

Оглавление

Описание данных Infometeos.....	2
Краткосрочный прогноз.....	2
Пожары.....	4
Климатические данные.....	5
Гидропосты	7
Вечная мерзлота.....	8
Долгосрочный прогноз погоды.....	9
Гидротермический коэффициент увлажнения Селянинова (ГТК).....	10
Описание параметров.....	11
Пожары.....	11
Краткосрочный прогноз.....	12
Климатические данные.....	31
Прогнозы состояния атмосферы.....	39
Долгосрочные прогнозы.....	51

Описание данных Infometeos

Краткосрочный прогноз

Предоставляет данные краткосрочного прогноза с максимальной заблаговременностью 120 часов.

Технические характеристики

Покрытие	Земной шар
Максимальная заблаговременность	120 часов
Шаг по сетке координат	0.25 градуса

Параметры

- Средняя скорость ветра
- Порывы
- Накопленный ветер
- Интенсивность осадков
- Накопленные осадки
- Гроза
- Накопленная гроза
- Тип осадков
- Высота снежного покрова
- Температура воздуха
- Минимальная температура воздуха
- Максимальная температура воздуха
- Относительная влажность воздуха
- Температура точки росы
- Общая облачность
- Дальность видимости
- Туман
- Температура поверхности почвы
- Температура почвы на глубине 5-10 см
- Температура почвы на глубине 15-20 см
- Запас продуктивной влаги в почве на глубине 0-20 см
- Давление на уровне моря
- Твердые частицы $d < 2.5 \mu\text{m}$ (PM2.5)
- Диоксид серы (SO₂) в атмосфере
- Диоксид азота (NO₂) у поверхности
- Монооксид углерода (CO) в атмосфере
- Озон (O₃) в атмосфере (Copernicus)
- Пыль

События

Воздух

- Сильный мороз
- Очень сильный мороз
- Сильная жара
- Очень сильная жара

Ветер

- Сильный ветер
- Очень сильный ветер
- Ураган

Дождь

- Слабый дождь
- Умеренный дождь
- Сильный ливень
- Очень сильный ливень
- Ледяной дождь:
- Ледяной дождь
- Сильный ледяной дождь
- Очень сильный ледяной дождь

Метель

- Метель
- Сильная метель

Снег:

- Слабый снег
- Умеренный снег
- Сильный снег
- Очень сильный снег

Промерзание почвы

Переувлажнение почвы

Засуха

Засуха почвенная

Пожары

Источник данных предоставляет данные по пожарам (фактические данные).

Событие «пожар» регистрируется на основе автоматического детектирования тепловых аномалий по «инфракрасным» каналам космической съемки искусственных спутников. Дополнительные датчики позволяют выявлять тепловые аномалии под облачностью.

Дискретность сканирования всей поверхности земли 2-4 раза в сутки. Отмеченные «термоточки» автоматически заносятся в базу данных после фильтрации алгоритмами (ложные температурные аномалии).

Входные данные

- Широта (градусы)
- Долгота (градусы)
- Дата и время начала диапазона (необязательно)
- Дата и время окончания диапазона (необязательно)
- Минимальная достоверность событий для поиска (необязательно)

Выходные данные

- Дата и время обнаружения события пожара
- Цветовая температура пожара (канал 21/22) (К)
- Цветовая температура пожара (канал 31) (К)
- Реальные размеры сканируемой точки (вероятно, км; чему именно соответствуют scan и track, мне не удалось понять, наверное, что-то одно - ширина, другое - высота)
- Достоверность события (%)
- Спутник, зафиксировавший событие (Aqua/Terra)
- Мощность излучения пожара (МВт)
- Флаг дня или ночи на момент фиксации события (день/ночь)
- Тип пожара (только для старых архивных данных) (лесной пожар/активный вулкан/пожар на море (на судне и пр.)/другое)

Технические характеристики

Глубина архива: с 2000 года

Территория покрытия: весь земной шар

Климатические данные

Предоставляет архив климатических данных с 1979 года с дискретностью по времени 1 час.

Технические характеристики

Покрытие	РФ (есть возможность сделать покрытие всего земной шара)
Начало архива	1979 год
Шаг по сетке координат	0.25 градуса

Параметры

- Давление на уровне моря
- Количество осадков
- Температура почвы на глубине 2 метра
- Температура поверхности почвы
- Влажность почвы
- Направление ветра
- Скорость ветра
- Относительная влажность
- Точка росы
- Температура воздуха
- Высота снежного покрова
- Тип осадков

События

Воздух

- Сильный мороз
- Очень сильный мороз
- Сильная жара
- Очень сильная жара

Ветер

- Сильный ветер
- Очень сильный ветер
- Ураган

Дождь

- Слабый дождь
- Умеренный дождь
- Сильный ливень
- Очень сильный ливень

- Ледяной дождь:
- Ледяной дождь
- Сильный ледяной дождь
- Очень сильный ледяной дождь

Метель

- Метель
- Сильная метель

Снег:

- Слабый снег
- Умеренный снег
- Сильный снег
- Очень сильный снег

Промерзание почвы

Переувлажнение почвы

Засуха

Засуха почвенная

Гидропосты

Предоставляет архив данных гидропостов (уровень воды).

Технические характеристики

Количество постов	3000+
Покрытие	РФ+
Дата начала архива данных	01 января 2001 г

Вечная мерзлота

Предоставляет архив данных станций по вечной мерзлоте.

Технические характеристики

Количество постов	72
Дата начала архива данных	1990 год

Долгосрочный прогноз погоды

Предоставляет долгосрочные прогноза до 6 месяцев вперед.

Технические характеристики

Покрытие	Земной шар
Максимальная заблаговременность	6 месяцев
Шаг по сетке координат	0.25 градуса

Параметры

- температура воздуха 2 метра над уровнем моря
- температура поверхности
- температура точки росы
- температура почвы 5см
- температура почвы 10см
- температура почвы 100 см
- температура почвы 40 см
- температура почвы 15м
- температура почвы 20см
- температура почвы 200см
- количество выпавших осадков
- тип осадков
- относительная влажность воздуха
- продуктивная влажность 20см
- продуктивная влажность 100 см
- состояние влажности на глубине 20см
- состояние влажности на глубине 100см
- количество талой воды из снега
- высота снежного покрова
- солнечное излучение
- уровень солнечной радиации
- направление ветра
- скорость ветра
- все облака
- высокие облака
- низкие облака
- средние облака

Гидротермический коэффициент увлажнения Селянинова (ГТК)

Гидротермический коэффициент увлажнения Селянинова (ГТК) — характеристика уровня влагообеспеченности территории.

Широко используется в агрономии для общей оценки климата и выделения зон различного уровня влагообеспеченности с целью определения целесообразности выращивания тех или иных сельскохозяйственных культур.

Описание параметров

Раздел описывает полный список параметров, которые система может предоставить.

Пожары

Источник данных предоставляет данные по пожарам (фактические данные).

Событие «пожар» регистрируется на основе автоматического детектирования тепловых аномалий по «инфракрасным» каналам космической съемки искусственных спутников. Дополнительные датчики позволяют выявлять тепловые аномалии под облачностью.

Дискретность сканирования всей поверхности земли 2-4 раза в сутки. Отмеченные «термоточки» автоматически заносятся в базу данных после фильтрации алгоритмами (ложные температурные аномалии).

Параметры

- Дата и время обнаружения события пожара
- Цветовая температура пожара (канал 21/22) (К)
- Цветовая температура пожара (канал 31) (К)
- Реальные размеры сканируемой точки (вероятно, км; чему именно соответствуют scan и track, мне не удалось понять, наверное, что-то одно - ширина, другое - высота)
- Достоверность события (%)
- Спутник, зафиксировавший событие (Aqua/Terra)
- Мощность излучения пожара (МВт)
- Флаг дня или ночи на момент фиксации события (день/ночь)
- Тип пожара (только для старых архивных данных) (лесной пожар/активный вулкан/пожар на море (на судне и пр.)/другое)

Технические характеристики

Глубина архива: с 2000 года

Территория покрытия: весь земной шар

Краткосрочный прогноз

Предоставляет данные краткосрочного прогноза погоды с дискретностью по времени один час.

Характеристики модели

Покрытие	Весь земной шар
Шаг данных по географической системе координат	0.25 градуса
Дискретность по времени	Выдает прогноз каждый час в течение первых 120 часов, а затем каждые 3 часа в течение дней 5–16.
Максимальная заблаговременность	прогнозы на срок до 16 дней

Описание параметров модели

Level/Layer	Parameter	Description
mean sea level	PRMSL	Pressure Reduced to MSL [Pa]
1 hybrid level	CLWMR	Cloud Mixing Ratio [kg/kg]
1 hybrid level	ICMR	Ice Water Mixing Ratio [kg/kg]
1 hybrid level	RWMR	Rain Mixing Ratio [kg/kg]
1 hybrid level	SNMR	Snow Mixing Ratio [kg/kg]
1 hybrid level	GRLE	Graupel [kg/kg]
1 hybrid level	REFD	Reflectivity [dB]
2 hybrid level	REFD	Reflectivity [dB]
entire atmosphere	REFC	Composite reflectivity [dB]
surface	VIS	Visibility [m]
planetary boundary layer	UGRD	U-Component of Wind [m/s]
planetary boundary layer	VGRD	V-Component of Wind [m/s]
planetary boundary layer	VRATE	Ventilation Rate [m ² /s]
surface	GUST	Wind Speed (Gust) [m/s]
0.01 mb	HGT	Geopotential Height [gpm]
0.01 mb	TMP	Temperature [K]
0.01 mb	RH	Relative Humidity [%]
0.01 mb	SPFH	Specific Humidity [kg/kg]
0.01 mb	VVEL	Vertical Velocity (Pressure) [Pa/s]
0.01 mb	DZDT	Vertical Velocity (Geometric) [m/s]
0.01 mb	UGRD	U-Component of Wind [m/s]
0.01 mb	VGRD	V-Component of Wind [m/s]
0.01 mb	ABSV	Absolute Vorticity [1/s]
0.01 mb	O3MR	Ozone Mixing Ratio [kg/kg]
0.02 mb	HGT	Geopotential Height [gpm]
0.02 mb	TMP	Temperature [K]
0.02 mb	RH	Relative Humidity [%]
0.02 mb	SPFH	Specific Humidity [kg/kg]
0.02 mb	VVEL	Vertical Velocity (Pressure) [Pa/s]

0.02 mb	DZDT	Vertical Velocity (Geometric) [m/s]
0.02 mb	UGRD	U-Component of Wind [m/s]
0.02 mb	VGRD	V-Component of Wind [m/s]
0.02 mb	ABSV	Absolute Vorticity [1/s]
0.02 mb	O3MR	Ozone Mixing Ratio [kg/kg]
0.04 mb	HGT	Geopotential Height [gpm]
0.04 mb	TMP	Temperature [K]
0.04 mb	RH	Relative Humidity [%]
0.04 mb	SPFH	Specific Humidity [kg/kg]
0.04 mb	VVEL	Vertical Velocity (Pressure) [Pa/s]
0.04 mb	DZDT	Vertical Velocity (Geometric) [m/s]
0.04 mb	UGRD	U-Component of Wind [m/s]
0.04 mb	VGRD	V-Component of Wind [m/s]
0.04 mb	ABSV	Absolute Vorticity [1/s]
0.04 mb	O3MR	Ozone Mixing Ratio [kg/kg]
0.07 mb	HGT	Geopotential Height [gpm]
0.07 mb	TMP	Temperature [K]
0.07 mb	RH	Relative Humidity [%]
0.07 mb	SPFH	Specific Humidity [kg/kg]
0.07 mb	VVEL	Vertical Velocity (Pressure) [Pa/s]
0.07 mb	DZDT	Vertical Velocity (Geometric) [m/s]
0.07 mb	UGRD	U-Component of Wind [m/s]
0.07 mb	VGRD	V-Component of Wind [m/s]
0.07 mb	ABSV	Absolute Vorticity [1/s]
0.07 mb	O3MR	Ozone Mixing Ratio [kg/kg]
0.1 mb	HGT	Geopotential Height [gpm]
0.1 mb	TMP	Temperature [K]
0.1 mb	RH	Relative Humidity [%]
0.1 mb	SPFH	Specific Humidity [kg/kg]
0.1 mb	VVEL	Vertical Velocity (Pressure) [Pa/s]
0.1 mb	DZDT	Vertical Velocity (Geometric) [m/s]
0.1 mb	UGRD	U-Component of Wind [m/s]
0.1 mb	VGRD	V-Component of Wind [m/s]
0.1 mb	ABSV	Absolute Vorticity [1/s]
0.1 mb	O3MR	Ozone Mixing Ratio [kg/kg]
0.2 mb	HGT	Geopotential Height [gpm]
0.2 mb	TMP	Temperature [K]
0.2 mb	RH	Relative Humidity [%]
0.2 mb	SPFH	Specific Humidity [kg/kg]
0.2 mb	VVEL	Vertical Velocity (Pressure) [Pa/s]

0.2 mb	DZDT	Vertical Velocity (Geometric) [m/s]
0.2 mb	UGRD	U-Component of Wind [m/s]
0.2 mb	VGRD	V-Component of Wind [m/s]
0.2 mb	ABSV	Absolute Vorticity [1/s]
0.2 mb	O3MR	Ozone Mixing Ratio [kg/kg]
0.4 mb	HGT	Geopotential Height [gpm]
0.4 mb	TMP	Temperature [K]
0.4 mb	RH	Relative Humidity [%]
0.4 mb	SPFH	Specific Humidity [kg/kg]
0.4 mb	VVEL	Vertical Velocity (Pressure) [Pa/s]
0.4 mb	DZDT	Vertical Velocity (Geometric) [m/s]
0.4 mb	UGRD	U-Component of Wind [m/s]
0.4 mb	VGRD	V-Component of Wind [m/s]
0.4 mb	ABSV	Absolute Vorticity [1/s]
0.4 mb	O3MR	Ozone Mixing Ratio [kg/kg]
0.7 mb	HGT	Geopotential Height [gpm]
0.7 mb	TMP	Temperature [K]
0.7 mb	RH	Relative Humidity [%]
0.7 mb	SPFH	Specific Humidity [kg/kg]
0.7 mb	VVEL	Vertical Velocity (Pressure) [Pa/s]
0.7 mb	DZDT	Vertical Velocity (Geometric) [m/s]
0.7 mb	UGRD	U-Component of Wind [m/s]
0.7 mb	VGRD	V-Component of Wind [m/s]
0.7 mb	ABSV	Absolute Vorticity [1/s]
0.7 mb	O3MR	Ozone Mixing Ratio [kg/kg]
1 mb	HGT	Geopotential Height [gpm]
1 mb	TMP	Temperature [K]
1 mb	RH	Relative Humidity [%]
1 mb	SPFH	Specific Humidity [kg/kg]
1 mb	VVEL	Vertical Velocity (Pressure) [Pa/s]
1 mb	DZDT	Vertical Velocity (Geometric) [m/s]
1 mb	UGRD	U-Component of Wind [m/s]
1 mb	VGRD	V-Component of Wind [m/s]
1 mb	ABSV	Absolute Vorticity [1/s]
1 mb	O3MR	Ozone Mixing Ratio [kg/kg]
2 mb	HGT	Geopotential Height [gpm]
2 mb	TMP	Temperature [K]
2 mb	RH	Relative Humidity [%]
2 mb	SPFH	Specific Humidity [kg/kg]
2 mb	VVEL	Vertical Velocity (Pressure) [Pa/s]

2 mb	DZDT	Vertical Velocity (Geometric) [m/s]
2 mb	UGRD	U-Component of Wind [m/s]
2 mb	VGRD	V-Component of Wind [m/s]
2 mb	ABSV	Absolute Vorticity [1/s]
2 mb	O3MR	Ozone Mixing Ratio [kg/kg]
3 mb	HGT	Geopotential Height [gpm]
3 mb	TMP	Temperature [K]
3 mb	RH	Relative Humidity [%]
3 mb	SPFH	Specific Humidity [kg/kg]
3 mb	VVEL	Vertical Velocity (Pressure) [Pa/s]
3 mb	DZDT	Vertical Velocity (Geometric) [m/s]
3 mb	UGRD	U-Component of Wind [m/s]
3 mb	VGRD	V-Component of Wind [m/s]
3 mb	ABSV	Absolute Vorticity [1/s]
3 mb	O3MR	Ozone Mixing Ratio [kg/kg]
5 mb	HGT	Geopotential Height [gpm]
5 mb	TMP	Temperature [K]
5 mb	RH	Relative Humidity [%]
5 mb	SPFH	Specific Humidity [kg/kg]
5 mb	VVEL	Vertical Velocity (Pressure) [Pa/s]
5 mb	DZDT	Vertical Velocity (Geometric) [m/s]
5 mb	UGRD	U-Component of Wind [m/s]
5 mb	VGRD	V-Component of Wind [m/s]
5 mb	ABSV	Absolute Vorticity [1/s]
5 mb	O3MR	Ozone Mixing Ratio [kg/kg]
7 mb	HGT	Geopotential Height [gpm]
7 mb	TMP	Temperature [K]
7 mb	RH	Relative Humidity [%]
7 mb	SPFH	Specific Humidity [kg/kg]
7 mb	VVEL	Vertical Velocity (Pressure) [Pa/s]
7 mb	DZDT	Vertical Velocity (Geometric) [m/s]
7 mb	UGRD	U-Component of Wind [m/s]
7 mb	VGRD	V-Component of Wind [m/s]
7 mb	ABSV	Absolute Vorticity [1/s]
7 mb	O3MR	Ozone Mixing Ratio [kg/kg]
10 mb	HGT	Geopotential Height [gpm]
10 mb	TMP	Temperature [K]
10 mb	RH	Relative Humidity [%]
10 mb	SPFH	Specific Humidity [kg/kg]
10 mb	VVEL	Vertical Velocity (Pressure) [Pa/s]

