NOMURA

Nomura Commodity Trend Indices – Index Rulebook

18-May 2020

For further information, including the risks in relation to the Indices, please see the Index summary disclosures document for this Index, which is to be read in conjunction with this Index Rulebook (together, the "Index Description").

Index Determination							
Index Sponsor	Nomura International plc ("NIP") who is responsible for the administration of the Index.						
Index Start Date	For each index of the Nomura Trend Indices, the relevant start date as set out in the Index Specifications Table in the Appendix.						
Index ^z	Each index of the Nomura Commodity Trend Indices, which is built using the methodology described in this rulebook.						
Level of Indextz	The level of the Index in respect of Index Business Day t, for Index z as defined in Index Specifications Table						
Indext	For any Index Business Day t, Index ^z shall be equal to:						
	$Index_{t}^{z} = Index_{t-1}^{z} + \sum_{j} Index_{t,reset}^{z,j} \times w^{z,j} \times Return_{t}^{j}$						
	Where						
	t-1 denotes the Index Business Day immediately preceding Index Business Day t,						
	w ^{z,j} is defined in Index Specifications Table,						
	Σ_{j} is taken over all Sub-Index ^j excluding those that are not marked as applicable as defined in the Sub-Index Specifications Table,						
	$Index_t^z$ for $Index_{Start Date}^z = 100$, and						
	Index Start Date with respect to each Index ^z is defined in the Index Specifications Table.						
Index ^{z,j} _{t,reset}	For each Index ^z and Sub-Index ^j , with respect to any Index Business Day t where a Sub-Index ^j Limit Event did not occur on Index Business Day t-1						
	The Level of Index_t^z on a day that is one Index Business Day prior to the immediately preceding Scheduled Roll Date.						
	With respect to any Index Business Day t on which a Sub-Index ^j Limit Event has occurred or is continuing:						
	$Index^{z,j}_{t,reset} = Index^{z,j}_{t\text{-}1,reset}$						
	Where						
	t-1 denotes the Index Business Day immediately preceding Index Business Day t.						
Return ^j	For any Index Business Day t						
	$Return_t^j = Position_{t-1}^j \times Sub-Index Daily Return_t^{j,N,1}$ - Trading Charge_t-1						
	Where						
	t-1 denotes the Index Business Day immediately preceding Index Business Day t.						

Index Position

With respect to each Index Business Day where a Sub-Index Limit Event did not occur on Index Position_t

Business Day t for Sub-Index

[formula to Measure Position]

Daily Signal, With respect to each weekday t

[formula to Measure Daily Signal]

Daily Volatility Scale, With respect to each weekday t

[formula to Daily Volatility Scale]

Volatility, With respect to each weekday t

[formula to Volatility]

Return^{j,x} With respect to each weekday t

Return_t^{j,x} =
$$\sum_{k:t,x+1}^{t}$$
 Sub-Index Daily Return_k^{j,N,1}

Where

the summation is taken with respect to each weekday, and

x refers to the length of the summation window of Sub-Index Daily Return,

Index Components

Sub-Index Daily Return, With respect to each weekday t that is an Index Business Day

$$\text{Sub-Index Daily Return}_{t}^{j,k,i} = \left(\frac{\text{Sub-Index}_{t}^{j,k,i} - \text{Sub-Index}_{t-1}^{j,k,i}}{\text{Sub-Index}_{t-\text{reset}}^{j,k,i}}\right)$$

With respect to any other weekday t

Sub-Index Daily Return, = 0

Where

t-1 denotes the Index Business Day immediately preceding Index Business Day t.

Sub-Index; i,k,i For any Index Business Day t, the level of Sub-Index for day t as determined by the Index Sponsor

in accordance with the methodology of Sub-Index^J.

 $\textbf{Sub-Index}_{t,reset}^{j,k,i} \hspace{1.5cm} \text{For any Index Business Day t, the level of Sub-Index}_{t,reset}^{j,k,i} \hspace{1.5cm} \text{for day t as determined by the Index}$

Sponsor in accordance with the methodology of Sub-Index^j.

Index Charges

Trading Charge^j With respect to each Index Business Day t that falls within a Roll Period and if Underlying Future^{j,N,1,current} is different from Underlying Future^{j,N,1,previous}, then

$$\text{Trading Charge}_{t}^{j} = \left\{ \begin{vmatrix} \text{Position}_{t}^{j} \times \text{Roll Weight}_{t}^{j,N,1} - \text{Position}_{t-1}^{j} \times \text{Roll Weight}_{t-1}^{j,N,1} \\ \times \left(\text{Charge A}^{j} + \frac{\text{Charge B}^{j}}{\text{Future}_{t+1,\text{reset}}^{j,N,1,\text{current}} \times \text{Contract Size}^{j}} \right) \end{vmatrix} \right\}$$

$$+ \left\{ \begin{vmatrix} \mathsf{Position}_t^j \times (1 - \mathsf{Roll} \ \mathsf{Weight}_t^{j,N,1}) - \mathsf{Position}_{t\text{-}1}^j \times (1 - \mathsf{Roll} \ \mathsf{Weight}_{t\text{-}1}^{j,N,1}) \\ \times \left(\mathsf{Charge} \ \mathsf{A}^j + \frac{\mathsf{Charge} \ \mathsf{B}^j}{\mathsf{Future}_{t\text{-}1,reset}^{j,N,1,previous} \times \mathsf{Contract} \ \mathsf{Size}^j \right) \\ \end{vmatrix} \right\}$$

Otherwise,

	$ \text{Trading Charge}_{t}^{j} = \left\{ \left \text{Position}_{t}^{j} - \text{Position}_{t-1}^{j} \right \times \left(\text{Charge A}^{j} + \frac{\text{Charge B}^{j}}{\text{Future}_{t+1, reset}^{j, N, 1, \text{current}}} \times \text{Contract Size}^{j} \right) \right\} $
	Where
	t-1 denotes the Index Business Day immediately preceding Index Business Day t, and
	t+1 denotes the Index Business Day immediately following Index Business Day t.
	Charge A^{j} , Charge B^{j} and Contract $Size^{j}$ are defined in the Appendix in Sub-Index Specifications Table
$ure_{t,s}^{j,k,i,n}$	As defined in Nomura Commodity Futures Index Rulebook
i.k.i.n	As defined in Nemura Commedity Futures Index Pulcheck

