

Field Definition SHOF Fund Data

National Research Data Center
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Content

Fund Master	3
Fund Performance	
Prices	9
Dividends	13
Splits	16
Re-invested Prices (RIPS)	18
Valuations	20
Supplement.....	23
Anomalies (Q&A)	24
Reference	28



Fund Master

Data Field	Definition	Sample value(s)
secid	This is the Morningstar id for a share class of an investment. All share classes of the same investment are linked together using the Fund Id. Some investments do not have separate share classes.	"FOGBR05BJT"
performanceid	It's the Morningstar identifier for a performance stream of a share class. It presents performances of a class in various currencies and exchanges (for example ETFs). All performances of the same class are linked together using the Fund Share Class Id (SecId). The one which is in the base currency (originally stated by Fund Company) of a share classe called primary. Some share classes may have only one performance stream and some may have multiple performance streams.	"0P12345678"
fundid	This is the Morningstar id for the investment, which is sometimes called the distinct portfolio level. Each shareclass will have the same Fund Id.	"FSGBR05DO5"
domicileid	The country where an investment is legally registered (but not necessarily where it is administered)	"GBR"
company	Morningstar id for a company.	"82017"
companyname	The name of the company that offers the mutual fund.	"Scottish Widows Unit Trust Managers Ltd"
fundname	The fund's official name, or an abbreviation thereof, as stated in the fund's prospectus	"Scottish Widows Dynamic Inc Port"
securityname	The fund share class official name, or an abbreviation thereof, as stated in the fund's prospectus	"Scottish Widows Dyn Inc Port B Acc"
legalstructure	The legal structure of the investment	"Open-Ended Investment Company"
shareclasslegalname	The legal name of the investment	"Scottish Widows Dynamic Inc Port B Acc"
UCITS	The UCITS status of the investment	"1" or "0"

Data Field	Definition	Sample value(s)
inceptiondate	The date on which an investment product began its operations.	"1990-06-28"
status	The current status of the investment	"ACTIVE" or "OBSOLETE"
obsoletedate	Date when the investment went obsolete	"1996-03-23"
isbasecurrency	If the investment is the primary currency, Useful when one share class offers more than one alternative currency performance streams	"1" or "0"
isoldestclass	Flags if the share class is the oldest share class	"1" or "0"
currencyid	The primary currency for the security.	"GBP"
incomedistribution	Flags if the investment distributes dividends	"1" or "0"
accumulateddistribution	Flags if the investment accumulates dividends	"1" or "0"
insurancefund	Flags if the investment is offered as an insurance product	"1" or "0"
hedgefund	Flags if the investment is classified as a hedge investment	"1" or "0"
fundoffunds	Flags if the investment invests in funds	"1" or "0"
exchangetradedshare	Flags if the investment is an ETF	"1" or "0"
ISIN	International securities identification number, a code that uniquely identifies a specific securities issue.	"GB0031903403"
currencyspecificISIN	ISIN specific for the currency issue of the investment	"GB0031903403"
ticker	NASDAQ Ticker	"MORN"
olsobors	Norwegian stock exchange identifier	"323"
pricingfrequency	Pricing frequency of the fund. Majority of the funds calculate NAVs daily, some however calculate weekly, bi-monthly or monthly.	"A\$" Annually "D\$" Daily "M\$" Monthly "N\$" None "Q\$" Quarterly "W\$" Weekly "a\$" Semi-Annually "m\$" Semi-Monthly
availableforpensionplan	Flags if the investment is classified as a pension investment.	"1" or "0"