10 mb	DZDT	Vertical Velocity (Geometric) [m/s]
10 mb	UGRD	U-Component of Wind [m/s]
10 mb	VGRD	V-Component of Wind [m/s]
10 mb	ABSV	Absolute Vorticity [1/s]
10 mb	O3MR	Ozone Mixing Ratio [kg/kg]
15 mb	HGT	Geopotential Height [gpm]
15 mb	TMP	Temperature [K]
15 mb	RH	Relative Humidity [%]
15 mb	SPFH	Specific Humidity [kg/kg]
15 mb	VVEL	Vertical Velocity (Pressure) [Pa/s]
15 mb	DZDT	Vertical Velocity (Geometric) [m/s]
15 mb	UGRD	U-Component of Wind [m/s]
15 mb	VGRD	V-Component of Wind [m/s]
15 mb	ABSV	Absolute Vorticity [1/s]
15 mb	O3MR	Ozone Mixing Ratio [kg/kg]
20 mb	HGT	Geopotential Height [gpm]
20 mb	TMP	Temperature [K]
20 mb	RH	Relative Humidity [%]
20 mb	SPFH	Specific Humidity [kg/kg]
20 mb	VVEL	Vertical Velocity (Pressure) [Pa/s]
20 mb	DZDT	Vertical Velocity (Geometric) [m/s]
20 mb	UGRD	U-Component of Wind [m/s]
20 mb	VGRD	V-Component of Wind [m/s]
20 mb	ABSV	Absolute Vorticity [1/s]
20 mb	O3MR	Ozone Mixing Ratio [kg/kg]
30 mb	HGT	Geopotential Height [gpm]
30 mb	TMP	Temperature [K]
30 mb	RH	Relative Humidity [%]
30 mb	SPFH	Specific Humidity [kg/kg]
30 mb	VVEL	Vertical Velocity (Pressure) [Pa/s]
30 mb	DZDT	Vertical Velocity (Geometric) [m/s]
30 mb	UGRD	U-Component of Wind [m/s]
30 mb	VGRD	V-Component of Wind [m/s]
30 mb	ABSV	Absolute Vorticity [1/s]
30 mb	O3MR	Ozone Mixing Ratio [kg/kg]
40 mb	HGT	Geopotential Height [gpm]
40 mb	TMP	Temperature [K]
40 mb	RH	Relative Humidity [%]
40 mb	SPFH	Specific Humidity [kg/kg]
40 mb	VVEL	Vertical Velocity (Pressure) [Pa/s]

40 mb	DZDT	Vertical Velocity (Geometric) [m/s]
40 mb	UGRD	U-Component of Wind [m/s]
40 mb	VGRD	V-Component of Wind [m/s]
40 mb	ABSV	Absolute Vorticity [1/s]
40 mb	O3MR	Ozone Mixing Ratio [kg/kg]
50 mb	HGT	Geopotential Height [gpm]
50 mb	TMP	Temperature [K]
50 mb	RH	Relative Humidity [%]
50 mb	TCDC	Total Cloud Cover [%]
50 mb	SPFH	Specific Humidity [kg/kg]
50 mb	VVEL	Vertical Velocity (Pressure) [Pa/s]
50 mb	DZDT	Vertical Velocity (Geometric) [m/s]
50 mb	UGRD	U-Component of Wind [m/s]
50 mb	VGRD	V-Component of Wind [m/s]
50 mb	ABSV	Absolute Vorticity [1/s]
50 mb	CLWMR	Cloud Mixing Ratio [kg/kg]
50 mb	ICMR	Ice Water Mixing Ratio [kg/kg]
50 mb	RWMR	Rain Mixing Ratio [kg/kg]
50 mb	SNMR	Snow Mixing Ratio [kg/kg]
50 mb	GRLE	Graupel [kg/kg]
50 mb	O3MR	Ozone Mixing Ratio [kg/kg]
70 mb	HGT	Geopotential Height [gpm]
70 mb	TMP	Temperature [K]
70 mb	RH	Relative Humidity [%]
70 mb	SPFH	Specific Humidity [kg/kg]
70 mb	VVEL	Vertical Velocity (Pressure) [Pa/s]
70 mb	DZDT	Vertical Velocity (Geometric) [m/s]
70 mb	UGRD	U-Component of Wind [m/s]
70 mb	VGRD	V-Component of Wind [m/s]
70 mb	ABSV	Absolute Vorticity [1/s]
70 mb	O3MR	Ozone Mixing Ratio [kg/kg]
100 mb	HGT	Geopotential Height [gpm]
100 mb	TMP	Temperature [K]
100 mb	RH	Relative Humidity [%]
100 mb	TCDC	Total Cloud Cover [%]
100 mb	SPFH	Specific Humidity [kg/kg]
100 mb	VVEL	Vertical Velocity (Pressure) [Pa/s]
100 mb	DZDT	Vertical Velocity (Geometric) [m/s]
100 mb	UGRD	U-Component of Wind [m/s]
100 mb	VGRD	V-Component of Wind [m/s]
100 mb	ABSV	Absolute Vorticity [1/s]

100 mb	CLWMR	Cloud Mixing Ratio [kg/kg]
100 mb	ICMR	Ice Water Mixing Ratio [kg/kg]
100 mb	RWMR	Rain Mixing Ratio [kg/kg]
100 mb	SNMR	Snow Mixing Ratio [kg/kg]
100 mb	GRLE	Graupel [kg/kg]
100 mb	O3MR	Ozone Mixing Ratio [kg/kg]
150 mb	HGT	Geopotential Height [gpm]
150 mb	TMP	Temperature [K]
150 mb	RH	Relative Humidity [%]
150 mb	TCDC	Total Cloud Cover [%]
150 mb	SPFH	Specific Humidity [kg/kg]
150 mb	VVEL	Vertical Velocity (Pressure) [Pa/s]
150 mb	DZDT	Vertical Velocity (Geometric) [m/s]
150 mb	UGRD	U-Component of Wind [m/s]
150 mb	VGRD	V-Component of Wind [m/s]
150 mb	ABSV	Absolute Vorticity [1/s]
150 mb	CLWMR	Cloud Mixing Ratio [kg/kg]
150 mb	ICMR	Ice Water Mixing Ratio [kg/kg]
150 mb	RWMR	Rain Mixing Ratio [kg/kg]
150 mb	SNMR	Snow Mixing Ratio [kg/kg]
150 mb	GRLE	Graupel [kg/kg]
150 mb	O3MR	Ozone Mixing Ratio [kg/kg]
200 mb	HGT	Geopotential Height [gpm]
200 mb	TMP	Temperature [K]
200 mb	RH	Relative Humidity [%]
200 mb	TCDC	Total Cloud Cover [%]
200 mb	SPFH	Specific Humidity [kg/kg]
200 mb	VVEL	Vertical Velocity (Pressure) [Pa/s]
200 mb	DZDT	Vertical Velocity (Geometric) [m/s]
200 mb	UGRD	U-Component of Wind [m/s]
200 mb	VGRD	V-Component of Wind [m/s]
200 mb	ABSV	Absolute Vorticity [1/s]
200 mb	CLWMR	Cloud Mixing Ratio [kg/kg]
200 mb	ICMR	Ice Water Mixing Ratio [kg/kg]
200 mb	RWMR	Rain Mixing Ratio [kg/kg]
200 mb	SNMR	Snow Mixing Ratio [kg/kg]
200 mb	GRLE	Graupel [kg/kg]
200 mb	O3MR	Ozone Mixing Ratio [kg/kg]
250 mb	HGT	Geopotential Height [gpm]
250 mb	TMP	Temperature [K]
250 mb	RH	Relative Humidity [%]
250 mb	TCDC	Total Cloud Cover [%]
250 mb	SPFH	Specific Humidity [kg/kg]

250 mb	VVEL	Vertical Velocity (Pressure) [Pa/s]
250 mb	DZDT	Vertical Velocity (Geometric) [m/s]
250 mb	UGRD	U-Component of Wind [m/s]
250 mb	VGRD	V-Component of Wind [m/s]
250 mb	ABSV	Absolute Vorticity [1/s]
250 mb	CLWMR	Cloud Mixing Ratio [kg/kg]
250 mb	ICMR	Ice Water Mixing Ratio [kg/kg]
250 mb	RWMR	Rain Mixing Ratio [kg/kg]
250 mb	SNMR	Snow Mixing Ratio [kg/kg]
250 mb	GRLE	Graupel [kg/kg]
250 mb	O3MR	Ozone Mixing Ratio [kg/kg]
300 mb	HGT	Geopotential Height [gpm]
300 mb	TMP	Temperature [K]
300 mb	RH	Relative Humidity [%]
300 mb	TCDC	Total Cloud Cover [%]
300 mb	SPFH	Specific Humidity [kg/kg]
300 mb	VVEL	Vertical Velocity (Pressure) [Pa/s]
300 mb	DZDT	Vertical Velocity (Geometric) [m/s]
300 mb	UGRD	U-Component of Wind [m/s]
300 mb	VGRD	V-Component of Wind [m/s]
300 mb	ABSV	Absolute Vorticity [1/s]
300 mb	CLWMR	Cloud Mixing Ratio [kg/kg]
300 mb	ICMR	Ice Water Mixing Ratio [kg/kg]
300 mb	RWMR	Rain Mixing Ratio [kg/kg]
300 mb	SNMR	Snow Mixing Ratio [kg/kg]
300 mb	GRLE	Graupel [kg/kg]
300 mb	O3MR	Ozone Mixing Ratio [kg/kg]
350 mb	HGT	Geopotential Height [gpm]
350 mb	TMP	Temperature [K]
350 mb	RH	Relative Humidity [%]
350 mb	TCDC	Total Cloud Cover [%]
350 mb	SPFH	Specific Humidity [kg/kg]
350 mb	VVEL	Vertical Velocity (Pressure) [Pa/s]
350 mb	DZDT	Vertical Velocity (Geometric) [m/s]
350 mb	UGRD	U-Component of Wind [m/s]
350 mb	VGRD	V-Component of Wind [m/s]
350 mb	ABSV	Absolute Vorticity [1/s]
350 mb	CLWMR	Cloud Mixing Ratio [kg/kg]
350 mb	ICMR	Ice Water Mixing Ratio [kg/kg]
350 mb	RWMR	Rain Mixing Ratio [kg/kg]
350 mb	SNMR	Snow Mixing Ratio [kg/kg]
350 mb	GRLE	Graupel [kg/kg]

350 mb	O3MR	Ozone Mixing Ratio [kg/kg]
400 mb	HGT	Geopotential Height [gpm]
400 mb	TMP	Temperature [K]
400 mb	RH	Relative Humidity [%]
400 mb	TCDC	Total Cloud Cover [%]
400 mb	SPFH	Specific Humidity [kg/kg]
400 mb	VVEL	Vertical Velocity (Pressure) [Pa/s]
400 mb	DZDT	Vertical Velocity (Geometric) [m/s]
400 mb	UGRD	U-Component of Wind [m/s]
400 mb	VGRD	V-Component of Wind [m/s]
400 mb	ABSV	Absolute Vorticity [1/s]
400 mb	CLWMR	Cloud Mixing Ratio [kg/kg]
400 mb	ICMR	Ice Water Mixing Ratio [kg/kg]
400 mb	RWMR	Rain Mixing Ratio [kg/kg]
400 mb	SNMR	Snow Mixing Ratio [kg/kg]
400 mb	GRLE	Graupel [kg/kg]
400 mb	O3MR	Ozone Mixing Ratio [kg/kg]
450 mb	HGT	Geopotential Height [gpm]
450 mb	TMP	Temperature [K]
450 mb	RH	Relative Humidity [%]
450 mb	TCDC	Total Cloud Cover [%]
450 mb	SPFH	Specific Humidity [kg/kg]
450 mb	VVEL	Vertical Velocity (Pressure) [Pa/s]
450 mb	DZDT	Vertical Velocity (Geometric) [m/s]
450 mb	UGRD	U-Component of Wind [m/s]
450 mb	VGRD	V-Component of Wind [m/s]
450 mb	ABSV	Absolute Vorticity [1/s]
450 mb	CLWMR	Cloud Mixing Ratio [kg/kg]
450 mb	ICMR	Ice Water Mixing Ratio [kg/kg]
450 mb	RWMR	Rain Mixing Ratio [kg/kg]
450 mb	SNMR	Snow Mixing Ratio [kg/kg]
450 mb	GRLE	Graupel [kg/kg]
450 mb	O3MR	Ozone Mixing Ratio [kg/kg]
500 mb	HGT	Geopotential Height [gpm]
500 mb	TMP	Temperature [K]
500 mb	RH	Relative Humidity [%]
500 mb	TCDC	Total Cloud Cover [%]
500 mb	SPFH	Specific Humidity [kg/kg]
500 mb	VVEL	Vertical Velocity (Pressure) [Pa/s]
500 mb	DZDT	Vertical Velocity (Geometric) [m/s]
500 mb	UGRD	U-Component of Wind [m/s]
500 mb	VGRD	V-Component of Wind [m/s]

500 mb	ABSV	Absolute Vorticity [1/s]
500 mb	CLWMR	Cloud Mixing Ratio [kg/kg]
500 mb	ICMR	Ice Water Mixing Ratio [kg/kg]
500 mb	RWMR	Rain Mixing Ratio [kg/kg]
500 mb	SNMR	Snow Mixing Ratio [kg/kg]
500 mb	GRLE	Graupel [kg/kg]
500 mb	O3MR	Ozone Mixing Ratio [kg/kg]
550 mb	HGT	Geopotential Height [gpm]
550 mb	TMP	Temperature [K]
550 mb	RH	Relative Humidity [%]
550 mb	TCDC	Total Cloud Cover [%]
550 mb	SPFH	Specific Humidity [kg/kg]
550 mb	VVEL	Vertical Velocity (Pressure) [Pa/s]
550 mb	DZDT	Vertical Velocity (Geometric) [m/s]
550 mb	UGRD	U-Component of Wind [m/s]
550 mb	VGRD	V-Component of Wind [m/s]
550 mb	ABSV	Absolute Vorticity [1/s]
550 mb	CLWMR	Cloud Mixing Ratio [kg/kg]
550 mb	ICMR	Ice Water Mixing Ratio [kg/kg]
550 mb	RWMR	Rain Mixing Ratio [kg/kg]
550 mb	SNMR	Snow Mixing Ratio [kg/kg]
550 mb	GRLE	Graupel [kg/kg]
550 mb	O3MR	Ozone Mixing Ratio [kg/kg]
600 mb	HGT	Geopotential Height [gpm]
600 mb	TMP	Temperature [K]
600 mb	RH	Relative Humidity [%]
600 mb	TCDC	Total Cloud Cover [%]
600 mb	SPFH	Specific Humidity [kg/kg]
600 mb	VVEL	Vertical Velocity (Pressure) [Pa/s]
600 mb	DZDT	Vertical Velocity (Geometric) [m/s]
600 mb	UGRD	U-Component of Wind [m/s]
600 mb	VGRD	V-Component of Wind [m/s]
600 mb	ABSV	Absolute Vorticity [1/s]
600 mb	CLWMR	Cloud Mixing Ratio [kg/kg]
600 mb	ICMR	Ice Water Mixing Ratio [kg/kg]
600 mb	RWMR	Rain Mixing Ratio [kg/kg]
600 mb	SNMR	Snow Mixing Ratio [kg/kg]
600 mb	GRLE	Graupel [kg/kg]
600 mb	O3MR	Ozone Mixing Ratio [kg/kg]
650 mb	HGT	Geopotential Height [gpm]
650 mb	TMP	Temperature [K]
650 mb	RH	Relative Humidity [%]
650 mb	TCDC	Total Cloud Cover [%]

650 mb	SPFH	Specific Humidity [kg/kg]
650 mb	VVEL	Vertical Velocity (Pressure) [Pa/s]
650 mb	DZDT	Vertical Velocity (Geometric) [m/s]
650 mb	UGRD	U-Component of Wind [m/s]
650 mb	VGRD	V-Component of Wind [m/s]
650 mb	ABSV	Absolute Vorticity [1/s]
650 mb	CLWMR	Cloud Mixing Ratio [kg/kg]
650 mb	ICMR	Ice Water Mixing Ratio [kg/kg]
650 mb	RWMR	Rain Mixing Ratio [kg/kg]
650 mb	SNMR	Snow Mixing Ratio [kg/kg]
650 mb	GRLE	Graupel [kg/kg]
650 mb	O3MR	Ozone Mixing Ratio [kg/kg]
700 mb	HGT	Geopotential Height [gpm]
700 mb	TMP	Temperature [K]
700 mb	RH	Relative Humidity [%]
700 mb	TCDC	Total Cloud Cover [%]
700 mb	SPFH	Specific Humidity [kg/kg]
700 mb	VVEL	Vertical Velocity (Pressure) [Pa/s]
700 mb	DZDT	Vertical Velocity (Geometric) [m/s]
700 mb	UGRD	U-Component of Wind [m/s]
700 mb	VGRD	V-Component of Wind [m/s]
700 mb	ABSV	Absolute Vorticity [1/s]
700 mb	CLWMR	Cloud Mixing Ratio [kg/kg]
700 mb	ICMR	Ice Water Mixing Ratio [kg/kg]
700 mb	RWMR	Rain Mixing Ratio [kg/kg]
700 mb	SNMR	Snow Mixing Ratio [kg/kg]
700 mb	GRLE	Graupel [kg/kg]
700 mb	O3MR	Ozone Mixing Ratio [kg/kg]
750 mb	HGT	Geopotential Height [gpm]
750 mb	TMP	Temperature [K]
750 mb	RH	Relative Humidity [%]
750 mb	TCDC	Total Cloud Cover [%]
750 mb	SPFH	Specific Humidity [kg/kg]
750 mb	VVEL	Vertical Velocity (Pressure) [Pa/s]
750 mb	DZDT	Vertical Velocity (Geometric) [m/s]
750 mb	UGRD	U-Component of Wind [m/s]
750 mb	VGRD	V-Component of Wind [m/s]
750 mb	ABSV	Absolute Vorticity [1/s]
750 mb	CLWMR	Cloud Mixing Ratio [kg/kg]
750 mb	ICMR	Ice Water Mixing Ratio [kg/kg]
750 mb	RWMR	Rain Mixing Ratio [kg/kg]
750 mb	SNMR	Snow Mixing Ratio [kg/kg]