Future j,k,i,n As defined in Nomura Commodity Futures Index Rulebook

Underlying Future j,k,i,n As defined in Nomura Commodity Futures Index Rulebook

Roll Period j,k,i As defined in Nomura Commodity Futures Index Rulebook

Roll Weight, As defined in Nomura Commodity Futures Index Rulebook

Roll Day, i.k.i As defined in Nomura Commodity Futures Index Rulebook

General Definitions	
Index Business Day	As defined in Nomura Commodity Futures Index Rulebook
Index Trading Business Day	Each Index Business Day
Scheduled Roll Date	As defined in Nomura Commodity Futures Index Rulebook
Sub-Index Limit Event	As defined in Nomura Commodity Futures Index Rulebook under section Index Limit Event
Index Publication	With respect to each Index Business Day, the Rounded Index Level will be published to the Index Price Source specified in the Index Specifications Table.
Rounded Index Level	Rounded Index Level means the Index Level (Inde x_t^z) rounded to the nearest number decimal places specified in the Index Specifications Table.

Disruption Provisions

Index Adjustment

Futu

If, due to the occurrence of an error (i) in relation to the calculation or publication of the level of the Index, or (ii) in the method for determining the Index, the Index Sponsor has determined on any day (an "Adjustment Determination Date") that an adjustment to the Index is necessary in order to correct such error (an "Index Adjustment"), then the Index Sponsor will make such corresponding adjustments to the Index as it deems necessary, if any, in order to reflect the Index Adjustment (in each case in accordance with the principles and methodology of the Index).

The Index Sponsor may correct errors in accordance with Appendix 2, Section 13 of the Control Framework Summary ("Correction of Errors") and Appendix 2, Section 15 ("Changes to Methodology") where remediation requires change to the Index methodology.

Consequences of Sub-Index Correction

If in a relation to a Sub-Index, at any time the Index Sponsor of that Sub-Index corrects the level or value of a Sub-Index subsequent to publication, the Index Sponsor will make all calculations and determinations in respect of the Index by reference to such corrected level of the Sub-Index.

Index Disruption

If, in the opinion of the Index Sponsor, on any day an Index Disruption Event has occurred or exists or is occurring in respect of a Sub-Index or the Index then the Index Sponsor may take one or more of the following actions in its discretion, with a view to preserving the objective of the Sub-Index or Index (regardless of whether or not a level of the affected Sub-Index has been published by the Index Sponsor in respect of such day):

- (i) delay any rebalancing and/or calculation of the Index (an "Index Determination Date") until the relevant Index Disruption Event no longer exists, provided that, if such Index Disruption Event is continuing on the [Number] Index Business Day following any such Index Determination Date (the "Delayed Index Determination Date"), then the Index Sponsor will determine the level of the relevant Sub-Index (including any affected Sub-Index component) in respect of such Index Determination Date as of on the related Delayed Index Determination Date in accordance with (ii) below; and/or
- (ii) determine the level of the affected Sub-Index for such day in accordance with the formula for and method of calculating such Sub-Index taking into account the relevant Index Disruption Event, latest available quotation of the Sub-Index and its Sub-Index Components and any other information the Index Sponsor deems relevant in its discretion, having regard to the standard of input data quality for the Sub-Index or Index as determined by the Index Sponsor during the design of the Sub-Index or Index, as set out in Appendix 2, Section 6 of the Control Framework Summary ("Data Sufficiency and Hierarchy of Input Data"), and/or
- (iii) not calculate and publish the Index level for such day or delay the publication; and/or
- (iv) make any adjustments to the Index methodology to account for the relevant Index Disruption Event as it deems necessary

Index Disruption Event

Means in respect of a Sub-Index:

- (i) any of the events or circumstances as specified in the in the disruption section in the relevant Index Description of such Sub-Index (as maybe amended and updated from time to time by the Sub-Index Sponsor of such Sub-Index), occurs or exists in relation to a Sub-Index and its components (including, without limitation, any index adjustment, index modification or index disruption); and/or
- (ii) the Sub-Index Sponsor makes or announces that it will make a material change in the formula for or the method of calculating a Sub-Index or in any other way materially modifies or announces that it will materially modify a Sub-Index; and/or
- (iii) on any relevant date on which an Index determination is scheduled to occur, the Sub-Index Sponsor fails to calculate and announce a Sub-Index; and/or
- (iv) on any relevant date on which an Index determination is scheduled to occur, the Sub-Index Price Source fails to publish a level for a Sub-Index.

Means in respect of the Index:

- (i) the Index Sponsor determines that a systems failure, natural or man-made disaster, act of God, armed conflict, act of terrorism, riot or labour disruption or any similar intervening circumstances beyond its reasonable control exists, has occurred or is occurring in respect of an Index Component or the Index, and which prevents, disrupts, or impairs the ability of the Index to achieve its economic objective, the prompt or accurate determination of the level of the Index, and/or the ability of the Index Sponsor or Index calculation agent to perform its role in respect of the Index; and/or
- (ii) any other event or circumstance that, in the opinion of the Index Sponsor, prevents, disrupts or impairs the ability of the Index to achieve its economic objective or the prompt or accurate determination of the level of the Index, or any other event or circumstance which causes the Index Sponsor to reasonably conclude that as a consequence of such event or circumstance, if the Level of the Index were to be determined, it should not be relied upon to represent the market or economic reality that the Index is intended to measure.

