

API Reference

Med-gold Dashboard API

API Version: 1.0.0

How to use the API

- Click on Authentication section and then on authentication endpoint
- Click on Try it out
- Insert your Med-gold Dashboard username and password
- Copy token value, without double quotes
- Click on Authorize Button
- Paste token value and click on Authorize

You are now authorized to use the Med-Gold Dashboard API!

INDEX

1. AUTHENTICATION	4
1.1 GET /authentication	4
2. ES DATA API	5
2.1 GET /index/match-all	5
2.2 GET /index/match-location	6
2.3 GET /index/match-location/seasonal_forecast	7
3. GENERAL API	8
3.1 GET /all	8
3.2 GET /getlink	8
3.3 GET /ids	9
3.4 GET /{id}/info	10
3.5 GET /{id}/{resource}/timeline	10

Security and Authentication

SECURITY SCHEMES

KEY	TYPE	DESCRIPTION
dev-mgd-dashboard	apiKey	

API

1. AUTHENTICATION

Access Token endpoint

1.1 GET /authentication

The endpoint returns the authentication token needed to use API

REQUEST

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
*password	string	Password of Med-gold Dashboard account
*username	string	Username of Med-gold Dashboard account

RESPONSE

STATUS CODE - 200: Access token

RESPONSE MODEL - */*

```
{
  token string access token API
}
```

STATUS CODE - 401: Unhauthorized

RESPONSE MODEL - */*

```
{
  message string unhauthorized error message
}
```

STATUS CODE - 404: Not found

RESPONSE MODEL - */*

```
{
  message string not found error message
}
```

2. ES DATA API

Elasticsearch's data endpoints

2.1 GET /index/match-all

The endpoint returns all the information loaded on the Map based on information passed

REQUEST

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
*tab	enum ALLOWED: climatology, seasonal_forecast, era5, projection	Tab name between: climatology, seasonal_forecast, era5 and projection
*value	enum ALLOWED: precipitation_monthly, tmax_monthly, tmin_monthly, taverage_monthly, gst, heat_risk, harvestr, su35, sprr, winrr, wsdi, sanitary_risk, gdd, sprtx, sprt32, su36, su40	Name of the index or variable selected
*stype	enum ALLOWED: ecv, index, ecvavg, indexavg, ecvanom, indexanom, ecvp, indexp	Type of information can be: index or ecv.
*year	string	Value within the range defined according to the chosen tab
rcp	enum ALLOWED: 45, 85	Rcp value: 45 or 85. Required if tab is Projection and time interval is not 1971-2000
month	string	Value within the range defined according to the chosen tab, stype and value. Required if stype is ecv.
*top_left	string	Coordinate in {lon,lat} format of the upper left grid
*bottom_right	string	Coordinate in {lon,lat} format of the bottom right grid
region	string	Name of the region selected
leadt	enum ALLOWED: 1, 2, 3, 4, 5, 6, 7	Starting Date value in number

RESPONSE

STATUS CODE - 200: Ok

RESPONSE MODEL - */*

```
{
  type      string      type of variable, can be ecv or index
  location  string      lat,lon coordinates of dataset location
  value     string      float value of the required information
  rpss      string      rpss (mask) value, returned only if tab is seasonal_forecast
}
```

STATUS CODE - 401: Unauthorized

RESPONSE MODEL - `/*`

```
{
  message string unauthorized error message
}
```

STATUS CODE - 404: Not found

RESPONSE MODEL - `/*`

```
{
  message string not found error message
}
```

2.2 GET /index/match-location

The endpoint returns chart information for Historical Climate and Projection tab based on information passed

REQUEST

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
*tab	enum ALLOWED: climatology, era5	Tab name between: climatology, era5 and projection
*stype	enum ALLOWED: ecv, index	Type of information can be: index or ecv
*value	enum ALLOWED: precipitation_monthly, tmax_monthly, tmin_monthly, taverage_monthly, gst, heat_risk, harvestr, su35, sprt32, sprtx, su36, su40, sprr, winrr, wsd, sanitary_risk	Name of the index or variable selected
*location	string	Location selected in format {lat,lon}
month	string	Value within the range defined according to the chosen tab, stype and value

RESPONSE

STATUS CODE - 200: List of values for selected location

RESPONSE MODEL - `/*`

```
{
  value string float value of the required information
  year string period of the required information
  month string month value of the required information
  color string color used for chart representation
}
```

STATUS CODE - 401: Unauthorized

RESPONSE MODEL - `/*`

```
{
  message string unauthorized error message
}
```

STATUS CODE - 404: Not found

RESPONSE MODEL - **/****

```
{  
  message string not found error message  
}
```

2.3 GET /index/match-location/seasonal_forecast

The endpoint returns chart information for Seasonal Forecast tab based on information passed

