

Fixed Income Insights

MONTHLY REPORT - APRIL 2023 | UK EDITION

FOR PROFESSIONAL INVESTORS ONLY

Banking woes drive reassessment of duration risk and BoE policy

The disconnect between market expectations on Fed rates and the dot plots has re-opened, despite the Fed downplaying systemic risks. Banking strains suggest tighter financial conditions than widely perceived. The wipe-out of AT1 bondholders in Credit Suisse signals the risks inherent in deeply subordinated bank debt.

Growth and inflation expectations – Market focus shifts to “too much tightening, too late” as UK flirts with recession

US bank runs increase recession risks, as Fed’s Powell conceded bank stresses may tighten credit conditions by 25-50bp. Portfolio flows into money market funds, and out of bank deposits, reflect concerns about a re-run of the GFC. (pages 2-3)

Yields, curves and spreads – Extent of curve inversion declined as 2-year yields fell sharply, bank spreads widened

Collapse in G7 2-year yields signals financial stability concerns, despite central banks downplaying systemic risks. (pages 4-5)

Performance – Safe havens and duration dominate returns in March and Q1 as banking shock unfolds

Flight to safe havens drove outperformance by government bonds in Q1, while inflation-linked bonds performed strongly, helped by duration, though 12M returns remain deeply negative for long maturities. (pages 6-8)

Sovereign and climate bonds – “Greenium” more evident again in long climate-WGBI after March rally

Climate-WGBI outperformed in March, despite the US underweight, as JGBs and Bunds performed strongly. (page 9)

Appendix (from page 10)

Global bond market returns, historical bond yields, bond market durations and market values and foreign exchange returns.

Chart 1: The collapse in G7 2-year yields reflects a re-appraisal of financial stability risks, and may also reflect inflows from bank deposits.

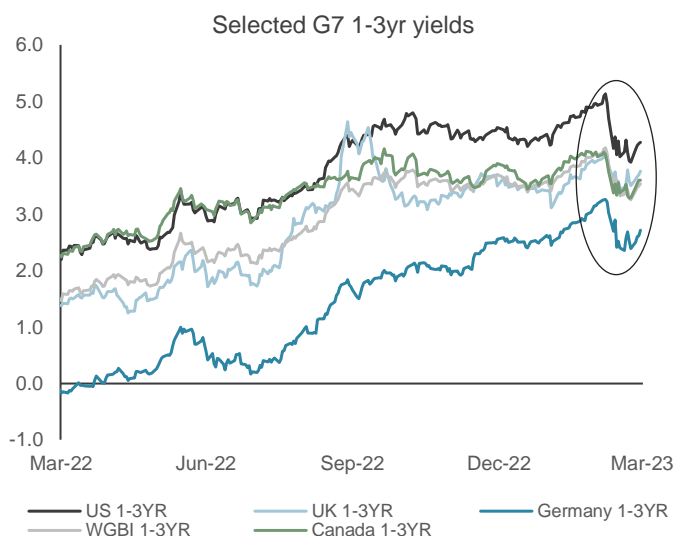
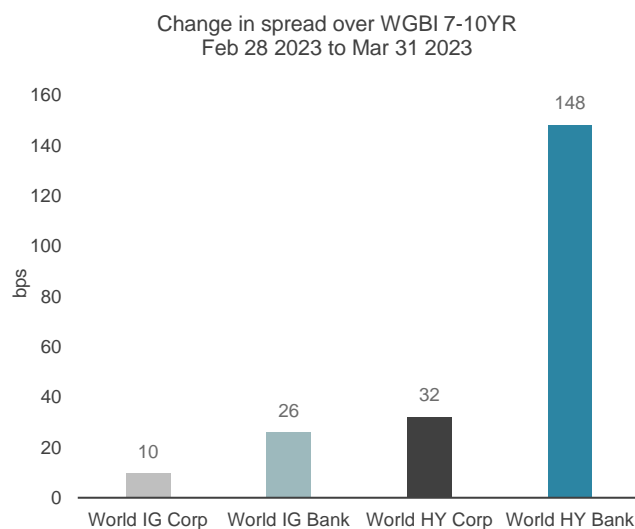


Chart 2: High yield bank spreads widened substantially after US banking woes and the bail-in of AT1 holders in Credit Suisse.



Macroeconomic Backdrop – Growth and Inflation Expectations

Market focus shifted to banking woes in March, although growth forecasts have yet to show meaningful downgrades, and there may be compensation in less policy tightening. UK growth is close to zero, with some sectors contracting. Fund flows in March show the risk-aversion ushered in by the banking crisis, though the flows are modest to date versus Covid.

The UK has avoided recession, with GDP “flat” in the 3M to February – still 0.2% below pre-Covid levels. Consensus forecasts a 2023 recession. The energy price shock, negative real wage growth and fiscal tightening leave a high risk of recession (Chart 1).

But Feb inflation data proved stronger than expected in the UK, as higher food prices helped drive the y/y rate to 10.4% y/y on the CPI. Utility prices are likely to prevent UK inflation falling quickly, delaying BoE rate cuts, unless banking woes intervene (Chart 2).

Chart 3 shows the transformation of the UK labour market since Covid, with unemployment near 50-year lows and wage growth, which has trended higher since early 2022, helping drive inflation higher. Increased industrial action in the public sector suggests wage growth has not yet peaked, with some evidence of action spreading to the private sector (Chart 3).

March saw sizeable capital flows into US money market funds, which came mainly from bank deposits, unsurprisingly, though the flows are small to date, compared to Covid. Central banks moved quickly to enhance the provision of US dollar liquidity (March 19), offering daily dollar swaps from March 20, to ease funding strains in global markets, and prevent tightening in credit conditions.

Chart 1: Consensus forecasts show only the UK contracting, even if growth elsewhere is forecast to be weak. Uncertainty is highest in China, if growth can be switched away from net exports.

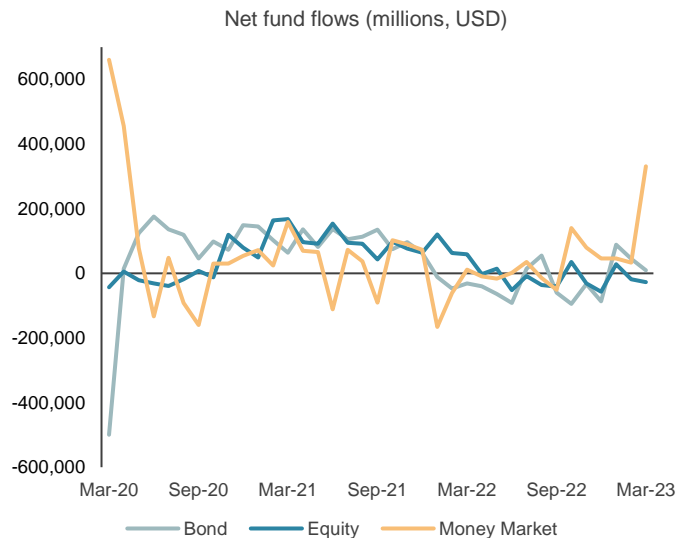
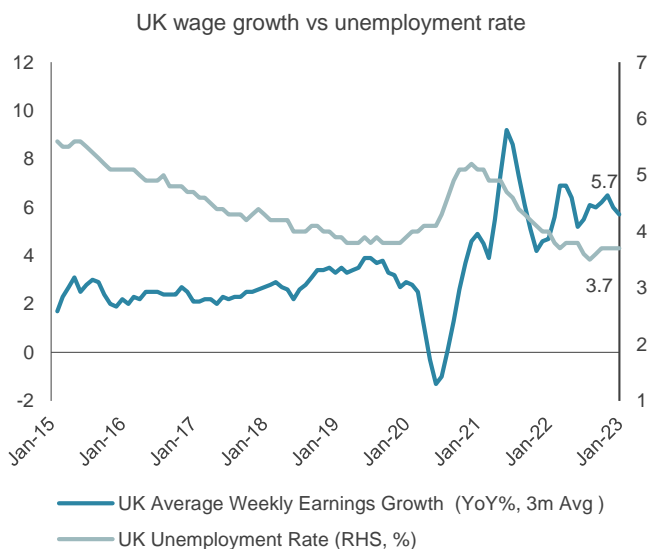
Latest Consensus Real GDP Forecasts (% , March 2023)			
	2022	2023	2024
US	2.1	1.0	1.0
UK	4.1	-0.5	0.8
Eurozone	3.3	0.5	1.2
Japan	1.6	1.0	1.1
China	3.0	4.9	5.0
Canada	3.5	0.5	1.5

Chart 2: February inflation data generally disappointed, and the fall in inflation slowed, with food prices still strong, not helped in Europe by the absence of Ukrainian grain exports.

Consensus Inflation Forecasts (% , March 2023)				
	2023	Change Since Jan-23 (Bps)	2024	Change Since Jan-23 (Bps)
US	4.1	40	2.5	0
UK	6.6	-40	2.4	-10
Eurozone	5.8	-20	2.5	0
Japan	2.1	30	1.3	0
China	2.3	0	2.3	0
Canada	3.7	0	2.2	0

Chart 3: Cost-push pressures from wages remain an issue for the BoE, with unemployment near a 50-year low, and further industrial action. Recent public pay awards point to higher wage growth.

Chart 4: Inflows into money market funds in the US, mainly out of bank deposits, show the initial impact of US regional banking woes. But flows are modest by Covid shock standards.



Source: FTSE Russell and Refinitiv. All data as of March 31, 2023. Past performance is no guarantee of future results. Please see the end for important legal disclosures. Bond market data is derived from FTSE Fixed Income Indices. See Appendix Glossary for list of indices used for each market. For professional investors only.

Financial Conditions and Monetary Policy Settings

A flight to quality drove government bond yields lower in March, and short breakevens fell, after banking stress, even though the Fed and BoE raised rates by 25bp. Fed Chairman Powell conceded financial conditions may be tighter than perceived due to indicators not capturing tighter loan conditions, even if Governor Bailey downplayed the systemic risks.

UK M2 growth continues to slow sharply, after substantial monetary tightening (415bp in the UK since November 2021) (Chart 1). A buyer was found for SVB's subsidiary in the UK, but financial spreads widened after Credit Suisse AT1 holders were wiped out.

Chart 2 shows updated Fed dot plots, after the March 22 FOMC meeting. The median projection is one more 25bp increase in Fed funds to a peak around 5.1% at end-year. But the market projects policy easing later in 2023, and 2024, with the risk of further banking woes a key factor in the economic outlook now. This is reflected in the decline in 2-year yields in March (see page 1).

The BoE, ECB and US Fed carried through with further 25-50bp rate increases in March, despite banking system strains (see Chart 3). Not raising rates in March might have hit confidence further, after March bank runs. BoE Governor Bailey downplayed systemic risks, but Fed Chairman Powell conceded recent tightening in financial conditions may be worth at least another 25bp on rates.