Data Field	Definition	Sample value(s)
exchangeid	The identifier used to represent an exchange.	"EX\$\$\$\$XETR"
institutionalonly	Flag that indicates if a fund designed for institutional investors.	"1" or "0"
pencetraded	Flag that indicates if a fund traded in pence	"1" or "0"
sociallyconscious	Flags if the investment is classified as a Socially Conscious.	"1" or "0"
legalstructureid	The legal structure id of the investment	" 08 "
moneymarketfund	Flags if the investment is a money market fund	"1" or "0"
availableforretirementplan	Flags if the investment is available for retirement plan.	"1" or "0"
availableforinsuranceproduct	Flags if the investment is available for insurance product.	"1" or "0"
broadassetclass	A term used to group funds with similar categories and investing styles; can be used for a more broad-based analysis. The broad asset class is determined by the investment's Morningstar Category assignment.	"Equity"
indexingapproach	Indicator determines the type of indexing approach an index tracking investment utilises	"1" Physical Full "2" Physical - Sample "3" Derivatives - Based "4" Synthetic "5" Not Applicable
synthetictype	Synthetic Type refers to the specific legal structures of the OTC derivatives used	"1" Funded - Swap "2" Unfunded - Swap "3" Access Products "4" Forward Contract "5" Other
trackrecordextension	An indication of whether or not the share class has had its performance extended prior to its inception date	"1" or "0"
trackrecordinheritedfrom	The Seclid of the share class the track record extension has come from	"FOGBR05BJT"

Data Field	Definition	Sample value(s)
trackrecordextensiontype	An indication of the type of track record extension that has been undertaken, the field will show the circumstances behind the track record extension	"0" "None"
changedate	This field indicates the date the change happened.	"05/05/2021"
obsoletetype	The obsolete type of the fund	"Liquidated"
fundtype	The investment type of the fund	"Open-end Fund (EU) " "Closed-end Fund" "Exchange-traded Fund(ETF) " "Money Market Fund" "Hedge Fund"
AUM	The total value of assets managed by the fund (.in Swedish Krona)	"1.23456"
AUM_lastupdate	This field indicates the last time the AUM was measured.	"20/12/2023"
1_month	1-month historical trailing return using RIPS timeseries $1_month = (current\ value - last\ month's\ value) / last\ month's\ value$	"1.23456"
3_month	3-month historical trailing return using RIPS timeseries $3_month = (current\ value - the\ value\ 3\ months\ ago) / the\ value\ 3\ months\ ago$	"1.23456"
6_month	6-month historical trailing return using RIPS timeseries $6_month = (current\ value - the\ value\ 6\ months\ ago) / the\ value\ 6\ months\ ago$	"1.23456"
1_year	1-year historical trailing return using RIPS timeseries $1_year = (current\ value - last\ year's\ value) / last\ year's\ value$	"1.23456"
3_year	3-year historical trailing return using RIPS timeseries $3_year = (1 + (current\ value - the\ value\ 3\ years\ ago) / the\ value\ 3\ years\ ago) ^ (1/3) - 1$	"1.23456"

Data Field	Definition	Sample value(s)
5_year	5-year historical trailing return using RIPs timeseries $5_year = (1 + (\text{current value} - \text{the value 5 years ago}) / \text{the value 5 years ago})^{1/5} - 1$	"1.23456"
returntype	A type code value which indicates the return type. Examples include total return (1), market return (6), and tax adjusted return (18)	"1", "6", or "18"
lastupdate	This field indicates the last time fund master data was produced and historical trailing return was calculated.	"16/01/2024"
availableforsale	The country code where the investment is registered for sale	"GBR"
prospectusdate	The date for which the prospectus applies	"2010-06-28"
position	A flag indicating the position of the fee within a list of similar fees. I.e. a share class may specify more than 1 fee for the same fee type, but with different Low Breakpoint values	"1"
feetypeid	A flag describing the fee and the values indicated	"ActualManagementFee", "DistributionFee", etc
feecurrencyid	The Currency Id applicable to the fee if FeeUnit is Monetary as well as to the low and high breakpoint if these datapoints are populated	"GBP"
feeunit	The Unit in which the particular fee will be denoted in	"Monetary", "Percentage"
fee	The Fee itself expressed as a value denoted by FeeUnit	"1.50000"
breakpointunit	The Unit in which the particular breakpoint is denoted	"Monetary", "Percentage", "etc"
lowbreakpoint	The starting breakpoint value denoted by Breakpoint unit for which the Fee denoted by FeeUnit applies	"1000"
highbreakpoint	The ending breakpoint value denoted by Breakpoint unit for which the Fee denoted by FeeUnit applies	"100000"