750 mb	GRLE	Graupel [kg/kg]
750 mb	O3MR	Ozone Mixing Ratio [kg/kg]
800 mb	HGT	Geopotential Height [gpm]
800 mb	TMP	Temperature [K]
800 mb	RH	Relative Humidity [%]
800 mb	TCDC	Total Cloud Cover [%]
800 mb	SPFH	Specific Humidity [kg/kg]
800 mb	VVEL	Vertical Velocity (Pressure) [Pa/s]
800 mb	DZDT	Vertical Velocity (Geometric) [m/s]
800 mb	UGRD	U-Component of Wind [m/s]
800 mb	VGRD	V-Component of Wind [m/s]
800 mb	ABSV	Absolute Vorticity [1/s]
800 mb	CLWMR	Cloud Mixing Ratio [kg/kg]
800 mb	ICMR	Ice Water Mixing Ratio [kg/kg]
800 mb	RWMR	Rain Mixing Ratio [kg/kg]
800 mb	SNMR	Snow Mixing Ratio [kg/kg]
800 mb	GRLE	Graupel [kg/kg]
800 mb	O3MR	Ozone Mixing Ratio [kg/kg]
850 mb	HGT	Geopotential Height [gpm]
850 mb	TMP	Temperature [K]
850 mb	RH	Relative Humidity [%]
850 mb	TCDC	Total Cloud Cover [%]
850 mb	SPFH	Specific Humidity [kg/kg]
850 mb	VVEL	Vertical Velocity (Pressure) [Pa/s]
850 mb	DZDT	Vertical Velocity (Geometric) [m/s]
850 mb	UGRD	U-Component of Wind [m/s]
850 mb	VGRD	V-Component of Wind [m/s]
850 mb	ABSV	Absolute Vorticity [1/s]
850 mb	CLWMR	Cloud Mixing Ratio [kg/kg]
850 mb	ICMR	Ice Water Mixing Ratio [kg/kg]
850 mb	RWMR	Rain Mixing Ratio [kg/kg]
850 mb	SNMR	Snow Mixing Ratio [kg/kg]
850 mb	GRLE	Graupel [kg/kg]
850 mb	O3MR	Ozone Mixing Ratio [kg/kg]
900 mb	HGT	Geopotential Height [gpm]
900 mb	TMP	Temperature [K]
900 mb	RH	Relative Humidity [%]
900 mb	TCDC	Total Cloud Cover [%]
900 mb	SPFH	Specific Humidity [kg/kg]
900 mb	VVEL	Vertical Velocity (Pressure) [Pa/s]
900 mb	DZDT	Vertical Velocity (Geometric) [m/s]
900 mb	UGRD	U-Component of Wind [m/s]

900 mb	VGRD	V-Component of Wind [m/s]
900 mb	ABSV	Absolute Vorticity [1/s]
900 mb	CLWMR	Cloud Mixing Ratio [kg/kg]
900 mb	ICMR	Ice Water Mixing Ratio [kg/kg]
900 mb	RWMR	Rain Mixing Ratio [kg/kg]
900 mb	SNMR	Snow Mixing Ratio [kg/kg]
900 mb	GRLE	Graupel [kg/kg]
900 mb	O3MR	Ozone Mixing Ratio [kg/kg]
925 mb	HGT	Geopotential Height [gpm]
925 mb	TMP	Temperature [K]
925 mb	RH	Relative Humidity [%]
925 mb	TCDC	Total Cloud Cover [%]
925 mb	SPFH	Specific Humidity [kg/kg]
925 mb	VVEL	Vertical Velocity (Pressure) [Pa/s]
925 mb	DZDT	Vertical Velocity (Geometric) [m/s]
925 mb	UGRD	U-Component of Wind [m/s]
925 mb	VGRD	V-Component of Wind [m/s]
925 mb	ABSV	Absolute Vorticity [1/s]
925 mb	CLWMR	Cloud Mixing Ratio [kg/kg]
925 mb	ICMR	Ice Water Mixing Ratio [kg/kg]
925 mb	RWMR	Rain Mixing Ratio [kg/kg]
925 mb	SNMR	Snow Mixing Ratio [kg/kg]
925 mb	GRLE	Graupel [kg/kg]
925 mb	O3MR	Ozone Mixing Ratio [kg/kg]
950 mb	HGT	Geopotential Height [gpm]
950 mb	TMP	Temperature [K]
950 mb	RH	Relative Humidity [%]
950 mb	TCDC	Total Cloud Cover [%]
950 mb	SPFH	Specific Humidity [kg/kg]
950 mb	VVEL	Vertical Velocity (Pressure) [Pa/s]
950 mb	DZDT	Vertical Velocity (Geometric) [m/s]
950 mb	UGRD	U-Component of Wind [m/s]
950 mb	VGRD	V-Component of Wind [m/s]
950 mb	ABSV	Absolute Vorticity [1/s]
950 mb	CLWMR	Cloud Mixing Ratio [kg/kg]
950 mb	ICMR	Ice Water Mixing Ratio [kg/kg]
950 mb	RWMR	Rain Mixing Ratio [kg/kg]
950 mb	SNMR	Snow Mixing Ratio [kg/kg]
950 mb	GRLE	Graupel [kg/kg]
950 mb	O3MR	Ozone Mixing Ratio [kg/kg]
surface	HINDEX	Haines Index [Numeric]
975 mb	HGT	Geopotential Height [gpm]
975 mb	TMP	Temperature [K]

975 mb	RH	Relative Humidity [%]
975 mb	TCDC	Total Cloud Cover [%]
975 mb	SPFH	Specific Humidity [kg/kg]
975 mb	VVEL	Vertical Velocity (Pressure) [Pa/s]
975 mb	DZDT	Vertical Velocity (Geometric) [m/s]
975 mb	UGRD	U-Component of Wind [m/s]
975 mb	VGRD	V-Component of Wind [m/s]
975 mb	ABSV	Absolute Vorticity [1/s]
975 mb	CLWMR	Cloud Mixing Ratio [kg/kg]
975 mb	ICMR	Ice Water Mixing Ratio [kg/kg]
975 mb	RWMR	Rain Mixing Ratio [kg/kg]
975 mb	SNMR	Snow Mixing Ratio [kg/kg]
975 mb	GRLE	Graupel [kg/kg]
975 mb	O3MR	Ozone Mixing Ratio [kg/kg]
1000 mb	TMP	Temperature [K]
1000 mb	RH	Relative Humidity [%]
1000 mb	TCDC	Total Cloud Cover [%]
1000 mb	SPFH	Specific Humidity [kg/kg]
1000 mb	VVEL	Vertical Velocity (Pressure) [Pa/s]
1000 mb	DZDT	Vertical Velocity (Geometric) [m/s]
1000 mb	UGRD	U-Component of Wind [m/s]
1000 mb	VGRD	V-Component of Wind [m/s]
1000 mb	ABSV	Absolute Vorticity [1/s]
1000 mb	CLWMR	Cloud Mixing Ratio [kg/kg]
1000 mb	ICMR	Ice Water Mixing Ratio [kg/kg]
1000 mb	RWMR	Rain Mixing Ratio [kg/kg]
1000 mb	SNMR	Snow Mixing Ratio [kg/kg]
1000 mb	GRLE	Graupel [kg/kg]
1000 mb	O3MR	Ozone Mixing Ratio [kg/kg]
mean sea level	MSLET M	(Eta model reduction) [Pa]
1000 mb	HGT	Geopotential Height [gpm]
4000 m above ground	REFD	Reflectivity [dB]
1000 m above ground	REFD	Reflectivity [dB]
surface	PRES	Pressure [Pa]
surface	HGT	Geopotential Height [gpm]
surface	TMP	Temperature [K]
0-0.1 m below ground	TSOIL	Soil Temperature [K]
0-0.1 m below ground	SOILW	Volumetric Soil Moisture Content [Fraction]
0-0.1 m below ground	SOILL	Liquid Volumetric Soil Moisture (non Frozen) [Proportion]
0.1-0.4 m below ground	TSOIL	Soil Temperature [K]
0.1-0.4 m below ground	SOILW	Volumetric Soil Moisture Content [Fraction]

0.1-0.4 m below ground	SOILL	Liquid Volumetric Soil Moisture (non Frozen) [Proportion]
0.4-1 m below ground	TSOIL	Soil Temperature [K]
0.4-1 m below ground	SOILW	Volumetric Soil Moisture Content [Fraction]
0.4-1 m below ground	SOILL	Liquid Volumetric Soil Moisture (non Frozen) [Proportion]
1-2 m below ground	TSOIL	Soil Temperature [K]
1-2 m below ground	SOILW	Volumetric Soil Moisture Content [Fraction]
1-2 m below ground	SOILL	Liquid Volumetric Soil Moisture (non Frozen) [Proportion]
surface	CNWAT	Plant Canopy Surface Water [kg/m ²]
surface	WEASD	Water Equivalent of Accumulated Snow Depth [kg/m ²]
surface	SNOD	Snow Depth [m]
surface	PEVPR	Potential Evaporation Rate [W/m ²]
surface	ICETK	Ice Thickness [m]
2 m above ground	TMP	Temperature [K]
2 m above ground	SPFH	Specific Humidity [kg/kg]
2 m above ground	DPT	Dew Point Temperature [K]
2 m above ground	RH	Relative Humidity [%]
2 m above ground	APTMP	Apparent Temperature [K]
2 m above ground	TMAX	Maximum Temperature [K]
2 m above ground	TMIN	Minimum Temperature [K]
10 m above ground	UGRD	U-Component of Wind [m/s]
10 m above ground	VGRD	V-Component of Wind [m/s]
10 m above mean sea level	ICEG	Ice Growth Rate [m/s]
surface	CPOFP	Percent frozen precipitation [%]
surface	CPRAT	Convective Precipitation Rate [kg/m ² /s]
surface	PRATE	Precipitation Rate [kg/m ² /s]
surface	CPRAT	Convective Precipitation Rate [kg/m ² /s]
surface	PRATE	Precipitation Rate [kg/m ² /s]
surface	APCP	Total Precipitation [kg/m ²]
surface	APCP	Total Precipitation [kg/m ²]
surface	ACPCP	Convective Precipitation [kg/m ²]
surface	ACPCP	Convective Precipitation [kg/m ²]
surface	WATR	Water Runoff [kg/m ²]
surface	CSNOW	Categorical Snow [-]
surface	CICEP	Categorical Ice Pellets [-]
surface	CFRZR	Categorical Freezing Rain [-]
surface	CRAIN	Categorical Rain [-]

surface	CSNOW	Categorical Snow [-]
surface	CICEP	Categorical Ice Pellets [-]
surface	CFRZR	Categorical Freezing Rain [-]
surface	CRAIN	Categorical Rain [-]
surface	LHTFL	Latent Heat Net Flux [W/m ²]
surface	SHTFL	Sensible Heat Net Flux [W/m ²]
surface	GFLUX	Ground Heat Flux [W/m ²]
surface	UFLX	Momentum Flux, U-Component [N/m ²]
surface	VFLX	Momentum Flux, V-Component [N/m ²]
surface	SFCR	Surface Roughness [m]
surface	FRICV	Frictional Velocity [m/s]
surface	U-GWD	Zonal Flux of Gravity Wave Stress [N/m ²]
surface	V-GWD	Meridional Flux of Gravity Wave Stress [N/m ²]
surface	VEG	Vegetation [%]
surface	SOTYP	Soil Type [-]
surface	WILT	Wilting Point [Fraction]
surface	FLDCP	Field Capacity [Fraction]
surface	SUNSD	Sunshine Duration [s]
surface	LFTX	Surface Lifted Index [K]
surface	CAPE	Convective Available Potential Energy [J/kg]
surface	CIN	Convective Inhibition [J/kg]
entire atmosphere (considered as a single layer)	PWAT	Precipitable Water [kg/m ²]
entire atmosphere (considered as a single layer)	CWAT	Cloud Water [kg/m ²]
entire atmosphere (considered as a single layer)	RH	Relative Humidity [%]
entire atmosphere (considered as a single layer)	TOZNE	Total Ozone [DU]
low cloud layer	LCDC	Low Cloud Cover [%]
low cloud layer	LCDC	Low Cloud Cover [%]
middle cloud layer	MCDC	Medium Cloud Cover [%]
middle cloud layer	MCDC	Medium Cloud Cover [%]
high cloud layer	HCDC	High Cloud Cover [%]
high cloud layer	HCDC	High Cloud Cover [%]
entire atmosphere	TCDC	Total Cloud Cover [%]
entire atmosphere	TCDC	Total Cloud Cover [%]
cloud ceiling	HGT	Geopotential Height [gpm]
convective cloud bottom level	PRES	Pressure [Pa]
low cloud bottom level	PRES	Pressure [Pa]
middle cloud bottom level	PRES	Pressure [Pa]
high cloud bottom level	PRES	Pressure [Pa]
convective cloud top level	PRES	Pressure [Pa]
low cloud top level	PRES	Pressure [Pa]

middle cloud top level	PRES	Pressure [Pa]
high cloud top level	PRES	Pressure [Pa]
low cloud top level	TMP	Temperature [K]
middle cloud top level	TMP	Temperature [K]
high cloud top level	TMP	Temperature [K]
convective cloud layer	TCDC	Total Cloud Cover [%]
boundary layer cloud layer	TCDC	Total Cloud Cover [%]
entire atmosphere (considered as a single layer)	CWORK	Cloud Work Function [J/kg]
surface	DSWRF	Downward Short-Wave Radiation Flux [W/m ²]
surface	DLWRF	Downward Long-Wave Rad. Flux [W/m ²]
surface	USWRF	Upward Short-Wave Radiation Flux [W/m ²]
surface	ULWRF	Upward Long-Wave Rad. Flux [W/m ²]
top of atmosphere	USWRF	Upward Short-Wave Radiation Flux [W/m ²]
top of atmosphere	ULWRF	Upward Long-Wave Rad. Flux [W/m ²]
3000-0 m above ground	HLCY	Storm Relative Helicity [m ² /s ²]
6000-0 m above ground	USTM	U-Component Storm Motion [m/s]
6000-0 m above ground	VSTM	V-Component Storm Motion [m/s]
tropopause	PRES	Pressure [Pa]
tropopause	ICAHT I	Standard Atmosphere Reference Height [m]
tropopause	HGT	Geopotential Height [gpm]
tropopause	TMP	Temperature [K]
tropopause	UGRD	U-Component of Wind [m/s]
tropopause	VGRD	V-Component of Wind [m/s]
tropopause	VWSH	Vertical Speed Shear [1/s]
max wind	PRES	Pressure [Pa]
max wind	ICAHT I	Standard Atmosphere Reference Height [m]
max wind	HGT	Geopotential Height [gpm]
max wind	UGRD	U-Component of Wind [m/s]
max wind	VGRD	V-Component of Wind [m/s]
max wind	TMP	Temperature [K]
20 m above ground	UGRD	U-Component of Wind [m/s]
20 m above ground	VGRD	V-Component of Wind [m/s]
30 m above ground	UGRD	U-Component of Wind [m/s]
30 m above ground	VGRD	V-Component of Wind [m/s]
40 m above ground	UGRD	U-Component of Wind [m/s]
40 m above ground	VGRD	V-Component of Wind [m/s]
50 m above ground	UGRD	U-Component of Wind [m/s]

50 m above ground	VGRD	V-Component of Wind [m/s]
80 m above ground	TMP	Temperature [K]
80 m above ground	SPFH	Specific Humidity [kg/kg]
80 m above ground	PRES	Pressure [Pa]
80 m above ground	UGRD	U-Component of Wind [m/s]
80 m above ground	VGRD	V-Component of Wind [m/s]
100 m above ground	TMP	Temperature [K]
100 m above ground	UGRD	U-Component of Wind [m/s]
100 m above ground	VGRD	V-Component of Wind [m/s]
1829 m above mean sea level	TMP	Temperature [K]
1829 m above mean sea level	UGRD	U-Component of Wind [m/s]
1829 m above mean sea level	VGRD	V-Component of Wind [m/s]
2743 m above mean sea level	TMP	Temperature [K]
2743 m above mean sea level	UGRD	U-Component of Wind [m/s]
2743 m above mean sea level	VGRD	V-Component of Wind [m/s]
3658 m above mean sea level	TMP	Temperature [K]
3658 m above mean sea level	UGRD	U-Component of Wind [m/s]
3658 m above mean sea level	VGRD	V-Component of Wind [m/s]
0C isotherm	HGT	Geopotential Height [gpm]
0C isotherm	RH	Relative Humidity [%]
highest tropospheric freezing level	HGT	Geopotential Height [gpm]
highest tropospheric freezing level	RH	Relative Humidity [%]
30-0 mb above ground	TMP	Temperature [K]
30-0 mb above ground	RH	Relative Humidity [%]
30-0 mb above ground	SPFH	Specific Humidity [kg/kg]
30-0 mb above ground	UGRD	U-Component of Wind [m/s]
30-0 mb above ground	VGRD	V-Component of Wind [m/s]
surface	4LFTX	Best (4 layer) Lifted Index [K]
180-0 mb above ground	CAPE	Convective Available Potential Energy [J/kg]
180-0 mb above ground	CIN	Convective Inhibition [J/kg]
surface	HPBL	Planetary Boundary Layer Height [m]
0.33-1 sigma layer	RH	Relative Humidity [%]
0.44-1 sigma layer	RH	Relative Humidity [%]
0.72-0.94 sigma layer	RH	Relative Humidity [%]
0.44-0.72 sigma layer	RH	Relative Humidity [%]
0.995 sigma level	TMP	Temperature [K]
0.995 sigma level	POT	Potential Temperature [K]
0.995 sigma level	RH	Relative Humidity [%]
0.995 sigma level	UGRD	U-Component of Wind [m/s]
0.995 sigma level	VGRD	V-Component of Wind [m/s]
0.995 sigma level	VVEL	Vertical Velocity (Pressure) [Pa/s]
90-0 mb above ground	CAPE	Convective Available Potential Energy [J/kg]

90-0 mb above ground	CIN	Convective Inhibition [J/kg]
255-0 mb above ground	CAPE	Convective Available Potential Energy [J/kg]
255-0 mb above ground	CIN	Convective Inhibition [J/kg]
255-0 mb above ground	PLPL	Pressure of level from which parcel was lifted [Pa]
surface	LAND	Land Cover (0=sea, 1=land) [Proportion]
surface	ICEC	Ice Cover [Proportion]
surface	ALBDO	Albedo [%]
surface	ICETMP	Ice Temperature [K]
PV=2e-06 (Km ² /kg/s) surface	UGRD	U-Component of Wind [m/s]
PV=2e-06 (Km ² /kg/s) surface	VGRD	V-Component of Wind [m/s]
PV=2e-06 (Km ² /kg/s) surface	TMP	Temperature [K]
PV=2e-06 (Km ² /kg/s) surface	HGT	Geopotential Height [gpm]
PV=2e-06 (Km ² /kg/s) surface	PRES	Pressure [Pa]
PV=2e-06 (Km ² /kg/s) surface	VWSH	Vertical Speed Shear [1/s]
PV=-2e-06 (Km ² /kg/s) surface	UGRD	U-Component of Wind [m/s]
PV=-2e-06 (Km ² /kg/s) surface	VGRD	V-Component of Wind [m/s]
PV=-2e-06 (Km ² /kg/s) surface	TMP	Temperature [K]
PV=-2e-06 (Km ² /kg/s) surface	HGT	Geopotential Height [gpm]
PV=-2e-06 (Km ² /kg/s) surface	PRES	Pressure [Pa]
PV=-2e-06 (Km ² /kg/s) surface	VWSH	Vertical Speed Shear [1/s]

Климатические данные

Предоставляет климатические данные с дискретностью по времени один час с 1979 года по настоящее время.