REQUEST

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
*stype	enum ALLOWED: ecv, index	Type of information can be: index or ecv
*value	enum ALLOWED: precipitation_monthly, tmax_monthly, tmin_monthly, taverage_monthly, sprt32, sprtx, su36, su40, gst, harvestr, sprr, su35, wsdi, sanitary_risk, heat_risk	Name of the index or variable selected
*leadt	enum ALLOWED: 1, 2, 3, 4, 6, 7	Starting Date value in number format
month	string	Value within the range defined according to the chosen tab, stype and value
*location	string	Location selected in format {lat,lon}

RESPONSE

STATUS CODE - 200: List of values for selected location

RESPONSE MODEL - **/****

```
{  
  value    string    float value of the required information  
  year     string    period of the required information  
  month    string    month value of the required information  
  color    string    color used for chart representation  
  leadt    string    leadtime starting date value of the required information  
  name     string    name of tercile can be Upper Tercile, Medium Tercile and Lower Tercile  
}
```

STATUS CODE - 401: Unhauthorized

RESPONSE MODEL - **/****

```
{  
  message string unauthorized error message  
}
```

STATUS CODE - 404: Not found

RESPONSE MODEL - **/****

```
{  
  message string not found error message  
}
```

3. GENERAL API

General information endpoints

3.1 GET /all

The endpoint returns all information of the elements in the Dashboard

REQUEST

No request parameters

RESPONSE

STATUS CODE - 200: List of Dictionary with all information of Dashboard elements

RESPONSE MODEL - */*

```
{
}
```

STATUS CODE - 401: Unhauthorized

RESPONSE MODEL - */*

```
{
  message string unhauthorized error message
}
```

STATUS CODE - 404: Not found

RESPONSE MODEL - */*

```
{
  message string not found error message
}
```

3.2 GET /getlink

The endpoint returns a link of the file based on information passed

REQUEST

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
*tab	enum ALLOWED: climatology, seasonal_forecast, era5, projection	Tab name between: climatology, seasonal_forecast and projection
*value	enum ALLOWED: precipitation_monthly, tmax_monthly, tmin_monthly, taverage_monthly, gst, heat_risk, harvestr, su35, sprr, wsdi, sanitary_risk, gdd, sprtx	Name of the index or variable selected
*stype	enum ALLOWED: ecv, index, ecvavg, indexavg, ecvanom, indexanom, ecvp, indexp	Type of information can be: index or ecv
*year	string	Value within the range defined according to the chosen tab

NAME	TYPE	DESCRIPTION
month	string	Value within the range defined according to the chosen tab, stype and value.
lead	enum ALLOWED: 1, 2, 3, 4, 5, 6, 7	Starting Date value in number format. Required only if tab is seasona_forecast.

RESPONSE

STATUS CODE - 200: Url of required file

RESPONSE MODEL - */*

```
{
}
```

STATUS CODE - 401: Unhauthorized

RESPONSE MODEL - */*

```
{
  message string unauthorized error message
}
```

STATUS CODE - 404: Not found

RESPONSE MODEL - */*

```
{
  message string not found error message
}
```

3.3 GET /ids

The endpoint returns the ids of elements in the Dashboard

REQUEST

No request parameters

RESPONSE

STATUS CODE - 200: List of id of the elements od the Dashboard

RESPONSE MODEL - */*

```
{
}
```

STATUS CODE - 401: Unhauthorized

RESPONSE MODEL - */*

```
{
  message string unauthorized error message
}
```

STATUS CODE - 404: Not found

RESPONSE MODEL - */*

```
{
  message string not found error message
}
```

3.4 GET /{id}/info

The endpoint returns all information based on id passed

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*id	enum ALLOWED: climatology, Seasonal-Forecast, Projection	Id name between: climatology, Seasonal-Forecast and Projection

RESPONSE

STATUS CODE - 200: Json object with information of selected id

RESPONSE MODEL - */*

```
{
}
```

STATUS CODE - 401: Unhauthorized

RESPONSE MODEL - */*

```
{
  message string unthauthorized error
    message
}
```

STATUS CODE - 404: Not found

RESPONSE MODEL - */*

```
{
  message string not found error
    message
}
```

3.5 GET /{id}/{resource}/timeline

The endpoint returns all information based on id passed

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*id	enum ALLOWED: climatology, Seasonal-Forecast, Projection	Id name between: climatology, Seasonal-Forecast and Projection

RESPONSE

STATUS CODE - 200: Json object with information of selected id

RESPONSE MODEL - */*

```
{  
}
```

STATUS CODE - 401: Unauthorized

RESPONSE MODEL - */*

```
{  
  message string unauthorized error  
    message  
}
```

STATUS CODE - 404: Not found

RESPONSE MODEL - */*

```
{  
  message string not found error  
    message  
}
```