Fund Performance - Prices

Data Field	Definition	Sample value(s)
secid	This is the Morningstar id for a share class of an investment. All share classes of the same investment are linked together using the Fund Id. Some investments do not have separate share classes.	"FOGBR05BJT"
performanceid	A unique identifier per share class provided by the fund company. The identifier is used by Morningstar to map fund class data to an entry in the Morningstar price database for internal processing reasons.	"OP12345678"
date	The date for which the prices apply	"2006-03-31"
currencyiso	Class currency in three characters according to ISO standard	"GBP"
pretaxnav	This is the closing price as of the date listed (Applicable for open-end funds) (NAV-Net Asset Value)	"1.23456"
pretaxbid	This is the bid price per share as of the date listed. (Applicable for exchange traded funds & closed-end funds)	"1.23456"
pretaxoffer	This is the offer price per share as of the date listed. (Applicable for exchange traded funds & closed-end funds)	"1.23456"
pretaxmid	This is the mid price per share as of the date listed. (Applicable for exchange traded funds & closed-end funds)	"1.23456"
posttaxnav	This is the taxed closing price as of the date listed. (Applicable for open-end funds) (Mostly for UK and Italian share classes)	"1.23456"
posttaxbid	This is the taxed bid price per share as of the date listed. (Applicable for exchange traded funds & closed-end funds)	"1.23456"
posttaxoffer	This is the taxed offer price per share as of the date listed. (Applicable for exchange traded funds & closed-end funds)	"1.23456"
lastupdate	This field indicates the last time the data for the fund was produced.	"2006-03-31 10:00"
closeprice	This is the close/market price per share as of the date listed. (Applicable for exchange traded funds & closed-end funds)	"1.23456"

Data Field	Definition	Sample value(s)
guaranteednav	This is the guaranteed NAV per share as of the date listed.	"1.23456"
preliminarynav	Preliminary NAV--for hedge funds, an unaudited approximation of the total value of all of a fund's assets minus its liabilities divided by the number of outstanding shares for that fund. Hedge funds will typically report a preliminary NAV/return to its investors before a final NAV/return is released by the fund's administrator, auditor, etc.	"1.23456"
averagebidaskspread	The averages bid / ask spread which is an average of all the spreads over a trading day.	"0.0254"
numberofobservations	number of observations that the average bid ask spread is based	15814
creationprice	This is the highest possible price at which an investor can buy units from the manager under FSA regulations. The initial charge is not included. The creation price represents the cost of buying the fund's assets.	"1.23456"
cancellationprice	The lowest possible bid price of units in a unit trust under FSA regulations, which is usually lower than the quoted bid price. The cancellation price may be applied in the event of heavy selling. Also applies to the repurchase of a company's shares by directors.	"1.23456"
pricetri	The latest growth index value measuring the total return of the market price	"1.23456"
navcumpar	Net asset value per share, including income, with debt at par value (Applicable for closed-end funds)	"1.23456"
discountcumpar	The percentage at which the Cum Par Net Asset Value is higher than the market price. Negative values indicate the market price is higher than the Cum Par Net Asset Value (Applicable for closed-end funds) $discountcumpar = closeprice/navcumpar - 1$	"1.23456"
navcumparflag	A flag indicating whether <i>navcumpar</i> is an actual (1) or estimated (2) (Applicable for closed-end funds)	"1" or "2"
navexfair	Net asset value per share, excluding income, with debt at par fair value (Applicable for closed-end funds)	"1.23456"

Data Field	Definition	Sample value(s)
discountexfair	The percentage at which the Ex Fair Net Asset Value is higher than the market price. Negative values indicate the market price is higher than the Cum Par Net Asset Value (Applicable for closed-end funds) $discountexfair = closeprice/navexfair - 1$	"1.23456"
navexfairflag	A flag indicating whether <i>navexfair</i> is an actual (1) or estimated (2) (Applicable for closed-end funds)	"1" or "2"
cumfairnav	Net asset value per share, including income, with debt at fair value (Applicable for closed-end funds)	"1.23456"
cumfairdiscount	Discount calculated based on CumFairNAV (Applicable for closed-end funds) $cumfairdiscount = closeprice/cumfairnav - 1$	"1.23456"
cumfairnavtype	A flag indicating whether <i>cumfairnav</i> is an actual (1) or estimated (2) (Applicable for closed-end funds)	"1" or "2"
navcumfairtr	The latest growth index value measuring the total return of the Cum Fair Net Asset Value per share	"1.23456"
exparnav	Net asset value per share, excluding income, with debt at par value (Applicable for closed-end funds)	"1.23456"
discount	Discount calculated based on exParNAV (Applicable for closed-end funds) $discount = closeprice/exparnav - 1$	"1.23456"
exparnavtype	A flag indicating whether <i>exparnav</i> is an actual (1) or estimated (2) (Applicable for closed-end funds)	"1" or "2"
navexpartri	The latest growth index value measuring total return of the Ex Par Net Asset Value per share	"1.23456"
unsplit	When a split occurs, Morningstar will calculate the split adjusted historical price by dividing all the prices before split with split ratio. Unsplit price is the raw price without any split adjusted.	"1.23456"

