

Fear and the global economy

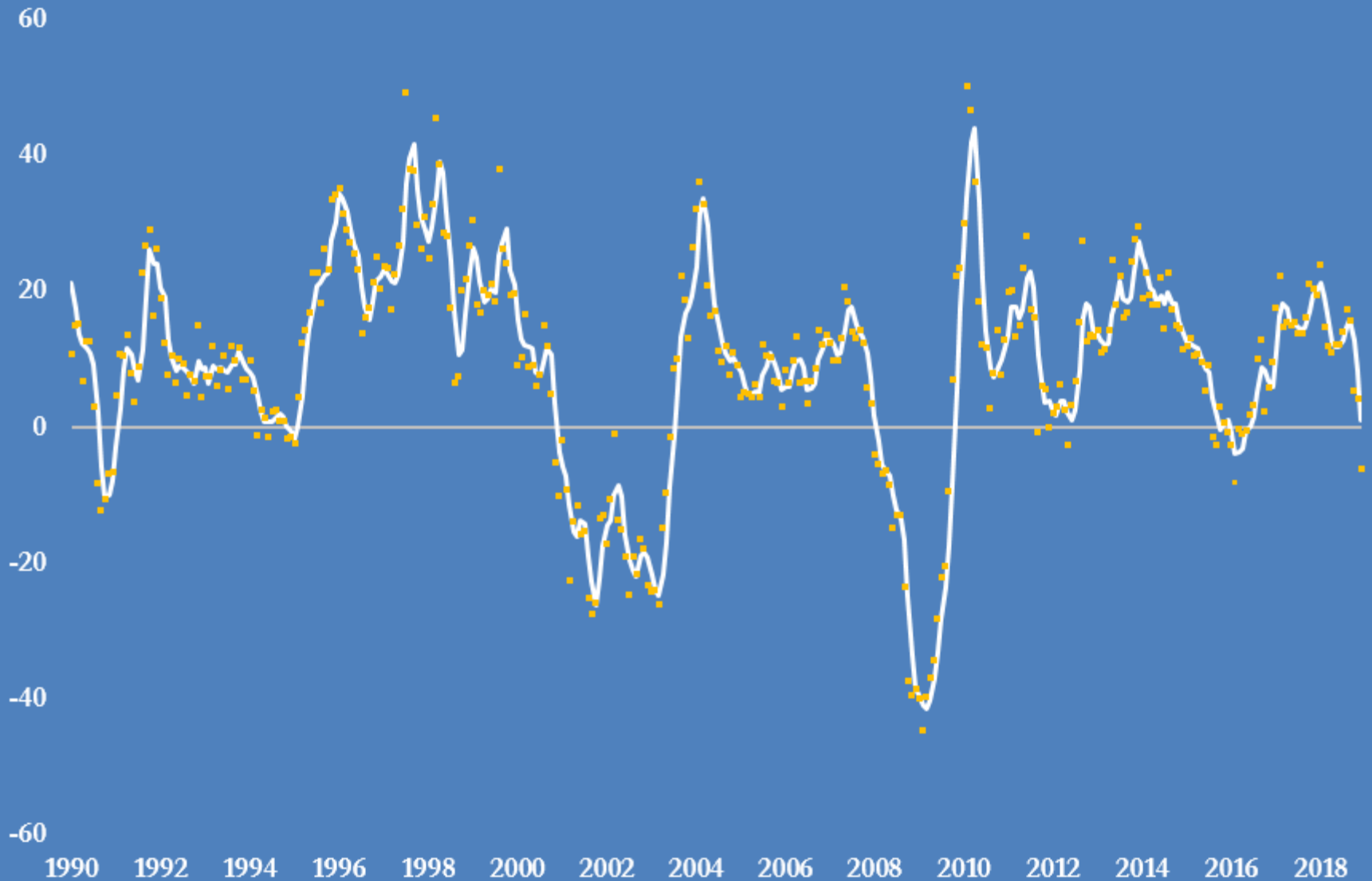
Selected indicators

JOHN KEMP
REUTERS

2 Jan 2019

S&P500 equity index, 1990-2018

Percent change from prior year, individual months and 3-month average

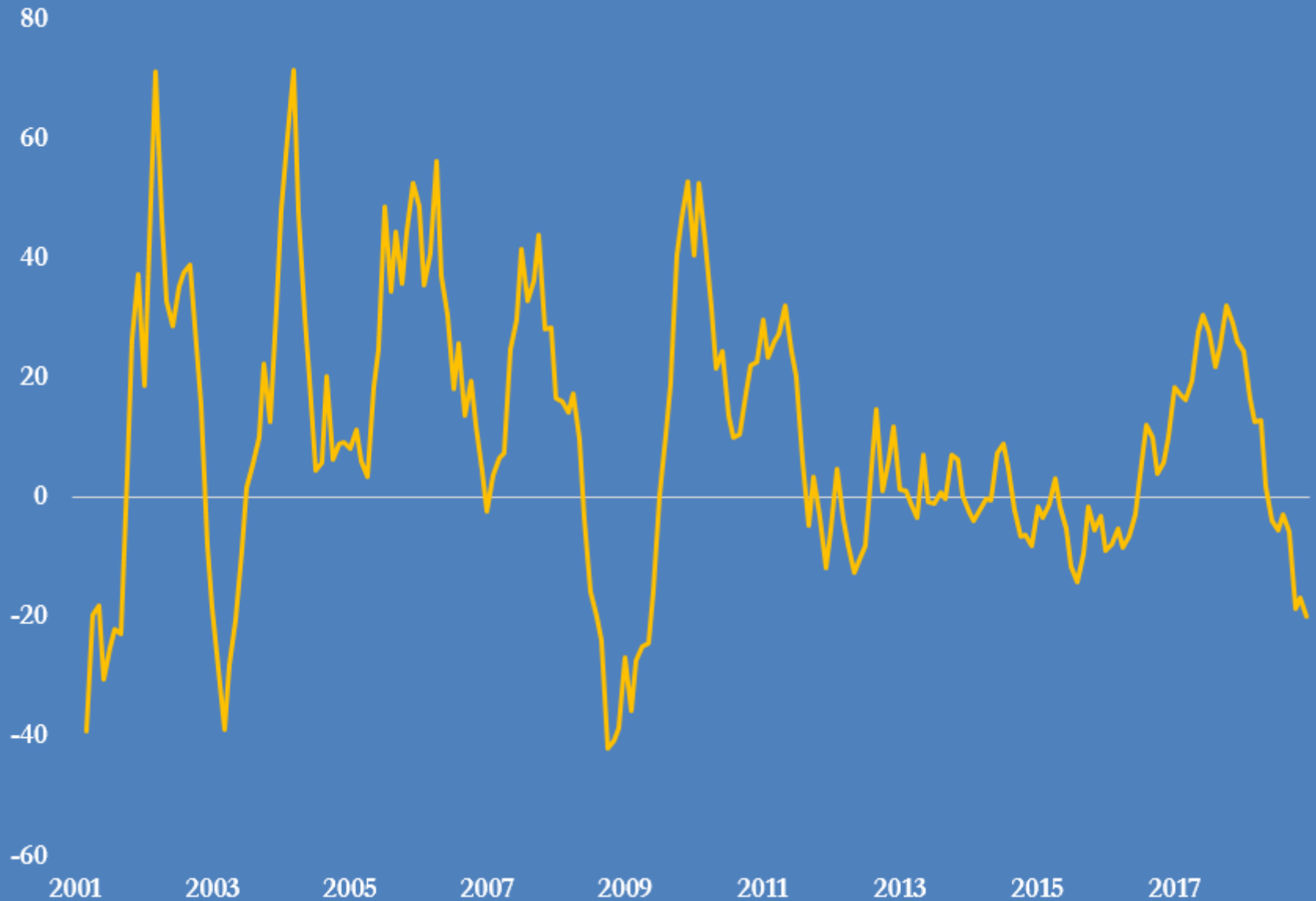