Inflation breakevens fell back sharply in response to SVB's woes, as memories of the deflationary shock from the GFC were revived. Medium and longer breakevens remain more stable, on the view central banks would rapidly reverse recent tightening moves should systemic risk become more evident.

Chart 1: M2 growth has slowed sharply in the UK, but has become a less reliable indicator of future inflation, given its unstable velocity. UK M2 growth has trended lower since end-2020.

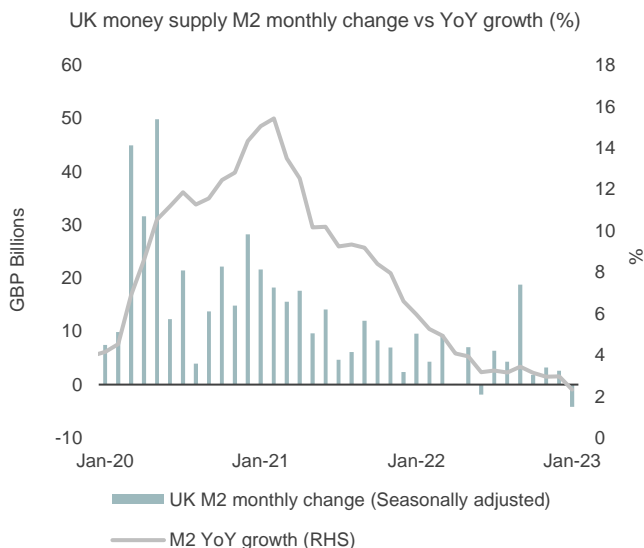


Chart 2: Updated Fed dot plots show rates peaking at 5.1% on the median, with no rate cuts until 2024. Markets project about 50bp of easing by end-2023, in response to recent banking woes.

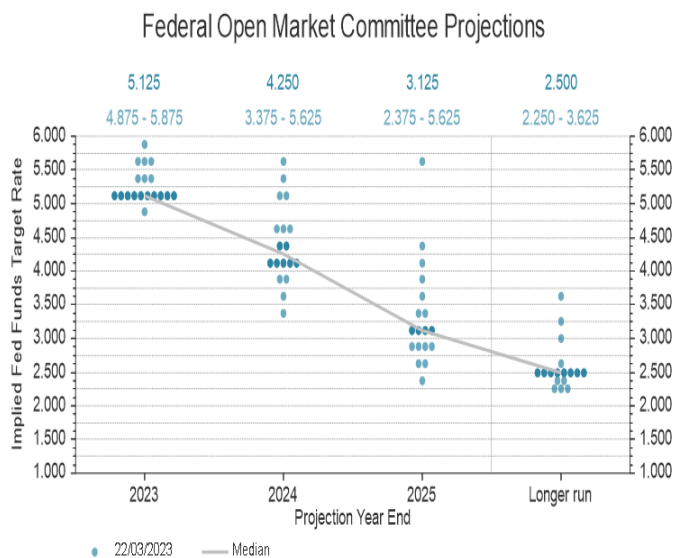


Chart 3: Steep G7 central bank rate rises tightened in financial conditions in 2022. The Fed, ECB and BoE raised rates a further 25-50bp in March, taking overall UK tightening to above 400bp.

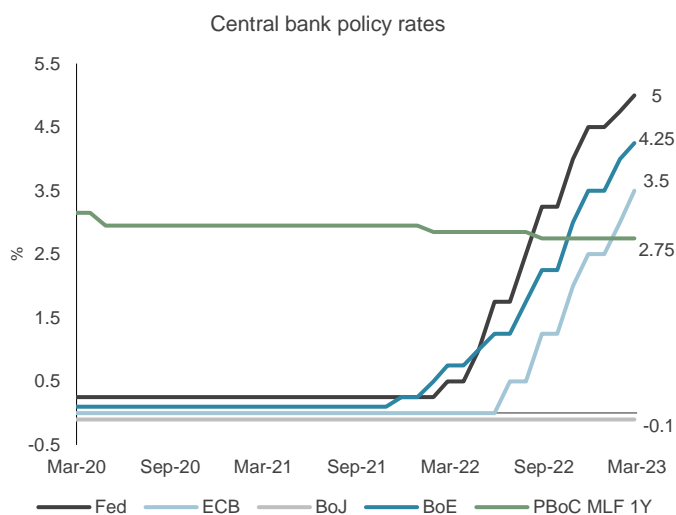
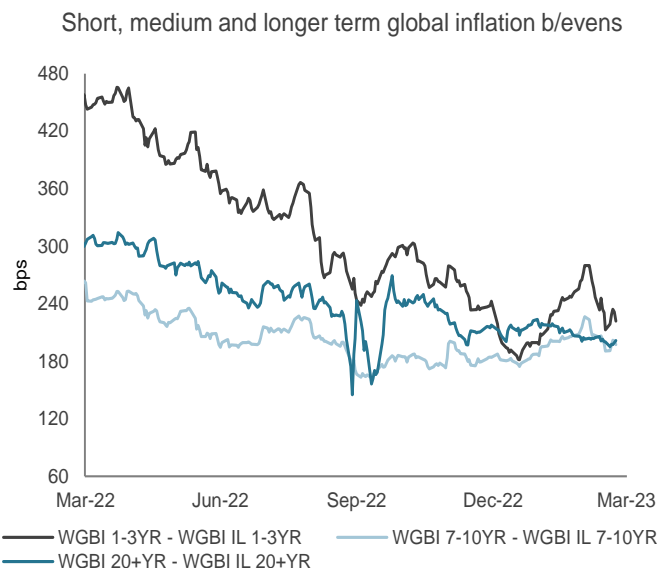


Chart 4: Inflation breakevens show the impact of the deflationary shock from March banking failures in the US and Switzerland. Medium and longer term breakevens remain more stable.



Source: FTSE Russell and Refinitiv. Chart 2 is sourced from Federal Reserve. All data as of March 31, 2023. Past performance is no guarantee of future results. Please see the end for important legal disclosures. Bond market data is derived from FTSE Fixed Income Indices. See Appendix Glossary for list of indices used for each market. For professional investors only.

Global Yields, Curves and Spread Analysis

Chart 1: Nominal 7-10-year yields declined sharply after the US banking crisis broke on March 8, and the flight to quality developed. Declines in US yields were broadly matched throughout the G7.

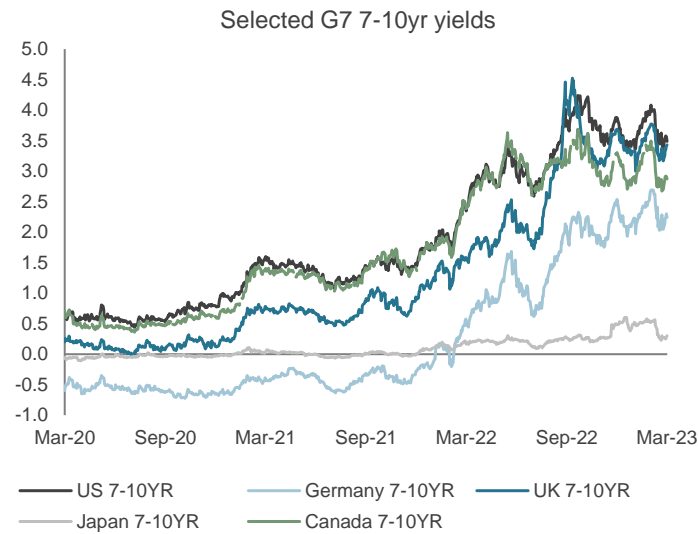


Chart 2: Real 7-10-year yields also fell sharply after the banking crisis, though not as much as conventionals, as the latter proved a safe haven of choice. Real yields remain well above 2020-22 levels.

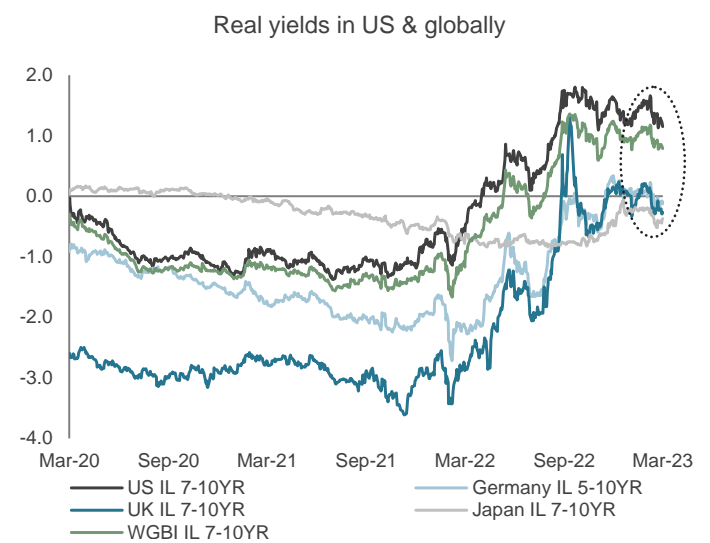


Chart 3: 10s/2s yield curves generally steepened, as 2-year yields collapsed on lower G7 rate expectations. Japan was an exception, with 2-year yields already at the lower bound, so the curve flattened.

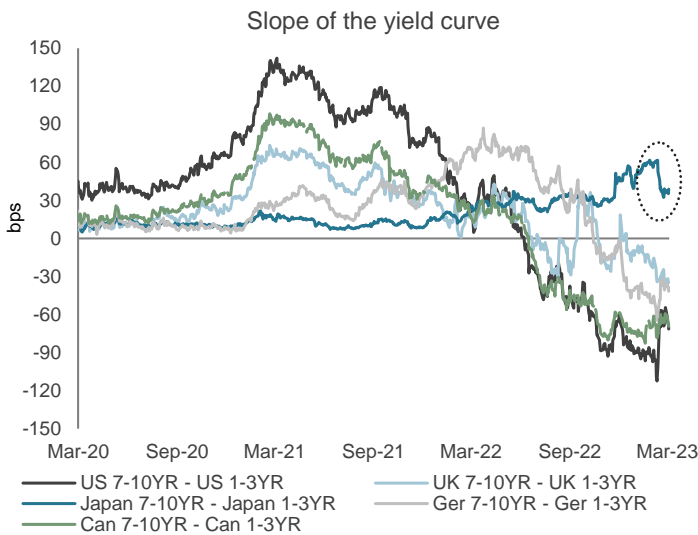


Chart 4: The 20s+/2s yield curves steepened as 2-year yields fell, excluding Japan. But note that long-dated yields also fell, as the banking crisis was seen as a deflationary event.

