# **Global Markets Monitor**

**THURSDAY, APRIL 2, 2020** 

- USD funding costs modestly decline further, liquidity remains poor (link)
- Lower yields, rising hedging costs seen reducing Japanese demand for foreign bonds (link)
- Front month oil futures rise over 10% on Saudi-Russia talks, China reserve buying (link)
- Fitch downgrades Colombia's credit rating by one notch to BBB- (link)
- Mexico draws on \$5 bn in USD from swap line with the Federal Reserve (link)
- Bank Indonesia reportedly in talks with Fed for USD swap line (link)

<u>US</u> | <u>Europe</u> | <u>Other Mature</u> | <u>Emerging Markets</u> | <u>Market Tables</u>

# Global markets bounce on higher crude oil prices, but risks remain

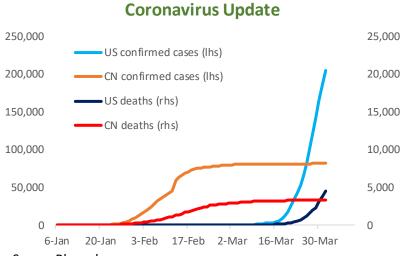
Front month crude oil futures surged over 11% overnight on reports as China planned additional purchases to supplement its reserves. US President Trump also suggested that Saudi Arabia and Russia were in negotiations and he expressed optimism that they would come to a production agreement. The energy market developments broadly supported global equities. Asian equities appreciated, with Thailand, China, and Korea outperforming with gains in the 2 to 3% range. European equities also staged a small comeback today, rising about 0.5%, while European sovereign yields rose 2 to 6 bps higher. However, analysts caution that the magnitude of the swing in energy prices has been magnified by the fragility of trading conditions and that the near-term outlook for oil prices remains worrisome. Saudi Arabia is still pumping over 12 million barrels a day and available storage facilities are quickly dwindling.

| Last updated:                       | Level                                   |        | CI    |        |         |      |      |
|-------------------------------------|---|--------|-------|--------|---------|------|------|
| 4/2/20 8:17 AM                      | Last 12m                                | Latest | 1 Day | 7 Days | 30 Days | 12 M | YTD  |
| Equities                            |   |        |       |        | %       |      | %    |
| S&P 500                             | 1                                       | 2471   | -4.4  | 0      | -20     | -14  | -24  |
| Eurostoxx 50                        | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | 2690   | 0.4   | -6     | -19     | -21  | -28  |
| Nikkei 225                          | Jumm                                    | 17819  | -1.4  | -5     | -17     | -17  | -25  |
| MSCI EM                             |   | 33     | 1.8   | -4     | -21     | -24  | -27  |
| Yields and Spreads                  |   |        |       |        |         |      |      |
| US 10y Yield                        | manne M                                 | 0.59   | -8.6  | -26    | -58     | -189 | -133 |
| Germany 10y Yield                   | many                                    | -0.43  | 2.7   | -7     | 19      | -38  | -25  |
| EMBIG Sovereign Spread              |   | 643    | -2    | 55     | 280     | 299  | 350  |
| FX / Commodities / Volatility       |   |        |       | 9      | %       |      |      |
| EM FX vs. USD, (+) = appreciation   |   | 52.8   | 0.0   | -3     | -10     | -16  | -14  |
| Dollar index, (+) = \$ appreciation | Numer                                   | 99.7   | 0.0   | 0      | 2       | 2    | 3    |
| Brent Crude Oil (\$/barrel)         | January .                               | 27.3   | 10.5  | 4      | -47     | -61  | -59  |
| VIX Index (%, change in pp)         |   | 52.8   | -4.3  | -8     | 19      | 39   | 39   |

 $Colors \ denote \ tightening/easing \ financial \ conditions \ for \ observations \ greater \ than \ \pm 1.5 \ standard \ deviations. \ Data \ source: Bloomberg.$ 

### United States back to top

**US** equities slid lower and the VIX index rose again as confirmed cases in the US surpassed 200k. The 10-year Treasury yield declined 6 bps to 0.61% with the curve bull-flattening. Today, the Treasury will sell \$220 bn of T-bills. Ahead of the largest single auction day for T-bill ever, repo rates were marginally higher, and T-bills traded at positive rates.



Souce: Bloomberg

Economic data are beginning to emerge on the nature of the global recession now underway, but numbers released yesterday were mostly better than feared on the surface. The ADP payroll count contracted for the first time in 10 years but beat expectations (-27k vs. -150k cons.). The report covers the period only through March 12, not reflecting widespread lay offs, as indicated by the millions of people who already have filed unemployment claims. ISM manufacturing was also better than expected (49.1 vs. 44.5 cons.). Headline strength may be overstated by delayed China-related deliveries, analysts noted, and more weakness in demand components is likely to be evident ahead.

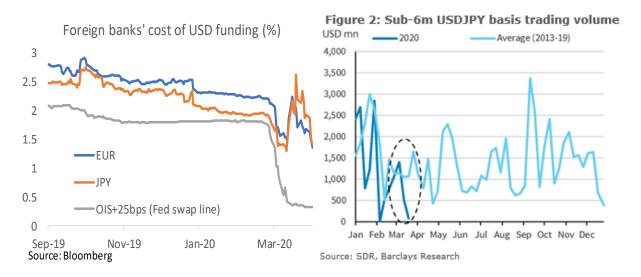


Source: Bloomberg Economics

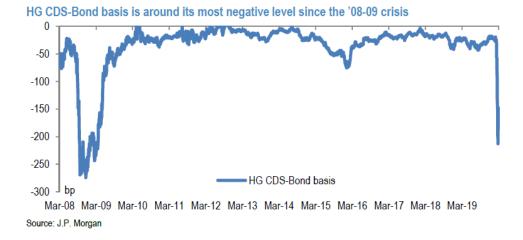
Fed temporarily relaxes SLR requirements, freeing bank capacity to provide market liquidity. The U.S. Federal Reserve announced on Wednesday that it will temporarily relax supplementary leverage ratio (SLR) requirements to exclude on-balance sheet holdings of US treasuries and deposits at the Federal Reserve from ratio's denominator. the capital framework that limits banks' capacity to hold Treasury securities and reserves. The Fed's announcement estimated that this would decrease US bank holding companies' Tier 1 capital requirements by about 2%, intended to allow banks "to expand their balance sheets as appropriate to serve as financial intermediaries." This rule change frees up relatively little capital, mainly because the SLR does not bind most banks much more than the Tier 1 requirement. It was, analysts conclude, designed primarily to expand banks' holdings of Treasuries and reserves, and therefore ability to provide needed securities market liquidity.

