effective from 1 February 2023. This means the Lebanese pound has depreciated by 90% against the US dollar, as far as the scope of the official exchange rate is concerned.

We have the following information on file about how exchange rates have been applied since the end of August 2021:

Official exchange rate

For specific imports (e.g. of wheat, medication, medical supplies and selected commodities) and for servicing limited retail consumer and housing loans denominated in US dollar

Bank rate

For limited cash withdrawals from foreign currency accounts held with banks in Lebanon (we have no exchange rate data on file)

Sayrafa market rate

For imports of petrol, diesel and gas, and for regulated buying and selling of foreign currencies

Press reports indicate that the exchange rate on the black market, which continues to exist, was 80,000 Lebanese pounds to the US dollar at the beginning of March 2023.

Lesotho

The South African rand is likewise legal tender alongside the loti (convertible at par).

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 (convertible at par).

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

It is understood that there are different bureau de change rates alongside the official, published exchange rate.

Panama

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

Senegal

See Explanatory notes on Benin.

Sierra Leone

With effect from 1 July 2022, a currency changeover took place at the ratio of 1,000 (old) leone (SLL) to 1 (new) leone (SLE). The SLL will also remain legal tender at this ratio until the end of March 2023.

Singapore

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

Somalia

We have no exchange rates for the Somali shilling.

Syrian Arab Republic

On 2 January 2023, the reported bank (buying/selling) rates used for credit transfers were changed to USD 1 = SYP 4,500.00 / 4,545.00 and EUR 1 = SYP 4,815.00 / 4,863.15. Based on these rates and the rates as at the end of December 2022 (see p. 38), the Syrian pound has depreciated by 33.3% against the US dollar and by 33.7% against the euro.

At the same time, the official rates that were still published were changed from USD 1 = SYP 2,500.00 / 2,525.00 to USD 1 = SYP 3,000.00 / 3,030.00. This represents a 16.7% depreciation of the Syrian pound against the US dollar. We do not have any information on how these rates are applied.

It is also understood that there are significantly different black market rates alongside these rates.

Togo

See Explanatory notes on Benin.

Turkmenistan

It is understood that there is a considerably different, black market rate alongside the official, published exchange rate.

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

It is understood that there is a considerably different, black market rate alongside the official, published exchange rate.

Yemen

In addition to central bank rates, there are also commercial bank rates, which vary widely from region to region.

Zimbabwe

A weekly auction has been held via the Foreign Exchange Auction Trading System since 23 June 2020; see <https://www.rbz.co.zw/index.php/financial-markets/foreign-exchange-auction>. In addition, the Reserve Bank of Zimbabwe published daily auction rates and interbank rates from 10 May 2022 to 31 January 2023. However, since 1 February 2023, only interbank rates have been published.

It is also understood that there is a significantly different black market rate, which stood at 1,105 Zimbabwe dollar to the US dollar at the beginning of March 2023.