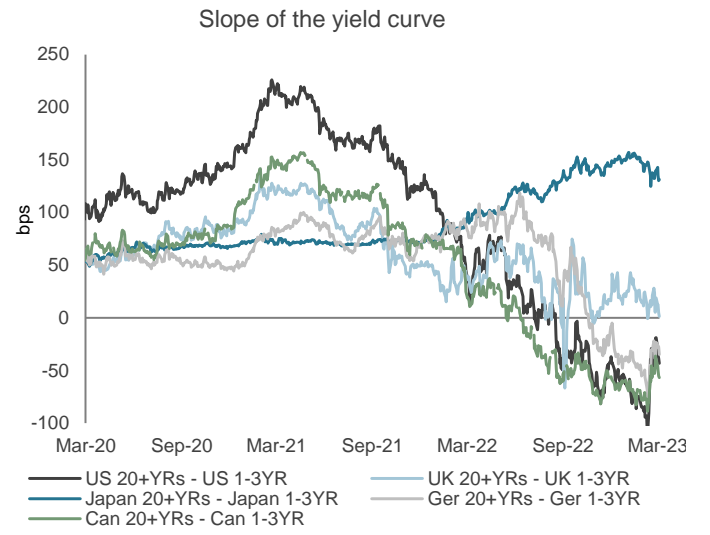


Chart 5: 7-10-year breakevens reversed their February increases, as nominal yields fell a little more than real yields, and investors scaled back inflation expectations after the deflationary banking shocks.

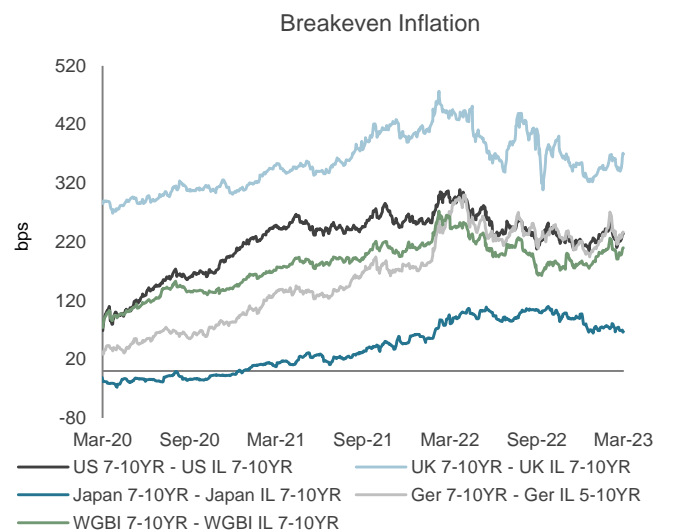
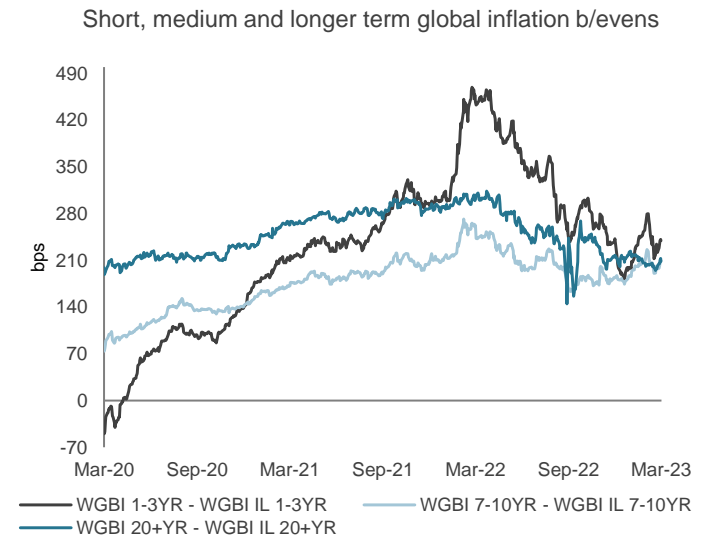


Chart 6: Short run inflation breakevens fell sharply, reflecting the collapse in 2-year nominal yields, and lower inflation prospects, if a credit crunch develops. Longer dated breakevens fell, but by less.



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Yield Spread and Credit Spread Analysis

Chart 1: G7 and global 7-10yr yields broadly fell together in March, so US spreads barely moved, despite banking woes being centered in the US. The demise of Credit Suisse in Europe may explain this.

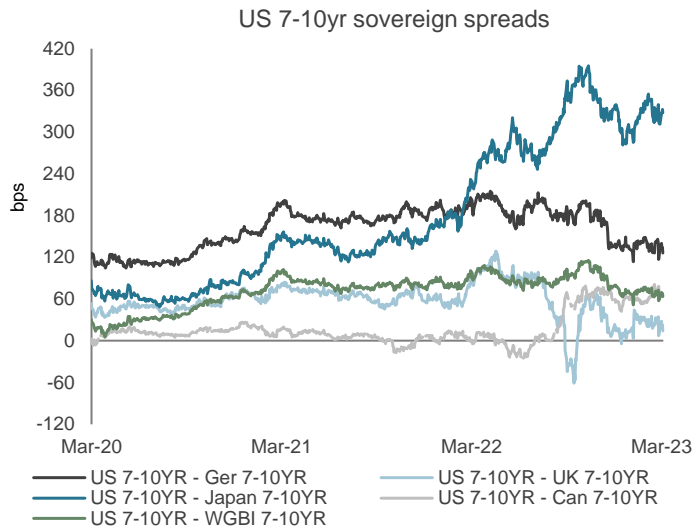


Chart 2: Peripheral Eurozone 7-10yr yield spreads were also quite stable in March, as Italian yields tracked core Eurozone yields lower. The ECB stated it would provide bank liquidity if needed.

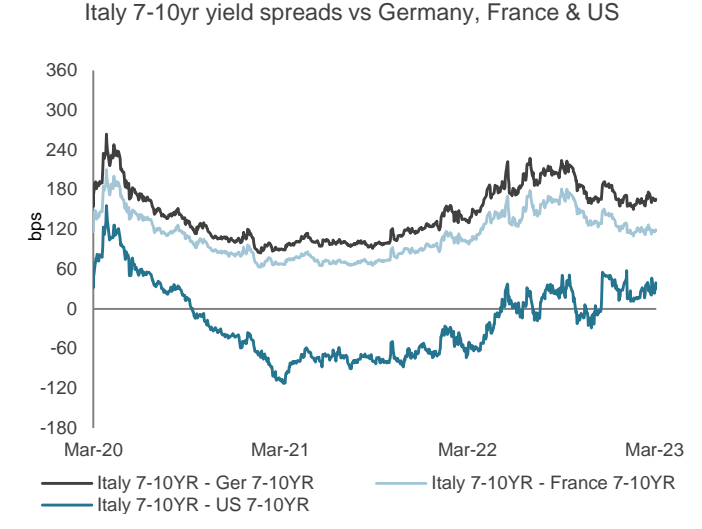


Chart 3: EM 7-10-year yield spreads widened in March, on the view cross border flows may fall in a banking crisis, but moves were modest, as the Fed agreed to offer overnight dollar swaps.

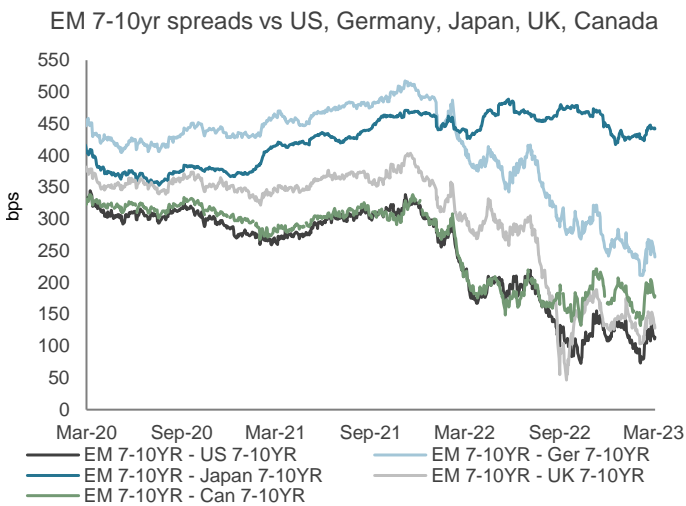


Chart 4: China 7-10-year sovereign spreads increased in March, as G7 yields fell more after the banking shocks. This demonstrates the low correlation between Chinese and G7 government bonds.

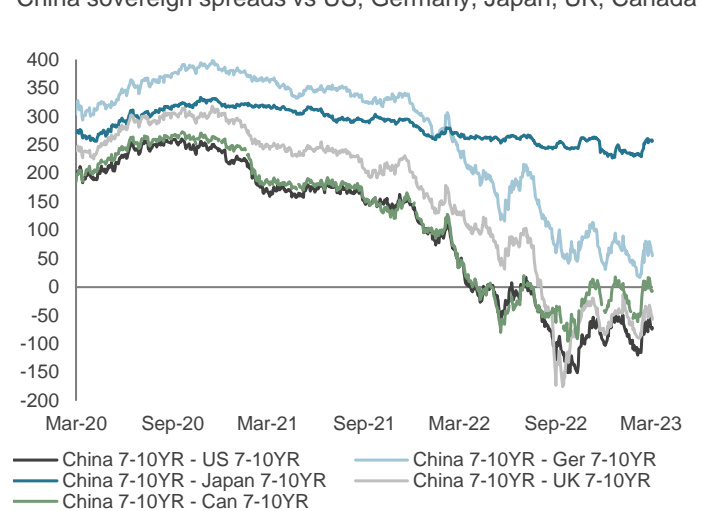


Chart 5: Unsurprisingly, high yield financial spreads spiked more than other credit spreads in the Eurozone and US, after the shock to the AT1 market from the bail-in of Credit Suisse AT1 holders.

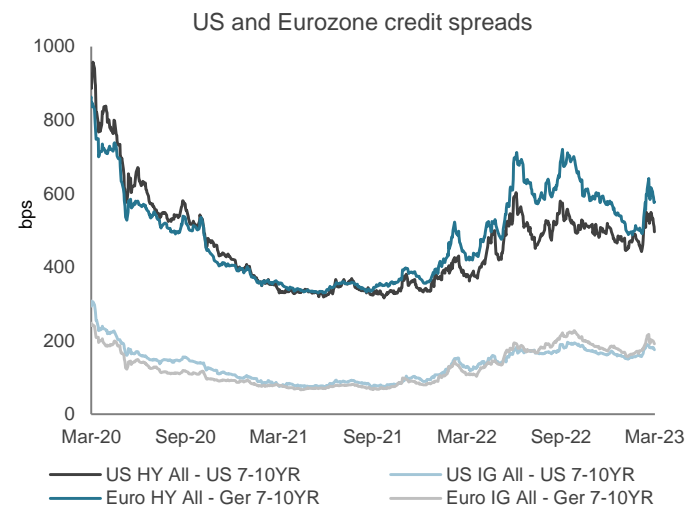


Chart 6: Chinese \$ HY spreads rose above 3000bps, tracking the widening spreads of US HY in March, as the flight-to-safety drove investors from risky HY bonds to the safety of Treasuries.