The global oil price collapse has started to claim victims. Whiting Petroleum Corp, the most prominent US shale driller, filed for bankruptcy protection for \$3.6 bn in debt. US government is considering renting space in the emergency reserve to domestic producers. Treasury Secretary Mnuchin said he was seeking congressional approval to buy oil to fill up the reserves. Meanwhile, Saudi Arabia started the month by boosting supply to more than 12 mn barrels a day, the most ever, reportedly. WTI crude oil futures were up 3.5% on the day, while Brent futures down by 3.6%.

International dollar funding costs declined, but liquidity remains low. Cross-currency bases have narrowed globally over the past week, and foreign banks dollar funding costs diminished (left chart below), supported by the Fed's efforts. The recent normalization of basis, however, does not necessarily mean a recovery in market trading. According to Barclays' real-time trading data, the trading volume for short-term USDJPY basis swaps declined since mid-March relative to the typical year (right chart).



The CDS-Corporate bond basis remains wide amid illiquid market conditions. The spread between the corporate bond spread and corresponding CDS is occasionally referred to as a market liquidity measure, as the CDS market is regarded as more liquid than the corporate bond market. For high-grade corporates, the spread is currently the widest since the 2008-09 crisis period. The sectors most affected include energy, transport, and basic industries, while telecom, tech, and bank sectors are relatively less impacted. Analysts believe that the announcement of the Fed's Secondary Market Corporate Credit Facility (SMCCF) is the primary catalyst for a narrower basis, as suggested by the ECB's experience with its first bond-buying program, CSPP, announced in March 2016. In the euro area, the CDS-bond basis initially widened following the announcement as the CDS market rushed to discount the effect first but then steadily narrowed once the ECB began its purchases.



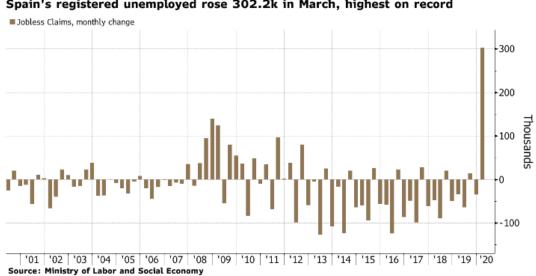
This morning, initial jobless claims increased to 6648k, much higher than expected (3763k cons.) reflecting widespread lay-offs late March.S&P 500 futures are down and Treasury 10-year yield were down marginally, and dollar index was up by 0.1% following the headline.

# **Europe**

Equity markets are slightly higher: DAX (+0.3%), CAC 40 (+0.5%), EuroStoxx 600 (+0.2%), Italy's Titans 30 (+0.6%). The Spanish Ibex (-0.9%) lost ground.

Sovereign yields traded within smaller ranges than in recent weeks. German 10-year yields at -0.42% (-3 bps); French OATs are at 0.06% (+6 bps); Italian at 1.50% (-1 bp); and Spanish at 0.70% (flat).

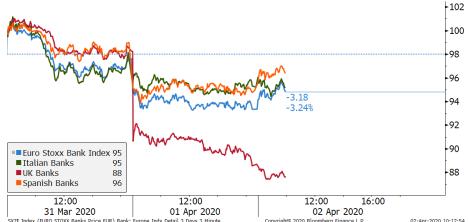
In macro data, Spanish jobless claims surged by over 300k in March – the largest increase in history. Spain's unemployment rate is currently at 13.8% and it's expected to climb much further as COVID-19 ravages the nation's economy. The Ministry of Finance noted that the March jobless figure does not account for the hundreds of thousands in temporary layoffs that are taking place. Such employees should regain their jobs once the situation normalizes.



Spain's registered unemployed rose 302.2k in March, highest on record

The UK's Financial Conduct Authority is proposing banks to provide temporary relief to consumer credit clients. In a proposal letter, the FCA suggests that banks may (i) offer a temporary payment freeze on loans and credit cards where consumers face difficulties, for up to 3 months; (ii) ensure that for customers who have been hit financially by the coronavirus and already have an arranged overdraft on their main personal current account, up to £500 will be charged at zero interest for up to 3 months; (iii) require firms to ensure that overdraft customers are no worse off on price when compared to the prices they were charged before the recent overdraft changes came into force; and (iv) ensure consumers using any of these temporary measures should not have their credit rating affected because of this. The FCA noted that these measures are not mandatory yet. As these measures came to light this morning, UK-based banks (-1.2% on the day) were faring worse in markets than European peers (+1.5% on the day).

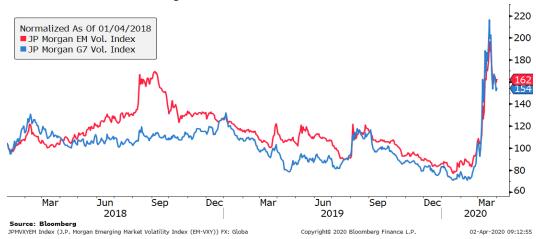




Dutch authorities have floated the idea of creating a pan-European Healthcare Emergency Fund. The Fund would channel funds to those EU members worst hit by COVID-19. Reuters reports that Dutch authorities view the creation of such fund as a better alternative to issuing Coronabonds or countries tapping the ESM. The Netherlands is reportedly willing to make a €1 bn contribution to the Fund.

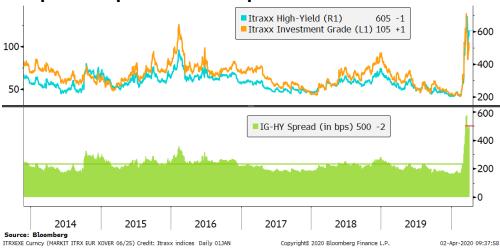
Trading conditions in FX markets have begun to stabilize, with volatility indices coming down from recent highs albeit not to the levels seen before the global outbreak of COVID-19. The British pound gained 0.2% to \$1.24 while the euro lost 0.4% to \$1.09.





After their recent surge in early March, **European corporate credit indices are trading on a new plateau:** The spread between HY and IG credit has average around 500 bps since mid-March. The persistent price differentiation between high- and low-quality credits is expected to carry forward as defaults begin to take place, and it may require further support measures for the most beleaguered borrowers.