Source: Thomson Reuters Eikon

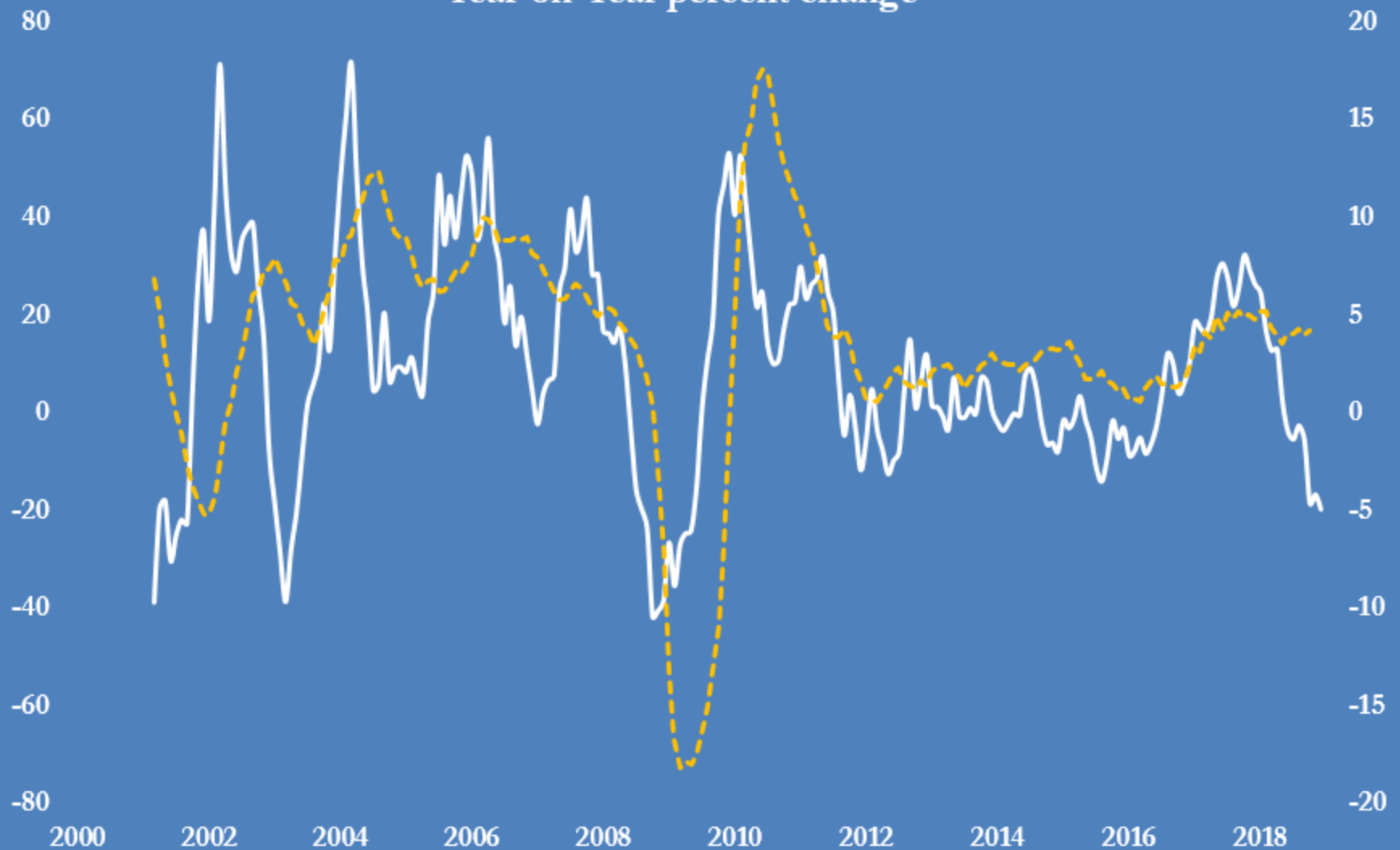
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South Korea's KOSPI-100 equity index, 2001-2018

monthly, percent change compared with prior year



South Korea's KOSPI 100 equity index and world trade Year-on-Year percent change



— KOSPI 100 share index (YoY percent change) (left-axis)
- - - World trade volumes (YoY percent change) (right-axis)

Source: CPB, Refinitiv Eikon
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Volume of World Trade