Fund Performance - Dividends

Data Field	Definition	Sample value(s)
secid	This is the Morningstar id for a share class of an investment. All share classes of the same investment are linked together using the Fund Id. Some investments do not have separate share classes.	"FOGBR05BJT"
performanceid	A unique identifier per share class provided by the fund company. The identifier is used by Morningstar to map fund class data to an entry in the Morningstar price database for internal processing reasons.	"OP12345678"
excludingdate	This is the dividend and/or capital gain's exclusion date, also known as Ex-Date.	"2006-03-31"
currencyiso	Class currency in three characters according to ISO standard.	"GBP"
pretaxdividend	The dividend as of the date	"1.23456"
posttaxdividend	The taxed dividend of the date	"1.23456"
reinvestdate	This is the reinvestment date for the dividend and/or capital gain.	"2006-03-31"
nonqualifieddiv	This is the portion of the total dividend that is taxed as ordinary income to the shareholder. This is the default column to place your dividend value if you are unsure or unable to distinguish between qualified, non-qualified, interest income, and tax-free.	"1.23456"
qualifieddiv	This is the portion of the total dividend that is taxed as a qualified dividend to the shareholder.	"1.23456"
taxfreedividend	This is the portion of the total dividend attributable to bonds that is not taxed to the shareholder.	"1.23456"
interestincome	This is the portion of the total dividend attributable to bonds that is taxed as ordinary income to the shareholder.	"1.23456"
paydate	This is the pay date of the dividend	"2006-03-31"
lastupdate	This field indicates the last time the data for the fund was produced	"2006-03-31 10:00"
effectivereinvestprice	"Reinvestment Price" means the unit price at which Scheme Holders, that elected to automatically reinvest their Distributions, purchased additional units in the Product.	"1.23456"

Data Field	Definition	Sample value(s)
exdistributionprice	"Ex-Distribution Price" means the last Cum-Distribution exit-price (Transactional Exit Price) calculated at the end of a Distribution Period less the Distribution payment associated with that Distribution Period (i.e., the Ex-Price must not reflect market movements after the end of the Distribution Period).	"1.23456"
declaredate	Declaration date is the day the Board of Directors announces its intention to pay a dividend. On this day, a liability is created, and the company records that liability on its books; it now owes the money to the stockholders. On the declaration date, the Board will also announce a date of record and a payment date.	"2006-03-31"
recorddate	A dividend record date is the date on which the company finalizes the list of investors who qualify as "shareholders of record." Investors listed as shareholders of record will receive the firm's dividend payment.	"2006-03-31"
ioyyield	(Applicable for closed-end funds)	"1.23456"
tdyield	(Applicable for closed-end funds)	"1.23456"
twsitcayield	<i>twsitcayield</i> is similar to the existing data point Current Yield at NAV%. The formula used to calculate <i>twsitcayield</i> is as follows: $twsitcayield = [(Latest\ Dividend\ Payout * Dividend\ Frequency) / (NAV\ of\ Previous\ Business\ Day\ of\ Ex-Date) * 100\%$ (Applicable for closed-end funds)	"1.23456"

Fund Performance - Splits

Data Field	Definition	Sample value(s)
secid	This is the Morningstar id for a share class of an investment. All share classes of the same investment are linked together using the Fund Id. Some investments do not have separate share classes.	"FOGBR05BJT"
performanceid	A unique identifier per share class provided by the fund company. The identifier is used by Morningstar to map fund class data to an entry in the Morningstar price database for internal processing reasons.	"0P12345678"
excludingdate	This is the date of split.	"2006-03-31"
splitfrom	The first number of the split ratio	"1"
splitto	The second number of the split ratio	"4"
lastupdate	This field indicates the last time the data for the fund was produced.	"2006-03-31 10:00"