Технические характеристики модели

Data type	Gridded
Projection	Regular latitude-longitude grid
Horizontal coverage	Global
Horizontal resolution	Reanalysis: 0.25° x 0.25° (atmosphere), 0.5° x 0.5° (ocean waves) Mean, spread and members: 0.5° x 0.5° (atmosphere), 1° x 1° (ocean waves)
Temporal coverage	1979 to present
Temporal resolution	Hourly
File format	GRIB
Update frequency	Daily

Описание параметров

Name	Units
100m u-component of wind	m s-1
100m v-component of wind	m s-1
10m u-component of neutral wind	m s-1
10m u-component of wind	m s-1
10m v-component of neutral wind	m s-1
10m v-component of wind	m s-1
10m wind gust since previous post-processing	m s-1
2m dewpoint temperature	K
2m temperature	K
Air density over the oceans	kg m-3
Angle of sub-gridscale orography	radians
Anisotropy of sub-gridscale orography	Dimensionless
Benjamin-feir index	Dimensionless
Boundary layer dissipation	J m-2
Boundary layer height	m
Charnock	Dimensionless
Clear-sky direct solar radiation at surface	J m-2
Cloud base height	m
Coefficient of drag with waves	Dimensionless
Convective available potential energy	J kg-1
Convective inhibition	J kg-1
Convective precipitation	m
Convective rain rate	kg m-2 s-1
Convective snowfall	m of water equivalent
Convective snowfall rate water equivalent	kg m-2 s-1
Downward UV radiation at the surface	J m-2

Duct base height	m
Eastward gravity wave surface stress	N m-2 s
Eastward turbulent surface stress	N m-2 s
Evaporation	m of water equivalent
Forecast albedo	Dimensionless
Forecast logarithm of surface roughness for heat	Dimensionless
Forecast surface roughness	m
Free convective velocity over the oceans	m s-1
Friction velocity	m s-1
Geopotential	m ² s-2
Gravity wave dissipation	J m-2
High cloud cover	Dimensionless
High vegetation cover	Dimensionless
Ice temperature layer 1	K
Ice temperature layer 2	K
Ice temperature layer 3	K
Ice temperature layer 4	K
Instantaneous 10m wind gust	m s-1
Instantaneous eastward turbulent surface stress	N m-2
Instantaneous large-scale surface precipitation fraction	Dimensionless
Instantaneous moisture flux	kg m-2 s-1
Instantaneous northward turbulent surface stress	N m-2
Instantaneous surface sensible heat flux	W m-2
K index	K
Lake bottom temperature	K
Lake cover	Dimensionless
Lake depth	m
Lake ice depth	m
Lake ice temperature	K
Lake mix-layer depth	m
Lake mix-layer temperature	K
Lake shape factor	Dimensionless
Lake total layer temperature	K
Land-sea mask	Dimensionless
Large scale rain rate	kg m-2 s-1
Large scale snowfall rate water equivalent	kg m-2 s-1
Large-scale precipitation	m
Large-scale precipitation fraction	s
Large-scale snowfall	m of water equivalent
Leaf area index, high vegetation	m ² m-2
Leaf area index, low vegetation	m ² m-2
Low cloud cover	Dimensionless
Low vegetation cover	Dimensionless

Maximum 2m temperature since previous post-processing	K
Maximum individual wave height	m
Maximum total precipitation rate since previous post-processing	kg m ⁻² s ⁻¹
Mean boundary layer dissipation	W m ⁻²
Mean convective precipitation rate	kg m ⁻² s ⁻¹
Mean convective snowfall rate	kg m ⁻² s ⁻¹
Mean direction of total swell	degrees
Mean direction of wind waves	degrees
Mean eastward gravity wave surface stress	N m ⁻²
Mean eastward turbulent surface stress	N m ⁻²
Mean evaporation rate	kg m ⁻² s ⁻¹
Mean gravity wave dissipation	W m ⁻²
Mean large-scale precipitation fraction	Dimensionless
Mean large-scale precipitation rate	kg m ⁻² s ⁻¹
Mean large-scale snowfall rate	kg m ⁻² s ⁻¹
Mean northward gravity wave surface stress	N m ⁻²
Mean northward turbulent surface stress	N m ⁻²
Mean period of total swell	s
Mean period of wind waves	s
Mean potential evaporation rate	kg m ⁻² s ⁻¹
Mean runoff rate	kg m ⁻² s ⁻¹
Mean sea level pressure	Pa
Mean snow evaporation rate	kg m ⁻² s ⁻¹
Mean snowfall rate	kg m ⁻² s ⁻¹
Mean snowmelt rate	kg m ⁻² s ⁻¹
Mean square slope of waves	Dimensionless
Mean sub-surface runoff rate	kg m ⁻² s ⁻¹
Mean surface direct short-wave radiation flux	W m ⁻²
Mean surface direct short-wave radiation flux, clear sky	W m ⁻²
Mean surface downward UV radiation flux	W m ⁻²
Mean surface downward long-wave radiation flux	W m ⁻²
Mean surface downward long-wave radiation flux, clear sky	W m ⁻²
Mean surface downward short-wave radiation flux	W m ⁻²
Mean surface downward short-wave radiation flux, clear sky	W m ⁻²
Mean surface latent heat flux	W m ⁻²
Mean surface net long-wave radiation flux	W m ⁻²

Mean surface net long-wave radiation flux, clear sky	W m ⁻²
Mean surface net short-wave radiation flux	W m ⁻²
Mean surface net short-wave radiation flux, clear sky	W m ⁻²
Mean surface runoff rate	kg m ⁻² s ⁻¹
Mean surface sensible heat flux	W m ⁻²
Mean top downward short-wave radiation flux	W m ⁻²
Mean top net long-wave radiation flux	W m ⁻²
Mean top net long-wave radiation flux, clear sky	W m ⁻²
Mean top net short-wave radiation flux	W m ⁻²
Mean top net short-wave radiation flux, clear sky	W m ⁻²
Mean total precipitation rate	kg m ⁻² s ⁻¹
Mean vertical gradient of refractivity inside trapping layer	m ⁻¹
Mean vertically integrated moisture divergence	kg m ⁻² s ⁻¹
Mean wave direction	degree true
Mean wave direction of first swell partition	degrees
Mean wave direction of second swell partition	degrees
Mean wave direction of third swell partition	degrees
Mean wave period	s
Mean wave period based on first moment	s
Mean wave period based on first moment for swell	s
Mean wave period based on first moment for wind waves	s
Mean wave period based on second moment for swell	s
Mean wave period based on second moment for wind waves	s
Mean wave period of first swell partition	s
Mean wave period of second swell partition	s
Mean wave period of third swell partition	s
Mean zero-crossing wave period	s
Medium cloud cover	Dimensionless
Minimum 2m temperature since previous post-processing	K
Minimum total precipitation rate since previous post-processing	kg m ⁻² s ⁻¹
Minimum vertical gradient of refractivity inside trapping layer	m ⁻¹

Model bathymetry	m
Near IR albedo for diffuse radiation	Dimensionless
Near IR albedo for direct radiation	Dimensionless
Normalized energy flux into ocean	Dimensionless
Normalized energy flux into waves	Dimensionless
Normalized stress into ocean	Dimensionless
Northward gravity wave surface stress	N m ⁻² s
Northward turbulent surface stress	N m ⁻² s
Ocean surface stress equivalent 10m neutral wind direction	degrees
Ocean surface stress equivalent 10m neutral wind speed	m s ⁻¹
Peak wave period	s
Period corresponding to maximum individual wave height	s
Potential evaporation	m
Precipitation type	Dimensionless
Runoff	m
Sea surface temperature	K
Sea-ice cover	Dimensionless
Significant height of combined wind waves and swell	m
Significant height of total swell	m
Significant height of wind waves	m
Significant wave height of first swell partition	m
Significant wave height of second swell partition	m
Significant wave height of third swell partition	m
Skin reservoir content	m of water equivalent
Skin temperature	K
Slope of sub-gridscale orography	Dimensionless
Snow albedo	Dimensionless
Snow density	kg m ⁻³
Snow depth	m of water equivalent
Snow evaporation	m of water equivalent
Snowfall	m of water equivalent
Snowmelt	m of water equivalent
Soil temperature level 1	K
Soil temperature level 2	K
Soil temperature level 3	K
Soil temperature level 4	K
Soil type	Dimensionless
Standard deviation of filtered subgrid orography	m
Standard deviation of orography	Dimensionless

Sub-surface runoff	m
Surface latent heat flux	J m ⁻²
Surface net solar radiation	J m ⁻²
Surface net solar radiation, clear sky	J m ⁻²
Surface net thermal radiation	J m ⁻²
Surface net thermal radiation, clear sky	J m ⁻²
Surface pressure	Pa
Surface runoff	m
Surface sensible heat flux	J m ⁻²
Surface solar radiation downward, clear sky	J m ⁻²
Surface solar radiation downwards	J m ⁻²
Surface thermal radiation downward, clear sky	J m ⁻²
Surface thermal radiation downwards	J m ⁻²
TOA incident solar radiation	J m ⁻²
Temperature of snow layer	K
Top net solar radiation	J m ⁻²
Top net solar radiation, clear sky	J m ⁻²
Top net thermal radiation	J m ⁻²
Top net thermal radiation, clear sky	J m ⁻²
Total cloud cover	Dimensionless
Total column cloud ice water	kg m ⁻²
Total column cloud liquid water	kg m ⁻²
Total column ozone	kg m ⁻²
Total column rain water	kg m ⁻²
Total column snow water	kg m ⁻²
Total column supercooled liquid water	kg m ⁻²
Total column water	kg m ⁻²
Total column water vapour	kg m ⁻²
Total precipitation	m
Total sky direct solar radiation at surface	J m ⁻²
Total totals index	K
Trapping layer base height	m
Trapping layer top height	m
Type of high vegetation	Dimensionless
Type of low vegetation	Dimensionless
U-component stokes drift	m s ⁻¹
UV visible albedo for diffuse radiation	Dimensionless
UV visible albedo for direct radiation	Dimensionless
V-component stokes drift	m s ⁻¹
Vertical integral of divergence of cloud frozen water flux	kg m ⁻² s ⁻¹
Vertical integral of divergence of cloud liquid water flux	kg m ⁻² s ⁻¹
Vertical integral of divergence of geopotential flux	W m ⁻²

Vertical integral of divergence of kinetic energy flux	W m ⁻²
Vertical integral of divergence of mass flux	kg m ⁻² s ⁻¹
Vertical integral of divergence of moisture flux	kg m ⁻² s ⁻¹
Vertical integral of divergence of ozone flux	kg m ⁻² s ⁻¹
Vertical integral of divergence of thermal energy flux	W m ⁻²
Vertical integral of divergence of total energy flux	W m ⁻²
Vertical integral of eastward cloud frozen water flux	kg m ⁻¹ s ⁻¹
Vertical integral of eastward cloud liquid water flux	kg m ⁻¹ s ⁻¹
Vertical integral of eastward geopotential flux	W m ⁻¹
Vertical integral of eastward heat flux	W m ⁻¹
Vertical integral of eastward kinetic energy flux	W m ⁻¹
Vertical integral of eastward mass flux	kg m ⁻¹ s ⁻¹
Vertical integral of eastward ozone flux	kg m ⁻¹ s ⁻¹
Vertical integral of eastward total energy flux	W m ⁻¹
Vertical integral of eastward water vapour flux	kg m ⁻¹ s ⁻¹
Vertical integral of energy conversion	W m ⁻²
Vertical integral of kinetic energy	J m ⁻²
Vertical integral of mass of atmosphere	kg m ⁻²
Vertical integral of mass tendency	kg m ⁻² s ⁻¹
Vertical integral of northward cloud frozen water flux	kg m ⁻¹ s ⁻¹
Vertical integral of northward cloud liquid water flux	kg m ⁻¹ s ⁻¹
Vertical integral of northward geopotential flux	W m ⁻¹
Vertical integral of northward heat flux	W m ⁻¹
Vertical integral of northward kinetic energy flux	W m ⁻¹
Vertical integral of northward mass flux	kg m ⁻¹ s ⁻¹
Vertical integral of northward ozone flux	kg m ⁻¹ s ⁻¹
Vertical integral of northward total energy flux	W m ⁻¹
Vertical integral of northward water vapour flux	kg m ⁻¹ s ⁻¹
Vertical integral of potential and internal energy	J m ⁻²

Vertical integral of potential, internal and latent energy	J m ⁻²
Vertical integral of temperature	K kg m ⁻²
Vertical integral of thermal energy	J m ⁻²
Vertical integral of total energy	J m ⁻²
Vertically integrated moisture divergence	kg m ⁻²
Volumetric soil water layer 1	m ³ m ⁻³
Volumetric soil water layer 2	m ³ m ⁻³
Volumetric soil water layer 3	m ³ m ⁻³
Volumetric soil water layer 4	m ³ m ⁻³
Wave spectral directional width	Dimensionless
Wave spectral directional width for swell	Dimensionless
Wave spectral directional width for wind waves	Dimensionless
Wave spectral kurtosis	Dimensionless
Wave spectral peakedness	Dimensionless
Wave spectral skewness	Dimensionless
Zero degree level	m

Прогнозы состояния атмосферы

Предоставляет прогнозы данные состояния атмосферы. Прогнозы включают более 50 химических веществ (например, озон, двуокись азота, двуокись углерода) и семь различных типов аэрозолей (пустынная пыль, морская соль, органические вещества, черный углерод, сульфаты, нитраты и аэрозоли аммония). Кроме того, доступны несколько метеорологических переменных.

Технические характеристики модели

Data type	Gridded
Horizontal coverage	Global
Horizontal resolution	0.4°x0.4°
Vertical coverage	Surface, total column, model levels and pressure levels.
Vertical resolution	60 model levels before July 7 2019 00UTC, then 137 model levels. Pressure levels: 1000, 950, 925, 900, 850, 800, 700, 600, 500, 400, 300, 250, 200, 150, 100, 70, 50, 30, 20, 10, 7, 5, 3, 2, 1 hPa
Temporal coverage	2015 to present
Temporal resolution	1-hourly (single-level), 3-hourly (multi-level)
File format	GRIB (optional conversion to netCDF)
Versions	Only one version, but with occasional model upgrades
Update frequency	New 00UTC and 12UTC forecasts added each day. Model upgrades made approximately once a year

Описание параметров

Name	Units
10m u-component of wind	m s-1
10m v-component of wind	m s-1
10m wind gust in the last 3 hours	m s-1
2m dewpoint temperature	K
2m temperature	K
Acetone	kg kg-1
Acetone product	kg kg-1
Aerosol extinction coefficient at 1064 nm	m-1
Aerosol extinction coefficient at 355 nm	m-1
Aerosol extinction coefficient at 532 nm	m-1
Aldehydes	kg kg-1
Amine	kg kg-1
Ammonia	kg kg-1
Ammonium	kg kg-1
Ammonium aerosol mass mixing ratio	kg kg-1
Ammonium aerosol optical depth at 550 nm	dimensionless
Asymmetry factor at 1020 nm	dimensionless
Asymmetry factor at 1064 nm	dimensionless
Asymmetry factor at 1240 nm	dimensionless

Asymmetry factor at 1640 nm	dimensionless
Asymmetry factor at 2130 nm	dimensionless
Asymmetry factor at 340 nm	dimensionless
Asymmetry factor at 355 nm	dimensionless
Asymmetry factor at 380 nm	dimensionless
Asymmetry factor at 400 nm	dimensionless
Asymmetry factor at 440 nm	dimensionless
Asymmetry factor at 469 nm	dimensionless
Asymmetry factor at 500 nm	dimensionless
Asymmetry factor at 532 nm	dimensionless
Asymmetry factor at 550 nm	dimensionless
Asymmetry factor at 645 nm	dimensionless
Asymmetry factor at 670 nm	dimensionless
Asymmetry factor at 800 nm	dimensionless
Asymmetry factor at 858 nm	dimensionless
Asymmetry factor at 865 nm	dimensionless
Attenuated backscatter due to aerosol at 1064 nm (from ground)	$m^{-1} sr^{-1}$
Attenuated backscatter due to aerosol at 1064 nm (from top of atmosphere)	$m^{-1} sr^{-1}$
Attenuated backscatter due to aerosol at 355 nm (from ground)	$m^{-1} sr^{-1}$
Attenuated backscatter due to aerosol at 355 nm (from top of atmosphere)	$m^{-1} sr^{-1}$
Attenuated backscatter due to aerosol at 532 nm (from ground)	$m^{-1} sr^{-1}$
Attenuated backscatter due to aerosol at 532 nm (from top of atmosphere)	$m^{-1} sr^{-1}$
Black carbon aerosol optical depth at 550 nm	dimensionless
Boundary layer height	m
Carbon monoxide	kg kg ⁻¹
Clear sky surface photosynthetically active radiation	J m ⁻²
Clear-sky direct solar radiation at surface	J m ⁻²
Cloud base height	m
Convective available potential energy	J kg ⁻¹
Convective inhibition	J kg ⁻¹
Convective precipitation	m
Dimethyl sulfide	kg kg ⁻¹
Dinitrogen pentoxide	kg kg ⁻¹
Direct solar radiation	J m ⁻²
Downward UV radiation at the surface	J m ⁻²
Dry deposition of ammonium aerosol	kg m ⁻² s ⁻¹