## **Other Mature Markets**

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#### Japan

Japanese investors' demand for foreign bonds may not be significant in the new fiscal year. Analysts argue that the decline in overseas yields and higher hedging costs keep yields on FX-hedged foreign bonds below that of long-term JGBs, even when considering the debt of higher-yielding countries like Spain. Less attractive US bond yields on an FX-hedged basis also imply lower demand for dollar funding demand. This in turn may reduce the probability of a reemergence of a persistently wide USD-JPY cross-currency swap basis.

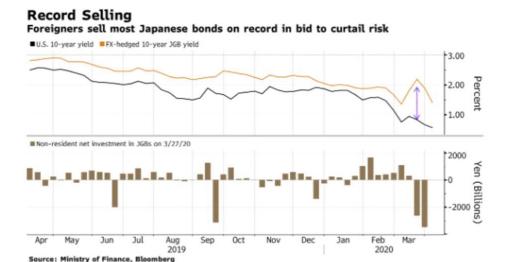
Figure 3: Yield comparison between FX-hedged foreign bonds and superlong JGBs



Note: FX-hedge cost calculated with 3m FX forward. Source:

Bloomberg, Barclays Research

Equities declined (Topix -1.6%) with only oil stocks advancing on rising oil prices. Foreigners were large net sellers of Japanese government bonds in the last two weeks. They sold close to \$33bn JGBs last week. For the day, JGB yields and the yen declined slightly.



# Emerging Markets back to top

Equities gained with Thailand, China, and Korea outperforming with gains in the 2-3% range. Several central banks announced measures for banks. The Reserve Bank of India said that the counter-cyclical buffer for banks will not be applicable for a year. Meanwhile, Moody's cut the outlook for India's banking sector to negative as COVID-19 will worsen the economic slowdown. The Philippine central bank relaxed the guidelines on submission of applications on rediscount loans for banks. In Latin America, asset prices were weaker in line with the broader risk off tone in global markets. The main underperformers were the Mexican peso (2.3% weaker against the dollar) and Colombian equities (-5.4%).

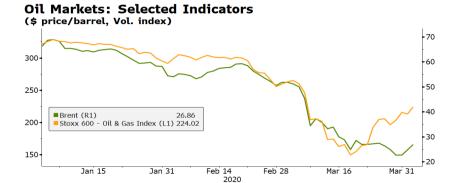
**Key Emerging Market Financial Indicators** 

| Last updated:                   | Lev  | el    |       |        |         |      |     |
|---------------------------------|--|-------|-------|--------|---------|------|-----|
| 4/2/20 8:19 AM                  | Last 12m   | index | 1 Day | 7 Days | 30 Days | 12 M | YTD |
| Major EM Benchmarks             |  |       |       | (      | %       |      | %   |
| MSCI EM Equities                | my   | 32.67 | 1.8   | -4     | -21     | -24  | -27 |
| MSCI Frontier Equities          |  | 21.25 | -0.5  | 0      | -24     | -26  | -30 |
| EMBIG Sovereign Spread (in bps) |  | 643   | -2    | 55     | 280     | 299  | 350 |
| EM FX vs. USD                   | ~~~  | 52.80 | 0.0   | -3     | -10     | -16  | -14 |
| Major EM FX vs. USD             |  | %, (  |       |        |         |      |     |
| China Renminbi                  | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~   | 7.09  | 0.1   | 0      | -2      | -5   | -2  |
| Indonesian Rupiah               | <i>J</i>   | 16495 | -0.3  | -1     | -14     | -14  | -16 |
| Indian Rupee                    | manual state of the state of th | 76.30 | 0.0   | -2     | -5      | -10  | -6  |
| Argentine Peso                  | ~  | 64.53 | -0.2  | -1     | -4      | -34  | -7  |
| Brazil Real                     | مرسسب  | 5.23  | 0.5   | -4     | -14     | -26  | -23 |
| Mexican Peso                    |  | 24.32 | -0.3  | -6     | -20     | -21  | -22 |
| Russian Ruble                   |  | 78.75 | -0.1  | -2     | -16     | -17  | -21 |
| South African Rand              |  | 18.47 | -1.3  | -6     | -17     | -23  | -24 |
| Turkish Lira                    | manument   | 6.66  | 0.6   | -4     | -7      | -16  | -11 |
| EM FX volatility                |  | 12.48 | 0.0   | 0.4    | 4.1     | 3.8  | 5.9 |

Colors denote tightening/easing financial conditions for observations greater than ±1.5 standard deviations. Data source: Bloomberg.

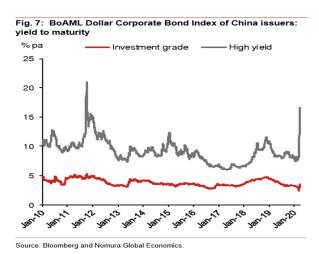
#### Saudi Arabia

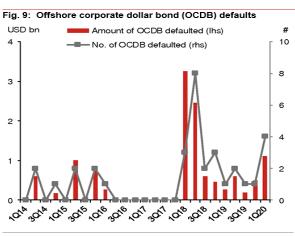
Saudi Arabia has reportedly started the month by boosting oil supply to more than 12 million barrels a day, the most ever. According to Bloomberg, Aramco was loading a record 15 tankers with 18.8 million barrels of oil on a single day earlier this week. This increase in supply – an additional 2 million barrels a day - is coming at a time when oil demand is expected to fall by 30 million barrels a day in April amid global shutdowns; normally, oil demand is around 100 million barrels a day, according to estimates from Vitol, an oil trading company. Thus far, Saudi Arabia has insisted that it will only reduce supply if all the leading oil producers -- including the U.S. -- agree to cut output. Meanwhile, Russia indicated that it would hold back from a major production increase but has not produced any concrete proposals. Oil prices inched back from their lowest level in 18 years in Asian trading. Futures contracts gained as much as 11% with the frontmonth contract rising \$2.78 to \$27.52/barrel.



