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# Chapter 1. Overview

Explore the content of ARLAS collections

## 1.1. Version information

Version: V0.1.0

## 1.2. Contact information

Contact: Gisaia

Contact Email: contact@gisaia.com

## 1.3. License information

License: Apache 2.0

License URL: https://www.apache.org/licenses/LICENSE-2.0.html

*Terms of service* : null

## 1.4. URI scheme

BasePath: /arlas Schemes: HTTP

## **1.5. Tags**

- collections
- explore

# **Chapter 2. Resources**

## 2.1. Collections

## 2.1.1. Get all collection references

GET /collections

## **Description**

Get all collection references in ARLAS

#### Responses

HTTP Code	Description	Schema
200	Successful operation	<pre>&lt; CollectionReferenc e &gt; array</pre>
500	Arlas Server Error.	ArlasError

#### **Consumes**

• application/json;charset=utf-8

#### **Produces**

• application/json;charset=utf-8

### 2.1.2. Get a collection reference

GET /collections/{collection}

## Description

Get a collection reference in ARLAS

Туре	Name	Description	Schema
Path	<b>collection</b> required	collection	string

HTTP Code	Description	Schema
200	Successful operation	CollectionReferenc e
404	Collection not found.	ArlasError
500	Arlas Server Error.	ArlasError

#### Consumes

• application/json;charset=utf-8

#### **Produces**

• application/json;charset=utf-8

## 2.1.3. Add a collection reference

PUT /collections/{collection}

## Description

Add a collection reference in ARLAS

#### **Parameters**

Туре	Name	Description	Schema
Path	<b>collection</b> required	collection	string
Body	collectionPara ms required	collectionParams	CollectionReferenceP arameters

## Responses

HTTP Code	Description	Schema
200	Successful operation	CollectionReferenc e
400	JSON parameter malformed.	ArlasError
404	Not Found Error.	ArlasError

HTTP Code	Description	Schema
500	Arlas Server Error.	ArlasError

#### Consumes

• application/json;charset=utf-8

#### **Produces**

• application/json;charset=utf-8

## 2.1.4. Delete a collection reference

DELETE /collections/{collection}

## **Description**

Delete a collection reference in ARLAS

#### **Parameters**

Туре	Name	Description	Schema
Path	collection required	collection	string

### Responses

HTTP Code	Description	Schema
200	Successful operation	ArlasSuccess
404	Collection not found.	ArlasError
500	Arlas Server Error.	ArlasError

#### Consumes

• application/json;charset=utf-8

#### **Produces**

# 2.2. Explore

## 2.2.1. List

GET /explore/\_list

### **Description**

List the collections configured in ARLAS.

#### **Parameters**

Туре	Name	Description	Schema
Query	max-age-cache optional	max-age-cache	integer(int32)

## Responses

HTTP Code	Description	Schema
200	Successful operation	No Content

#### Consumes

• application/json;charset=utf-8

#### **Produces**

• application/json;charset=utf-8

## 2.2.2. Suggest

GET /explore/{collections}/\_suggest

## **Description**

Suggest the the n (n=size) most relevant terms given the filters

Туре	Name	Description	Schema	Default
Path	collections required	collections, comma separated	string	
Query	<b>after</b> optional	Any element having its point in time reference after the given timestamp	integer(int64)	
Query	<b>before</b> optional	Any element having its point in time reference before the given timestamp	integer(int64)	

Туре	Name	Description	Schema	Default
Query	f optional	* A triplet for filtering the result. Multiple filter can be provided. The order does not matter.  * A triplet is composed of a field name, a comparison operator and a value.  The possible values of the comparison operator are:   Operator   Description   value type  :   {fieldName} equals {value}   numeric or strings  :gte:   {fieldName} is greater than or equal to {value}   numeric  :gt:   {fieldName} is greater than {value}   numeric  :lte:   {fieldName} is less than or equal to {value}   numeric  :lte:   {fieldName} is less than or equal to {value}   numeric  :lt:   {fieldName} is less than {value}   numeric   * The AND operator is applied between filters having different fieldNames.  * The OR operator is applied on filters having the same fieldName.  * If the fieldName starts with - then a must not filter is used  * If the fieldName starts with - then a must not filter is used  For more details, check https://gitlab.com/GISAIA.ARLAS/ARLAS-server/blob/master/doc/api/API-definition.md	< string > array(multi)	Detault

Туре	Name	Description	Schema	Default
Query	<b>field</b> optional	Name of the field to be used for retrieving the most relevant terms	string	"_all"
Query	<b>from</b> optional	From index to start the search from. Defaults to 0.	integer(int32)	"0"
Query	<b>gintersect</b> optional	Any element having its geometry intersecting the given geometry (WKT)	< string > array(multi)	
Query	<b>gwithin</b> optional	Any element having its geometry contained within the given geometry (WKT)	< string > array(multi)	
Query	<b>human</b> optional	Human readable print	boolean	"false"
Query	max-age- cache optional	max-age-cache	integer(int32)	
Query	<b>notgintersect</b> optional	Any element having its geometry not intersecting the given geometry (WKT)	< string > array(multi)	
Query	<b>notgwithin</b> optional	Any element having its geometry outside the given geometry (WKT)	< string > array(multi)	
Query	<b>notpwithin</b> optional	Any element having its centroid outside the given geometry (WKT)	< string > array(multi)	
Query	<b>pretty</b> optional	Pretty print	boolean	"false"
Query	<b>pwithin</b> optional	Any element having its centroid contained within the given geometry (WKT)	< string > array(multi)	
Query	<b>q</b> optional	A full text search	string	
Query	size optional	The maximum number of entries or sub- entries to be returned. The default value is 10	integer(int32)	"10"