Index Modification

- (a) Upon the occurrence of a (i) Sub-Index Modification Event or (ii) Input Data Decline Event, the Index Sponsor may make such adjustment(s) to the Index as it deems appropriate, to account for any affect such event has on the Index (such as, but not limited to, the input data and/or price source used to determine the Index, Sub-Index weights and/or related charges, fees or taxes) and, where possible, shall use input data which is of the same or equivalent standard of quality as any input data and/or price source used prior to the occurrence of the Index Modification Event, having regard to the standard of input data quality for the Index as determined by the Index Sponsor during the design of the Index, as set out in Appendix 2, Section 6 of the Control Framework Summary ("Data Sufficiency and Hierarchy of Input Data").
- (b) Upon the occurrence of an Extraordinary Event the Index Sponsor may make such adjustment(s)

to the Index that it determines appropriate such that the event ceases to exist. If the Index Sponsor determines that no such adjustment(s) would preserve the objective of the Index, would result in the use of input data which is not of the same or equivalent standard of quality as any input data and/or price source used in the Index prior to the occurrence of the Extraordinary Event, and/or is economically, operationally, legally or otherwise not feasible (after using commercially reasonable efforts) ("Index Modification Failure") it may cancel the Index in accordance with the Index Cancellation provisions below.

The Index Sponsor may modify the Index in accordance Appendix 2, Section 15 of the Control Framework Summary ("Changes to Methodology").

Index Modification Event

Means the existence or occurrence of a (i) Sub-Index Modification Event or (ii) Input Data Decline Event.

"Input Data Decline Event" means if the Index Sponsor determines that the input data and/or price source in relation to a Sub-Index Component or Index Component used to calculate the Sub-Index or Index is no longer sufficient to represent accurately and reliably the market and economic reality that the Sub-Index or Index is intended to measure, or is otherwise not appropriate, or no longer meets the standard of input data quality for the Sub-Index or Index as determined by the Index Sponsor during the design of the Sub-Index or Index, as set out in Appendix 2, Section 6 of the Control Framework Summary ("Data Sufficiency and Hierarchy of Input Data")

Sub-Index Modification means an "Index Modification Event" in respect of the relevant Sub-Index as specified in the in the disruption section in the relevant Index Description of such Sub-Index (as maybe amended and updated from time to time by the Sub-Index Sponsor of such Sub-Index).

Extraordinary Event means any Change in Law, Instrument Disruption and/or Increased Cost of Index Implementation.

Change in Law means that, on or after the Index Live Date (i) due to the adoption of or any change in any applicable law or regulation (including, without limitation, any tax law), or (ii) due to the promulgation of or any change in the interpretation by any court, tribunal or regulatory authority with competent jurisdiction of any applicable law or regulation (including any action taken by a taxing authority), the Index Sponsor determines in good faith that (x) it has become illegal to hold, acquire or dispose of an Sub-Index component, or (y) there is a materially increased cost of trading in a Sub-Index component for the Index Sponsor or its affiliates (including, without limitation, due to any increase in tax liability, decrease in tax benefit or other adverse effect on its tax position).

Instrument Disruption means that the Index Sponsor or any of its affiliates or agents is unable, or it is impractical, after using commercially reasonable efforts, to (i) acquire, establish, re-establish, substitute, maintain, unwind or dispose of any transaction(s) or asset(s) it deems necessary to implement the Index, or (ii) realise, recover or remit the proceeds of any such transaction(s) or asset(s), including, without limitation, where such inability or impracticability has arisen by reason of any restriction on making new or additional investments in any Sub-Index and its components.

Increased Cost of Index Implementation means that the Index Sponsor or any of its affiliates would incur a materially increased (as compared with circumstances existing on the Effective Date) amount of tax, duty, expense or fee to (i) acquire, establish, re-establish, substitute, maintain, unwind or dispose of any transaction(s) or asset(s) it deems necessary to implement the Index, or (ii) realise, recover or remit the proceeds of any transaction(s) or asset(s).

Consequences of a Sub-Index Cancellation

If upon the occurrence of a Sub-Index Cancellation there is a Successor Sub-Index then such Successor Sub-Index shall be deemed to be the relevant Sub-Index and the Index Sponsor may make such adjustment(s) to the Index methodology that it determines appropriate, in order to account for the effect of the replacement of that Sub-Index with the Successor Sub-Index.

If a Sub-Index Cancellation occurs for a period of fifteen (15) Index Business Days measured from the first day of such Sub-Index Cancellation and as at the end of such period of time there is no Successor Sub-Index ("Sub-Index Replacement Failure"), then the Index Sponsor may

- a) remove the cancelled Sub-Index and make such adjustment(s) to the Index methodology that it determines appropriate, in order to account for the effect of such removal of the cancelled Sub-Index, or
- b) cancel the Index in accordance with the Index Cancellation provisions below.

Index Cancellation

The Index Sponsor may permanently cancel and discontinue calculating and publishing the Index, in accordance with Appendix 2, Section 17 of the Control Framework Summary ("Termination of Indices and Transitional Arrangements"), including upon the occurrence of:

- (a) Sub-Index Replacement Failure; and/or
- (b) an Index Modification Failure.

Definitions

Index Component means, in respect of the Index, each underlying Sub-Index Component and any other index, futures contract, currency, rate, variable or other component necessary in order to determine a level of the Index, in each case, in line with the then existing methodology of the Index.

Sub-Index Component means, in respect of a Sub-Index, each underlying component index, futures contract, currency, rate, variable or other component necessary in order to determine a level of such Sub-Index, in each case, in line with the then existing methodology of the Sub-Index.

Sub-Index Sponsor means Nomura International plc ("NIP"), who is responsible for the administration of the relevant Sub-Index.

Sub-Index Price Source means, in respect of a Sub-Index, the relevant Bloomberg page as specified in Sub-Index Specifications Table under the column headed "Sub-Index Price Source" in the row corresponding to such Sub-Index. References to Sub-Index Price Source shall be construed as referring also to any successor publication, page or source on which the relevant Sub-Index levels may be disseminated, as determined by the Index Sponsor in its sole discretion and acting in a commercially reasonable manner.

Sub-Index Cancellation means, that a Sub-Index is permanently cancelled or the relevant Sub-Index Sponsor announces (including through an agent, if applicable) its intention to permanently cancel a Sub-Index or its intention to cease to calculate and announce a level for a Sub-Index.

Successor Sub-Index means a successor or replacement index using, in the determination of the Index Sponsor, the same or a substantially similar formula for and method of calculation as used in the calculation of the relevant Sub-Index or, if non, a replacement with the same or similar investment objective as the Sub-Index and that is acceptable to the Index Sponsor.