#### China

China's offshore high yield credit spread against investment grade has widened significantly in recent months. Overall defaults for offshore bonds rose to \$1.1 bn in Q1, doubling from \$0.5 bn in Q4, according to Nomura estimates. Chinese high yield borrowers have \$169.3 bn in debt maturing in 2020, up from \$136.3 bn in 2019. The business resumption rate for small and medium-sized enterprises (SMEs) has yet to fully normalize. 76.8% of SMEs nationwide resumed work as of March 29, up from around 60% two weeks earlier, according to the Ministry of Industry and Information Technology. Regarding covid-19 infections, the authorities reported 35 new confirmed cases with symptoms (all imported), 55 new asymptomatic cases and 1,075 asymptomatic patients are under observation as of April 1. Jia county in Henan province is under lockdown from April 1 after three doctors were diagnosed with the virus even though they were asymptomatic. Equities (Shanghai +1.7%; Shenzhen +2.3%) rose while the onshore and offshore RMB were stable.

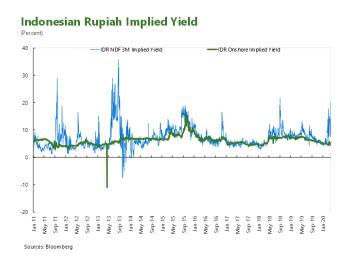




Source: Bloomberg and Nomura Global Economics

#### Indonesia

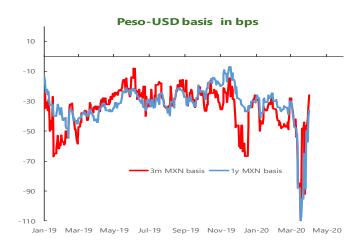
Bank Indonesia (BI) has been in talks with the Fed and China on swap lines. Governor Perry Warjiyo said that BI and the Fed have been "discussing intensively" a potential currency swap line. With China, BI has discussed using or increasing the \$30bn equivalent existing bilateral swap line. The Governor also added that BI will continue with its intervention to stabilize the currency. It is intervening directly in the spot market and the domestic non-deliverable forward market. The rupiah depreciated -0.6% and the implied yield on the offshore non-deliverable forward has spiked to levels last seen in September 2018 when the US-China trade war escalated. The local-currency- and USD-denominated bond yield rose +9.3bps and +8.4bps, respectively, and equities rose +1.0%.



#### **Mexico**

The banking regulator recommended that banks and financial institutions abstain from paying dividends or share buybacks. The objective of the regulator is to free up resources for covering potential losses as result of the pandemic and supporting credit provision. Institutions that go against the recommendation should notify the regulator within 7 business days to explain the reasons, which will be made public.

Banxico executed the first auction using the Fed swap line offering an amount of up to \$5.0 billion with an 84-day maturity. The issued amount was \$5.0 bn with total demand of \$6.3 bn (1.3x). The peso has continued underperforming major EMs currencies depreciating by 2.2% on Wednesday. FX basis has continued to improve since the establishment of the \$60 bn swap line with the Fed and now its back at pre-COVID 19 levels.



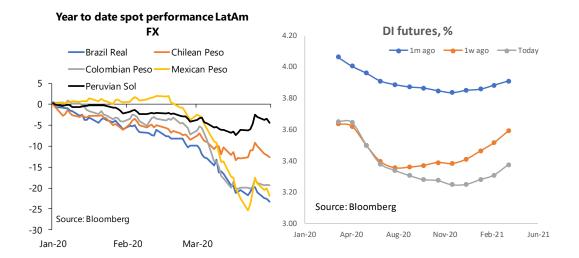
#### Colombia

Fitch downgraded Colombia's credit rating to BBB- (Neg) from BBB (Neg) taking it one step closer HY status. Last week, Colombia was affirmed by S&P at BBB- but moved to negative outlook. On March 25, Moody's (BBB equivalent, stable) issued a statement emphasizing risks to Colombia's debt burden, and analysts expect a change to Negative outlook was likely. Colombia's local debt is set to enter the Bloomberg global aggregate index in September 2020 assuming it maintains at least two IG ratings. Morgan Stanley last week highlighted that Colombia is unlikely to lose its IG status for index eligibility this year, given it will take another one notch downgrade from both Fitch and S&P.

#### **Brazil**

The government plans to cut the IOF Financial Tax For 90 Days. The tax exemption on financial transactions is temporary and will cost 7 bn reais. Government also announced the extension of the deadline for submitting the 2019 base year net income report to June 30 from April 30. Companies will also be allowed to postpone payment of 4 tax contributions for 2 months. Companies will be allowed to reduce wages by up to 70% for 3 months and suspend contracts and wages for 2 months.

During the COVID-19 related selloff since 20 February, the real has fared better compared to some of its peers (COP, MXN) helped by increased interventions by BCB. Despite this relative outperformance, the Brazilian real is the worst performing currency in Latin America this year, now trading at all-time low of 5.25 against the dollar. The DI curve continues to price more rate cuts ahead, even though the President of BCB reinforced his message on Tuesday that cutting rates further in current conditions may not be effective.



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# **Global Financial Indicators**