Dry deposition of coarse-mode nitrate aerosol	kg m ⁻² s ⁻¹
Dry deposition of dust aerosol (0.03 - 0.55 μm)	kg m ⁻² s ⁻¹
Dry deposition of dust aerosol (0.55 - 9 μm)	kg m ⁻² s ⁻¹
Dry deposition of dust aerosol (9 - 20 μm)	kg m ⁻² s ⁻¹
Dry deposition of fine-mode nitrate aerosol	kg m ⁻² s ⁻¹
Dry deposition of hydrophilic black carbon aerosol	kg m ⁻² s ⁻¹
Dry deposition of hydrophilic organic matter aerosol	kg m ⁻² s ⁻¹
Dry deposition of hydrophobic black carbon aerosol	kg m ⁻² s ⁻¹
Dry deposition of hydrophobic organic matter aerosol	kg m ⁻² s ⁻¹
Dry deposition of sea salt aerosol (0.03 - 0.5 μm)	kg m ⁻² s ⁻¹
Dry deposition of sea salt aerosol (0.5 - 5 μm)	kg m ⁻² s ⁻¹
Dry deposition of sea salt aerosol (5 - 20 μm)	kg m ⁻² s ⁻¹
Dry deposition of sulphate aerosol	kg m ⁻² s ⁻¹
Dust aerosol (0.03 - 0.55 μm) mixing ratio	kg kg ⁻¹
Dust aerosol (0.03 - 0.55 μm) optical depth at 550 nm	dimensionless
Dust aerosol (0.55 - 0.9 μm) mixing ratio	kg kg ⁻¹
Dust aerosol (0.55 - 9 μm) optical depth at 550 nm	dimensionless
Dust aerosol (0.9 - 20 μm) mixing ratio	kg kg ⁻¹
Dust aerosol (9 - 20 μm) optical depth at 550 nm	dimensionless
Dust aerosol optical depth at 550 nm	dimensionless
Ethane	kg kg ⁻¹
Ethanol	kg kg ⁻¹
Ethene	kg kg ⁻¹
Evaporation	m of water equivalent
Forecast albedo	(0 - 1)
Formaldehyde	kg kg ⁻¹
Formic acid	kg kg ⁻¹
Fraction of cloud cover	(0 - 1)
Friction velocity	m s ⁻¹
Geopotential	m ² s ⁻²
Height of convective cloud top	m
High cloud cover	(0 - 1)
Hydrogen peroxide	kg kg ⁻¹
Hydroperoxy radical	kg kg ⁻¹
Hydrophilic black carbon aerosol mixing ratio	kg kg ⁻¹
Hydrophilic black carbon aerosol optical depth at 550 nm	dimensionless
Hydrophilic organic matter aerosol mixing ratio	kg kg ⁻¹
Hydrophilic organic matter aerosol optical depth at 550 nm	dimensionless

Hydrophobic black carbon aerosol mixing ratio	kg kg ⁻¹
Hydrophobic black carbon aerosol optical depth at 550 nm	dimensionless
Hydrophobic organic matter aerosol mixing ratio	kg kg ⁻¹
Hydrophobic organic matter aerosol optical depth at 550 nm	dimensionless
Hydroxyl radical	kg kg ⁻¹
Isoprene	kg kg ⁻¹
Lake cover	(0 - 1)
Land-sea mask	(0 - 1)
Large-scale precipitation	m
Lead	kg kg ⁻¹
Leaf area index, high vegetation	m ² m ⁻²
Leaf area index, low vegetation	m ² m ⁻²
Low cloud cover	(0 - 1)
Mean sea level pressure	Pa
Medium cloud cover	(0 - 1)
Methacrolein MVK	kg kg ⁻¹
Methacrylic acid	kg kg ⁻¹
Methane	kg kg ⁻¹
Methane sulfonic acid	kg kg ⁻¹
Methanol	kg kg ⁻¹
Methyl glyoxal	kg kg ⁻¹
Methyl peroxide	kg kg ⁻¹
Methylperoxy radical	kg kg ⁻¹
Nitrate	kg kg ⁻¹
Nitrate aerosol optical depth at 550 nm	dimensionless
Nitrate coarse mode aerosol mass mixing ratio	kg kg ⁻¹
Nitrate coarse-mode aerosol optical depth at 550 nm	dimensionless
Nitrate fine mode aerosol mass mixing ratio	kg kg ⁻¹
Nitrate fine-mode aerosol optical depth at 550 nm	dimensionless
Nitrate radical	kg kg ⁻¹
Nitric acid	kg kg ⁻¹
Nitrogen dioxide	kg kg ⁻¹
Nitrogen monoxide	kg kg ⁻¹
Olefins	kg kg ⁻¹
Organic ethers	kg kg ⁻¹
Organic matter aerosol optical depth at 550 nm	dimensionless
Organic nitrates	kg kg ⁻¹
Ozone	kg kg ⁻¹

Paraffins	kg kg-1
Particulate matter d < 1 µm (PM1)	kg m-3
Particulate matter d < 10 µm (PM10)	kg m-3
Particulate matter d < 2.5 µm (PM2.5)	kg m-3
Pernitric acid	kg kg-1
Peroxides	kg kg-1
Peroxy acetyl radical	kg kg-1
Peroxyacetyl nitrate	kg kg-1
Photosynthetically active radiation at the surface	J m-2
Potential evaporation	m
Potential vorticity	K m2 kg-1 s-1
Precipitation type	dimensionless
Propane	kg kg-1
Propene	kg kg-1
Radon	kg kg-1
Relative humidity	%
Sea salt aerosol (0.03 - 0.5 µm) mixing ratio	kg kg-1
Sea salt aerosol (0.03 - 0.5 µm) optical depth at 550 nm	dimensionless
Sea salt aerosol (0.5 - 5 µm) mixing ratio	kg kg-1
Sea salt aerosol (0.5 - 5 µm) optical depth at 550 nm	dimensionless
Sea salt aerosol (5 - 20 µm) mixing ratio	kg kg-1
Sea salt aerosol (5 - 20 µm) optical depth at 550 nm	dimensionless
Sea salt aerosol optical depth at 550 nm	dimensionless
Sea surface temperature	K
Sea-ice cover	(0 - 1)
Sedimentation of ammonium aerosol	kg m-2 s-1
Sedimentation of coarse-mode nitrate aerosol	kg m-2 s-1
Sedimentation of dust aerosol (0.03 - 0.55 µm)	kg m-2 s-1
Sedimentation of dust aerosol (0.55 - 9 µm)	kg m-2 s-1
Sedimentation of dust aerosol (9 - 20 µm)	kg m-2 s-1
Sedimentation of fine-mode nitrate aerosol	kg m-2 s-1
Sedimentation of hydrophilic black carbon aerosol	kg m-2 s-1
Sedimentation of hydrophilic organic matter aerosol	kg m-2 s-1
Sedimentation of hydrophobic black carbon aerosol	kg m-2 s-1
Sedimentation of hydrophobic organic matter aerosol	kg m-2 s-1
Sedimentation of sea salt aerosol (0.03 - 0.5 µm)	kg m-2 s-1
Sedimentation of sea salt aerosol (0.5 - 5 µm)	kg m-2 s-1
Sedimentation of sea salt aerosol (5 - 20 µm)	kg m-2 s-1

Sedimentation of sulphate aerosol	kg m ⁻² s ⁻¹
Single scattering albedo at 1020 nm	(0 - 1)
Single scattering albedo at 1064 nm	(0 - 1)
Single scattering albedo at 1240 nm	(0 - 1)
Single scattering albedo at 1640 nm	(0 - 1)
Single scattering albedo at 2130 nm	(0 - 1)
Single scattering albedo at 340 nm	(0 - 1)
Single scattering albedo at 355 nm	(0 - 1)
Single scattering albedo at 380 nm	(0 - 1)
Single scattering albedo at 400 nm	(0 - 1)
Single scattering albedo at 440 nm	(0 - 1)
Single scattering albedo at 469 nm	(0 - 1)
Single scattering albedo at 500 nm	(0 - 1)
Single scattering albedo at 532 nm	(0 - 1)
Single scattering albedo at 550 nm	(0 - 1)
Single scattering albedo at 645 nm	(0 - 1)
Single scattering albedo at 670 nm	(0 - 1)
Single scattering albedo at 800 nm	(0 - 1)
Single scattering albedo at 858 nm	(0 - 1)
Single scattering albedo at 865 nm	(0 - 1)
Skin reservoir content	m of water equivalent
Skin temperature	K
Snow albedo	(0 - 1)
Snow depth	m of water equivalent
Source/gain of ammonium aerosol	kg m ⁻² s ⁻¹
Source/gain of coarse-mode nitrate aerosol	kg m ⁻² s ⁻¹
Source/gain of dust aerosol (0.03 - 0.55 µm)	kg m ⁻² s ⁻¹
Source/gain of dust aerosol (0.55 - 9 µm)	kg m ⁻² s ⁻¹
Source/gain of dust aerosol (9 - 20 µm)	kg m ⁻² s ⁻¹
Source/gain of fine-mode nitrate aerosol	kg m ⁻² s ⁻¹
Source/gain of hydrophilic black carbon aerosol	kg m ⁻² s ⁻¹
Source/gain of hydrophilic organic matter aerosol	kg m ⁻² s ⁻¹
Source/gain of hydrophobic black carbon aerosol	kg m ⁻² s ⁻¹
Source/gain of hydrophobic organic matter aerosol	kg m ⁻² s ⁻¹
Source/gain of sea salt aerosol (0.03 - 0.5 µm)	kg m ⁻² s ⁻¹
Source/gain of sea salt aerosol (0.5 - 5 µm)	kg m ⁻² s ⁻¹
Source/gain of sea salt aerosol (5 - 20 µm)	kg m ⁻² s ⁻¹
Source/gain of sulphate aerosol	kg m ⁻² s ⁻¹

Specific cloud ice water content	kg kg ⁻¹
Specific cloud liquid water content	kg kg ⁻¹
Specific humidity	kg kg ⁻¹
Specific rain water content	kg kg ⁻¹
Specific snow water content	kg kg ⁻¹
Stratospheric ozone tracer	kg kg ⁻¹
Sulphate aerosol mixing ratio	kg kg ⁻¹
Sulphate aerosol optical depth at 550 nm	dimensionless
Sulphur dioxide	kg kg ⁻¹
Sunshine duration	s
Surface Geopotential	m ² s ⁻²
Surface latent heat flux	J m ⁻²
Surface net solar radiation	J m ⁻²
Surface net solar radiation, clear sky	J m ⁻²
Surface net thermal radiation	J m ⁻²
Surface net thermal radiation, clear sky	J m ⁻²
Surface pressure	Pa
Surface sensible heat flux	J m ⁻²
Surface solar radiation downward, clear sky	J m ⁻²
Surface solar radiation downwards	J m ⁻²
Surface thermal radiation downward, clear sky	J m ⁻²
Surface thermal radiation downwards	J m ⁻²
TOA incident solar radiation	J m ⁻²
Temperature	K
Terpenes	kg kg ⁻¹
Top net solar radiation	J m ⁻²
Top net solar radiation, clear sky	J m ⁻²
Top net thermal radiation	J m ⁻²
Top net thermal radiation, clear sky	J m ⁻²
Total absorption aerosol optical depth at 1020 nm	dimensionless
Total absorption aerosol optical depth at 1064 nm	dimensionless
Total absorption aerosol optical depth at 1240 nm	dimensionless
Total absorption aerosol optical depth at 1640 nm	dimensionless
Total absorption aerosol optical depth at 2130 nm	dimensionless
Total absorption aerosol optical depth at 340 nm	dimensionless
Total absorption aerosol optical depth at 355 nm	dimensionless
Total absorption aerosol optical depth at 380 nm	dimensionless
Total absorption aerosol optical depth at 400 nm	dimensionless

Total absorption aerosol optical depth at 440 nm	dimensionless
Total absorption aerosol optical depth at 469 nm	dimensionless
Total absorption aerosol optical depth at 500 nm	dimensionless
Total absorption aerosol optical depth at 532 nm	dimensionless
Total absorption aerosol optical depth at 550 nm	dimensionless
Total absorption aerosol optical depth at 645 nm	dimensionless
Total absorption aerosol optical depth at 670 nm	dimensionless
Total absorption aerosol optical depth at 800 nm	dimensionless
Total absorption aerosol optical depth at 858 nm	dimensionless
Total absorption aerosol optical depth at 865 nm	dimensionless
Total aerosol optical depth at 1020 nm	dimensionless
Total aerosol optical depth at 1064 nm	dimensionless
Total aerosol optical depth at 1240 nm	dimensionless
Total aerosol optical depth at 1640 nm	dimensionless
Total aerosol optical depth at 2130 nm	dimensionless
Total aerosol optical depth at 340 nm	dimensionless
Total aerosol optical depth at 355 nm	dimensionless
Total aerosol optical depth at 380 nm	dimensionless
Total aerosol optical depth at 400 nm	dimensionless
Total aerosol optical depth at 440 nm	dimensionless
Total aerosol optical depth at 469 nm	dimensionless
Total aerosol optical depth at 500 nm	dimensionless
Total aerosol optical depth at 532 nm	dimensionless
Total aerosol optical depth at 550 nm	dimensionless
Total aerosol optical depth at 645 nm	dimensionless
Total aerosol optical depth at 670 nm	dimensionless
Total aerosol optical depth at 800 nm	dimensionless
Total aerosol optical depth at 858 nm	dimensionless
Total aerosol optical depth at 865 nm	dimensionless
Total cloud cover	(0 - 1)
Total column HYPROPO2	kg m ⁻²
Total column IC3H7O2	kg m ⁻²
Total column NO to NO2 operator	kg m ⁻²
Total column NO to alkyl nitrate operator	kg m ⁻²
Total column acetone	kg m ⁻²
Total column acetone product	kg m ⁻²
Total column aldehydes	kg m ⁻²
Total column amine	kg m ⁻²

Total column ammonia	kg m ⁻²
Total column ammonium	kg m ⁻²
Total column carbon monoxide	kg m ⁻²
Total column cloud ice water	kg m ⁻²
Total column cloud liquid water	kg m ⁻²
Total column dimethyl sulfide	kg m ⁻²
Total column dinitrogen pentoxide	kg m ⁻²
Total column ethane	kg m ⁻²
Total column ethanol	kg m ⁻²
Total column ethene	kg m ⁻²
Total column formaldehyde	kg m ⁻²
Total column formic acid	kg m ⁻²
Total column hydrogen peroxide	kg m ⁻²
Total column hydroperoxy radical	kg m ⁻²
Total column hydroxyl radical	kg m ⁻²
Total column isoprene	kg m ⁻²
Total column lead	kg m ⁻²
Total column methacrolein MVK	kg m ⁻²
Total column methacrylic acid	kg m ⁻²
Total column methane	kg m ⁻²
Total column methane sulfonic acid	kg m ⁻²
Total column methanol	kg m ⁻²
Total column methyl glyoxal	kg m ⁻²
Total column methyl peroxide	kg m ⁻²
Total column methylperoxy radical	kg m ⁻²
Total column nitrate	kg m ⁻²
Total column nitrate radical	kg m ⁻²
Total column nitric acid	kg m ⁻²
Total column nitrogen dioxide	kg m ⁻²
Total column nitrogen monoxide	kg m ⁻²
Total column nitrogen oxides transp	kg m ⁻²
Total column olefins	kg m ⁻²
Total column organic ethers	kg m ⁻²
Total column organic nitrates	kg m ⁻²
Total column ozone	kg m ⁻²
Total column paraffins	kg m ⁻²
Total column pernitric acid	kg m ⁻²
Total column peroxides	kg m ⁻²

Total column peroxy acetyl radical	kg m ⁻²
Total column peroxyacetyl nitrate	kg m ⁻²
Total column polar stratospheric cloud	kg m ⁻²
Total column propane	kg m ⁻²
Total column propene	kg m ⁻²
Total column radon	kg m ⁻²
Total column rain water	kg m ⁻²
Total column snow water	kg m ⁻²
Total column stratospheric ozone	kg m ⁻²
Total column sulphur dioxide	kg m ⁻²
Total column supercooled liquid water	kg m ⁻²
Total column terpenes	kg m ⁻²
Total column water	kg m ⁻²
Total column water vapour	kg m ⁻²
Total fine mode (r < 0.5 µm) aerosol optical depth at 1020 nm	dimensionless
Total fine mode (r < 0.5 µm) aerosol optical depth at 1064 nm	dimensionless
Total fine mode (r < 0.5 µm) aerosol optical depth at 1240 nm	dimensionless
Total fine mode (r < 0.5 µm) aerosol optical depth at 1640 nm	dimensionless
Total fine mode (r < 0.5 µm) aerosol optical depth at 2130 nm	dimensionless
Total fine mode (r < 0.5 µm) aerosol optical depth at 340 nm	dimensionless
Total fine mode (r < 0.5 µm) aerosol optical depth at 355 nm	dimensionless
Total fine mode (r < 0.5 µm) aerosol optical depth at 380 nm	dimensionless
Total fine mode (r < 0.5 µm) aerosol optical depth at 400 nm	dimensionless
Total fine mode (r < 0.5 µm) aerosol optical depth at 440 nm	dimensionless
Total fine mode (r < 0.5 µm) aerosol optical depth at 469 nm	dimensionless
Total fine mode (r < 0.5 µm) aerosol optical depth at 500 nm	dimensionless
Total fine mode (r < 0.5 µm) aerosol optical depth at 532 nm	dimensionless
Total fine mode (r < 0.5 µm) aerosol optical depth at 550 nm	dimensionless
Total fine mode (r < 0.5 µm) aerosol optical depth at 645 nm	dimensionless
Total fine mode (r < 0.5 µm) aerosol optical depth at 670 nm	dimensionless
Total fine mode (r < 0.5 µm) aerosol optical depth at 800 nm	dimensionless
Total fine mode (r < 0.5 µm) aerosol optical depth at 858 nm	dimensionless
Total fine mode (r < 0.5 µm) aerosol optical depth at 865 nm	dimensionless
Total precipitation	m
Total sky direct solar radiation at surface	J m ⁻²
U-component of wind	m s ⁻¹
UV biologically effective dose	W m ⁻²
UV biologically effective dose, clear sky	W m ⁻²