Year-on-year percent growth, 3-month average

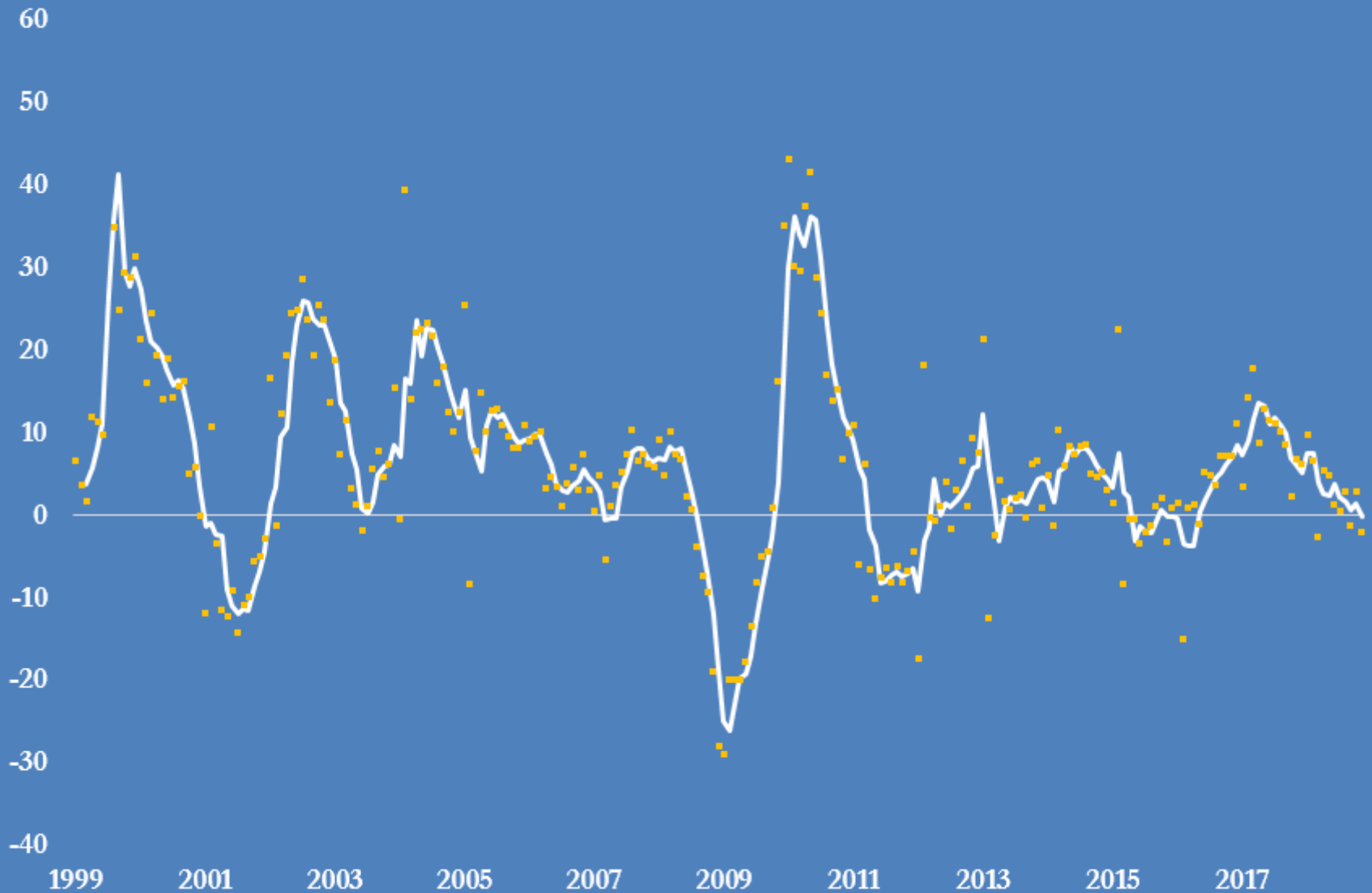


Source: Netherlands Bureau for Economic Policy Analysis, *World Trade Monitor*

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Hong Kong air freight volume, 1998-2018