Fund Performance - RIPS

Data Field	Definition	Sample value(s)
secid	Morningstar Share Class Id	"FXGBR12345"
performanceid	Morningstar Performance Stream Id	"P000000001"
date	Date as of the data	"2007-08-31"
unit_BAS	Reinvested price in base currency	"19.322"
unit_USD	Reinvested price in USD	"19.322"
unit_EUR	Reinvested price in EUR	"19.322"
unit_GBP	Reinvested price in GBP	"19.322"
unit_CHF	Reinvested price in CHF	"19.322"
unit_DKK	Reinvested price in DKK	"19.322"
unit_NOK	Reinvested price in NOK	"19.322"
unit_SEK	Reinvested price in SEK	"19.322"
unit_JPY	Reinvested price in JPY	"19.322"
lastupdate	Time and date when the price was updated/produced	"2007-08-30 04:00"
unit_SGD	Reinvested price in SGD	"19.322"
returntype	A type code value which indicates the return type. Examples include total return (1), market return (6), and tax adjusted return (18)	"1", "6", or "18"
unit_TWD	Reinvested price in TWD	"19.322"
unit_HKD	Reinvested price in HKD	"19.322"
unit_MYR	Reinvested price in MYR	"19.322"
unit_CNY	Reinvested price in CNY	"19.322"
unit_ILS	Reinvested price in ILS	"19.322"
unit_INR	Reinvested price in INR	"19.322"
unit_CAD	Reinvested price in CAD	"19.322"
unit_KWD	Reinvested price in KWD	"19.322"
unit_PLN	Reinvested price in PLN	"19.322"
unit_AUD	Reinvested price in AUD	"19.322"
unit_THB	Reinvested price in THB	"19.322"
unit_KRW	Reinvested price in KRW	"19.322"
unit_NZD	Reinvested price in NZD	"19.322"

Fund Performance - Valuations

Data Field	Definition	Sample value(s)
secid	This is the Morningstar id for a share class of an investment. All share classes of the same investment are linked together using the Fund Id. Some investments do not have separate share classes.	"FOGBR05BJT"
performanceid	A unique identifier per share class provided by the fund company. The identifier is used by Morningstar to map fund class data to an entry in the Morningstar price database for internal processing reasons.	"0P12345678"
date	The date for which the respective flow information applies	"2010-10-21"
classcurrencyiso	Class currency in three characters according to ISO standard. This currency Id applies to the data stored within the <i>tnaclass</i> & <i>netflowclass</i>	"GBP"
tnaclass	Total Net Assets on class level in the Currency Indicated by <i>classcurrencyiso</i> for the Date indicated by Date	"1.23456"
netflowclass	Estimated Net Flow of assets flowing in/out of the class within the day indicated by Date for the currency denoted by <i>classcurrencyiso</i> . The cash flow estimate for a day (C) is simply the difference in beginning and ending total net assets (TNA) that cannot be explained by the daily total return (r). $C_t = TNA_t - TNA_{t-1}(1 + r_t)$ To calculate daily returns, RIPs data is highly recommended to be used instead of prices, as RIPs incorporates dividends.	"1.23456"
fundcurrencyiso	Fund currency in three characters according to ISO standard.	"GBP"
tnafund	Total Net Assets on fund level in the Currency Indicated by <i>fundcurrencyiso</i> for the Date indicated by Date	"1.23456"
netflowfund	Estimated Net Flow of assets flowing in/out of the fund within the day indicated by Date for the currency denoted by <i>classcurrencyiso</i>	"1.23456"

Data Field	Definition	Sample value(s)
shares	Total number of outstanding shares contained within the class	"1.23456"
shareholders	Total number of shareholders within the class	"1.23456"
lastupdate	This field indicates the last time the data for the fund was produced	"2006-03-31 10:00"

Supplement

1. Major fund types within the dataset are as follows.

- Money Market Funds
- Open-end Funds (EU)
- Closed-end Funds
- Exchange-traded Funds (ETFs)
- Hedge Funds

Note: There are only 28 closed-end funds available for sale in the Nordics, so those closed-end fund specific data points could be ignored.