| United States Europe 2690 0.4 -6 -19 -21 -28 Japan 17819 -1.4 -5 -17 -17 -25 China Asia Ex Japan 57 -4.4 -4 -18 -20 -22 Emerging Markets 33 1.8 -4 -21 -24 -27 Interest Rates  US 10y Yield 0.01 -0.9 -4 -6 -5 -5 -6 -7 -7 -7 -9 -8 -8 -8 -8 -9 -69 -50 Credit Spreads US Investment Grade US High Yield 912 -5.3 -46 -84 -51 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7   | Last updated:                 | Level   |        |        |        |          |      |      |
|--|-------------------------------|---|--------|--------|--------|----------|------|------|
| United States Europe   | 4/2/20 8:18 AM                | Last 12m  | Latest | 1 Day  | 7 Days | 30 Days  | 12 M | YTD  |
| Europe   | Equities                      |   |        |        | 9,     | <b>%</b> |      | %    |
| Japan  | United States                 |   | 2471   | -4.4   | 0      | -20      | -14  | -24  |
| China  | Europe                        |   | 2690   | 0.4    | -6     | -19      | -21  | -28  |
| Asia Ex Japan Emerging Markets 33 1.8 -4 -21 -24 -27  Interest Rates US 10y Yield O.59 -8.6 -26 -58 -189 -133 Germany 10y Yield O.01 -0.9 -4 17 9 2 UK 10y Yield O.32 O.4 UK 10y Yield O.4 UK 10y Yield O.59 UK 10y Yield O.4 UK 10y Yield O.59 UK 10y Yield O.4 UK 10y Yiel | Japan                         |   | 17819  | -1.4   | -5     | -17      | -17  | -25  |
| Emerging Markets 33 1.8 -4 -21 -24 -27  Interest Rates  US 10y Yield 0.59 -8.6 -26 -58 -189 -133  Germany 10y Yield 0.01 -0.9 -4 17 9 2  UK 10y Yield 0.32 0.4 -8 -9 -69 -50  Credit Spreads  US Investment Grade 0.59 -8.6 -26 -58 -189 -133  US Investment Grade 0.01 -0.9 -4 17 9 2  UK 10y Yield 0.32 0.4 -8 -9 -69 -50  Credit Spreads  US Investment Grade 0.912 5.3 -46 384 501 519  Europe IG 0.01 -0.9 -4 15 37 42 60  Europe HY 0.07 35.1 75 303 349 400  EMBIG Sovereign Spread 0.03 -2.0 55 280 299 350  Exchange Rates  USD/Majors 0.0 0 2 2 3 3  EUR/USD 0.0 0 2 2 3 3  EUR/USD 0.0 0 2 2 3  EUR/USD 0.0 0 2 2 3  EUR/USD 0.0 0 0 2 2 3  EUR/USD 0.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0   | China                         | grann my  | 2781   | 1.7    | 1      | -6       | -12  | -9   |
| Interest Rates   | Asia Ex Japan                 | many  | 57     | -4.4   | -4     | -18      | -20  | -22  |
| US 10y Yield Germany 10y Yield Japan 10y Yield Japan 10y Yield UK 10y Yield UK 10y Yield US 10y Yield US 10y Yield UK 10y Yield US 10y Yield US 10y Yield UK 10y Yield US 11y  | Emerging Markets              | - many  | 33     | 1.8    | -4     | -21      | -24  | -27  |
| Germany 10y Yield  | Interest Rates                |   |        |        | basis  | points   |      |      |
| Japan 10y Yield       0.01       -0.9       -4       17       9       2         UK 10y Yield       0.32       0.4       -8       -9       -69       -50         Credit Spreads         US Investment Grade       280       1.1       -21       151       163       182         US High Yield       912       5.3       -46       384       501       519         Europe IG       104       8.4       15       37       42       60         Europe HY       607       35.1       75       303       349       400         EMBIG Sovereign Spread       643       -2.0       55       280       299       350         Exchange Rates       99.72       0.0       0       2       2       3         USD/Majors       99.72       0.0       0       2       2       3         EUR/USD       1.09       -0.8       1       -2       -2       -2       -2         USD/JPY       107.3       -0.1       2       1       4       1       -1         Em/USD       52.8       0.0       -3       -10       -16       -14         Commodities   | US 10y Yield                  | M   | 0.59   | -8.6   | -26    | -58      | -189 | -133 |
| UK 10y Yield   | Germany 10y Yield             | muny  | -0.43  | 2.7    | -7     | 19       | -38  | -25  |
| Credit Spreads         280         1.1         -21         151         163         182           US High Yield         912         5.3         -46         384         501         519           Europe IG         104         8.4         15         37         42         60           Europe HY         607         35.1         75         303         349         400           EMBIG Sovereign Spread         643         -2.0         55         280         299         350           Exchange Rates         """         """         99.72         0.0         0         2         2         3           EUR/USD         1.09         -0.8         1         -2         -2         -2         -2           USD/JPY         107.3         -0.1         2         1         4         1         1           EM/USD         52.8         0.0         -3         -10         -16         -14           Commodities         """         10.5         4         -47         -61         -59           Industrials Metals (index)         91         -2.4         -1         -12         -26         -21           Agriculture (index)  | Japan 10y Yield               | many  | 0.01   | -0.9   | -4     | 17       | 9    | 2    |
| US Investment Grade US High Yield US High Yield Europe IG Europe HY Europe HY Europe HY EMBIG Sovereign Spread  Europe Rates USD/Majors EUR/USD USD/JPY EMM/USD EMM/USD Erent Crude Oil (\$/barrel) Industrials Metals (index) Agriculture (index)  1.1  -21  151  163  182  182  182  182  183  182  183  182  183  182  183  184  185  187  188  188  189  189  189  189  189  | UK 10y Yield                  | mund  | 0.32   | 0.4    | -8     | -9       | -69  | -50  |