ADDITIONAL INFORMATION IN RESPECT OF THE INDEX METHODOLOGY

Governance Policy and Control Framework

The Index Sponsor has established a governance framework (the "Governance Policy and Control Framework") to ensure compliance with the IOSCO Principles for Financial Benchmarks (FR07/13, July 2013) (as amended or replaced from time to time)¹. The Governance Policy and Control Framework governs (amongst other things) the development, determination and operation of indices administered by the Index Sponsor. A summary of the Governance Policy and Control Framework (the "Control Framework Summary") is published on: www.nomuranow.com/portal/site/nnextranet/en/global-markets/structured-derivatives/quant-investment-strategies.shtml. Please refer to the summary of the Governance Policy and Control Framework in respect of the following information applying to the Index methodology:

Criteria for Index Development and Input Data and Source Selection

The criteria and procedures used to develop this Index, and for selecting the sources of data inputs used in the Index, are set out in Appendix 2, Section 3 of the Control Framework Summary ("Index Design and Creation of New Indices") and Appendix 2, Section 6 ("Data Sufficiency and Hierarchy of Data Inputs").

Exercise of Expert Judgment and discretion

The Index Sponsor has adopted guidelines and procedures designed to promote consistency in the exercise of Expert Judgment and discretion for Index determinations. Further details are contained in Appendix 2, Section 14 of the Control Framework Summary ("Expert Judgment and Discretion").

Input Data Type Priority

The Index Sponsor applied the hierarchy for data inputs as set out in Appendix 2, Section 6 of the Control Framework Summary ("Data Sufficiency and Hierarchy of Data Inputs") when considering the data inputs used to construct the Index.

Index Error

The Index Sponsor has adopted procedures for analysis and remediation of Index errors, and for

https://www.iosco.org/library/pubdocs/pdf/IOSCOPD415.pdf . The Governance Policy and Control Framework will be periodically reviewed and has been updated to reflect the requirements of the Regulation on indices used as benchmarks in financial instruments and financial contracts or to measure the performance of investment funds and amending Directives 2008/48/EC and 2014/17/EU and Regulation (EU) No 596/2014 (Regulation (EU) 2016/1011) (the "Benchmark Regulation"), as well as related level 2 measures and applicable FCA rules.

Reports and Revision

potential restatement of a published Index level. Further details are contained in Appendix 2, Section 13 of the Control Framework Summary ("Correction of Errors") and Appendix 2, Section 15 ("Changes to Methodology") where remediation requires change to the Index Methodology.

Quantity and Quality of Input Data

The Index is constructed by the Index Sponsor using single prices or levels prescribed by the Index Methodology. The Index Sponsor therefore considers that the requirement to determine the thresholds of the quantity of data inputs, necessary to determine the Index accurately and reliably, has been met.

The Index Sponsor determines the standards of quality of the data inputs used in this Index at the design stage of the Index in accordance with Appendix 2, Section 6 of the Control Framework Summary ("Data Sufficiency and Hierarchy of Data Inputs"). These standards are reflected in the Index Methodology, as described in this Rulebook. The Index Sponsor will review these standards and the data inputs on a periodic basis in accordance with Appendix 2, Section 16 of the Control Framework Summary ("Periodic Review of Indices") and in the full policies and procedures available on the Index Sponsor's public website, to ensure that the data inputs used continue to be of sufficient quality to determine the Index accurately and reliably, and will accordingly determine whether an Index Modification Event has occurred.

Internal Reviews of the Index

The Index Sponsor is required to conduct internal reviews of the Index on a periodic basis. Further details regarding the frequency of those reviews, the procedures to be followed, and the bodies or functions within the Index Sponsor's organisational structure involved in such reviews, are contained in Appendix 2, Section 16 of the Control Framework Summary ("Periodic Review of Indices") and in the full policies and procedures available on the Index Sponsor's public website.

Reviews will further be conducted where the Index Sponsor considers it desirable or necessary to do so, including in response to specific events or otherwise. Specific events may include (without limitation) any index errors, index disruptions, or other index life-cycle events; changes in market circumstances; changes in the applicable legal or regulatory environment; any challenges or complaints or other feedback from stakeholders, and/or any material audit findings. Further information regarding the procedures to be followed in response to certain specific events, and the bodies or functions within the Index Sponsor's organisational structure involved in such reviews, can be found in Appendix 2, Sections 13 ("Correction of Errors"),14 ("Expert Judgment and Discretion"), 15 ("Changes to Methodology"), 19 ("Complaints Handling Policy"), 21 ("Audits"), and any other sections of the Control Framework Summary which may be relevant from time to time.

Index Approval

The criteria and procedures used to approve the Index, and the bodies or functions within the Index Sponsor's organisational structure involved in such approval, are set out in Appendix 3 of the Control Framework Summary ("Main Features of Index Committee Constitution and Terms or Reference") and Appendix 2, Section 3 ("Index Design and Creation of New Indices").

Investor Consultation upon Index termination and material changes to the Index methodology

The Index Sponsor is required to consult investors of index linked products when proposing material changes to the Index methodology and termination of the Index. Further details on the circumstances and procedures under which consultation takes place are contained in Appendix 2, Section 15 of the Control Framework Summary ("Changes to Methodology"), Appendix 2, Section 17 ("Termination of Indices and Transitional Arrangements") and in the full policies and procedures available on the Index Sponsor's public website.

Active Market of the Index

As of the date of this Index Description, the Index Sponsor considers the underlying market of the Index to be active, in accordance with in Appendix 2, Sections 3 ("Index Design and Creation of New Indices and Methodologies") of the Control Framework Summary.

Outsourcing of Index Determination

The Index Sponsor has outsourced certain IT, Quants, Middle Office and Structuring functions to Nomura Structured Finance Services (India) Private Limited subject to a corporate service agreement between the entities. Further details are contained in Appendix 2, Section 1 of the Control Framework Summary ("Oversight of Third Parties").