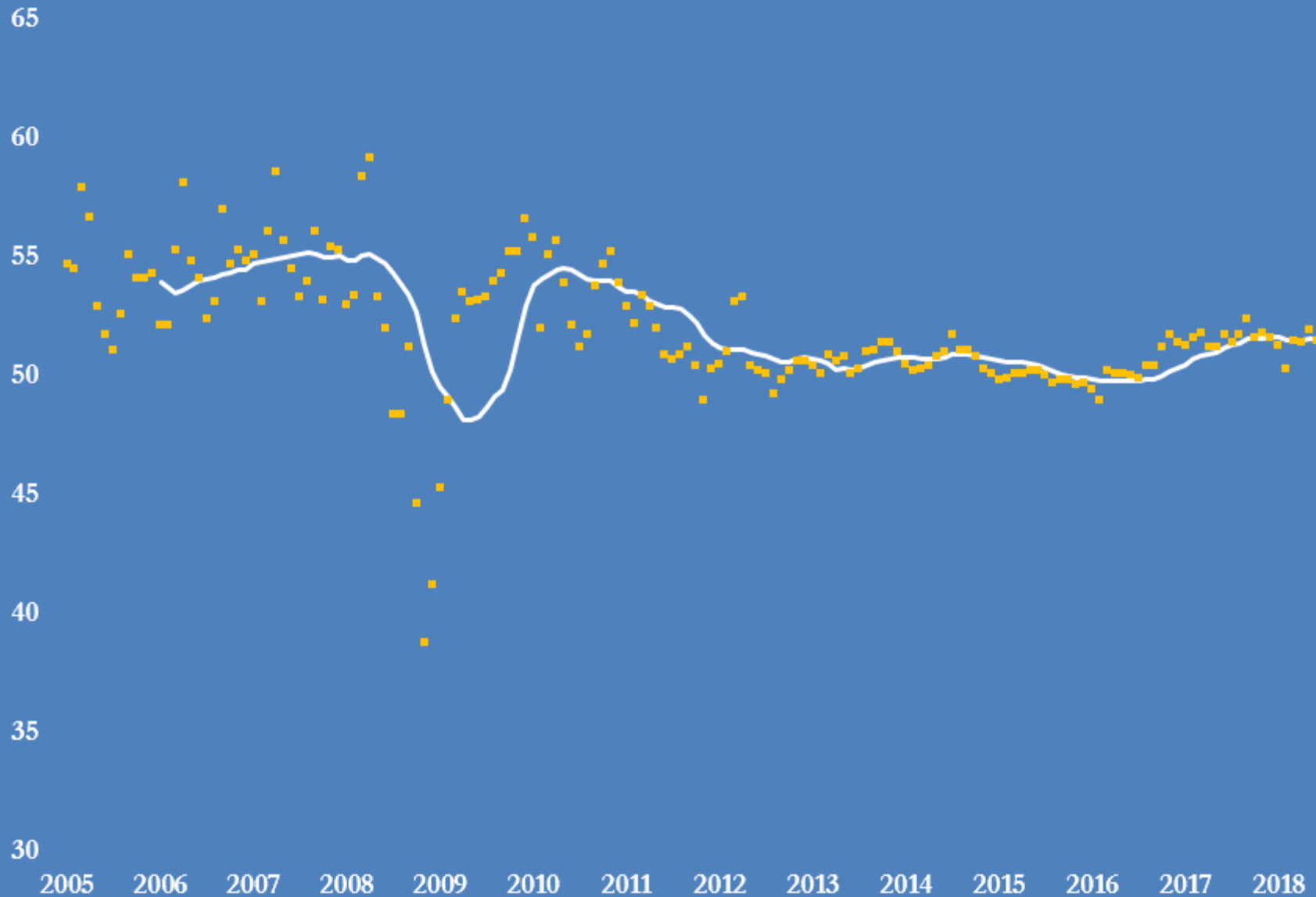
Percent change compared with prior year, monthly and 3-month average



Source: Civil Aviation Department of Hong Kong Special Administrative Region
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China purchasing managers' index, 2005-2018