Global Sovereign Bond Returns – 3M and 12M % (GBP & LC, TR) as of March 31, 2023

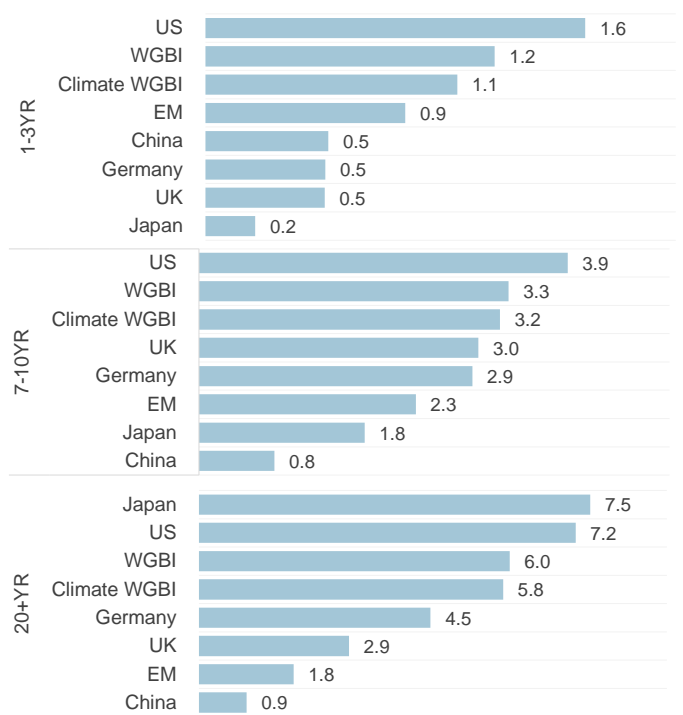
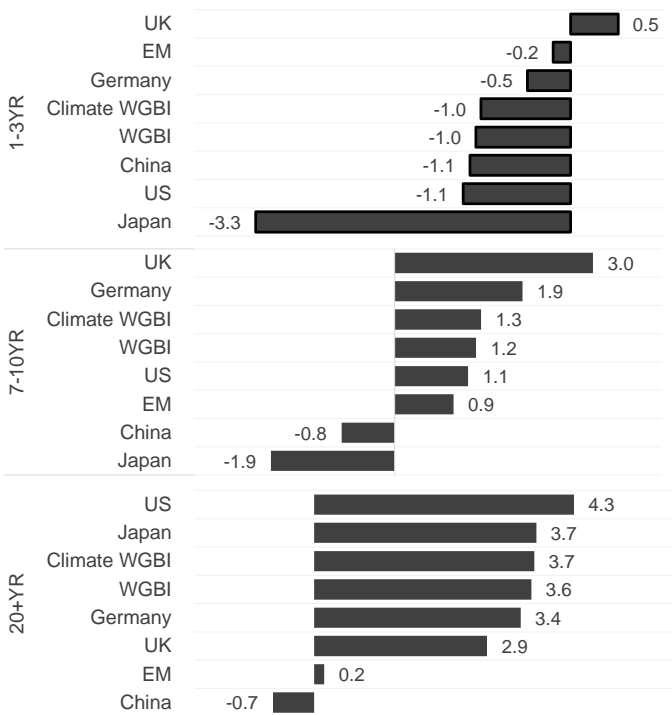
The March rally on banking woes meant Q1 returns were positive for gov. bonds globally, led by longs, as markets reduced expected tightening. Long Treasuries, JGBs, Climate-WGBI and Bunds offered positive returns of 3-4%, in sterling terms. But 12M returns remain deeply negative, with losses of 12-32% in long Treasuries, Bunds, WGBI and gilts.

Government bonds rallied in Q1, as banking concerns drove a flight to quality, but sterling strength squeezed overseas returns for a sterling investor with losses of 3.3% in short JGBs.

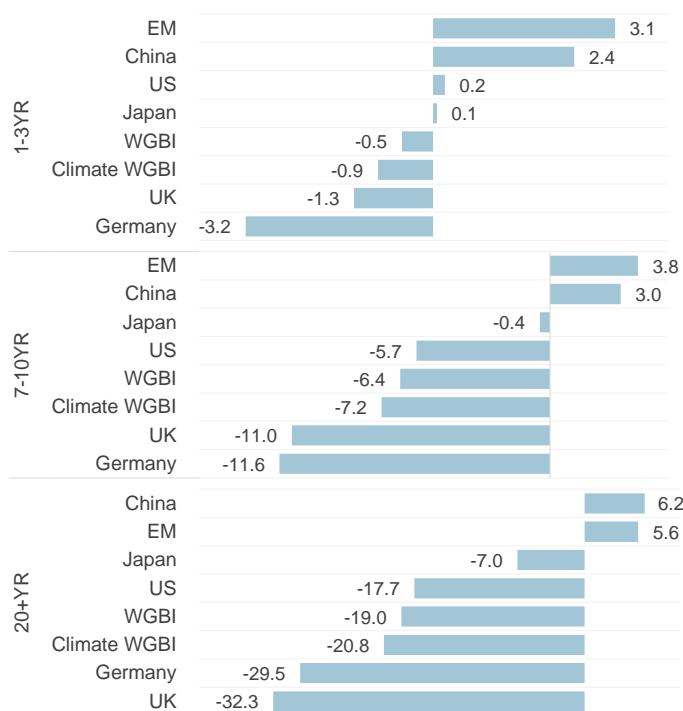
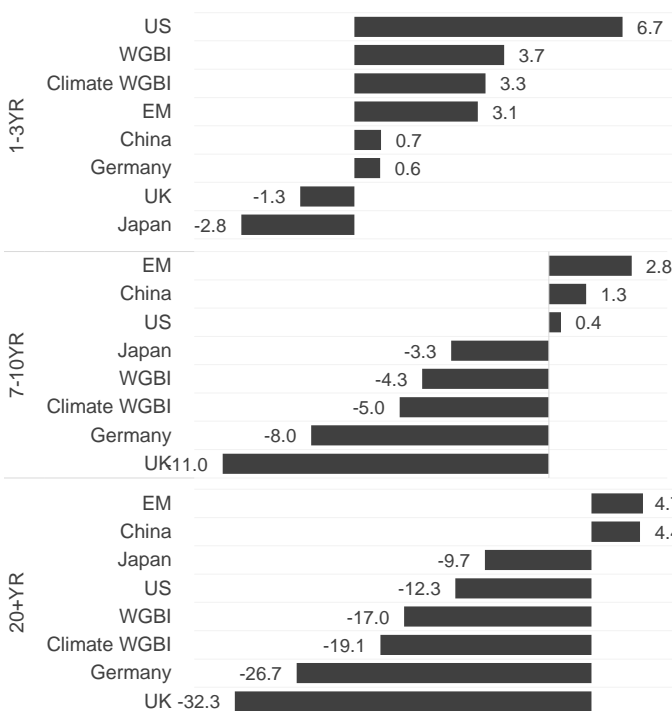
China and EM bonds underperformed in Q1 with small losses of up to 1%, but on 12M, they made gains of 4-5%, in stark contrast to sizeable losses of up to 32% in Treasuries, Bunds, WGBI and gilts, which were hit by central bank tightening.

CONVENTIONAL GOVT BONDS

3M GBP 3M LCY



12M GBP 12M LCY



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Global Inflation-Linked Bond Returns – 3M & 12M % (GBP, LCY) as of March 31, 2023

Global inflation-linked (IL) bonds joined the Q1 rally, with the strongest returns in long IL of 4-6% in Bunds, UK and the US, for a sterling investor, helped by extra duration. 12M returns remain strongly negative for IL however, led by longs. Credit rallied on 3M, apart from EM, in sterling terms. HY returns were reduced by recent bank woes, but outperformed on 12M.

Inflation-linked markets with most depressed end-2022 valuations rallied most in Q1, led by the UK, Bunds and Tips. US and Euro credit returned 1-2% in Q1 in sterling terms, as the strong pound squeezed returns. March's banking crisis hit HY financials.

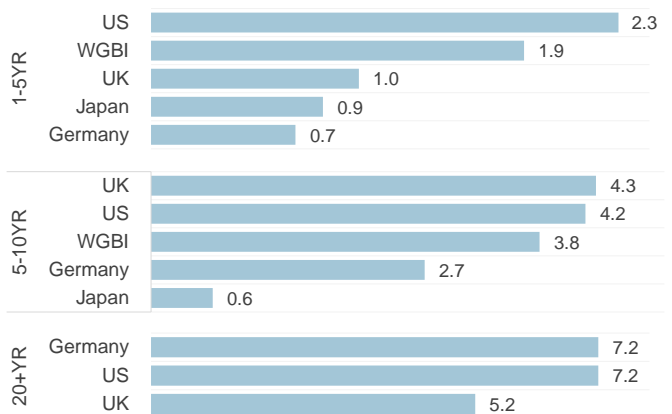
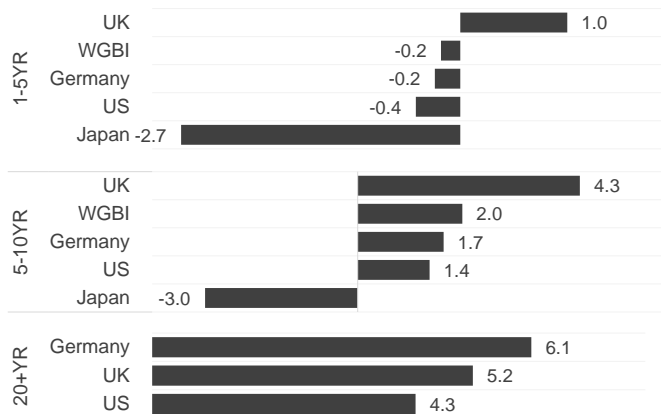
Losses of 19-42% in long US Tips, Bund and UK IL bonds on 12M for a sterling-based investor show the risks in long duration assets, when discount rates on future cash flows rise sharply. JGB IL returns were reduced by the weak yen.

IG credits tracked conventional govts more closely than HY on both 3 and 12 months, as higher duration also squeezed IG returns.