V-component of wind	m s ⁻¹
Vertical velocity	Pa s ⁻¹
Vertically integrated mass of ammonium aerosol	kg m ⁻²
Vertically integrated mass of coarse-mode nitrate aerosol	kg m ⁻²
Vertically integrated mass of dust aerosol (0.03 - 0.55 µm)	kg m ⁻²
Vertically integrated mass of dust aerosol (0.55 - 9 µm)	kg m ⁻²
Vertically integrated mass of dust aerosol (9 - 20 µm)	kg m ⁻²
Vertically integrated mass of fine-mode nitrate aerosol	kg m ⁻²
Vertically integrated mass of hydrophilic black carbon aerosol	kg m ⁻²
Vertically integrated mass of hydrophilic organic matter aerosol	kg m ⁻²
Vertically integrated mass of hydrophobic black carbon aerosol	kg m ⁻²
Vertically integrated mass of hydrophobic organic matter aerosol	kg m ⁻²
Vertically integrated mass of sea salt aerosol (0.03 - 0.5 µm)	kg m ⁻²
Vertically integrated mass of sea salt aerosol (0.5 - 5 µm)	kg m ⁻²
Vertically integrated mass of sea salt aerosol (5 - 20 µm)	kg m ⁻²
Vertically integrated mass of sulphate aerosol	kg m ⁻²
Vertically integrated moisture divergence	kg m ⁻²
Visibility	m
Wet deposition of ammonium aerosol by convective precipitation	kg m ⁻² s ⁻¹
Wet deposition of ammonium aerosol by large-scale precipitation	kg m ⁻² s ⁻¹
Wet deposition of coarse-mode nitrate aerosol by convective precipitation	kg m ⁻² s ⁻¹
Wet deposition of coarse-mode nitrate aerosol by large-scale precipitation	kg m ⁻² s ⁻¹
Wet deposition of dust aerosol (0.03 - 0.55 µm) by convective precipitation	kg m ⁻² s ⁻¹
Wet deposition of dust aerosol (0.03 - 0.55 µm) by large-scale precipitation	kg m ⁻² s ⁻¹
Wet deposition of dust aerosol (0.55 - 9 µm) by convective precipitation	kg m ⁻² s ⁻¹
Wet deposition of dust aerosol (0.55 - 9 µm) by large-scale precipitation	kg m ⁻² s ⁻¹
Wet deposition of dust aerosol (9 - 20 µm) by convective precipitation	kg m ⁻² s ⁻¹
Wet deposition of dust aerosol (9 - 20 µm) by large-scale precipitation	kg m ⁻² s ⁻¹
Wet deposition of fine-mode nitrate aerosol by convective precipitation	kg m ⁻² s ⁻¹
Wet deposition of fine-mode nitrate aerosol by large-scale precipitation	kg m ⁻² s ⁻¹
Wet deposition of hydrophilic black carbon aerosol by convective precipitation	kg m ⁻² s ⁻¹
Wet deposition of hydrophilic black carbon aerosol by large-scale precipitation	kg m ⁻² s ⁻¹

Wet deposition of hydrophilic organic matter aerosol by convective precipitation	kg m ⁻² s ⁻¹
Wet deposition of hydrophilic organic matter aerosol by large-scale precipitation	kg m ⁻² s ⁻¹
Wet deposition of hydrophobic black carbon aerosol by convective precipitation	kg m ⁻² s ⁻¹
Wet deposition of hydrophobic black carbon aerosol by large-scale precipitation	kg m ⁻² s ⁻¹
Wet deposition of hydrophobic organic matter aerosol by convective precipitation	kg m ⁻² s ⁻¹
Wet deposition of hydrophobic organic matter aerosol by large-scale precipitation	kg m ⁻² s ⁻¹
Wet deposition of sea salt aerosol (0.03 - 0.5 µm) by convective precipitation	kg m ⁻² s ⁻¹
Wet deposition of sea salt aerosol (0.03 - 0.5 µm) by large-scale precipitation	kg m ⁻² s ⁻¹
Wet deposition of sea salt aerosol (0.5 - 5 µm) by convective precipitation	kg m ⁻² s ⁻¹
Wet deposition of sea salt aerosol (0.5 - 5 µm) by large-scale precipitation	kg m ⁻² s ⁻¹
Wet deposition of sea salt aerosol (5 - 20 µm) by convective precipitation	kg m ⁻² s ⁻¹
Wet deposition of sea salt aerosol (5 - 20 µm) by large-scale precipitation	kg m ⁻² s ⁻¹
Wet deposition of sulphate aerosol by convective precipitation	kg m ⁻² s ⁻¹
Wet deposition of sulphate aerosol by large-scale precipitation	kg m ⁻² s ⁻¹

Долгосрочные прогнозы

Долгосрочные прогнозы климата до 9 месяцев вперед.

Описание параметров (Flux)

Параметр
Momentum flux, u component [surface, 0] [uflx] [N m ^{**} -2]
Momentum flux, v component [surface, 0] [vflx] [N m ^{**} -2]
Sensible heat net flux [surface, 0] [shtfl] [W m ^{**} -2]
Latent heat net flux [surface, 0] [lhtfl] [W m ^{**} -2]
Temperature [surface, 0] [t] [K]
Volumetric soil moisture content [depthBelowLandLayer, 0] [soilw] [Proportion]
Volumetric soil moisture content [depthBelowLandLayer, 0] [soilw] [Proportion]
Temperature [depthBelowLandLayer, 0] [t] [K]
Temperature [depthBelowLandLayer, 0] [t] [K]
Water equivalent of accumulated snow depth (deprecated) [surface, 0] [sdwe] [kg m ^{**} -2]
Downward long-wave radiation flux [surface, 0] [dlwrf] [W m ^{**} -2]
Upward long-wave radiation flux [surface, 0] [ulwrf] [W m ^{**} -2]
Upward long-wave radiation flux [nominalTop, 0] [ulwrf] [W m ^{**} -2]
Upward short-wave radiation flux [nominalTop, 0] [uswrf] [W m ^{**} -2]
Upward short-wave radiation flux [surface, 0] [uswrf] [W m ^{**} -2]
Downward short-wave radiation flux [surface, 0] [dswrf] [W m ^{**} -2]
UV-B downward solar flux [surface, 0] [duvb] [W m ^{**} -2]
Clear sky UV-B downward solar flux [surface, 0] [cduvb] [W m ^{**} -2]
Total Cloud Cover [highCloudLayer, 0] [tcc] [%]
Pressure [highCloudTop, 0] [pres] [Pa]
Pressure [highCloudBottom, 0] [pres] [Pa]
Temperature [highCloudTop, 0] [t] [K]
Total Cloud Cover [middleCloudLayer, 0] [tcc] [%]
Pressure [middleCloudTop, 0] [pres] [Pa]
Pressure [middleCloudBottom, 0] [pres] [Pa]
Temperature [middleCloudTop, 0] [t] [K]
Total Cloud Cover [lowCloudLayer, 0] [tcc] [%]
Pressure [lowCloudTop, 0] [pres] [Pa]
Pressure [lowCloudBottom, 0] [pres] [Pa]
Temperature [lowCloudTop, 0] [t] [K]
Precipitation rate [surface, 0] [prate] [kg m ^{**} -2 s ^{**} -1]
Convective precipitation rate [surface, 0] [cprat] [kg m ^{**} -2 s ^{**} -1]
Ground heat flux [surface, 0] [gflux] [W m ^{**} -2]
Land-sea mask [surface, 0] [lsm] [(0 – 1)]
Sea ice area fraction [surface, 0] [ci] [(0 – 1)]
10 metre U wind component [heightAboveGround, 10] [10u] [m s ^{**} -1]
10 metre V wind component [heightAboveGround, 10] [10v] [m s ^{**} -1]
2 metre temperature [heightAboveGround, 2] [2t] [K]
2 metre specific humidity [heightAboveGround, 2] [2sh] [kg kg ^{**} -1]

Surface pressure [surface, 0] [sp] [Pa]
Maximum temperature [heightAboveGround, 2] [tmax] [K]
Minimum temperature [heightAboveGround, 2] [tmin] [K]
Maximum specific humidity at 2m [heightAboveGround, 2] [qmax] [kg kg ^{**} -1]
Minimum specific humidity at 2m [heightAboveGround, 2] [qmin] [kg kg ^{**} -1]
Water runoff [surface, 0] [watr] [kg m ^{**} -2]
Potential evaporation rate [surface, 0] [pevpr] [W m ^{**} -2]
Cloud work function [atmosphereSingleLayer, 0] [cwork] [J kg ^{**} -1]
Zonal flux of gravity wave stress [surface, 0] [u-gwd] [N m ^{**} -2]
Meridional flux of gravity wave stress [surface, 0] [v-gwd] [N m ^{**} -2]
Planetary boundary layer height [surface, 0] [hpb] [m]
Precipitable water [atmosphereSingleLayer, 0] [pwat] [kg m ^{**} -2]
Albedo [surface, 0] [al] [%]
Total Cloud Cover [atmosphereSingleLayer, 0] [tcc] [%]
Total Cloud Cover [convectiveCloudLayer, 0] [tcc] [%]
Total Cloud Cover [boundaryLayerCloudLayer, 0] [tcc] [%]
Ice thickness [surface, 0] [icetk] [m]
Volumetric soil moisture content [depthBelowLandLayer, 0] [soilw] [Proportion]
Volumetric soil moisture content [depthBelowLandLayer, 1] [soilw] [Proportion]
Temperature [depthBelowLandLayer, 0] [t] [K]
Temperature [depthBelowLandLayer, 1] [t] [K]
Liquid volumetric soil moisture (non-frozen) [depthBelowLandLayer, 0] [soill] [Proportion]
Liquid volumetric soil moisture (non-frozen) [depthBelowLandLayer, 0] [soill] [Proportion]
Liquid volumetric soil moisture (non-frozen) [depthBelowLandLayer, 0] [soill] [Proportion]
Liquid volumetric soil moisture (non-frozen) [depthBelowLandLayer, 1] [soill] [Proportion]
Snow depth [surface, 0] [sde] [m]
Plant canopy surface water [surface, 0] [cnwat] [kg m ^{**} -2]
Surface roughness [surface, 0] [sr] [m]
Vegetation [surface, 0] [veg] [%]
Vegetation Type [surface, 0] [vgtyp] [Integer(0-13)]
Soil type [surface, 0] [slt] [~]
Surface Slope Type [surface, 0] [sltyp] [Index]
Frictional velocity [surface, 0] [fricv] [m s ^{**} -1]
Orography [surface, 0] [orog] [m]
Categorical rain [surface, 0] [crain] [(Code table 4.222)]
Exchange coefficient [surface, 0] [sfexc] [kg m ^{**} -2 s ^{**} -1]
Aerodynamic conductance [surface, 0] [acond] [m s ^{**} -1]
Storm surface runoff [surface, 0] [ssrun] [kg m ^{**} -2]
Temperature [hybrid, 1] [t] [K]
Specific humidity [hybrid, 1] [q] [kg kg ^{**} -1]
U component of wind [hybrid, 1] [u] [m s ^{**} -1]
V component of wind [hybrid, 1] [v] [m s ^{**} -1]
Geopotential Height [hybrid, 1] [gh] [gpm]
Direct evaporation from bare soil [surface, 0] [evbs] [W m ^{**} -2]

Canopy water evaporation [surface, 0] [evcw] [W m ^{**} -2]
Transpiration [surface, 0] [trans] [W m ^{**} -2]
Sublimation (evaporation from snow) [surface, 0] [sbsno] [W m ^{**} -2]
Snow cover [surface, 0] [snowc] [%]
Soil moisture content [depthBelowLandLayer, 0] [ssw] [kg m ^{**} -2]
Downward short-wave radiation flux [nominalTop, 0] [dswrf] [W m ^{**} -2]
Clear Sky Upward Long Wave Flux [nominalTop, 0] [csulf] [W m ^{**} -2]
Clear Sky Upward Solar Flux [nominalTop, 0] [csusf] [W m ^{**} -2]
Clear Sky Downward Long Wave Flux [surface, 0] [csdlf] [W m ^{**} -2]
Clear Sky Upward Solar Flux [surface, 0] [csusf] [W m ^{**} -2]
Clear Sky Downward Solar Flux [surface, 0] [csdsf] [W m ^{**} -2]
Clear Sky Upward Long Wave Flux [surface, 0] [csulf] [W m ^{**} -2]
Snow phase change heat flux [surface, 0] [snohf] [W m ^{**} -2]
Visible Beam Downward Solar Flux [surface, 0] [vbdsf] [W m ^{**} -2]
Visible Diffuse Downward Solar Flux [surface, 0] [vddsfc] [W m ^{**} -2]
Near IR Beam Downward Solar Flux [surface, 0] [nbdsf] [W m ^{**} -2]
Near IR Diffuse Downward Solar Flux [surface, 0] [nddsfc] [W m ^{**} -2]
Snowfall rate water equivalent [surface, 0] [srweq] [kg m ^{**} -2 s ^{**} -1]

Описание параметров (Pressure)

Mean sea level pressure [meanSea, 0] [msl] [Pa]
Geopotential Height [isobaricInhPa, 1] [gh] [gpm]
Temperature [isobaricInhPa, 1] [t] [K]
Relative humidity [isobaricInhPa, 1] [r] [%]
Specific humidity [isobaricInhPa, 1] [q] [kg kg ^{**} -1]
Vertical velocity [isobaricInhPa, 1] [w] [Pa s ^{**} -1]
U component of wind [isobaricInhPa, 1] [u] [m s ^{**} -1]
V component of wind [isobaricInhPa, 1] [v] [m s ^{**} -1]
Absolute vorticity [isobaricInhPa, 1] [absv] [s ^{**} -1]
Ozone mixing ratio [isobaricInhPa, 1] [o3mr] [kg kg ^{**} -1]
Geopotential Height [isobaricInhPa, 2] [gh] [gpm]
Temperature [isobaricInhPa, 2] [t] [K]
Relative humidity [isobaricInhPa, 2] [r] [%]
Specific humidity [isobaricInhPa, 2] [q] [kg kg ^{**} -1]
Vertical velocity [isobaricInhPa, 2] [w] [Pa s ^{**} -1]
U component of wind [isobaricInhPa, 2] [u] [m s ^{**} -1]
V component of wind [isobaricInhPa, 2] [v] [m s ^{**} -1]
Absolute vorticity [isobaricInhPa, 2] [absv] [s ^{**} -1]
Ozone mixing ratio [isobaricInhPa, 2] [o3mr] [kg kg ^{**} -1]
Geopotential Height [isobaricInhPa, 3] [gh] [gpm]
Temperature [isobaricInhPa, 3] [t] [K]
Relative humidity [isobaricInhPa, 3] [r] [%]
Specific humidity [isobaricInhPa, 3] [q] [kg kg ^{**} -1]
Vertical velocity [isobaricInhPa, 3] [w] [Pa s ^{**} -1]

U component of wind [isobaricInhPa, 3] [u] [m s**-1]
V component of wind [isobaricInhPa, 3] [v] [m s**-1]
Absolute vorticity [isobaricInhPa, 3] [absv] [s**-1]
Ozone mixing ratio [isobaricInhPa, 3] [o3mr] [kg kg**-1]
Geopotential Height [isobaricInhPa, 5] [gh] [gpm]
Temperature [isobaricInhPa, 5] [t] [K]
Relative humidity [isobaricInhPa, 5] [r] [%]
Specific humidity [isobaricInhPa, 5] [q] [kg kg**-1]
Vertical velocity [isobaricInhPa, 5] [w] [Pa s**-1]
U component of wind [isobaricInhPa, 5] [u] [m s**-1]
V component of wind [isobaricInhPa, 5] [v] [m s**-1]
Absolute vorticity [isobaricInhPa, 5] [absv] [s**-1]
Ozone mixing ratio [isobaricInhPa, 5] [o3mr] [kg kg**-1]
Geopotential Height [isobaricInhPa, 7] [gh] [gpm]
Temperature [isobaricInhPa, 7] [t] [K]
Relative humidity [isobaricInhPa, 7] [r] [%]
Specific humidity [isobaricInhPa, 7] [q] [kg kg**-1]
Vertical velocity [isobaricInhPa, 7] [w] [Pa s**-1]
U component of wind [isobaricInhPa, 7] [u] [m s**-1]
V component of wind [isobaricInhPa, 7] [v] [m s**-1]
Absolute vorticity [isobaricInhPa, 7] [absv] [s**-1]
Ozone mixing ratio [isobaricInhPa, 7] [o3mr] [kg kg**-1]
Geopotential Height [isobaricInhPa, 10] [gh] [gpm]
Temperature [isobaricInhPa, 10] [t] [K]
Relative humidity [isobaricInhPa, 10] [r] [%]
Specific humidity [isobaricInhPa, 10] [q] [kg kg**-1]
Vertical velocity [isobaricInhPa, 10] [w] [Pa s**-1]
U component of wind [isobaricInhPa, 10] [u] [m s**-1]
V component of wind [isobaricInhPa, 10] [v] [m s**-1]
Absolute vorticity [isobaricInhPa, 10] [absv] [s**-1]
Cloud mixing ratio [isobaricInhPa, 10] [clwmr] [kg kg**-1]
Ozone mixing ratio [isobaricInhPa, 10] [o3mr] [kg kg**-1]
Geopotential Height [isobaricInhPa, 20] [gh] [gpm]
Temperature [isobaricInhPa, 20] [t] [K]
Relative humidity [isobaricInhPa, 20] [r] [%]
Specific humidity [isobaricInhPa, 20] [q] [kg kg**-1]
Vertical velocity [isobaricInhPa, 20] [w] [Pa s**-1]
U component of wind [isobaricInhPa, 20] [u] [m s**-1]
V component of wind [isobaricInhPa, 20] [v] [m s**-1]
Absolute vorticity [isobaricInhPa, 20] [absv] [s**-1]
Cloud mixing ratio [isobaricInhPa, 20] [clwmr] [kg kg**-1]
Ozone mixing ratio [isobaricInhPa, 20] [o3mr] [kg kg**-1]
Geopotential Height [isobaricInhPa, 30] [gh] [gpm]
Temperature [isobaricInhPa, 30] [t] [K]