Manufacturing sector, monthly and 12-month average

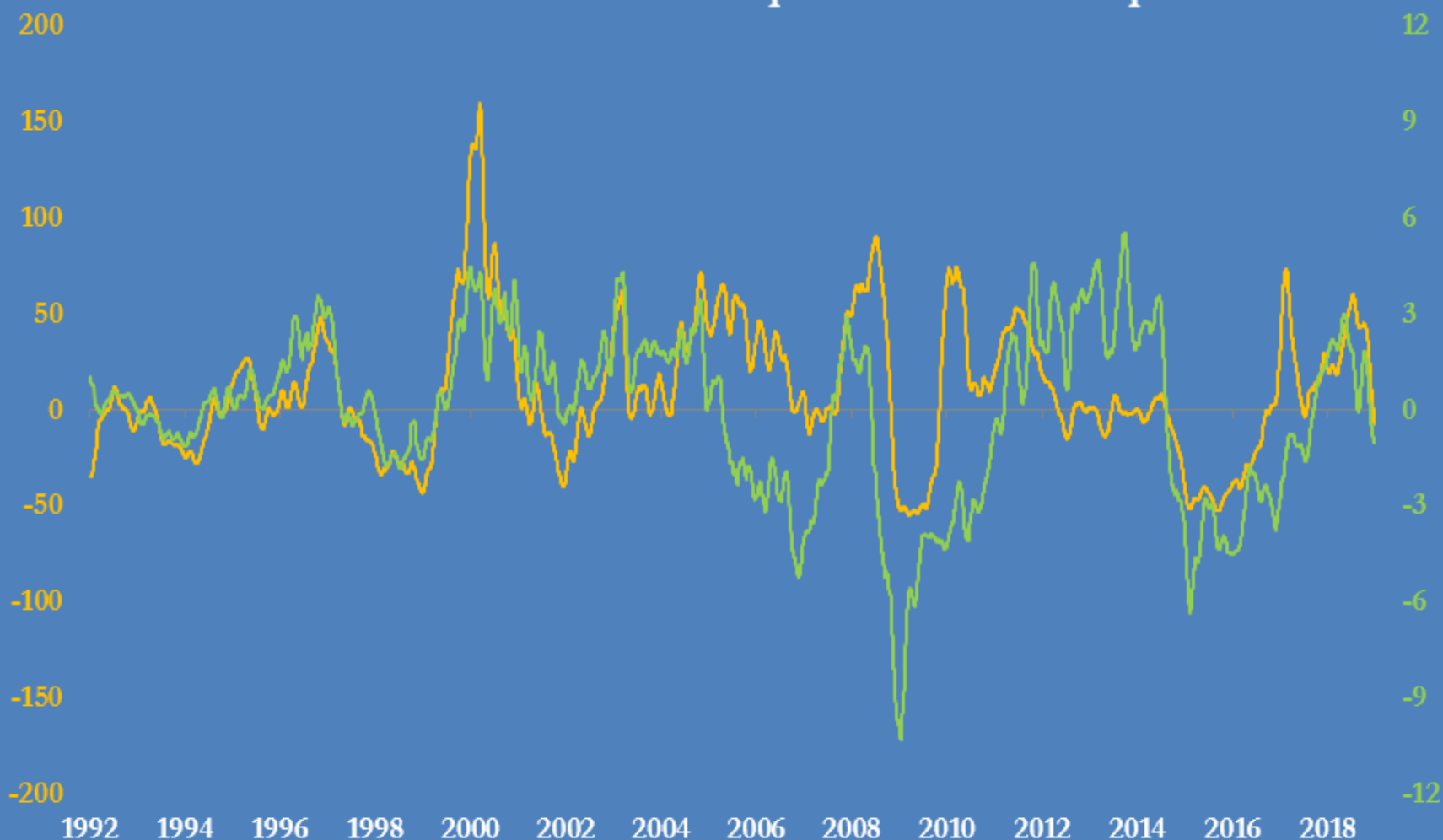


Source: China National Bureau of Statistics

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Cyclical indicators in the oil market

Brent crude: front-month futures prices and calendar spreads



— L-axis: Brent front-month futures prices (percent change year-on-year)