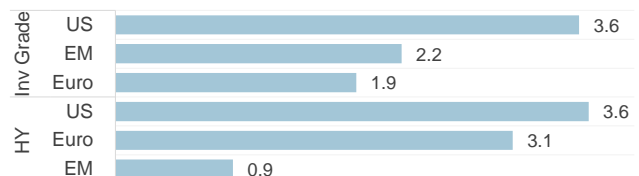
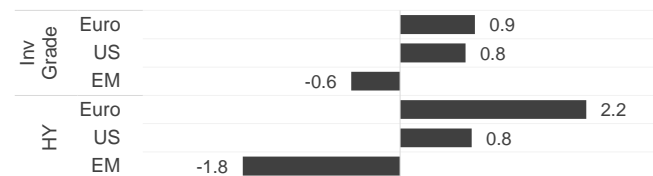
INFLATION LINKED BONDS

3M GBP

3M LCY



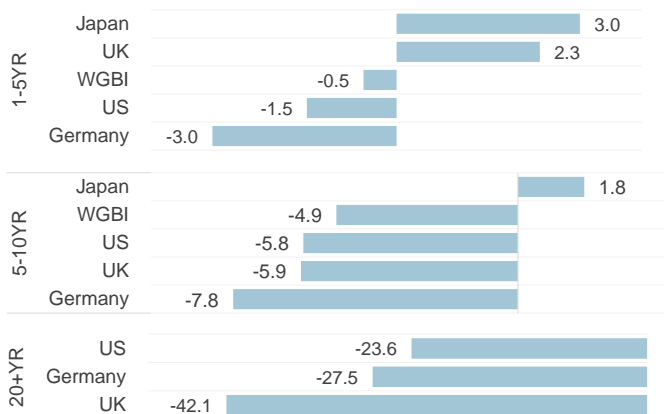
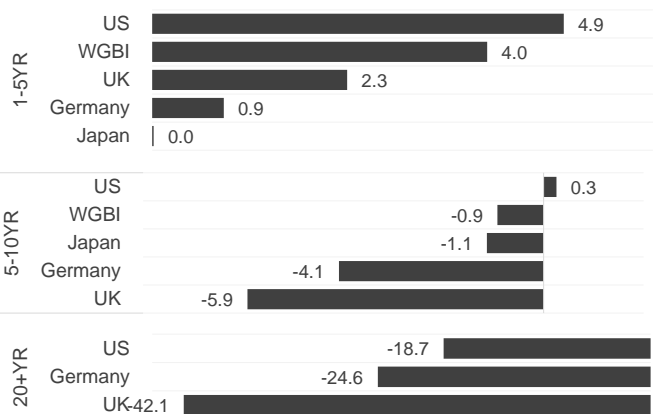
CORPORATE BONDS



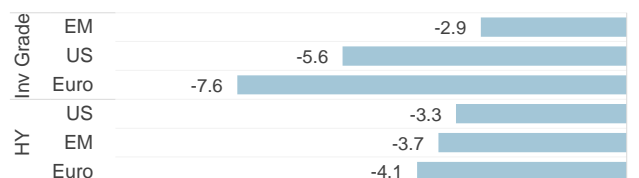
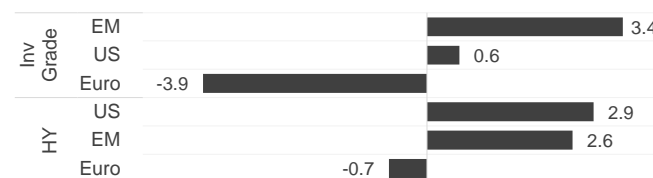
INFLATION LINKED BONDS

12M GBP

12M LCY



CORPORATE BONDS



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Top and Bottom Bond Returns – 3M & 12M % (GBP,TR) as of March 31, 2023

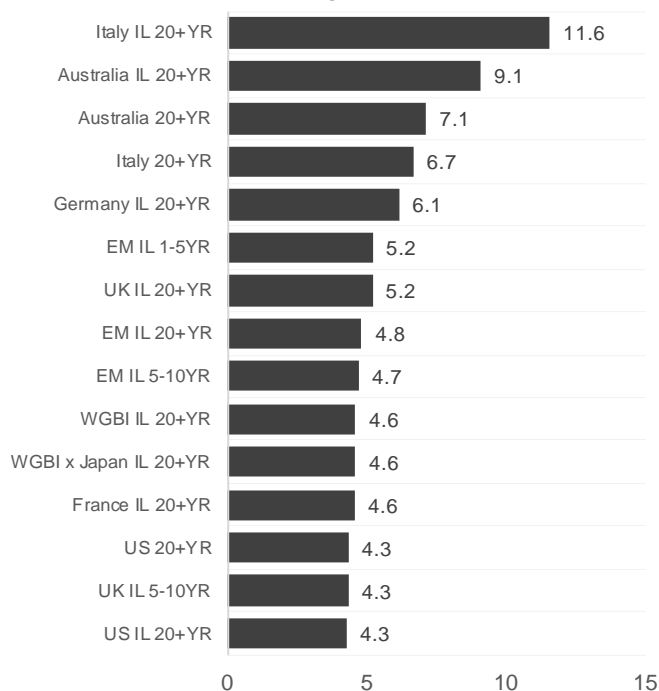
The rally in March reversed February losses in long duration assets, and left gov't bond returns strongly positive for Q1, with long inflation-linked bonds showing returns of 5-12% in Italy, Australia and the UK in sterling. Some of the strongest Q1 performers were weakest on 12M, like long gilts, UK and Italian IL bonds. EM IL bonds offered the best 12M returns.

Long conventional and inflation-linked markets still show sizeable losses of 17-42% on 12M in sterling terms, led by long UK index-linked bonds and long gilts, even if the Q1 rally reduced these losses, helped by the flight to quality on banking woes.

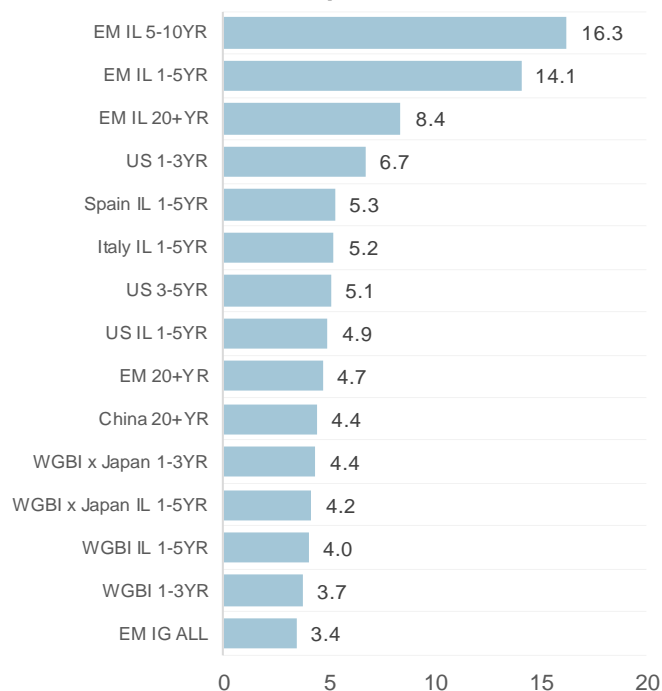
EM inflation-linked bonds gained up to 16% in sterling terms, on 12M, helped by strong currencies. Dollar strength and the Euro rally also meant short US Treasuries, Tips, Spanish and Italian inflation-linked bonds achieved returns of 5-7% in sterling on 12M.

3M GBP 12M GBP

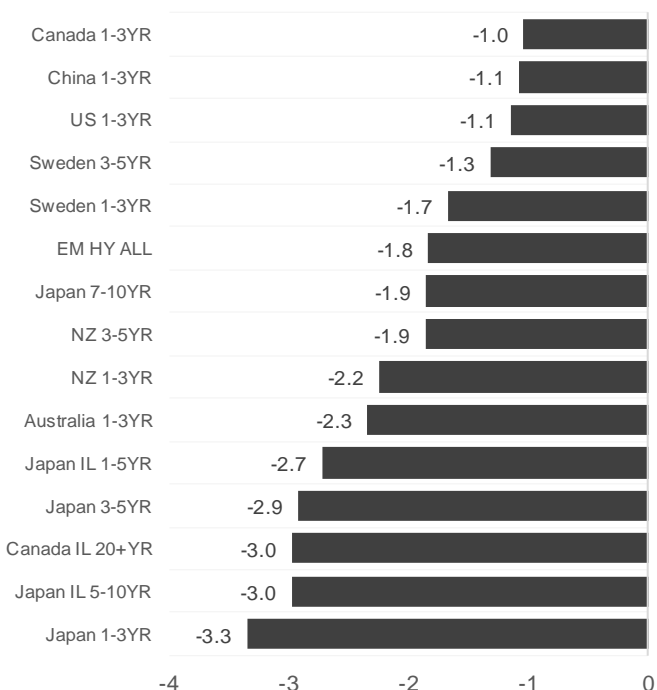
Top 15



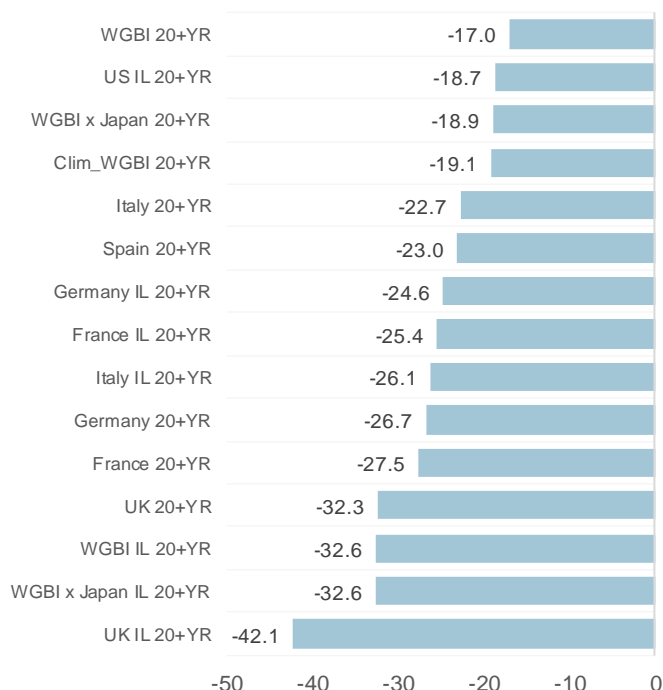
Top 15



Bottom 15



Bottom 15



Sovereign and Climate Bonds Analysis

Chart 1: Climate-WGBI performed strongly in Q1, as extra duration boosted returns, after the marked 2022 underperformance.

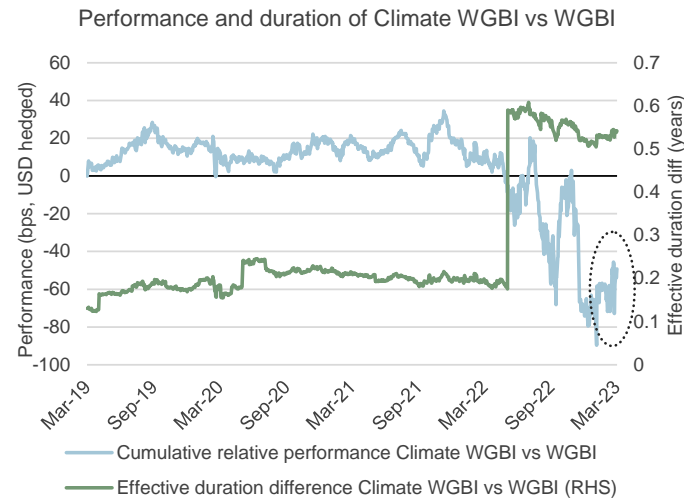


Chart 2: Japan's overweight, and the US underweight, are the most significant in the climate WGBI, driving 2022-23 performance.