| US High Yield Europe IG Europe HY Europe HY Europe HY EMBIG Sovereign Spread  Exchange Rates  USD/Majors  EUR/USD  USD/JPY EM/USD  Exchange Rates  USD/JPY  107.3  -0.1  EM/USD  Exchange Rates  USD/JPY  107.3  -0.1  EM/USD  EXCHANGE  EXC | Credit Spreads                |   |        |        | basis  | points   |      |      |
| Europe IG  Europe HY  Europe HY  EMBIG Sovereign Spread  Exchange Rates  USD/Majors  EUR/USD  USD/JPY  EM/USD  Exchange Rates  USD/JPY  EM/USD  Exchange Rates  USD/JPY  EM/USD  Exchange Rates  USD/JPY  EM/USD  Exchange Rates  1.09  1.09  1.09  1.09  1.08  1.09  1.09  1.01  2.1  4.1  1.2  1.2  1.3  1.4  1.5  1.5  1.6  1.6  1.6  1.7  1.7  1.7  1.7  1.7   | US Investment Grade           |   | 280    | 1.1    | -21    | 151      | 163  | 182  |
| Europe HY EMBIG Sovereign Spread  643  -2.0  55  280  299  350  Exchange Rates  USD/Majors  EUR/USD  USD/JPY  107.3  -0.1  EM/USD  52.8  Brent Crude Oil (\$/barrel)  Industrials Metals (index)  Agriculture (index)  607  35.1  75  303  349  400  299  350  29  350  29  350  20  31  32  34  400  55  280  299  350  40  400  55  80  29  350  40  40  40  40  40  40  40  40  40  | US High Yield                 |   | 912    | 5.3    | -46    | 384      | 501  | 519  |
| EMBIG Sovereign Spread  Exchange Rates  USD/Majors  EUR/USD  USD/JPY  EM/USD   | Europe IG                     | ^   | 104    | 8.4    | 15     | 37       | 42   | 60   |
| Exchange Rates       99.72       0.0       0       2       2       3         EUR/USD       1.09       -0.8       1       -2       -2       -2         USD/JPY       107.3       -0.1       2       1       4       1         EM/USD       52.8       0.0       -3       -10       -16       -14         Commodities       7       10.5       4       -47       -61       -59         Industrials Metals (index)       91       -2.4       -1       -12       -26       -21         Agriculture (index)       37       -1.3       -4       -5       -9       -11  | Europe HY                     | ^   | 607    | 35.1   | 75     | 303      | 349  | 400  |
| USD/Majors EUR/USD USD/JPY USD/JPY USD/JPY USD/JPY USD/JPY USD USD/JPY USD/JPY USD   | EMBIG Sovereign Spread        |   | 643    | -2.0   | 55     | 280      | 299  | 350  |
| EUR/USD 1.09 -0.8 1 -2 -2 -2 USD/JPY 107.3 -0.1 2 1 4 1 EM/USD 52.8 0.0 -3 -10 -16 -14 Commodities  Brent Crude Oil (\$/barrel) 27 10.5 4 -47 -61 -59 Industrials Metals (index) 91 -2.4 -1 -12 -26 -21 Agriculture (index) 37 -1.3 -4 -5 -9 -11   | Exchange Rates                |   |        |        | 9      | <b>%</b> |      |      |
| USD/JPY 107.3 -0.1 2 1 4 1  EM/USD 52.8 0.0 -3 -10 -16 -14  Commodities  | USD/Majors                    | Mummum  | 99.72  | 0.0    | 0      | 2        | 2    | 3    |
| EM/USD       52.8       0.0       -3       -10       -16       -14         Commodities       """       """       """       """       """       """       10.5       4       -47       -61       -59         Industrials Metals (index)       91       -2.4       -1       -12       -26       -21         Agriculture (index)       37       -1.3       -4       -5       -9       -11   | EUR/USD                       | mound   | 1.09   | -0.8   | 1      | -2       | -2   | -2   |
| Commodities         %         %           Brent Crude Oil (\$/barrel)         27         10.5         4         -47         -61         -59           Industrials Metals (index)         91         -2.4         -1         -12         -26         -21           Agriculture (index)         37         -1.3         -4         -5         -9         -11   | USD/JPY                       | Jummy   | 107.3  | -0.1   | 2      | 1        | 4    | 1    |
| Brent Crude Oil (\$/barrel)       27       10.5       4       -47       -61       -59         Industrials Metals (index)       91       -2.4       -1       -12       -26       -21         Agriculture (index)       37       -1.3       -4       -5       -9       -11   | EM/USD                        |   | 52.8   | 0.0    |        |          | -16  | -14  |
| Industrials Metals (index) 91 -2.4 -1 -12 -26 -21 Agriculture (index) 37 -1.3 -4 -5 -9 -11   | Commodities                   |   |        |        | 9      | <b>%</b> |      |      |
| Agriculture (index) 37 -1.3 -4 -5 -9 -11   | Brent Crude Oil (\$/barrel)   | - manual | 27     | 10.5   | 4      | -47      | -61  | -59  |
|  | Industrials Metals (index)    | money   | 91     | -2.4   | -1     | -12      | -26  | -21  |
| 1 P 1 V 1 CP 2   | Agriculture (index)           | Andrew Mark   | 37     | -1.3   | -4     | -5       | -9   | -11  |
| Implied Volatility %   | Implied Volatility            |   |        |        | 9      | <b>%</b> |      |      |
| VIX Index (%, change in pp) 52.8 -4.3 -8.2 19.4 39.4 39.0  | VIX Index (%, change in pp)   | human   | 52.8   | -4.3   | -8.2   | 19.4     | 39.4 | 39.0 |
| 10y Treasury Volatility Index 8.5 0.2 0.4 0.9 4.6 4.4  | 10y Treasury Volatility Index | M   | 8.5    | 0.2    | 0.4    | 0.9      | 4.6  | 4.4  |
| Global FX Volatility 11.0 0.0 -0.1 3.5 3.8 5.0   | Global FX Volatility          | 1   | 11.0   | 0.0    | -0.1   | 3.5      | 3.8  | 5.0  |
| EA Sovereign Spreads 10-Year spread vs. Germany (bps)  | EA Sovereign Spreads          |   |        | 10-Yea |        |          |      |      |
| Greece 226 11.2 -36 32 -148 61   | Greece                        | Luman   | 226    | 11.2   | -36    | 32       | -148 | 61   |
| Italy 205 5.7 25 34 -48 45   | Italy                         | Man A   | 205    | 5.7    | 25     | 34       | -48  | 45   |
| Portugal 138 3.7 6 42 7 75   |                               | M   |        |        |        |          |      |      |
|  | Spain                         | manual  | 119    | 3.8    | 5      | 30       | 2    | 53   |