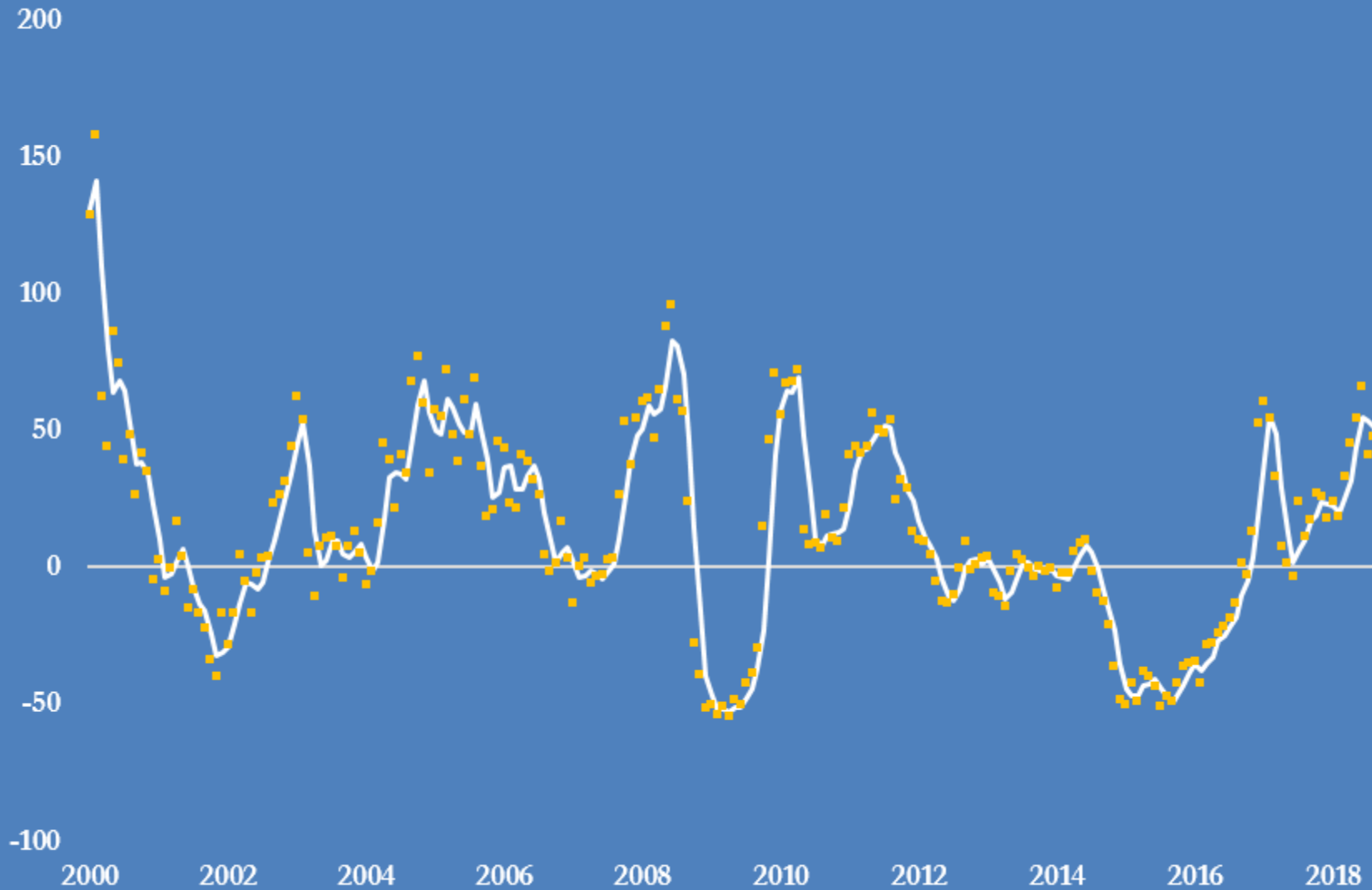
— R-axis: Brent calendar spread (1st month - 7th month future price, U.S.\$ per bbl)

Both series are averaged over 30 trading days to smooth short-term volatility

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Brent front-month futures prices, 2000-2018