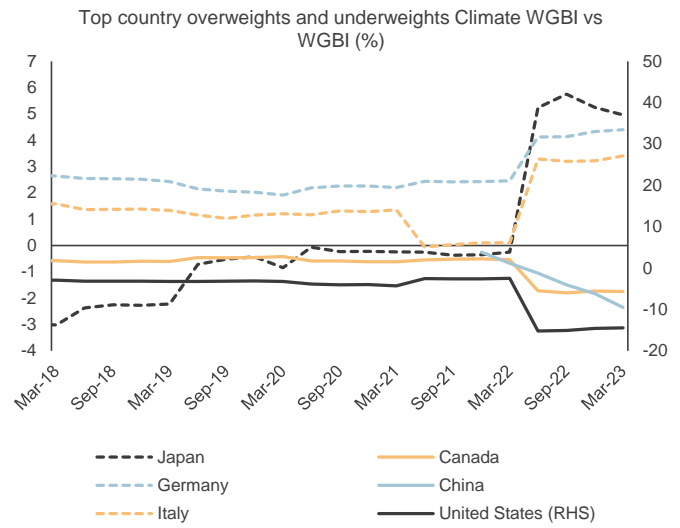


Chart 3: Climate WGBI has a lower yield to maturity versus WGBI, reflecting the higher weight of lower yielding Europe and Japan.

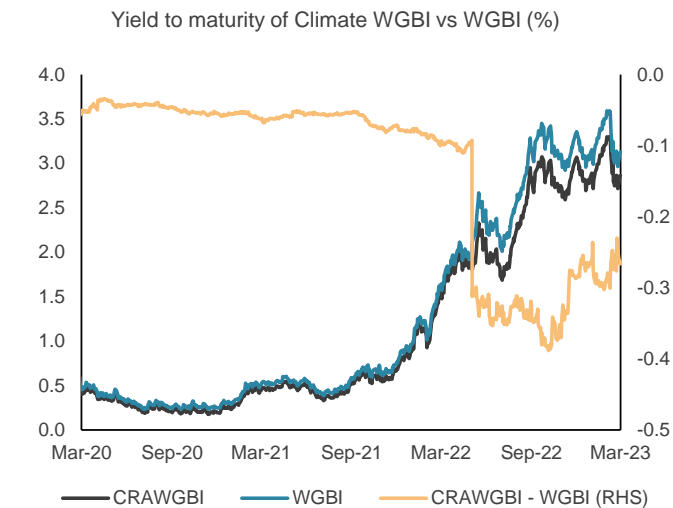


Chart 4: Big differences in Credit Quality: Climate WGBI has a lower weight in AA and a higher weight in AAA, A & BBB vs WGBI.

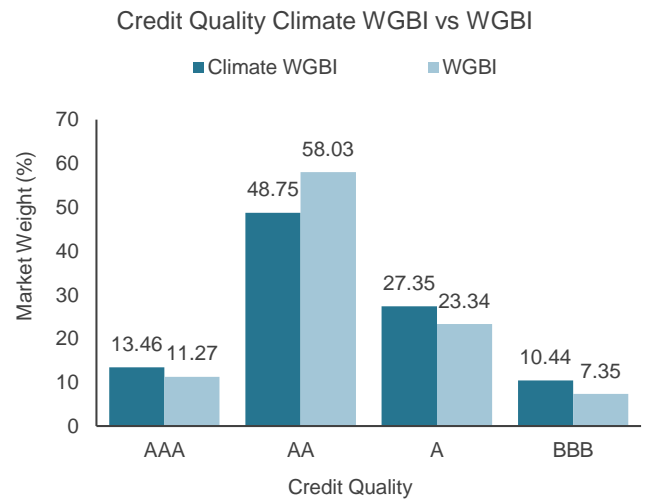


Chart 5: The "greenium" is more evident again in climate-WGBI after the March rally, and tends to be cyclical, increasing in rallies.

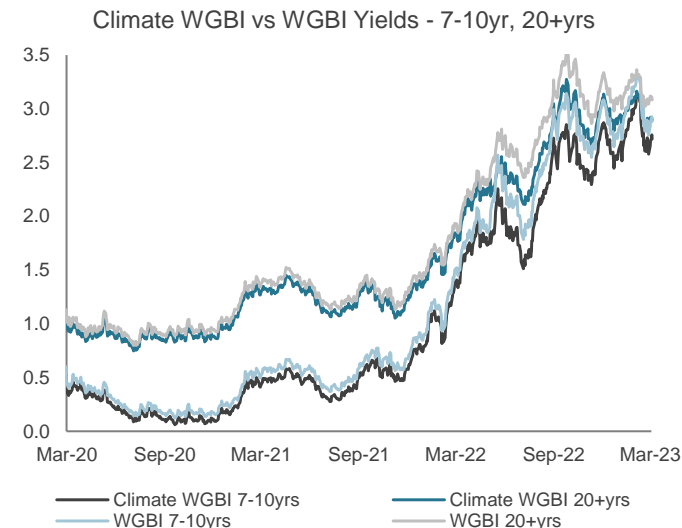
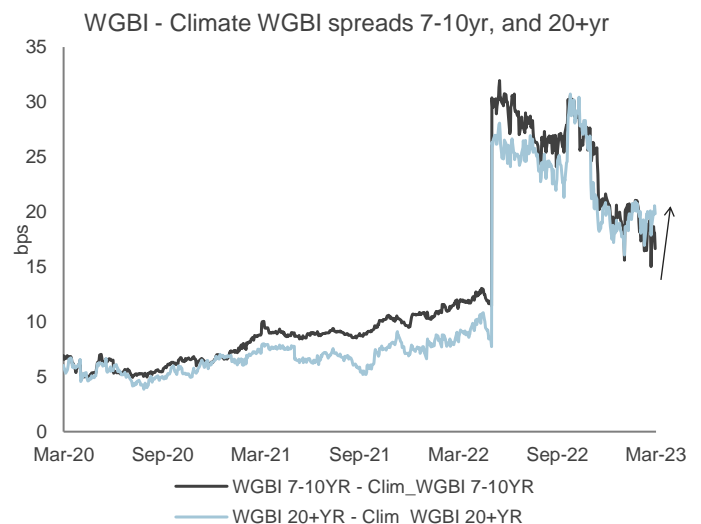


Chart 6: Long WGBI yields trade above long climate-WGBI yields, after the March rallies, after trading through for a protracted period.



Appendix – Global Bond Market Returns % (GBP & LC, TR) – March 31, 2023

Government Bond Returns

Top 15% Bottom 15%

Green highlight indicates highest 15%, red indicates lowest 15%.

		3M		6M		YTD		12M	
		Local	GBP	Local	GBP	Local	GBP	Local	GBP
US	1-3YR	1.61	-1.14	2.32	-7.62	1.61	-1.14	0.20	6.70
	7-10YR	3.92	1.10	4.55	-5.61	3.92	1.10	-5.71	0.41
	20+YR	7.25	4.34	5.08	-5.13	7.25	4.34	-17.67	-12.33
	IG All	3.58	0.76	7.07	-3.33	3.58	0.76	-5.56	0.57
	HY All	3.65	0.84	7.58	-2.87	3.65	0.84	-3.34	2.93
UK	1-3YR	0.51	0.51	3.16	3.16	0.51	0.51	-1.35	-1.35
	7-10YR	2.97	2.97	7.71	7.71	2.97	2.97	-11.04	-11.04
	20+YR	2.89	2.89	-0.44	-0.44	2.89	2.89	-32.32	-32.32
EUR	IG All	1.86	0.88	2.93	3.06	1.86	0.88	-7.62	-3.94
	HY All	3.06	2.17	8.09	8.20	3.06	2.17	-4.10	-0.67
Japan	1-3YR	0.21	-3.35	0.05	-1.77	0.21	-3.35	0.07	-2.82
	7-10YR	1.76	-1.85	0.14	-1.67	1.76	-1.85	-0.43	-3.31
	20+YR	7.52	3.71	2.57	0.72	7.52	3.71	-6.97	-9.66
China	1-3YR	0.52	-1.07	0.83	-6.07	0.52	-1.07	2.42	0.67
	7-10YR	0.80	-0.79	1.15	-5.76	0.80	-0.79	3.02	1.26
	20+YR	0.91	-0.68	0.75	-6.14	0.91	-0.68	6.23	4.42
EM	1-3YR	0.85	-0.18	1.83	-3.71	0.85	-0.18	3.11	3.09
	7-10YR	2.30	0.88	4.38	-2.05	2.30	0.88	3.76	2.80
	20+YR	1.82	0.17	3.63	-2.89	1.82	0.17	5.58	4.67
	IG All	2.21	-0.57	5.71	-4.56	2.21	-0.57	-2.85	3.45
	HY All	0.91	-1.83	9.47	-1.16	0.91	-1.83	-3.68	2.56
Germany	1-3YR	0.51	-0.46	-0.58	-0.45	0.51	-0.46	-3.20	0.65
	7-10YR	2.90	1.91	-0.53	-0.41	2.90	1.91	-11.56	-8.04
	20+YR	4.45	3.45	-3.27	-3.15	4.45	3.45	-29.52	-26.71
Italy	1-3YR	1.06	0.09	1.09	1.22	1.06	0.09	-2.40	1.49
	7-10YR	5.19	4.17	4.73	4.86	5.19	4.17	-10.62	-7.07
	20+YR	7.70	6.66	2.78	2.91	7.70	6.66	-25.68	-22.72
Spain	1-3YR	0.87	-0.10	0.03	0.16	0.87	-0.10	-3.24	0.61
	7-10YR	3.29	2.30	1.05	1.18	3.29	2.30	-11.15	-7.61
	20+YR	4.39	3.39	-0.46	-0.33	4.39	3.39	-25.96	-23.02
France	1-3YR	0.83	-0.14	-0.42	-0.30	0.83	-0.14	-3.41	0.43
	7-10YR	2.90	1.91	-0.24	-0.11	2.90	1.91	-11.46	-7.94
	20+YR	3.49	2.49	-2.14	-2.01	3.49	2.49	-30.32	-27.55
Sweden	1-3YR	0.59	-1.67	0.21	-3.17	0.59	-1.67	-1.60	-5.83
	7-10YR	1.57	-0.71	0.31	-3.08	1.57	-0.71	-6.74	-10.75
	20+YR					0.00	0.00	0.00	0.00
Australia	1-3YR	1.64	-2.34	2.50	-3.60	1.64	-2.34	0.97	-4.11
	7-10YR	6.97	2.78	6.72	0.37	6.97	2.78	-0.04	-5.07
	20+YR	11.51	7.14	7.30	0.92	11.51	7.14	-6.20	-10.92
NZ	1-3YR	1.58	-2.24	1.29	1.14	1.58	-2.24	0.73	-3.51
	7-10YR	2.90	-0.96	2.66	2.52	2.90	-0.96	-3.60	-7.66
Canada	1-3YR	1.60	-1.04	2.05	-7.71	1.60	-1.04	0.31	-1.42
	7-10YR	4.07	1.36	3.96	-5.98	4.07	1.36	-0.87	-2.57
	20+YR	5.68	2.93	2.60	-7.21	5.68	2.93	-8.64	-10.21

Appendix – Global Bond Market Returns % (GBP & LC, TR) – March 31, 2023

Inflation-Linked Bond Returns

Top 15% Bottom 15%

Green highlight indicates top 15%, red indicates bottom 15%.