Relative humidity [isobaricInhPa, 30] [r] [%]
Specific humidity [isobaricInhPa, 30] [q] [kg kg**-1]
Vertical velocity [isobaricInhPa, 30] [w] [Pa s**-1]
U component of wind [isobaricInhPa, 30] [u] [m s**-1]
V component of wind [isobaricInhPa, 30] [v] [m s**-1]
Absolute vorticity [isobaricInhPa, 30] [absv] [s**-1]
Cloud mixing ratio [isobaricInhPa, 30] [clwmr] [kg kg**-1]
Ozone mixing ratio [isobaricInhPa, 30] [o3mr] [kg kg**-1]
Geopotential Height [isobaricInhPa, 50] [gh] [gpm]
Temperature [isobaricInhPa, 50] [t] [K]
Relative humidity [isobaricInhPa, 50] [r] [%]
Specific humidity [isobaricInhPa, 50] [q] [kg kg**-1]
Vertical velocity [isobaricInhPa, 50] [w] [Pa s**-1]
U component of wind [isobaricInhPa, 50] [u] [m s**-1]
V component of wind [isobaricInhPa, 50] [v] [m s**-1]
Absolute vorticity [isobaricInhPa, 50] [absv] [s**-1]
Cloud mixing ratio [isobaricInhPa, 50] [clwmr] [kg kg**-1]
Ozone mixing ratio [isobaricInhPa, 50] [o3mr] [kg kg**-1]
Geopotential Height [isobaricInhPa, 70] [gh] [gpm]
Temperature [isobaricInhPa, 70] [t] [K]
Relative humidity [isobaricInhPa, 70] [r] [%]
Specific humidity [isobaricInhPa, 70] [q] [kg kg**-1]
Vertical velocity [isobaricInhPa, 70] [w] [Pa s**-1]
U component of wind [isobaricInhPa, 70] [u] [m s**-1]
V component of wind [isobaricInhPa, 70] [v] [m s**-1]
Absolute vorticity [isobaricInhPa, 70] [absv] [s**-1]
Cloud mixing ratio [isobaricInhPa, 70] [clwmr] [kg kg**-1]
Ozone mixing ratio [isobaricInhPa, 70] [o3mr] [kg kg**-1]
Geopotential Height [isobaricInhPa, 100] [gh] [gpm]
Temperature [isobaricInhPa, 100] [t] [K]
Relative humidity [isobaricInhPa, 100] [r] [%]
Specific humidity [isobaricInhPa, 100] [q] [kg kg**-1]
Vertical velocity [isobaricInhPa, 100] [w] [Pa s**-1]
U component of wind [isobaricInhPa, 100] [u] [m s**-1]
V component of wind [isobaricInhPa, 100] [v] [m s**-1]
Absolute vorticity [isobaricInhPa, 100] [absv] [s**-1]
Cloud mixing ratio [isobaricInhPa, 100] [clwmr] [kg kg**-1]
Ozone mixing ratio [isobaricInhPa, 100] [o3mr] [kg kg**-1]
Geopotential Height [isobaricInhPa, 125] [gh] [gpm]
Temperature [isobaricInhPa, 125] [t] [K]
Relative humidity [isobaricInhPa, 125] [r] [%]
Specific humidity [isobaricInhPa, 125] [q] [kg kg**-1]
Vertical velocity [isobaricInhPa, 125] [w] [Pa s**-1]
U component of wind [isobaricInhPa, 125] [u] [m s**-1]

V component of wind [isobaricInhPa, 125] [v] [m s**-1]
Absolute vorticity [isobaricInhPa, 125] [absv] [s**-1]
Cloud mixing ratio [isobaricInhPa, 125] [clwmr] [kg kg**-1]
Ozone mixing ratio [isobaricInhPa, 125] [o3mr] [kg kg**-1]
Geopotential Height [isobaricInhPa, 150] [gh] [gpm]
Temperature [isobaricInhPa, 150] [t] [K]
Relative humidity [isobaricInhPa, 150] [r] [%]
Specific humidity [isobaricInhPa, 150] [q] [kg kg**-1]
Vertical velocity [isobaricInhPa, 150] [w] [Pa s**-1]
U component of wind [isobaricInhPa, 150] [u] [m s**-1]
V component of wind [isobaricInhPa, 150] [v] [m s**-1]
Absolute vorticity [isobaricInhPa, 150] [absv] [s**-1]
Cloud mixing ratio [isobaricInhPa, 150] [clwmr] [kg kg**-1]
Ozone mixing ratio [isobaricInhPa, 150] [o3mr] [kg kg**-1]
Geopotential Height [isobaricInhPa, 175] [gh] [gpm]
Temperature [isobaricInhPa, 175] [t] [K]
Relative humidity [isobaricInhPa, 175] [r] [%]
Specific humidity [isobaricInhPa, 175] [q] [kg kg**-1]
Vertical velocity [isobaricInhPa, 175] [w] [Pa s**-1]
U component of wind [isobaricInhPa, 175] [u] [m s**-1]
V component of wind [isobaricInhPa, 175] [v] [m s**-1]
Absolute vorticity [isobaricInhPa, 175] [absv] [s**-1]
Cloud mixing ratio [isobaricInhPa, 175] [clwmr] [kg kg**-1]
Ozone mixing ratio [isobaricInhPa, 175] [o3mr] [kg kg**-1]
Geopotential Height [isobaricInhPa, 200] [gh] [gpm]
Temperature [isobaricInhPa, 200] [t] [K]
Relative humidity [isobaricInhPa, 200] [r] [%]
Specific humidity [isobaricInhPa, 200] [q] [kg kg**-1]
Vertical velocity [isobaricInhPa, 200] [w] [Pa s**-1]
U component of wind [isobaricInhPa, 200] [u] [m s**-1]
V component of wind [isobaricInhPa, 200] [v] [m s**-1]
Absolute vorticity [isobaricInhPa, 200] [absv] [s**-1]
Cloud mixing ratio [isobaricInhPa, 200] [clwmr] [kg kg**-1]
Ozone mixing ratio [isobaricInhPa, 200] [o3mr] [kg kg**-1]
Geopotential Height [isobaricInhPa, 225] [gh] [gpm]
Temperature [isobaricInhPa, 225] [t] [K]
Relative humidity [isobaricInhPa, 225] [r] [%]
Specific humidity [isobaricInhPa, 225] [q] [kg kg**-1]
Vertical velocity [isobaricInhPa, 225] [w] [Pa s**-1]
U component of wind [isobaricInhPa, 225] [u] [m s**-1]
V component of wind [isobaricInhPa, 225] [v] [m s**-1]
Absolute vorticity [isobaricInhPa, 225] [absv] [s**-1]
Cloud mixing ratio [isobaricInhPa, 225] [clwmr] [kg kg**-1]
Ozone mixing ratio [isobaricInhPa, 225] [o3mr] [kg kg**-1]

Geopotential Height [isobaricInhPa, 250] [gh] [gpm]
Temperature [isobaricInhPa, 250] [t] [K]
Relative humidity [isobaricInhPa, 250] [r] [%]
Specific humidity [isobaricInhPa, 250] [q] [kg kg ^{**} -1]
Vertical velocity [isobaricInhPa, 250] [w] [Pa s ^{**} -1]
U component of wind [isobaricInhPa, 250] [u] [m s ^{**} -1]
V component of wind [isobaricInhPa, 250] [v] [m s ^{**} -1]
Absolute vorticity [isobaricInhPa, 250] [absv] [s ^{**} -1]
Cloud mixing ratio [isobaricInhPa, 250] [clwmr] [kg kg ^{**} -1]
Ozone mixing ratio [isobaricInhPa, 250] [o3mr] [kg kg ^{**} -1]
Geopotential Height [isobaricInhPa, 300] [gh] [gpm]
Temperature [isobaricInhPa, 300] [t] [K]
Relative humidity [isobaricInhPa, 300] [r] [%]
Specific humidity [isobaricInhPa, 300] [q] [kg kg ^{**} -1]
Vertical velocity [isobaricInhPa, 300] [w] [Pa s ^{**} -1]
U component of wind [isobaricInhPa, 300] [u] [m s ^{**} -1]
V component of wind [isobaricInhPa, 300] [v] [m s ^{**} -1]
Absolute vorticity [isobaricInhPa, 300] [absv] [s ^{**} -1]
Cloud mixing ratio [isobaricInhPa, 300] [clwmr] [kg kg ^{**} -1]
Ozone mixing ratio [isobaricInhPa, 300] [o3mr] [kg kg ^{**} -1]
Geopotential Height [isobaricInhPa, 350] [gh] [gpm]
Temperature [isobaricInhPa, 350] [t] [K]
Relative humidity [isobaricInhPa, 350] [r] [%]
Specific humidity [isobaricInhPa, 350] [q] [kg kg ^{**} -1]
Vertical velocity [isobaricInhPa, 350] [w] [Pa s ^{**} -1]
U component of wind [isobaricInhPa, 350] [u] [m s ^{**} -1]
V component of wind [isobaricInhPa, 350] [v] [m s ^{**} -1]
Absolute vorticity [isobaricInhPa, 350] [absv] [s ^{**} -1]
Cloud mixing ratio [isobaricInhPa, 350] [clwmr] [kg kg ^{**} -1]
Ozone mixing ratio [isobaricInhPa, 350] [o3mr] [kg kg ^{**} -1]
Geopotential Height [isobaricInhPa, 400] [gh] [gpm]
Temperature [isobaricInhPa, 400] [t] [K]
Relative humidity [isobaricInhPa, 400] [r] [%]
Specific humidity [isobaricInhPa, 400] [q] [kg kg ^{**} -1]
Vertical velocity [isobaricInhPa, 400] [w] [Pa s ^{**} -1]
U component of wind [isobaricInhPa, 400] [u] [m s ^{**} -1]
V component of wind [isobaricInhPa, 400] [v] [m s ^{**} -1]
Absolute vorticity [isobaricInhPa, 400] [absv] [s ^{**} -1]
Cloud mixing ratio [isobaricInhPa, 400] [clwmr] [kg kg ^{**} -1]
Ozone mixing ratio [isobaricInhPa, 400] [o3mr] [kg kg ^{**} -1]
Geopotential Height [isobaricInhPa, 450] [gh] [gpm]
Temperature [isobaricInhPa, 450] [t] [K]
Relative humidity [isobaricInhPa, 450] [r] [%]
Specific humidity [isobaricInhPa, 450] [q] [kg kg ^{**} -1]

Vertical velocity [isobaricInhPa, 450] [w] [Pa s**-1]
U component of wind [isobaricInhPa, 450] [u] [m s**-1]
V component of wind [isobaricInhPa, 450] [v] [m s**-1]
Absolute vorticity [isobaricInhPa, 450] [absv] [s**-1]
Cloud mixing ratio [isobaricInhPa, 450] [clwmr] [kg kg**-1]
Ozone mixing ratio [isobaricInhPa, 450] [o3mr] [kg kg**-1]
Geopotential Height [isobaricInhPa, 500] [gh] [gpm]
Temperature [isobaricInhPa, 500] [t] [K]
Relative humidity [isobaricInhPa, 500] [r] [%]
Specific humidity [isobaricInhPa, 500] [q] [kg kg**-1]
Vertical velocity [isobaricInhPa, 500] [w] [Pa s**-1]
U component of wind [isobaricInhPa, 500] [u] [m s**-1]
V component of wind [isobaricInhPa, 500] [v] [m s**-1]
Absolute vorticity [isobaricInhPa, 500] [absv] [s**-1]
Cloud mixing ratio [isobaricInhPa, 500] [clwmr] [kg kg**-1]
Ozone mixing ratio [isobaricInhPa, 500] [o3mr] [kg kg**-1]
Geopotential Height [isobaricInhPa, 550] [gh] [gpm]
Temperature [isobaricInhPa, 550] [t] [K]
Relative humidity [isobaricInhPa, 550] [r] [%]
Specific humidity [isobaricInhPa, 550] [q] [kg kg**-1]
Vertical velocity [isobaricInhPa, 550] [w] [Pa s**-1]
U component of wind [isobaricInhPa, 550] [u] [m s**-1]
V component of wind [isobaricInhPa, 550] [v] [m s**-1]
Absolute vorticity [isobaricInhPa, 550] [absv] [s**-1]
Cloud mixing ratio [isobaricInhPa, 550] [clwmr] [kg kg**-1]
Ozone mixing ratio [isobaricInhPa, 550] [o3mr] [kg kg**-1]
Geopotential Height [isobaricInhPa, 600] [gh] [gpm]
Temperature [isobaricInhPa, 600] [t] [K]
Relative humidity [isobaricInhPa, 600] [r] [%]
Specific humidity [isobaricInhPa, 600] [q] [kg kg**-1]
Vertical velocity [isobaricInhPa, 600] [w] [Pa s**-1]
U component of wind [isobaricInhPa, 600] [u] [m s**-1]
V component of wind [isobaricInhPa, 600] [v] [m s**-1]
Absolute vorticity [isobaricInhPa, 600] [absv] [s**-1]
Cloud mixing ratio [isobaricInhPa, 600] [clwmr] [kg kg**-1]
Ozone mixing ratio [isobaricInhPa, 600] [o3mr] [kg kg**-1]
Geopotential Height [isobaricInhPa, 650] [gh] [gpm]
Temperature [isobaricInhPa, 650] [t] [K]
Relative humidity [isobaricInhPa, 650] [r] [%]
Specific humidity [isobaricInhPa, 650] [q] [kg kg**-1]
Vertical velocity [isobaricInhPa, 650] [w] [Pa s**-1]
U component of wind [isobaricInhPa, 650] [u] [m s**-1]
V component of wind [isobaricInhPa, 650] [v] [m s**-1]
Absolute vorticity [isobaricInhPa, 650] [absv] [s**-1]

Cloud mixing ratio [isobaricInhPa, 650] [clwmr] [kg kg ^{**} -1]
Ozone mixing ratio [isobaricInhPa, 650] [o3mr] [kg kg ^{**} -1]
Geopotential Height [isobaricInhPa, 700] [gh] [gpm]
Temperature [isobaricInhPa, 700] [t] [K]
Relative humidity [isobaricInhPa, 700] [r] [%]
Specific humidity [isobaricInhPa, 700] [q] [kg kg ^{**} -1]
Vertical velocity [isobaricInhPa, 700] [w] [Pa s ^{**} -1]
U component of wind [isobaricInhPa, 700] [u] [m s ^{**} -1]
V component of wind [isobaricInhPa, 700] [v] [m s ^{**} -1]
Absolute vorticity [isobaricInhPa, 700] [absv] [s ^{**} -1]
Cloud mixing ratio [isobaricInhPa, 700] [clwmr] [kg kg ^{**} -1]
Ozone mixing ratio [isobaricInhPa, 700] [o3mr] [kg kg ^{**} -1]
Geopotential Height [isobaricInhPa, 750] [gh] [gpm]
Temperature [isobaricInhPa, 750] [t] [K]
Relative humidity [isobaricInhPa, 750] [r] [%]
Specific humidity [isobaricInhPa, 750] [q] [kg kg ^{**} -1]
Vertical velocity [isobaricInhPa, 750] [w] [Pa s ^{**} -1]
U component of wind [isobaricInhPa, 750] [u] [m s ^{**} -1]
V component of wind [isobaricInhPa, 750] [v] [m s ^{**} -1]
Absolute vorticity [isobaricInhPa, 750] [absv] [s ^{**} -1]
Cloud mixing ratio [isobaricInhPa, 750] [clwmr] [kg kg ^{**} -1]
Ozone mixing ratio [isobaricInhPa, 750] [o3mr] [kg kg ^{**} -1]
Geopotential Height [isobaricInhPa, 775] [gh] [gpm]
Temperature [isobaricInhPa, 775] [t] [K]
Relative humidity [isobaricInhPa, 775] [r] [%]
Specific humidity [isobaricInhPa, 775] [q] [kg kg ^{**} -1]
Vertical velocity [isobaricInhPa, 775] [w] [Pa s ^{**} -1]
U component of wind [isobaricInhPa, 775] [u] [m s ^{**} -1]
V component of wind [isobaricInhPa, 775] [v] [m s ^{**} -1]
Absolute vorticity [isobaricInhPa, 775] [absv] [s ^{**} -1]
Cloud mixing ratio [isobaricInhPa, 775] [clwmr] [kg kg ^{**} -1]
Ozone mixing ratio [isobaricInhPa, 775] [o3mr] [kg kg ^{**} -1]
Geopotential Height [isobaricInhPa, 800] [gh] [gpm]
Temperature [isobaricInhPa, 800] [t] [K]
Relative humidity [isobaricInhPa, 800] [r] [%]
Specific humidity [isobaricInhPa, 800] [q] [kg kg ^{**} -1]
Vertical velocity [isobaricInhPa, 800] [w] [Pa s ^{**} -1]
U component of wind [isobaricInhPa, 800] [u] [m s ^{**} -1]
V component of wind [isobaricInhPa, 800] [v] [m s ^{**} -1]
Absolute vorticity [isobaricInhPa, 800] [absv] [s ^{**} -1]
Cloud mixing ratio [isobaricInhPa, 800] [clwmr] [kg kg ^{**} -1]
Ozone mixing ratio [isobaricInhPa, 800] [o3mr] [kg kg ^{**} -1]
Geopotential Height [isobaricInhPa, 825] [gh] [gpm]
Temperature [isobaricInhPa, 825] [t] [K]