2. *Prices, Dividends, Splits, and RIPS* are available at performance stream level.

3. Daily TNAs and net flows are available at share class level and fund level. Total number of shares outstanding and total number of shareholders are available at share class level.

Anomalies (Q&A)

Fund Master

- Missing data
The obsolete date of the sample fund share class is missing.

performanceid	secid	fundid	inceptiondate	status	obsoletedate
OP0000VNZ6	F00000NIPE	FS000093S9	10/06/2010	Active	
OP0000VNZ6	F00000NIPE	FS000093S9	10/06/2010	Obsolete	

Answer: The data is collected if it is available. If it is missing there, it is what it is unfortunately.

- fundid inconsistency
fundid could change when Morningstar makes a correction, but it happens rarely.

secid	fundid	fundname	inceptiondate
F00000N0XI	FS00008SK1	Danske Invest Globale High Yield Obl	06/09/2011
F00000P9A0	FS00008SK1	Danske Invest Globale High Yield Obl	12/12/2012
F00000Q07G	FS00008SK1	Danske Invest Globale High Yield Obl	05/11/2013
F00000UP4X	FS00008SK1	Danske Invest Globale High Yield Obl	22/05/2014
F00000Z9T6	FS00008SK1	Danske Invest Globale High Yield Obl	06/06/2017
FOGBR04N8C	FSGBR05CWW	Danske Invest Globale High Yield Obl	08/02/2002
F00000Z9T7	FSGBR05CWW	Danske Invest Globale High Yield Obl	06/06/2017
F00001FA0F	FSGBR05CWW	Danske Invest Globale High Yield Obl	29/03/2023

Answer: A fund company launches a new share class, Morningstar adds it to their database and creates a new fund, but afterwards, it's been realized that the new share class belongs to an existing fund.

Fund Performance

- Invalid data
pretaxnav is only applicable for open-end funds.
The investment type of the sample fund share class is *Exchange-traded Fund (ETF)*.

performanceid	date	pretaxnav
OP0001O8SS	31/05/2021	18.0391
OP0001O8SS	01/06/2021	18.4493
OP0001O8SS	02/06/2021	21.1293

pretaxbid is only applicable for exchange-traded funds (ETFs) and closed-end funds.
The investment type of the sample fund share class is *Open-end Fund (EU)*.

performanceid	date	pretaxbid
OP00009UF6	18/09/2003	164.85
OP00009UF6	19/09/2003	164.42
OP00009UF6	22/09/2003	164.72

pretaxoffer is only applicable for exchange-traded fund (ETFs) and closed-end funds.
The investment type of the sample fund share class is *Open-end Fund (EU)*.

performanceid	date	pretaxoffer
OP0001LV1A	24/02/2021	13.52
OP0001LV1A	25/02/2021	13.37
OP0001LV1A	26/02/2021	13.43

discount is only applicable for closed-end funds.
The investment type of the sample fund share class is *Exchange-traded Fund (ETF)*.

performanceid	date	discount
OP00016T7N	02/08/2023	0.72808
OP00016T7N	03/08/2023	2.53091
OP00016T7N	04/08/2023	1.37829

navexpartri is only applicable for closed-end funds.
The investment type of the sample fund share class is *Open-end Fund (EU)*.

performanceid	date	navexpartri
OP0001LPRE	24/02/2021	10
OP0001LPRE	25/02/2021	10.0062
OP0001LPRE	26/02/2021	9.8746

twsitcayield is only applicable for closed-end funds.
The investment type of the sample fund share class is *Open-end Fund (EU)*.

performanceid	excludingdate	twsitcayield
OP0001IK4E	02/01/2020	6.701000214
OP0001IK4E	04/01/2021	7.03910017
OP0001IK4E	04/01/2022	7.177050114

Answer: Please check field definition before using the data.