		3M		6M		YTD		12M	
		Local	GBP	Local	GBP	Local	GBP	Local	GBP
US	1-5YR	2.34	-0.43	3.61	-6.46	2.34	-0.43	-1.46	4.93
	5-10YR	4.23	1.40	6.20	-4.12	4.23	1.40	-5.85	0.26
	20+YR	7.18	4.27	11.20	0.39	7.18	4.27	-23.62	-18.67
UK	1-5YR	1.04	1.04	4.42	4.42	1.04	1.04	2.34	2.34
	5-10YR	4.33	4.33	7.26	7.26	4.33	4.33	-5.92	-5.92
	20+YR	5.20	5.20	-10.19	-10.19	5.20	5.20	-42.15	-42.15
EUxUK	1-5YR	0.72	-0.25	0.89	1.02	0.72	-0.25	-3.00	0.86
	5-10YR	2.66	1.67	2.78	2.91	2.66	1.67	-7.76	-4.09
	20+YR	7.18	6.15	4.53	4.66	7.18	6.15	-27.52	-24.63
Japan	1-5YR	0.86	-2.72	1.30	-0.53	0.86	-2.72	2.99	0.02
	5-10YR	0.60	-2.97	0.09	-1.72	0.60	-2.97	1.81	-1.13
EM	1-5YR	4.70	5.21	8.20	3.17	4.70	5.21	16.33	14.07
	5-10YR	3.75	4.70	9.31	4.95	3.75	4.70	17.12	16.26
	20+YR	2.94	4.83	5.34	3.12	2.94	4.83	5.33	8.40
Germany	1-5YR	0.72	-0.25	0.89	1.02	0.72	-0.25	-3.00	0.86
	5-10YR	2.66	1.67	2.78	2.91	2.66	1.67	-7.76	-4.09
	20+YR	7.18	6.15	4.53	4.66	7.18	6.15	-27.52	-24.63
Italy	1-5YR	1.42	0.45	4.02	4.15	1.42	0.45	1.21	5.24
	5-10YR	4.70	3.69	8.60	8.74	4.70	3.69	-4.55	-0.75
	20+YR	12.66	11.58	14.30	14.44	12.66	11.58	-28.96	-26.13
Spain	1-5YR	1.21	0.24	2.12	2.24	1.21	0.24	1.24	5.26
	5-10YR	2.73	1.74	4.53	4.66	2.73	1.74	-5.32	-1.56
France	1-5YR	0.89	-0.08	1.70	1.83	0.89	-0.08	-2.04	1.86
	5-10YR	2.81	1.82	3.52	3.65	2.81	1.82	-6.52	-2.80
	20+YR	5.58	4.56	5.61	5.75	5.58	4.56	-28.24	-25.38
Sweden	1-5YR	1.33	-0.95	3.21	-0.28	1.33	-0.95	3.70	-0.76
	5-10YR	1.80	-0.48	2.07	-1.38	1.80	-0.48	-2.29	-6.49
Australia	1-5YR	3.94	-0.13	7.36	0.96	3.94	-0.13	5.92	0.60
	5-10YR	7.22	3.01	10.89	4.29	7.22	3.01	4.20	-1.03
	20+YR	13.53	9.08	19.73	12.60	13.53	9.08	-6.44	-11.15
NZ	5-10YR	4.80	0.86	7.73	7.58	4.80	0.86	2.58	-1.74
	20+YR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Canada	20+YR	-0.38	-2.97	2.57	-7.24	-0.38	-2.97	-5.99	-7.61

Appendix – Historical Bond Yields % as of March 31, 2023

Global Bond Yields

Top 15% Bottom 15%

Green highlight indicates top 15%, red indicates bottom 15%.

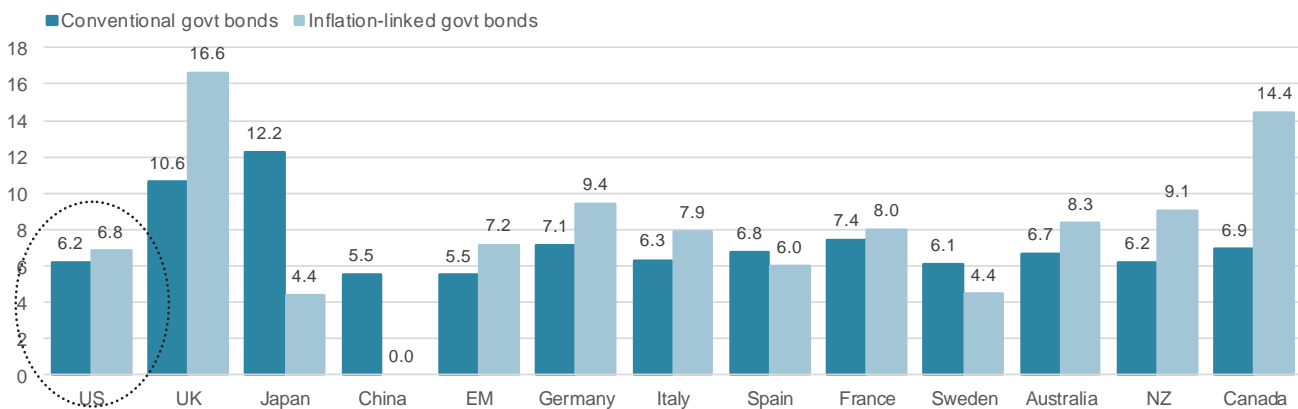
		Conventional government bonds				Inflation-linked bonds			Inv Grade	High Yld
		1-3YR	3-5YR	7-10YR	20+YR	1-5YR	5-10YR	20+YR	All Mat	All Mat
US	Current	4.20	3.72	3.49	3.76	1.44	1.17	1.53	5.25	8.45
	3M Ago	4.54	4.13	3.88	4.11	2.09	1.68	1.82	5.50	9.00
	6M Ago	4.31	4.18	3.83	3.95	2.11	1.82	1.95	5.72	9.55
	12M Ago	2.20	2.49	2.35	2.54	-1.68	-0.66	0.01	3.64	6.10
UK	Current	3.79	3.55	3.43	3.80	0.00	-0.27	0.35		
	3M Ago	3.50	3.65	3.69	3.92	-0.68	0.15	0.49		
	6M Ago	4.39	4.44	4.16	3.72	-0.88	0.08	-0.16		
	12M Ago	1.38	1.52	1.66	1.80	-4.36	-2.98	-1.84		
Japan	Current	-0.09	0.02	0.30	1.22	-1.30	-0.51			
	3M Ago	0.03	0.15	0.48	1.50	-1.22	-0.54			
	6M Ago	-0.07	0.01	0.26	1.27	-1.37	-0.78			
	12M Ago	-0.06	-0.01	0.21	0.94	-1.22	-0.74			
China	Current	2.31	2.56	2.84	3.25					
	3M Ago	2.28	2.53	2.85	3.26					
	6M Ago	2.06	2.42	2.79	3.21					
	12M Ago	2.24	2.50	2.86	3.40					
EM	Current	3.62	4.37	4.69	4.52	2.59	3.67	5.15	5.77	11.18
	3M Ago	3.78	4.38	4.95	4.61	2.79	3.04	5.15	5.92	11.40
	6M Ago	3.70	4.31	5.05	4.78	2.51	3.42	5.19	6.09	13.35
	12M Ago	3.39	4.16	4.63	4.91	2.28	2.91	4.93	4.09	10.46
Germany	Current	2.69	2.36	2.24	2.33	-0.02	-0.12	-0.15		
	3M Ago	2.56	2.53	2.54	2.51	0.40	0.34	0.18		
	6M Ago	1.66	1.82	2.03	2.11	-0.52	-0.10	-0.07		
	12M Ago	-0.17	0.52	0.81	1.00	-4.17	-2.12	-1.62		
Italy	Current	3.27	3.43	3.88	4.34	0.45	1.50	1.74		
	3M Ago	3.34	3.72	4.38	4.72	1.16	2.19	2.18		
	6M Ago	2.87	3.45	4.16	4.37	-0.14	2.02	2.10		
	12M Ago	0.31	1.84	2.68	3.19	-3.37	-0.33	0.78		
France	Current	2.83	2.66	2.70	3.17	-0.29	0.05	0.53		
	3M Ago	2.85	2.82	2.97	3.30	0.15	0.44	0.77		
	6M Ago	1.91	2.12	2.46	2.99	-0.58	0.21	0.63		
	12M Ago	-0.08	0.77	1.32	1.93	-3.64	-1.60	-0.47		
Sweden	Current	2.85	2.56	2.25		0.09	0.32			
	3M Ago	2.80	2.65	2.37		-0.24	0.25			
	6M Ago	2.31	2.41	2.22		-0.72	-0.23			
	12M Ago	0.70	1.59	1.72		-1.55	-1.08			
Australia	Current	3.03	3.00	3.27	3.82	0.01	0.82	1.43		
	3M Ago	3.43	3.62	4.01	4.37	0.60	1.45	1.88		
	6M Ago	3.44	3.64	3.87	4.10	0.80	1.58	2.01		
	12M Ago	1.66	2.97	3.27	3.72	-0.38	0.63	1.30		
NZ	Current	4.78	4.37	4.23	4.37	1.04	1.72			
	3M Ago	5.00	4.62	4.46	4.54	1.54	2.06			
	6M Ago	4.20	4.25	4.30	4.62	1.21	2.13			
	12M Ago	2.68	3.39	3.47	3.85	0.35	1.41			
Canada	Current	3.58		2.87	3.03			1.28	5.00	7.37
	3M Ago	3.90		3.30	3.31			1.33	5.27	7.34
	6M Ago	3.65		3.19	3.13			1.43	5.20	7.38
	12M Ago	2.24		2.38	2.40			0.34	3.76	5.39