Colors denote tightening/easing financial conditions for observations greater than  $\pm 1.5$  standard deviations. Data source: Bloomberg.

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# **Emerging Market Financial Indicators**

| Last updated:    | Exchange Rates                         |         |       |               |             |      | Local Currency Bond Yields (GBI EM) |  |                          |       |        |         |      | )    |  |  |
|------------------|--|---------|-------|---------------|-------------|------|-------------------------------------|--|--------------------------|-------|--------|---------|------|------|--|--|
| 4/2/2020         | Leve                                   |         |       | Change (in %) |             |      | Level                               |  | Change (in basis points) |       |        |         |      |      |  |  |
| 8:19 AM          | Last 12m                               | Latest  | 1 Day | 7 Days        | 30 Days     | 12 M | YTD                                 | Last 12m   | Latest                   | 1 Day | 7 Days | 30 Days | 12 M | YTD  |  |  |
|                  |  | vs. USD | (-    | +) = EM a     | appreciatio | n    |                                     |  | % p.a.                   |       |        |         |      |      |  |  |
| China            | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | 7.09    | 0.1   | -0.3          | -2          | -5   | -2                                  | ~~~~~~   | 2.7                      | -2.0  | -6     | -17     | -43  | -47  |  |  |
| Indonesia        |  | 16495   | -0.3  | -1.2          | -14         | -14  | -16                                 | ~~~~   | 8.0                      | -5.2  | -44    | 90      | 25   | 86   |  |  |
| India            | Marriage Marriage                      | 76      | 0.0   | -1.5          | -5          | -10  | -6                                  | many   | 6.4                      | -7.4  | -25    | -10     | -95  | -43  |  |  |
| Philippines      | whymany                                | 51      | 0.1   | 0.5           | 0           | 3    | 0                                   |  | 4.9                      | -0.8  | 18     | 77      | -45  | 58   |  |  |
| Thailand         | ~~~                                    | 33      | 0.3   | -1.0          | -5          | -4   | -10                                 | - war  | 1.7                      | 2.3   | 1      | 41      | -90  | 5    |  |  |
| Malaysia         | <i>\</i>                               | 4.36    | 0.1   | -0.6          | -4          | -6   | -6                                  | ~~~~   | 3.3                      | -5.3  | -39    | 48      | -49  | -5   |  |  |
| Argentina        | ~                                      | 65      | -0.2  | -0.8          | -4          | -34  | -7                                  | ~~~  | 60.2                     | 0.0   | -901   | 807     | 3622 | -242 |  |  |
| Brazil           | مرسسي                                  | 5.23    | 0.5   | -3.8          | -14         | -26  | -23                                 | - Land   | 6.3                      | -10.5 | -149   | 40      | -190 | 5    |  |  |
| Chile            | سمسمسس                                 | 862     | -0.1  | -4.0          | -6          | -22  | -13                                 | war Mary   | 3.7                      | -4.6  | -21    | 1       | -50  | 39   |  |  |
| Colombia         | مسسر                                   | 4084    | -0.5  | -0.5          | -15         | -23  | -20                                 |  | 6.9                      | 17.5  | -95    | 112     | 70   | 91   |  |  |
| Mexico           |  | 24.32   | -0.3  | -5.7          | -20         | -21  | -22                                 | home   | 7.2                      | -10.5 | -77    | 30      | -94  | 25   |  |  |
| Peru             | المهمسد                                | 3.5     | -1.0  | 0.4           | -1          | -5   | -4                                  | Manuel Manuel  | 5.0                      | -5.0  | -61    | 60      | -32  | 52   |  |  |
| Uruguay          | ^                                      | 44      | -1.4  | 0.2           | -10         | -24  | -15                                 | ~~~  | 13.2                     | -1.6  | 46     | 326     | 269  | 235  |  |  |
| Hungary          | "home                                  | 334     | -0.6  | -3.6          | -9          | -14  | -12                                 | manual   | 1.9                      | 19.1  | 35     | 32      | 6    | 69   |  |  |
| Poland           |  | 4.19    | 0.0   | -2.1          | -8          | -8   | -9                                  | money  | 1.3                      | -2.2  | -5     | -29     | -96  | -57  |  |  |
| Romania          | hammen                                 | 4.4     | -0.6  | -1.1          | -3          | -4   | -4                                  |  | 4.4                      | 4.0   | 11     | 70      | 34   | 42   |  |  |
| Russia           |  | 78.7    | -0.1  | -1.7          | -16         | -17  | -21                                 | The same of the sa | 6.6                      | -19.0 | -31    | 36      | -147 | 48   |  |  |
| South Africa     | L                                      | 18.5    | -1.3  | -6.2          | -17         | -23  | -24                                 |  | 11.2                     | -56.7 | -140   | 156     | 182  | 170  |  |  |
| Turkey           | manual                                 | 6.66    | 0.6   | -4.0          | -7          | -16  | -11                                 | Mary Mary  | 12.6                     | -16.3 | 15     | -6      | -691 | 94   |  |  |
| US (DXY; 5y UST) | hummun.                                | 100     | 0.0   | 0.4           | 2           | 2    | 3                                   | more   | 0.35                     | -3.5  | -18    | -59     | -198 | -135 |  |  |

|              | Equity Markets                          |        |       |        |          |      | Bond Spreads on USD Debt (EMBIG) |               |        |                          |        |         |      |      |
|--------------|---|--------|-------|--------|----------|------|----------------------------------|---------------|--------|--------------------------|--------|---------|------|------|
|              | Level                                   |        |       | Chang  | e (in %) |      |                                  | Level         |        | Change (in basis points) |        |         |      |      |
|              | Last 12m                                | Latest | 1 Day | 7 Days | 30 Days  | 12 M | YTD                              | Last 12m      | Latest | 1 Day                    | 7 Days | 30 Days | 12 M | YTD  |
|              |   |        |       |        |          |      |                                  | basis po      | ints   |                          |        |         |      |      |
| China        | * ***                                   | 2781   | 0.3   | 1      | -6       | -12  | -9                               |               | 246    | 3                        | -6     | 67      | 70   | 70   |
| Indonesia    | ~~~~                                    | 4466   | 0.2   | 13     | -18      | -31  | -29                              | ~~~~ <i>\</i> | 368    | 17                       | 13     | 157     | 178  | 212  |
| India        |   | 28265  | 0.0   | -1     | -26      | -27  | -31                              |               | 374    | -8                       | -49    | 199     | 214  | 249  |
| Philippines  | money                                   | 5409   | -2.7  | 8      | -20      | -31  | -31                              |               | 227    | 11                       | -12    | 119     | 142  | 161  |
| Malaysia     |   | 1323   | 0.6   | 0      | -11      | -19  | -17                              |               | 295    | 1                        | -28    | 170     | 168  | 183  |
| Argentina    | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | 24384  | 3.9   | 8      | -30      | -27  | -41                              | \<br>\<br>\   | 3959   | 74                       | -301   | 1694    | 3195 | 2190 |
| Brazil       | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | 73020  | -2.8  | 5      | -30      | -24  | -37                              | <i>*</i>      | 405    | 12                       | 22     | 159     | 161  | 190  |
| Chile        | money                                   | 3487   | -1.9  | 12     | -15      | -34  | -25                              | الا           | 316    | 14                       | -9     | 139     | 186  | 183  |
| Colombia     | ~~~~                                    | 1124   | -5.4  | 7      | -27      | -29  | -32                              |               | 387    | 13                       | 14     | 179     | 207  | 224  |
| Mexico       | money                                   | 34555  | -2.5  | 0      | -16      | -21  | -21                              |               | 683    | 25                       | 90     | 317     | 377  | 391  |
| Peru         | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | 14464  | -3.9  | 2      | -21      | -31  | -30                              |               | 276    | 12                       | -11    | 123     | 149  | 169  |
| Hungary      | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | 32283  | 0.0   | -1     | -20      | -23  | -30                              |               | 215    | 3                        | 17     | 52      | 106  | 129  |
| Poland       | mont                                    | 41078  | 0.0   | 2      | -17      | -32  | -29                              | -human        | 135    | 0                        | 13     | 57      | 86   | 117  |
| Romania      | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | 7477   | 0.0   | -2     | -18      | -8   | -25                              | <i>J</i>      | 385    | -1                       | -18    | 146     | 176  | 211  |
| Russia       | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | 2485   | 0.0   | 1      | -11      | -1   | -18                              | ~~~           | 315    | 14                       | 45     | 123     | 96   | 184  |
| South Africa | mmy                                     | 43374  | 0.0   | 0      | -15      | -24  | -24                              |               | 767    | 37                       | 85     | 365     | 467  | 447  |
| Turkey       | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | 89086  | 0.0   | 0      | -16      | -5   | -22                              |               | 762    | 30                       | 99     | 249     | 289  | 361  |
| Ukraine      | Rymon                                   | 511    | 0.0   | -1     | -4       | -9   | 0                                |               | 916    | 34                       | -60    | 429     | 305  | 496  |
| EM total     | my                                      | 33     | 1.8   | -4     | -21      | -24  | -27                              |               | 643    | -2                       | 55     | 280     | 299  | 350  |