<u>Appendix</u>

Index Specifications Table

z	Index ^z	Index Price Source (Bloomberg page)	Applicable Sub-Index ⁱ (j)	w ^{z,j}	Index Start Date	Index Live Date	Rounding
1	Nomura WTI Crude Oil 1st to Expire Trend Index	NMCOTCL1 Index	1	Weight	5 October 1984	3 September 2019	3 d.p.
2	Nomura Brent Crude Oil 1st to Expire Trend Index	NMCOTCO1 Index	2	Weight	6 April 1990	3 September 2019	3 d.p.
3	Nomura Heating Oil 1st to Expire Trend Index	NMCOTHO1 Index	3	Weight	6 February 1981	3 September 2019	3 d.p.
4	Nomura Gasoline 1st to Expire Trend Index	NMCOTXB1 Index	4	Weight	8 May 1986	3 September 2019	3 d.p.
5	Nomura Gas Oil 1st to Expire Trend Index	NMCOTQS1 Index	5	Weight	7 June 1985	3 September 2019	3 d.p.
6	Nomura Natural Gas 1st to Expire Trend Index	NMCOTNG1 Index	6	Weight	9 September 1991	3 September 2019	3 d.p.
7	Nomura Gold 1st to Expire Trend Index	NMCOTGC1 Index	7	Weight	7 June 1976	3 September 2019	3 d.p.
8	Nomura Silver 1st to Expire Trend Index	NMCOTSI1 Index	8	Weight	8 January 1971	3 September 2019	3 d.p.
9	Nomura Copper 1st to Expire Trend Index	NMCOTLP1 Index	9	Weight	6 April 1990	3 September 2019	3 d.p.
10	Nomura Aluminium 1st to Expire Trend Index	NMCOTLA1 Index	10	Weight	7 December 1998	3 September 2019	3 d.p.
11	Nomura Zinc 1st to Expire Trend Index	NMCOTLX1 Index	11	Weight	7 December 1998	3 September 2019	3 d.p.
12	Nomura Nickel 1st to Expire Trend Index	NMCOTLN1 Index	12	Weight	7 December 1998	3 September 2019	3 d.p.
13	Nomura Lead 1st to Expire Trend Index	NMCOTLL1 Index	13	Weight	9 April 1999	3 September 2019	3 d.p.
14	Nomura Corn 1st to Expire Trend Index	NMCOTC1 Index	14	Weight	8 January 1971	3 September 2019	3 d.p.
15	Nomura Soybean 1st to Expire Trend Index	NMCOTS1 Index	15	Weight	8 January 1971	3 September 2019	3 d.p.
16	Nomura Soy Meal 1st to Expire Trend Index	NMCOTSM1 Index	24	Weight	7 June 1971	3 September 2019	3 d.p.
17	Nomura Soybean Oil 1st to Expire Trend Index	NMCOTBO1 Index	25	Weight	7 June 1971	3 September 2019	3 d.p.
18	Nomura Wheat 1st to Expire Trend Index	NMCOTW1 Index	16	Weight	8 January 1971	3 September 2019	3 d.p.
19	Nomura Kansas Wheat 1st to Expire Trend Index	NMCOTKW1 Index	23	Weight	7 June 1971	3 September 2019	3 d.p.
20	Nomura Sugar 1st to Expire Trend Index	NMCOTSB1 Index	17	Weight	7 June 1974	3 September 2019	3 d.p.
21	Nomura Coffee 1st to Expire Trend Index	NMCOTKC1 Index	18	Weight	7 March 1975	3 September 2019	3 d.p.
22	Nomura Cocoa 1st to Expire Trend Index	NMCOTCC1 Index	19	Weight	7 March 1974	3 September 2019	3 d.p.
23	Nomura Cotton 1st to Expire Trend Index	NMCOTCT1 Index	20	Weight	7 March 1974	3 September 2019	3 d.p.
24	Nomura Live Cattle 1st to Expire Trend Index	NMCOTLC1 Index	21	Weight	8 September 1971	3 September 2019	3 d.p.
25	Nomura Lean Hogs 1st to Expire Trend Index	NMCOTLH1 Index	22	Weight	8 July 1971	3 September 2019	3 d.p.
26	Nomura 1st to Expire Commodity Trend Index with Risk Weights	NMCOT1NM Index	*	Weight	8 January 1971	3 September 2019	2 d.p.
27	Nomura 1st to Expire Energy Trend Index with Risk Weights	NMCOT1NE Index	*	Weight	6 February 1981	3 September 2019	3 d.p.
28	Nomura 1st to Expire Precious Metals Trend Index with Risk Weights	NMCOT1NP Index	*	Weight	8 January 1971	3 September 2019	3 d.p.
29	Nomura 1st to Expire Industrial Metals Trend Index with Risk Weights	NMCOT1NI Index	*	Weight	6 April 1990	3 September 2019	3 d.p.
30	Nomura 1st to Expire Agriculture Trend Index with Risk Weights	NMCOT1NA Index	*	Weight	8 January 1971	3 September 2019	3 d.p.
31	Nomura 1st to Expire Livestock Trend Index with Risk Weights	NMCOT1NL Index	*	Weight	8 July 1971	3 September 2019	3 d.p.
32	Nomura 1st to Expire Energy and Industrial Metals Trend Index with Risk Weights	NMCOT1NF Index	*	Weight	6 February 1981	3 September 2019	3 d.p.
33	Nomura 1st to Expire Energy and Metals Trend Index with Risk Weights	NMCOT1NG Index	*	Weight	8 January 1971	3 September 2019	2 d.p.
34	Nomura 1st to Expire Commodity Core Trend Index	NMCOT1C Index	*	Weight	7 June 1976	1 May 2020	2 d.p.