Appendix – Duration and Market Value (USD, Bn) as of March 31, 2023

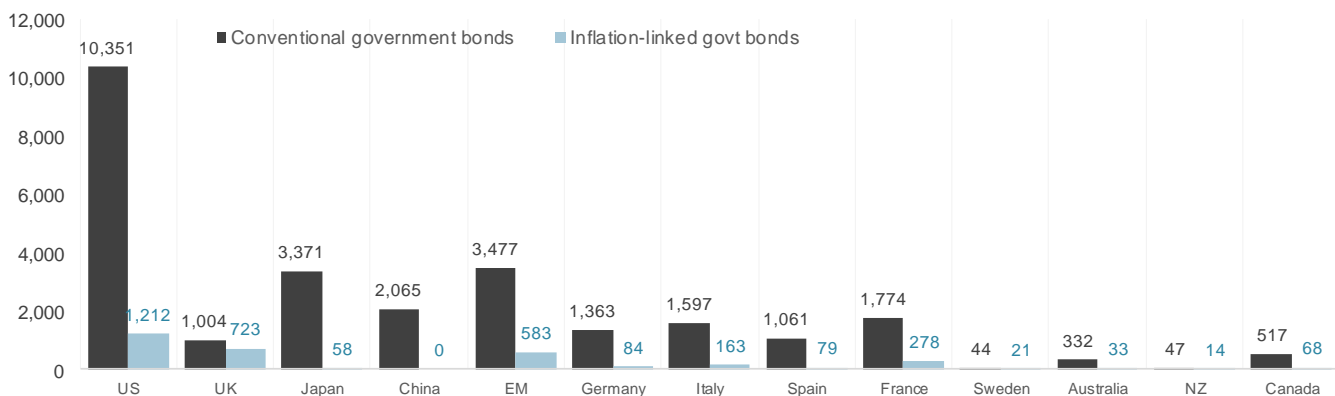
	Conventional government bonds								Inflation-linked government bonds					
	Duration				Market Value				Duration			Market Value		
	3-5YR	7-10YR	20+YR	Overall	3-5YR	7-10YR	20+YR	Total	5-10YR	20+YR	Overall	5-10YR	20+YR	Total
US	3.7	7.6	17.7	6.2	2,245.2	1,053.2	1,303.1	10,351.1	7.0	22.0	6.8	397.6	126.3	1211.8
UK	3.8	7.6	19.4	10.6	121.3	139.2	298.2	1,004.0	6.9	28.9	16.6	130.4	274.9	722.6
Japan	3.9	7.9	24.0	12.2	367.3	402.5	753.5	3,370.8	6.8		4.4	26.9		57.6
China	3.6	7.4	17.5	5.5	467.4	330.4	239.6	2,064.5						
EM	3.4	6.9	15.8	5.5	755.22	605.26	333.30	3,477.0	5.5	13.6	7.2	114.9	145.6	583.2
Germany	3.9	7.8	20.6	7.1	292.80	199.08	145.33	1,362.7	6.7	22.2	9.4	30.5	18.9	84.3
Italy	3.6	7.3	16.6	6.3	315.08	274.48	145.63	1,597.0	6.7	26.7	7.9	55.1	5.5	163.4
Spain	3.7	7.5	17.6	6.8	203.35	189.57	102.51	1,061.5	7.2		6.0	22.4		79.3
France	3.7	7.6	20.1	7.4	328.23	338.37	212.79	1,774.1	6.7	24.6	8.0	118.0	20.2	278.1
Sweden	3.5	8.0		6.1	7.69	9.21		43.7	6.2		4.4	9.9		21.2
Australia	3.5	7.8	18.2	6.7	56.56	90.63	16.39	331.8	7.5	23.0	8.3	9.8	2.9	33.4
NZ	3.4	7.7	17.6	6.2	8.92	6.63	2.37	46.9	6.6		9.1	3.2		14.2
Canada		7.4	17.1	6.9		160.20	104.50	517.1		14.4	14.4		67.7	67.7

	Investment grade bonds					High Yield						
	Duration					Market Value			Duration	MktVal		
	AAA	AA	A	BBB	Overall	AAA	AA	A	BBB	Overall		
US	11.3	8.7	7.2	6.9	7.2	75.2	454.2	2,437.4	3,362.5	6,329.3	4.1	1,161.3
Euro	6.2	5.0	4.7	4.3	4.5	10.3	180.2	1,095.2	1,453.7	2,739.4	3.1	426.1
EM		5.6	4.8	5.0	5.0		37.91	219.94	350.3	608.1	3.5	203.3

Average Duration



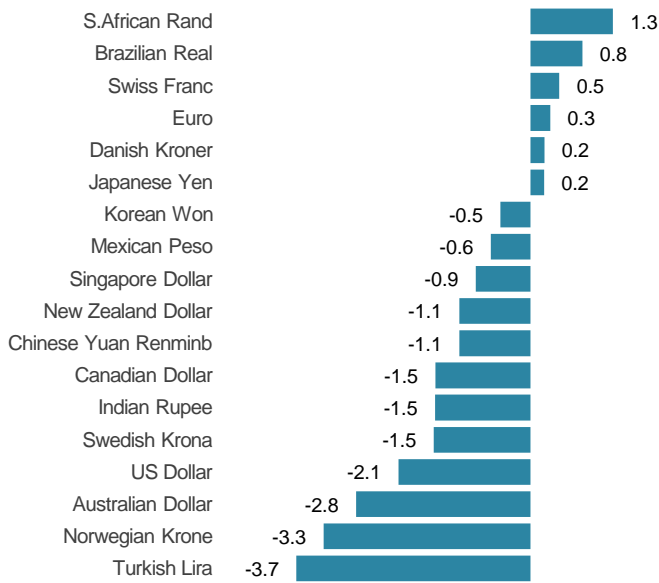
Total Market Value (USD Billions)



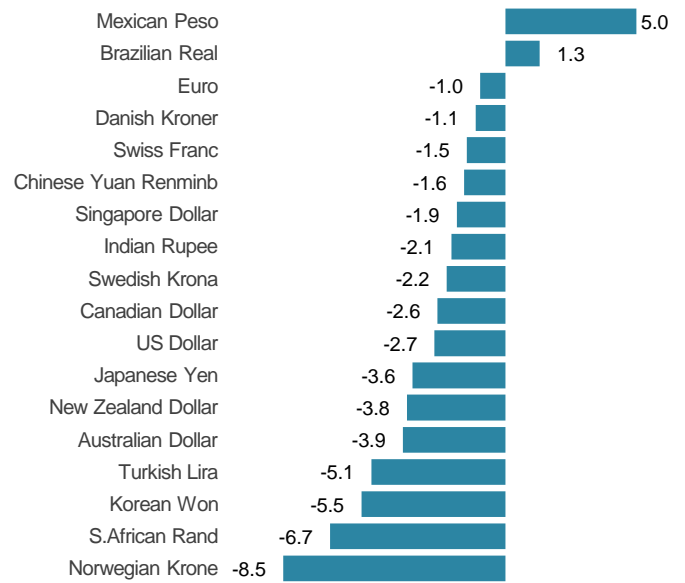
Data as of 2023-03-31

Appendix – Foreign Exchange Returns % as of March 31, 2023

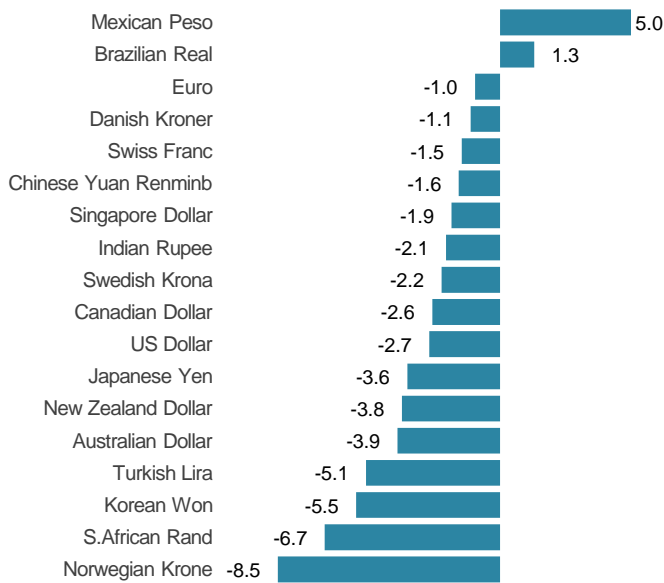
FX Moves vs GBP - 1M



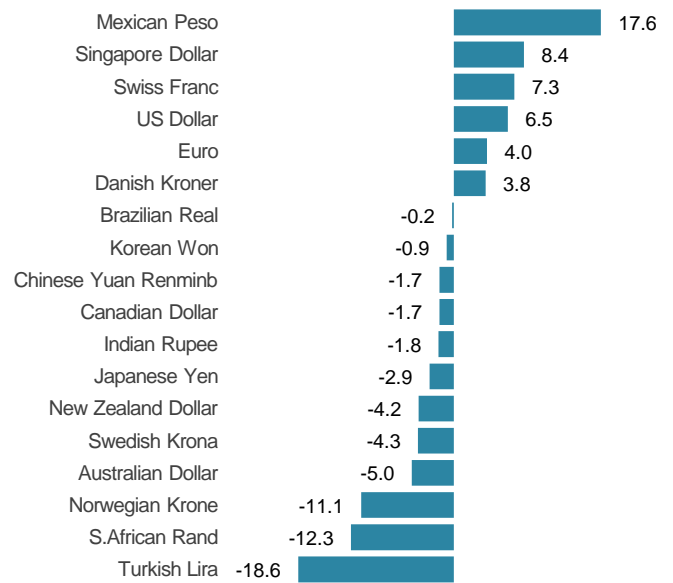
FX Moves vs GBP - 3M



FX Moves vs GBP - YTD



FX Moves vs GBP - 12M



Appendix – Glossary

Bond markets are based on the following indices:

FTSE World Government Bond Index (WGBI) for all global government bond markets

FTSE World Inflation-Linked Securities Index (WorldILSI) for all global inflation-linked bond markets

FTSE US Broad Investment-Grade Bond Index (USBIG®) for the US corporate bond market

FTSE US High-Yield Market Index for the US high yield bond market

FTSE Euro Broad Investment-Grade Bond Index (EuroBIG®) for the Euro-denominated corporate bond market

FTSE European High-Yield Market Index for the European high yield market

FTSE Chinese Government and Policy Bank Bond Index (CNGPBI) for the Chinese government bond market

FTSE Emerging Markets Inflation-Linked Securities Index (EMILSI) for the emerging markets inflation-linked bond market

FTSE Emerging Markets Government Bond Index (EMGBI) for the emerging markets government bond market. Please note that over 50% of this index is invested in China

FTSE Emerging Markets Broad Bond Index (EMUSDBBI) for the emerging markets corporate bond market

FTSE ESG World Government Bond Index for the global government bond markets with an ESG tilt

FTSE Climate Risk-Adjusted World Government Bond Index (Climate WGBI) and FTSE Advanced Climate Risk-Adjusted World Government Bond Index (Advanced Climate WGBI) for each country's relative exposure to climate risk, with respect to resilience and preparedness to the risks of climate change

List of Abbreviations used in charts:

IL = Inflation-linked bonds

IG = Investment-grade bonds

HY = High-yield bonds

BPS = Basis points

EM = Emerging market

LC = Local currency



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