Colors denote tightening/easing financial conditions for observations greater than ±1.5 standard deviations. Data source: Bloomberg.

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|  | Coronavirus                  | (Covid-19                 | ) Dashbo                 | ard                         |   |  |  |  |
|--|------------------------------|---------------------------|--------------------------|-----------------------------|---|--|--|--|
|  |                              | Change or relative change |                          |                             |   |  |  |  |
|  | Latest                       | 1 Day                     | 7 Days                   | YTD                         | Since global<br>intensification<br>(Feb 19) | Since Chinese<br>intensification<br>(Jan 20) |  |  |
| Equity Markets   | Index                        |                           | Rela                     | tive change (in             | %) except VIX                               |  |  |  |
| China CSI 300 (Large Cap/Main Equity Index) CSI 500 (Mid-Cap Index) CSI 1000 (Small-Cap Index) | 3735<br>5147<br>5539         | 1.6<br>2.5<br>2.5         | 1.0<br>-0.4<br>-1.0      | -8.8<br>-2.3<br>-0.5        | -7.8<br>-8.1<br>-8.0                        | -10.8<br>-7.9<br>-7.0                        |  |  |
| Japan (Nikkei)<br>Korea (Kospi)<br>United States (S&P 500)                                     | 17819<br>1725<br>2471        | -1.4<br>2.3<br>-4.4       | -4.5<br>2.3<br>-0.2      | -24.7<br>-21.5<br>-23.5     | -23.9<br>-22.0<br>-27.0                     | -26.0<br>-23.8<br>-25.8                      |  |  |
| Europe (Eurostoxx 600)<br>MSCI Global<br>MSCI Asia ex. Japan                                   | 312<br>426<br>547            | 0.5<br>-3.7<br>-2.3       | -2.9<br>-4.8<br>-1.5     | -24.9<br>-24.6<br>-20.5     | -28.0<br>-26.5<br>-20.5                     | -26.4<br>-26.4<br>-23.1                      |  |  |
| Asia Pacific Airlines Luxury Goods Hotels Restaurants & Leisure                                | 99<br>542<br>239             | -0.7<br>-4.9<br>-5.3      | -6.9<br>-10.2<br>-9.9    | -35.6<br>-29.9<br>-38.2     | -27.8<br>-28.1<br>-38.4                     | -33.8<br>-31.7<br>-40.3                      |  |  |
| Volatility Index (VIX, change in pp) Interest Rates  | 53<br>Percent                | -4.2                      | -8.2                     | 39.1<br>Change (in ba       | 38.5  | 40.7   |  |  |
| US 10y Yield   | 0.59                         | 1                         | -25                      | -133                        | -97   | -123   |  |  |
| Germany 10y Yield<br>Eurodollar - April 2020   | -0.43<br>1.16                | 3<br>5                    | -7<br>-5                 | -25<br>55                   | -2<br>-47                                   | -22<br>-56                                   |  |  |
| Eurodollar - June 2020<br>Eurodollar - December 2020<br>Exchange Rates                         | 0.51<br>0.33<br><b>Level</b> | 1                         | 7<br>2<br>Relative o     | 118<br>129<br>change (in %) | -104<br>-109<br>(+) = Appreciati            | -118<br>-127                                 |  |  |
| Chinese Renminbi (per USD)   | 7.09                         | 0.1                       | -0.3                     | -1.8                        | -1.4  | -3.3   |  |  |
| Japanese Yen (per USD) Euro (in USD) Dollar Index  | 107.3<br>1.09<br>99.8        | -0.1<br>-0.6<br>0.1       | 2.1<br>-1.2<br>0.4       | 1.2<br>-2.8<br>3.5          | 3.6<br>-0.9<br>0.1                          | 2.6<br>1.8<br>2.2                            |  |  |
| EM FX index  | 52.8                         | 0.0                       | -3.2                     | -14.0                       | -11.0                                       | -13.3  |  |  |
| EM Bond Spreads on USD Debt  | Basis points                 |                           | Change (in basis points) |                             |   |  |  |  |
| EMBI Global Diversified EMBI Asia EMBI Latam China   | 648<br>425<br>675<br>248     | 22<br>0<br>34<br>1        | 13<br>5<br>9<br>-2       | 358<br>248<br>367<br>72     | 346<br>252<br>352<br>80                     | 358<br>250<br>365<br>75                      |  |  |
| Local Currency Bond Yields (GBI EM)  | Percent                      | _                         |                          | Change (in ba               |   |  |  |  |
| China<br>Mexico<br>Brazil  | 2.65<br>7.17<br>6.58         | -3<br>-2<br>27            | -9<br>-68<br>-41         | -49<br>23<br>33             | -26<br>57<br>82                             | -45<br>26<br>41                              |  |  |
| South Africa<br>Turkey   | 11.24<br>13.09               | 3<br>45                   | -41<br>-37<br>54         | 173<br>139                  | 180<br>170                                  | 177<br>257                                   |  |  |
| Commodities  | Dollars                      |                           |                          | Relative chan               | <u> </u>                                    | T  |  |  |
| Brent Crude Oil (per ton) Gold (per troy ounce)  | 27.3<br>1605.2               | 10.5<br>0.9               | 3.8<br>-1.6              | -58.6<br>5.8                | -53.8<br>-0.4                               | -58.1<br>2.8                                 |  |  |