^{*} Refer to Index Specifications Weight Table

Index Specifications Weight Table

j	Sub-Index ^j					w ^{z,j} *				
		z = 26	z = 27	z = 28	z = 29	z = 30	z = 31	z = 32	z = 33	z = 34
1	Nomura WTI Crude Oil 1st to Expire Futures Index	Weight	Weight	Weight	Weight	Weight	Weight	Weight	Weight	Weight
2	Nomura Brent Crude Oil 1st to Expire Futures Index	Weight	Weight	Weight	Weight	Weight	Weight	Weight	Weight	Weight
3	Nomura Heating Oil 1st to Expire Futures Index	Weight	Weight	Weight	Weight	Weight	Weight	Weight	Weight	Weight
4	Nomura Gasoline 1st to Expire Futures Index	Weight	Weight	Weight	Weight	Weight	Weight	Weight	Weight	Weight
5	Nomura Gas Oil 1st to Expire Futures Index	Weight	Weight	Weight	Weight	Weight	Weight	Weight	Weight	Weight
6	Nomura Natural Gas 1st to Expire Futures Index	Weight	Weight	Weight	Weight	Weight	Weight	Weight	Weight	Weight
7	Nomura Gold 1st to Expire Futures Index	Weight	Weight	Weight	Weight	Weight	Weight	Weight	Weight	Weight
8	Nomura Silver 1st to Expire Futures Index	Weight	Weight	Weight	Weight	Weight	Weight	Weight	Weight	Weight
9	Nomura Copper 1st to Expire Futures Index	Weight	Weight	Weight	Weight	Weight	Weight	Weight	Weight	Weight
10	Nomura Aluminium 1st to Expire Futures Index	Weight	Weight	Weight	Weight	Weight	Weight	Weight	Weight	Weight
11	Nomura Zinc 1st to Expire Futures Index	Weight	Weight	Weight	Weight	Weight	Weight	Weight	Weight	Weight
12	Nomura Nickel 1st to Expire Futures Index	Weight	Weight	Weight	Weight	Weight	Weight	Weight	Weight	Weight
13	Nomura Lead 1st to Expire Futures Index	Weight	Weight	Weight	Weight	Weight	Weight	Weight	Weight	Weight
14	Nomura Corn 1st to Expire Futures Index	Weight	Weight	Weight	Weight	Weight	Weight	Weight	Weight	Weight
15	Nomura Soybean 1st to Expire Futures Index	Weight	Weight	Weight	Weight	Weight	Weight	Weight	Weight	Weight
16	Nomura Soy Meal 1st to Expire Futures Index	Weight	Weight	Weight	Weight	Weight	Weight	Weight	Weight	Weight
17	Nomura Soybean Oil 1st to Expire Futures Index	Weight	Weight	Weight	Weight	Weight	Weight	Weight	Weight	Weight
18	Nomura Wheat 1st to Expire Futures Index	Weight	Weight	Weight	Weight	Weight	Weight	Weight	Weight	Weight
19	Nomura Kansas Wheat 1st to Expire Futures Index	Weight	Weight	Weight	Weight	Weight	Weight	Weight	Weight	Weight
20	Nomura Sugar 1st to Expire Futures Index	Weight	Weight	Weight	Weight	Weight	Weight	Weight	Weight	Weight
21	Nomura Coffee 1st to Expire Futures Index	Weight	Weight	Weight	Weight	Weight	Weight	Weight	Weight	Weight
22	Nomura Cocoa 1st to Expire Futures Index	Weight	Weight	Weight	Weight	Weight	Weight	Weight	Weight	Weight
23	Nomura Cotton 1st to Expire Futures Index	Weight	Weight	Weight	Weight	Weight	Weight	Weight	Weight	Weight
24	Nomura Live Cattle 1st to Expire Futures Index	Weight	Weight	Weight	Weight	Weight	Weight	Weight	Weight	Weight
25	Nomura Lean Hogs 1st to Expire Futures Index	Weight	Weight	Weight	Weight	Weight	Weight	Weight	Weight	Weight

^{*} For Index^z where z = 27 to 33, the weight to each Sub-Index^l are determined by scaling the Sub-Index^l weights for z = 26 ($w^{26.i}$) for applicable sub-indices proportionally such the weights add up to Applicable sub-indices are those where the Sub-Index^l weights are not set as n/a in the table above. Sub-Index^l weights for z = 27 to 33, showed in the table are rounded to 2 decimal places for illustration only. The calculation of indices utilise Sub-Index^l weights that are not rounded.