Percent change from prior year, monthly and three-month average

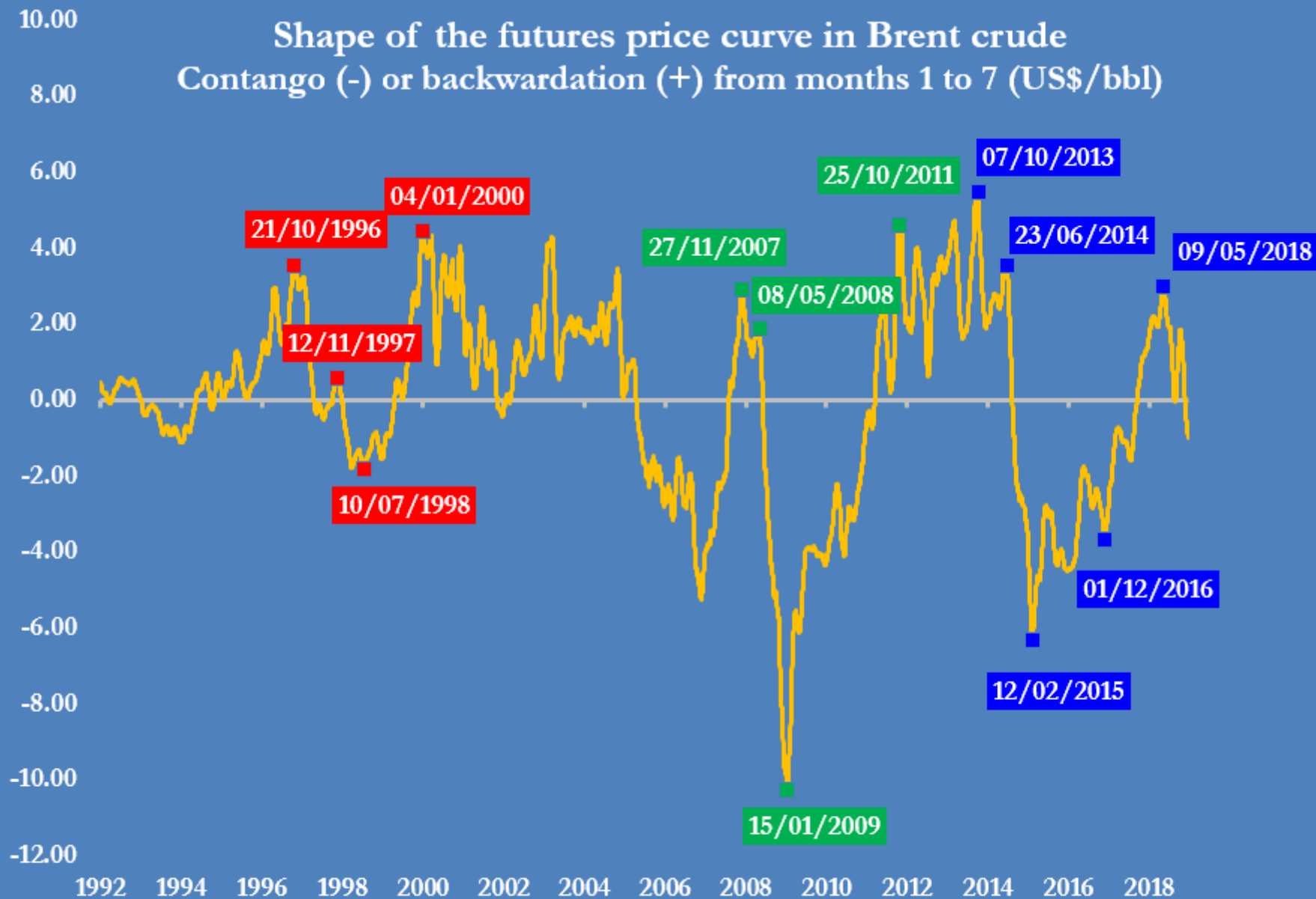


Source: ICE Futures Europe

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Shape of the futures price curve in Brent crude

Contango (-) or backwardation (+) from months 1 to 7 (US\$/bbl)



Price difference between 1st listed contract month and 7th listed contract month for Brent futures (U.S.\$/bbl)
Contango (-) or backwardation (+) averaged over 30 days

Source: Thomson Reuters Eikon, ICE Futures @JKempEnergy