- Timeseries before the inception date
Please find the sample fund share class below.

secid	performanceid	fundid	inceptiondate	status	obsoletedate
F00000OETN	OP0000WDVY	FSGBR05DBL	22/06/2012	Active	

performanceid	date	pretaxnav	secid	unsplit
OP0000WDVY	28/04/2006	5.9316	F00000OETN	15.09
OP0000WDVY	01/05/2006	5.9316	F00000OETN	15.09
OP0000WDVY	02/05/2006	5.9434	F00000OETN	15.12
OP0000WDVY	03/05/2006	5.95912	F00000OETN	15.16
OP0000WDVY	04/05/2006	5.96698	F00000OETN	15.18
OP0000WDVY	05/05/2006	5.97484	F00000OETN	15.2

Answer: It is rather unusual to see that inception date is so much later than the earliest price date (=performance start date). The fund company shows the same thing on their website: <https://www.franklintempleton.lu/our-funds/price-and-performance/products/256/BC/templeton-global-bond-fund/LU0792613274#cumulative>. These are called hybrid classes. Prices before the inception date are not used in calculations of any aggregated figures provided by us. You may consider doing the same in your studies and analysis.

- Timeseries after the obsolete date
Please find the sample fund share class below.

secid	performanceid	fundid	inceptiondate	status	obsoletedate
F000014V3K	OP0001KESZ	FS0000FVNY	15/01/2020	Active	
F000014V3K	OP0001KESZ	FS0000FVNY	15/01/2020	Obsolete	30/03/2021

performanceid	date	closeprice	currencyiso	navcumparflag
OP0001KESZ	25/05/2021	22.495	CHF	0
OP0001KESZ	26/05/2021	22.495	CHF	0
OP0001KESZ	27/05/2021	22.495	CHF	0
OP0001KESZ	28/05/2021	22.495	CHF	0
OP0001KESZ	31/05/2021	22.495	CHF	0
OP0001KESZ	01/06/2021	22.495	CHF	0

Answer: To the sample fund share class, the delisted status was received on 02/06/2021. Therefore, you can see market prices after the obsolete date. As the obsolete date is 30/03/2021 not 02/06/2021, please exclude the price history after the obsolete date in your studies and analysis.

- Timeseries interruption

Please find the sample fund share class below.

secid	performanceid	fundid	inceptiondate	status	obsoletedate
FOGBR04IQS	OP00000IKH	FSGBR05ACG	31/12/1999	Active	

performanceid	date	returntype	secid	unit_aud	unit_bas	unit_cad
OP00000IKH	26/10/2023	1	FOGBR04IQS	17.98412	10.78149	15.70506
OP00000IKH	27/10/2023	1	FOGBR04IQS	17.98332	10.79527	15.82283
OP00000IKH	28/10/2023	1	FOGBR04IQS	17.98332	10.79527	15.82283
OP00000IKH	29/10/2023	1	FOGBR04IQS	17.98332	10.79527	15.82283
OP00000IKH	30/10/2023	1	FOGBR04IQS	17.94396	10.7677	15.81262
OP00000IKH	31/10/2023	1	FOGBR04IQS	17.95293	10.75391	15.78014

Answer: The sample fund share class is still active, but timeseries interruption happened after October 31, 2023.

A possible reason is that the sample fund share class is only available for sale in Hong Kong, Macau, and Taiwan at the moment. Timeseries after 31/10/2023 is no more relevant as the focus of this database is for all funds available for sale (AFS) in the Nordics.

performanceid	secid	fundid	lastupdate	availableforsale
OP00000IKH	FOGBR04IQS	FSGBR05ACG	16/01/2024	HKG;MAC;TWN

The sample fund share class might be available for sale (AFS) in one of the Nordic countries up to 31/10/2023. However, we do not maintain a history of AFS countries, so the assumption cannot be verified unfortunately.

- Monthly TNAs instead of daily TNAs

Please find the sample fund share class below.

performanceid	date	tnaclass	tnafund
OP00000T7M	30/09/2023	14274900000	14274900000
OP00000T7M	31/10/2023	13478000000	13445500000
OP00000T7M	30/11/2023	16065100000	16065100000
OP00000T7M	31/12/2023	18240600000	18240600000
OP00000T7M	31/01/2024	17553400000	17553400000

Answer: To most companies, daily TNAs and net flows are available at share class level (i.e., *tnaclass*) and fund level (i.e., *tnafund*) in fund performance data - *Valuations*. However, a few fund companies only report monthly TNAs. Therefore, those funds have a month-end time series instead.

Reference

Morningstar On Demand, (2021), FileSpecificationDailyLicenses.