Sub-Index Specifications Table

j	Commodity	Sub-Index	Blomberg page	Target Volatility ^j	Volatility Scale Cap ^j	Charge A ^j (%)	Charge B ^j (\$ per contract)	Contract Size ^j
1	WTI Crude Oil	Nomura WTI Crude Oil 1st to Expire Futures Index	NMCOCL1 Index	Target V <u>o</u> latility	Volatility Scale	Charge A	Charge B	Contract Size
2	Brent Crude Oil	Nomura Brent Crude Oil 1st to Expire Futures Index	NMCOCO1 Index	Target V <u>o</u> latility	Volatility Scale	Charge A	Charge B	Contract Size
3	Heating Oil	Nomura Heating Oil 1st to Expire Futures Index	NMCOHO1 Index	Target Volatilitv	Volatility Scale	Charge A	Charge B	Contract Size
4	Gasoline	Nomura Gasoline 1st to Expire Futures Index	NMCOXB1 Index	Target Volatilitv	Volatility Scale	Charge A	Charge B	Contract Size
5	Gas Oil	Nomura Gas Oil 1st to Expire Futures Index	NMCOQS1 Index	Target Volatilitv	Volatility Scale	Charge A	Charge B	Contract Size
6	Natural Gas	Nomura Natural Gas 1st to Expire Futures Index	NMCONG1 Index	Target Volatilitv	Volatility Scale	Charge A	Charge B	Contract Size
7	Gold	Nomura Gold 1st to Expire Futures Index	NMCOGC1 Index	Target Volatility	Volatility Scale	Charge A	Charge B	Contract Size
8	Silver	Nomura Silver 1st to Expire Futures Index	NMCOSI1 Index	Target Volatility	Volatility Scale	Charge A	Charge B	Contract Size
9	Copper	Nomura Copper 1st to Expire Futures Index	NMCOLP1 Index	Target Volatilitv	Volatility Scale	Charge A	Charge B	Contract Size
10	Aluminium	Nomura Aluminium 1st to Expire Futures Index	NMCOLA1 Index	Target Volatility	Volatility Scale	Charge A	Charge B	Contract Size
11	Zinc	Nomura Zinc 1st to Expire Futures Index	NMCOLX1 Index	Target Volatilitv	Volatility Scale	Charge A	Charge B	Contract Size
12	Nickel	Nomura Nickel 1st to Expire Futures Index	NMCOLN1 Index	Target Volatilitv	Volatility Scale	Charge A	Charge B	Contract Size
13	Lead	Nomura Lead 1st to Expire Futures Index	NMCOLL1 Index	Target Volatilitv	Volatility Scale	Charge A	Charge B	Contract Size
14	Corn	Nomura Corn 1st to Expire Futures Index	NMCOC1 Index	Target Volatilitv	Volatility Scale	Charge A	Charge B	Contract Size
15	Soybean	Nomura Soybean 1st to Expire Futures Index	NMCOS1 Index	Target Volatilitv	Volatility Scale	Charge A	Charge B	Contract Size
16	Soy Meal	Nomura Soy Meal 1st to Expire Futures Index	NMCOSM1 Index	Target Volatilitv	Volatility Scale	Charge A	Charge B	Contract Size
17	Soybean Oil	Nomura Soybean Oil 1st to Expire Futures Index	NMCOBO1 Index	Target Volatilitv	Volatility Scale	Charge A	Charge B	Contract Size
18	Wheat	Nomura Wheat 1st to Expire Futures Index	NMCOW1 Index	Target Volatilitv	Volatility Scale	Charge A	Charge B	Contract Size
19	Kansas Wheat	Nomura Kansas Wheat 1st to Expire Futures Index	NMCOKW1 Index_	Target V <u>o</u> latilitv	Volatility Scale	Charge A	Charge B	Contract Size
20	Sugar	Nomura Sugar 1st to Expire Futures Index	NMCOSB1 Index	Target Volatilitv	Volatility Scale	Charge A	Charge B	Contract Size
21	Coffee	Nomura Coffee 1st to Expire Futures Index	NMCOKC1 Index	Target Volatilitv	Volatility Scale	Charge A	Charge B	Contract Size
22	Cocoa	Nomura Cocoa 1st to Expire Futures Index	NMCOCC1 Index	Target V <u>o</u> latility	Volatility Scale	Charge A	Charge B	Contract Size
23	Cotton	Nomura Cotton 1st to Expire Futures Index	NMCOCT1 Index	Target V <u>o</u> latilitv	Volatility Scale	Charge A	Charge B	Contract Size
24	Live Cattle	Nomura Live Cattle 1st to Expire Futures Index	NMCOLC1 Index	Target V <u>o</u> latility	Volatility Scale	Charge A	Charge B	Contract Size
25	Lean Hogs	Nomura Lean Hogs 1st to Expire Futures Index	NMCOLH1 Index	Target Volatilitv	Volatility Scale	Charge A	Charge B	Contract Size

Backtest Assumptions

Start Date

With respect to the "Nomura 1st to Expire Commodity Trend Index with Nomura Risk Weights" (z = 26), the exposure to each underlying commodity started on the same date as the respective commodity trend Indices' Index Start Date (as stated in the Index Specifications Table). During the historical period where not all of the underlying commodities were available, weight ($w^{z,j}$) for the underlying commodity that was not available was distributed proportionally to those available at the time such that the sum of weight across all commodities add up to.

$Index_{t,reset}^{z,j}$

With respect to each Index prior to the respective Index Start Date, Index is equal to Index Ind

Daily Signal

With respect to the calculation of Daily Signal, in the historical backtest:

- i) For periods where there are less than data points required for calculating Volatility, the calculation occurred and utilised a minimum of data points, and extended the width of the window as more data points became available.
- ii) For periods where calculation of ratio was not possible due to unavailability of historical data, the calculation of Daily Signal, which normally take an average of the ratios, excluded the ratio that was unavailable and calculated the average using ratios that were available at the time.

Gasoline

For the period before 3 January 2006:

For the calculation of Sub-Index Daily Return $_t^{j,k,i}$ prior to 3 January 2006 for the Gasoline Sub-Index (j = 4), Reformulated Gasoline future contract (Bloomberg ticker HU) was used instead of the current Gasoline RBOB future contract in order to start the historical backtest further back in time. The calculation was based on the same methodology as described under the Nomura Commodity Futures Index Rulebook.

For the period between 3 January 2006 and 9 January 2006:

As the Sub-Index for Gasoline Index Start Date is 9 January 2006, the Sub-Index Daily Return^{j,k,i} for Gasoline was calculated based on the methodology described under the Nomura Commodity Futures Index Rulebook for the period between 3 January 2006 to 9 January 2006.

Copper

For the calculation of the "Nomura Copper 1st to Expire Trend Index" (z = 9) prior to 7 December 1998, the trend following strategy was implemented and calculated based on COMEX Copper (Bloomberg ticker HG) from the Index Start Date. The calculation was done based on the same methodology as described under the Nomura Commodity Futures Index Rulebook (for long only returns) as well as this rulebook for the trend following strategy.

Charges applied to the historical backtest for COMEX Copper were: Fee.

The Target Volatility is, with Volatility Scape Cap of.

The transition from i) trend following strategy on COMEX Copper to ii) trend following strategy on LME Copper occurred over 5 Index Business Days (from and including 7 December 1998) with equal exposure on each day.