Relative humidity [isobaricInhPa, 825] [r] [%]
Specific humidity [isobaricInhPa, 825] [q] [kg kg**-1]
Vertical velocity [isobaricInhPa, 825] [w] [Pa s**-1]
U component of wind [isobaricInhPa, 825] [u] [m s**-1]
V component of wind [isobaricInhPa, 825] [v] [m s**-1]
Absolute vorticity [isobaricInhPa, 825] [absv] [s**-1]
Cloud mixing ratio [isobaricInhPa, 825] [clwmr] [kg kg**-1]
Ozone mixing ratio [isobaricInhPa, 825] [o3mr] [kg kg**-1]
Geopotential Height [isobaricInhPa, 850] [gh] [gpm]
Temperature [isobaricInhPa, 850] [t] [K]
Relative humidity [isobaricInhPa, 850] [r] [%]
Specific humidity [isobaricInhPa, 850] [q] [kg kg**-1]
Vertical velocity [isobaricInhPa, 850] [w] [Pa s**-1]
U component of wind [isobaricInhPa, 850] [u] [m s**-1]
V component of wind [isobaricInhPa, 850] [v] [m s**-1]
Absolute vorticity [isobaricInhPa, 850] [absv] [s**-1]
Cloud mixing ratio [isobaricInhPa, 850] [clwmr] [kg kg**-1]
Ozone mixing ratio [isobaricInhPa, 850] [o3mr] [kg kg**-1]
Geopotential Height [isobaricInhPa, 875] [gh] [gpm]
Temperature [isobaricInhPa, 875] [t] [K]
Relative humidity [isobaricInhPa, 875] [r] [%]
Specific humidity [isobaricInhPa, 875] [q] [kg kg**-1]
Vertical velocity [isobaricInhPa, 875] [w] [Pa s**-1]
U component of wind [isobaricInhPa, 875] [u] [m s**-1]
V component of wind [isobaricInhPa, 875] [v] [m s**-1]
Absolute vorticity [isobaricInhPa, 875] [absv] [s**-1]
Cloud mixing ratio [isobaricInhPa, 875] [clwmr] [kg kg**-1]
Ozone mixing ratio [isobaricInhPa, 875] [o3mr] [kg kg**-1]
Geopotential Height [isobaricInhPa, 900] [gh] [gpm]
Temperature [isobaricInhPa, 900] [t] [K]
Relative humidity [isobaricInhPa, 900] [r] [%]
Specific humidity [isobaricInhPa, 900] [q] [kg kg**-1]
Vertical velocity [isobaricInhPa, 900] [w] [Pa s**-1]
U component of wind [isobaricInhPa, 900] [u] [m s**-1]
V component of wind [isobaricInhPa, 900] [v] [m s**-1]
Absolute vorticity [isobaricInhPa, 900] [absv] [s**-1]
Cloud mixing ratio [isobaricInhPa, 900] [clwmr] [kg kg**-1]
Ozone mixing ratio [isobaricInhPa, 900] [o3mr] [kg kg**-1]
Geopotential Height [isobaricInhPa, 925] [gh] [gpm]
Temperature [isobaricInhPa, 925] [t] [K]
Relative humidity [isobaricInhPa, 925] [r] [%]
Specific humidity [isobaricInhPa, 925] [q] [kg kg**-1]
Vertical velocity [isobaricInhPa, 925] [w] [Pa s**-1]
U component of wind [isobaricInhPa, 925] [u] [m s**-1]

V component of wind [isobaricInhPa, 925] [v] [m s**-1]
Absolute vorticity [isobaricInhPa, 925] [absv] [s**-1]
Cloud mixing ratio [isobaricInhPa, 925] [clwmr] [kg kg**-1]
Ozone mixing ratio [isobaricInhPa, 925] [o3mr] [kg kg**-1]
Geopotential Height [isobaricInhPa, 950] [gh] [gpm]
Temperature [isobaricInhPa, 950] [t] [K]
Relative humidity [isobaricInhPa, 950] [r] [%]
Specific humidity [isobaricInhPa, 950] [q] [kg kg**-1]
Vertical velocity [isobaricInhPa, 950] [w] [Pa s**-1]
U component of wind [isobaricInhPa, 950] [u] [m s**-1]
V component of wind [isobaricInhPa, 950] [v] [m s**-1]
Absolute vorticity [isobaricInhPa, 950] [absv] [s**-1]
Cloud mixing ratio [isobaricInhPa, 950] [clwmr] [kg kg**-1]
Ozone mixing ratio [isobaricInhPa, 950] [o3mr] [kg kg**-1]
Geopotential Height [isobaricInhPa, 975] [gh] [gpm]
Temperature [isobaricInhPa, 975] [t] [K]
Relative humidity [isobaricInhPa, 975] [r] [%]
Specific humidity [isobaricInhPa, 975] [q] [kg kg**-1]
Vertical velocity [isobaricInhPa, 975] [w] [Pa s**-1]
U component of wind [isobaricInhPa, 975] [u] [m s**-1]
V component of wind [isobaricInhPa, 975] [v] [m s**-1]
Absolute vorticity [isobaricInhPa, 975] [absv] [s**-1]
Cloud mixing ratio [isobaricInhPa, 975] [clwmr] [kg kg**-1]
Ozone mixing ratio [isobaricInhPa, 975] [o3mr] [kg kg**-1]
Geopotential Height [isobaricInhPa, 1000] [gh] [gpm]
Temperature [isobaricInhPa, 1000] [t] [K]
Relative humidity [isobaricInhPa, 1000] [r] [%]
Specific humidity [isobaricInhPa, 1000] [q] [kg kg**-1]
Vertical velocity [isobaricInhPa, 1000] [w] [Pa s**-1]
U component of wind [isobaricInhPa, 1000] [u] [m s**-1]
V component of wind [isobaricInhPa, 1000] [v] [m s**-1]
Absolute vorticity [isobaricInhPa, 1000] [absv] [s**-1]
Cloud mixing ratio [isobaricInhPa, 1000] [clwmr] [kg kg**-1]
Ozone mixing ratio [isobaricInhPa, 1000] [o3mr] [kg kg**-1]
2 metre dewpoint temperature [heightAboveGround, 2] [2d] [K]
2 metre relative humidity [heightAboveGround, 2] [2r] [%]
Total Precipitation [surface, 0] [tp] [kg m**-2]
Convective precipitation (water) [surface, 0] [acpcp] [kg m**-2]
Large scale precipitation (non-convective) [surface, 0] [ncpcp] [kg m**-2]
Categorical snow [surface, 0] [csnow] [(Code table 4.222)]
Categorical ice pellets [surface, 0] [cicep] [(Code table 4.222)]
Categorical freezing rain [surface, 0] [cfrzr] [(Code table 4.222)]
Categorical rain [surface, 0] [crain] [(Code table 4.222)]
Surface lifted index [surface, 0] [lftx] [K]

Convective available potential energy [surface, 0] [cape] [J kg ^{**} -1]
Convective inhibition [surface, 0] [cin] [J kg ^{**} -1]
Cloud water [atmosphereSingleLayer, 0] [cwat] [kg m ^{**} -2]
Relative humidity [atmosphereSingleLayer, 0] [r] [%]
Total ozone [atmosphereSingleLayer, 0] [tozne] [DU]
Storm relative helicity [heightAboveGroundLayer, 3000] [hlcy] [m ^{**} 2 s ^{**} -2]
Storm relative helicity [heightAboveGroundLayer, 1000] [hlcy] [m ^{**} 2 s ^{**} -2]
U-component storm motion [heightAboveGroundLayer, 6000] [ustm] [m s ^{**} -1]
V-component storm motion [heightAboveGroundLayer, 6000] [vstm] [m s ^{**} -1]
Tropopause pressure [tropopause, 0] [trpp] [Pa]
Geopotential Height [tropopause, 0] [gh] [gpm]
Temperature [tropopause, 0] [t] [K]
U component of wind [tropopause, 0] [u] [m s ^{**} -1]
V component of wind [tropopause, 0] [v] [m s ^{**} -1]
Vertical speed shear [tropopause, 0] [vwsh] [s ^{**} -1]
Pressure [maxWind, 0] [pres] [Pa]
Geopotential Height [maxWind, 0] [gh] [gpm]
U component of wind [maxWind, 0] [u] [m s ^{**} -1]
V component of wind [maxWind, 0] [v] [m s ^{**} -1]
Temperature [maxWind, 0] [t] [K]
Temperature [heightAboveSea, 1829] [t] [K]
U component of wind [heightAboveSea, 1829] [u] [m s ^{**} -1]
V component of wind [heightAboveSea, 1829] [v] [m s ^{**} -1]
Temperature [heightAboveSea, 2743] [t] [K]
U component of wind [heightAboveSea, 2743] [u] [m s ^{**} -1]
V component of wind [heightAboveSea, 2743] [v] [m s ^{**} -1]
Temperature [heightAboveSea, 3658] [t] [K]
U component of wind [heightAboveSea, 3658] [u] [m s ^{**} -1]
V component of wind [heightAboveSea, 3658] [v] [m s ^{**} -1]
Temperature [heightAboveSea, 4572] [t] [K]
U component of wind [heightAboveSea, 4572] [u] [m s ^{**} -1]
V component of wind [heightAboveSea, 4572] [v] [m s ^{**} -1]
Geopotential Height [isothermZero, 0] [gh] [gpm]
Relative humidity [isothermZero, 0] [r] [%]
Geopotential Height [highestTroposphericFreezing, 0] [gh] [gpm]
Relative humidity [highestTroposphericFreezing, 0] [r] [%]
Temperature [pressureFromGroundLayer, 3000] [t] [K]
Relative humidity [pressureFromGroundLayer, 3000] [r] [%]
Dew point temperature [pressureFromGroundLayer, 3000] [dpt] [K]
Specific humidity [pressureFromGroundLayer, 3000] [q] [kg kg ^{**} -1]
U component of wind [pressureFromGroundLayer, 3000] [u] [m s ^{**} -1]
V component of wind [pressureFromGroundLayer, 3000] [v] [m s ^{**} -1]
Precipitable water [pressureFromGroundLayer, 3000] [pwat] [kg m ^{**} -2]
Parcel lifted index (to 500 hPa) [pressureFromGroundLayer, 3000] [pli] [K]

Best (4-layer) lifted index [surface, 0] [4lftx] [K]
Convective available potential energy [pressureFromGroundLayer, 18000] [cape] [J kg ^{**} -1]
Convective inhibition [pressureFromGroundLayer, 18000] [cin] [J kg ^{**} -1]
Relative humidity [sigmaLayer, 0] [r] [%]
Relative humidity [sigmaLayer, 0] [r] [%]
Relative humidity [sigmaLayer, 1] [r] [%]
Relative humidity [sigmaLayer, 0] [r] [%]
Temperature [sigma, 1] [t] [K]
Potential temperature [sigma, 1] [pt] [K]
Relative humidity [sigma, 1] [r] [%]
U component of wind [sigma, 1] [u] [m s ^{**} -1]
V component of wind [sigma, 1] [v] [m s ^{**} -1]
Vertical velocity [sigma, 1] [w] [Pa s ^{**} -1]
U component of wind [potentialVorticity, 2] [u] [m s ^{**} -1]
V component of wind [potentialVorticity, 2] [v] [m s ^{**} -1]
Temperature [potentialVorticity, 2] [t] [K]
Geopotential Height [potentialVorticity, 2] [gh] [gpm]
Pressure [potentialVorticity, 2] [pres] [Pa]
Vertical speed shear [potentialVorticity, 2] [vwsh] [s ^{**} -1]
U component of wind [potentialVorticity, 2147486] [u] [m s ^{**} -1]
V component of wind [potentialVorticity, 2147486] [v] [m s ^{**} -1]
Temperature [potentialVorticity, 2147486] [t] [K]
Geopotential Height [potentialVorticity, 2147486] [gh] [gpm]
Pressure [potentialVorticity, 2147486] [pres] [Pa]
Vertical speed shear [potentialVorticity, 2147486] [vwsh] [s ^{**} -1]
Pressure reduced to MSL [meanSea, 0] [prmsl] [Pa]
5-wave geopotential height [isobaricInhPa, 500] [5wavh] [gpm]
Geopotential height anomaly [isobaricInhPa, 1000] [gpa] [gpm]
Geopotential height anomaly [isobaricInhPa, 500] [gpa] [gpm]
5-wave geopotential height anomaly [isobaricInhPa, 500] [5wava] [gpm]
Stream function [isobaricInhPa, 1000] [strf] [m ^{**2} s ^{**} -1]
Velocity potential [isobaricInhPa, 1000] [vp] [m ^{**2} s ^{**} -1]
Stream function [isobaricInhPa, 975] [strf] [m ^{**2} s ^{**} -1]
Velocity potential [isobaricInhPa, 975] [vp] [m ^{**2} s ^{**} -1]
Stream function [isobaricInhPa, 950] [strf] [m ^{**2} s ^{**} -1]
Velocity potential [isobaricInhPa, 950] [vp] [m ^{**2} s ^{**} -1]
Stream function [isobaricInhPa, 925] [strf] [m ^{**2} s ^{**} -1]
Velocity potential [isobaricInhPa, 925] [vp] [m ^{**2} s ^{**} -1]
Stream function [isobaricInhPa, 900] [strf] [m ^{**2} s ^{**} -1]
Velocity potential [isobaricInhPa, 900] [vp] [m ^{**2} s ^{**} -1]
Stream function [isobaricInhPa, 875] [strf] [m ^{**2} s ^{**} -1]
Velocity potential [isobaricInhPa, 875] [vp] [m ^{**2} s ^{**} -1]
Stream function [isobaricInhPa, 850] [strf] [m ^{**2} s ^{**} -1]
Velocity potential [isobaricInhPa, 850] [vp] [m ^{**2} s ^{**} -1]

Stream function [isobaricInhPa, 825] [strf] [m**2 s**-1]
Velocity potential [isobaricInhPa, 825] [vp] [m**2 s**-1]
Stream function [isobaricInhPa, 800] [strf] [m**2 s**-1]
Velocity potential [isobaricInhPa, 800] [vp] [m**2 s**-1]
Stream function [isobaricInhPa, 775] [strf] [m**2 s**-1]
Velocity potential [isobaricInhPa, 775] [vp] [m**2 s**-1]
Stream function [isobaricInhPa, 750] [strf] [m**2 s**-1]
Velocity potential [isobaricInhPa, 750] [vp] [m**2 s**-1]
Stream function [isobaricInhPa, 700] [strf] [m**2 s**-1]
Velocity potential [isobaricInhPa, 700] [vp] [m**2 s**-1]
Stream function [isobaricInhPa, 650] [strf] [m**2 s**-1]
Velocity potential [isobaricInhPa, 650] [vp] [m**2 s**-1]
Stream function [isobaricInhPa, 600] [strf] [m**2 s**-1]
Velocity potential [isobaricInhPa, 600] [vp] [m**2 s**-1]
Stream function [isobaricInhPa, 550] [strf] [m**2 s**-1]
Velocity potential [isobaricInhPa, 550] [vp] [m**2 s**-1]
Stream function [isobaricInhPa, 500] [strf] [m**2 s**-1]
Velocity potential [isobaricInhPa, 500] [vp] [m**2 s**-1]
Stream function [isobaricInhPa, 450] [strf] [m**2 s**-1]
Velocity potential [isobaricInhPa, 450] [vp] [m**2 s**-1]
Stream function [isobaricInhPa, 400] [strf] [m**2 s**-1]
Velocity potential [isobaricInhPa, 400] [vp] [m**2 s**-1]
Stream function [isobaricInhPa, 350] [strf] [m**2 s**-1]
Velocity potential [isobaricInhPa, 350] [vp] [m**2 s**-1]
Stream function [isobaricInhPa, 300] [strf] [m**2 s**-1]
Velocity potential [isobaricInhPa, 300] [vp] [m**2 s**-1]
Stream function [isobaricInhPa, 250] [strf] [m**2 s**-1]
Velocity potential [isobaricInhPa, 250] [vp] [m**2 s**-1]
Stream function [isobaricInhPa, 225] [strf] [m**2 s**-1]
Velocity potential [isobaricInhPa, 225] [vp] [m**2 s**-1]
Stream function [isobaricInhPa, 200] [strf] [m**2 s**-1]
Velocity potential [isobaricInhPa, 200] [vp] [m**2 s**-1]
Stream function [isobaricInhPa, 175] [strf] [m**2 s**-1]
Velocity potential [isobaricInhPa, 175] [vp] [m**2 s**-1]
Stream function [isobaricInhPa, 150] [strf] [m**2 s**-1]
Velocity potential [isobaricInhPa, 150] [vp] [m**2 s**-1]
Stream function [isobaricInhPa, 125] [strf] [m**2 s**-1]
Velocity potential [isobaricInhPa, 125] [vp] [m**2 s**-1]
Stream function [isobaricInhPa, 100] [strf] [m**2 s**-1]
Velocity potential [isobaricInhPa, 100] [vp] [m**2 s**-1]
Stream function [isobaricInhPa, 70] [strf] [m**2 s**-1]
Velocity potential [isobaricInhPa, 70] [vp] [m**2 s**-1]
Stream function [isobaricInhPa, 50] [strf] [m**2 s**-1]
Velocity potential [isobaricInhPa, 50] [vp] [m**2 s**-1]

Stream function [isobaricInhPa, 30] [strf] [m**2 s**-1]
Velocity potential [isobaricInhPa, 30] [vp] [m**2 s**-1]
Stream function [isobaricInhPa, 20] [strf] [m**2 s**-1]
Velocity potential [isobaricInhPa, 20] [vp] [m**2 s**-1]
Stream function [isobaricInhPa, 10] [strf] [m**2 s**-1]
Velocity potential [isobaricInhPa, 10] [vp] [m**2 s**-1]
Stream function [isobaricInhPa, 7] [strf] [m**2 s**-1]
Velocity potential [isobaricInhPa, 7] [vp] [m**2 s**-1]
Stream function [isobaricInhPa, 5] [strf] [m**2 s**-1]
Velocity potential [isobaricInhPa, 5] [vp] [m**2 s**-1]
Stream function [isobaricInhPa, 3] [strf] [m**2 s**-1]
Velocity potential [isobaricInhPa, 3] [vp] [m**2 s**-1]
Stream function [isobaricInhPa, 2] [strf] [m**2 s**-1]
Velocity potential [isobaricInhPa, 2] [vp] [m**2 s**-1]
Stream function [isobaricInhPa, 1] [strf] [m**2 s**-1]
Velocity potential [isobaricInhPa, 1] [vp] [m**2 s**-1]