Disclaimer

This material has been prepared/distributed by the Sales/Trading departments of Nomura International plc ("NIplc"), which is authorised by the Prudential Regulation Authority (PRA) and regulated by the Financial Conduct Authority (FCA) and the Prudential Regulation Authority in the UK, and is a member of the London Stock Exchange; Nomura International (Hong Kong) Limited ("NIH"), which is regulated by the Hong Kong Securities and Futures Commission, and Nomura Securities International, Inc. Nomura Securities Co, Ltd. ("NSC"), which is regulated by the Japan Financial Services Agency ("JFSA"), Nomura Singapore Limited ("NSL"), which is regulated by the Monitory Authority of Singapore ("MAS"), P.T. Nomura Indonesia ("PTNI") which is regulated by Otoritas Jasa Keuangan ("OJK"), Nomura International (Hong Kong) Limited, Tajpei Branch, ("NIHK Tajpei Branch"), which is regulated by Securities and Futures Bureau of Financial Supervisory Commission ("SFB"), Taiwan Stock Exchange ("TSE") and Gretai Securities Malaysia (Sol Bhd ("NSM"), which is regulated by the Companies Commission of Malaysia, Nomura Financial Investment (Korea) Co., Ltd Korea ("NIFK"), which is regulated by the Korea Financial Investment (Korea) Co., Ltd Korea ("NIFK"), which is regulated by the Korea Financial Investment Association ("KOFIA") (Information on Nomura analysts registered with the Korea Financial Investment Association ("KOFIA") can be found on the KOFIA Intranet at http://dis.kofia.or.kr), Nomura Securities International, Inc. ("NSI"), which is a registered broker-dealer in the United States and a member of Securities Investor Protection Corporation ("SIPC") and Nomura Australia Ltd ("NAL"), which is authorised and regulated by the Australian Securities and Investment Commission ("ASIC").

This material is not investment research as defined by US rules and regulations, the applicable rules in Hong Kong, and the FCA. This material is made available to you by NIplc, NIHK, NSC, NSL, PTNA, NIHK Taipei Branch, NSM, NFAS, NIFK, NSI and NSL and/or its affiliates (collectively, "Nomura Group"), as the case may be. This is not investment research as defined by the FCA nor is it research under the applicable rules in Hong Kong. It does not constitute a personal recommendation, as defined by the FCA, or take into account the particular investment objectives, financial situations, or needs of individual investors. It is intended only for investors who are "eligible market counterparties" or "professional clients" as defined by the FCA, and may not, therefore, be redistributed to other classes of investors. This material does not fall within the definition of an analyst report as defined by the Japan Securities Dealer's Association. It is intended for professional and investors only.

This material is: (i) for your private information only, and we are not soliciting any action based upon it; (ii) not to be construed as an offer to sell or a solicitation of an offer to buy any security in any jurisdiction where such offer or solicitation would be illegal; and (iii) is based upon information that we consider reliable, and it should not be relied upon as such. While all reasonable care has been taken to ensure that the information contained herein is not untrue or misleading at the time of publication, no representation, warranty or undertaking, expressed or implied, is made and no responsibility or liability is accepted by the Nomura Group and/or its directors, officers and employees as to the accuracy, completeness, merchantability or fitness for a particular purpose of the information contained herein or any other information provided by any other person in connection with the information described herein or their distribution or for the results obtained from the use of this information.

Nomura Group and/or its directors, officers and employees do not accept any liability whatsoever for any loss or damage (including, without limitation, direct, indirect or consequential loss or loss of profits or loss of opportunity) suffered by you or any third party in connection with the use of this material or its content. It is being provided to you because you have requested a copy and it is not intended for investors who are unfamiliar with the relevant markets or who are unfamiliar with the investment. You should refrain from entering into any transaction unless you fully understand all the risks involved and you have independently determined that the investment is suitable for you. We are not your designated investment adviser. If you are in doubt as to any aspect of this material, you should consult a stockbroker or another licensed securities dealer, a bank manager, a solicitor, an accountant or other professional advisers. Any prices, yields and opinions expressed are current opinions as of the date appearing on this material only and are subject to change without notice. Derivative investments require investors to assess everal characteristics and risk factors that may not be present in other types of transactions. You should consider the specific return and risk profile of a particular derivative investment before effecting, or agreeing to effect, any transaction. In reaching a determination as to the appropriateness of any proposed transaction, clients should undertake a thorough independent review of the legal, regulatory, credit, tax, accounting and economic consequences of such action.

The information presented has been obtained from or based upon sources believed by the trader or sales person to be reliable, but none of Nomura Group or its employees, the trader or sales person represents or warrants its accuracy or completeness and is not responsible for losses or damages arising out of errors, omissions or changes in market factors. The Nomura Group may from time to time perform investment banking or other services (including acting as advisor, manager or lender) for, or solicit investment banking or other business from, companies mentioned herein. Further, the Nomura Group, and/or its officers, directors and employees, including persons, without limitation, involved in the preparation or issuance of this material may, from time to time, have long or short positions in, and buy or sell, the securities, or in options, futures or other derivatives based thereon. In addition, the Nomura Group may act as a market maker and principal, willing to buy and sell certain of the securities or in options, futures or other derivatives of companies mentioned herein. Further, the Nomura Group may buy and sell certain of there derivatives of companies mentioned herein, as agent for its clients.

Nomura manages conflicts identified through the following: their Chinese Wall, confidentiality and independence policies, maintenance of a Stop List and a Watch List, personal account dealing rules, policies and procedures for managing conflicts of interest arising from the allocation and pricing of securities and impartial investment research and disclosure to clients via client documentation. Disclosure information is available at http://www.nomura.com/research/. Neither Niplo nor NIHK hold an Australian financial services licence as both are exempt from the requirements to hold this licence in respect of the financial services either provides. NIPlc is authorised by the Prudential Regulation Authority and regulated by the Financial Conduct Authority and the Prudential Regulation Authority under UK laws, and is a member of the London Stock Exchange, NIHK is regulated by the Securities and Futures Commission under Hong Kong laws, both of which differ from Australian laws, and NSI is a member of SIPC.

No part of this material may be (i) copied, photocopied, or duplicated in any form, by any means, or (ii) redistributed without our prior express consent. Further information on any of the securities mentioned herein may be obtained upon request. If this publication has been distributed by electronic transmission, such as e-mail, then such transmission cannot be guaranteed to be secure or error-free as information could be intercepted, corrupted, lost, destroyed, arrive late or incomplete, or contain viruses. The sender therefore does not accept liability for any errors or omissions in the contents of this publication, which may arise as a result of electronic transmission. If verification is required, please request a hard-copy version.

Discontinuation of the Index: The Index Sponsor may in its absolute discretion decide to permanently cancel the Index and to discontinue its calculation and/or publication of the Index at any time, and shall not be liable for any direct or indirect consequence thereof.