HTTP Code	Description	Schema
200	Successful operation	No Content

### Consumes

#### **Produces**

• application/json;charset=utf-8

## 2.2.3. Aggregate

POST /explore/{collection}/\_aggregate

#### **Description**

Aggregate the elements in the collection(s), given the filters and the aggregation parameters

#### **Parameters**

Туре	Name	Description	Schema
Path	collection required	collection	string
Body	<b>body</b> optional		AggregationRequest

#### Responses

HTTP Code	Description	Schema
200	Successful operation	ArlasAggregation
400	Bad request.	ArlasError
500	Arlas Server Error.	ArlasError

#### Consumes

• application/json;charset=utf-8

#### **Produces**

• application/json;charset=utf-8

## 2.2.4. Aggregate

GET /explore/{collection}/\_aggregate

### Description

Aggregate the elements in the collection(s), given the filters and the aggregation parameters

Туре	Name	Description	Schema	Default
Path	collection required	collection	string	
Query	<b>after</b> optional	Any element having its point in time reference after the given timestamp	string	

Туре	Name	Description	Schema	Default
Query	<b>agg</b> required	* The agg parameter should be given in the following formats:  {type}:{field}:interval-{interval}:format-{format}:collect_field-{collect_field}:collect_field-{collect_field}:collect_field-{order}:on-{on}:size-{size}  Where:  * {type}:{field} part is mandatory.  * interval must be specified only when aggregation type is datehistogram, histogram and geohash.  * format is optional for datehistogram, and must not be specified for the other types.  * (collect_field,collect_fct) couple is optional for all aggregation types.  * (order,on) couple is optional for all aggregation types.  * size is optional for term and geohash, and must not be specified for the other types.  * {type} possible values are: datehistogram, histogram, geohash and term.  * {interval} possible values depends on {type}.  If {type} = datehistogram, then {interval} = {size}(year,quarter,month,week,day,hour,minute,second).  If {type} = histogram, then {interval} = {size}.  If {type} = geohash, then {interval} = {size}.  If {type} = geohash, then {interval} = {size}.  If {type} = term, then interval-{interval} is not needed.  * format-{format} is the date format for key_	< string > array(multi)	

Туре	Name	Description	Schema	Default
Query	<b>before</b> optional	Any element having its point in time reference before the given timestamp	string	

Type	Name	Description	Schema	Default
Query	<b>f</b> optional	* A triplet for filtering the result. Multiple filter can be provided. The order does not matter.  * A triplet is composed of a field name, a comparison operator and a value.  The possible values of the comparison operator are:   Operator   Description   value type  :eq:   {fieldName} equals {comma separated values}. OR operation is applied for the specified values   numeric or strings  :ne:   {fieldName} must not equal {comma separated values}. AND operation is applied for the specified values   numeric or strings  :like:   {fieldName} is like {value}   numeric or strings  :gte:   {fieldName} is greater than or equal to {value}   numeric  :gt:   {fieldName} is greater than {value}   numeric  :lt:   {fieldName} is less than or equal to {value}   numeric  :lt:   {fieldName} is less than {value}   numeric	< string > array(multi)	

Туре	Name	Description	Schema	Default
Query	gintersect optional	Any element having its geometry intersecting the given geometry (WKT)	< string > array(multi)	
Query	<b>gwithin</b> optional	Any element having its geometry contained within the given geometry (WKT)	< string > array(multi)	
Query	human optional	Human readable print	boolean	"false"
Query	max-age- cache optional	max-age-cache	integer(int32)	
Query	notgintersect optional	Any element having its geometry not intersecting the given geometry (WKT)	< string > array(multi)	
Query	<b>notgwithin</b> optional	Any element having its geometry outside the given geometry (WKT)	< string > array(multi)	
Query	<b>notpwithin</b> optional	Any element having its centroid outside the given geometry (WKT)	< string > array(multi)	
Query	<b>pretty</b> optional	Pretty print	boolean	"false"
Query	<b>pwithin</b> optional	Any element having its centroid contained within the given geometry (WKT)	< string > array(multi)	
Query	<b>q</b> optional	A full text search	string	

HTTP Code	Description	Schema
200	Successful operation	ArlasAggregation
400	Bad request.	ArlasError
500	Arlas Server Error.	ArlasError

### Consumes

• application/json;charset=utf-8

#### **Produces**

### 2.2.5. Count

POST /explore/{collection}/\_count

#### **Description**

Count the number of elements found in the collection(s), given the filters

#### **Parameters**

Туре	Name	Description	Schema
Path	collection required	collections	string
Body	<b>body</b> optional		Count

## Responses

HTTP Code	Description	Schema
200	Successful operation	ArlasHits
400	Bad request.	ArlasError
500	Arlas Server Error.	ArlasError

#### **Consumes**

• application/json;charset=utf-8

#### **Produces**

• application/json;charset=utf-8

## 2.2.6. Count

GET /explore/{collection}/\_count

### **Description**

Count the number of elements found in the collection(s), given the filters

Туре	Name	Description	Schema	Default
Path	collection required	collections	string	
Query	<b>after</b> optional	Any element having its point in time reference after the given timestamp	string	
Query	<b>before</b> optional	Any element having its point in time reference before the given timestamp	string	

Type	Name	Description	Schema	Default
Query	<b>f</b> optional	* A triplet for filtering the result. Multiple filter can be provided. The order does not matter.  * A triplet is composed of a field name, a comparison operator and a value.  The possible values of the comparison operator are:   Operator   Description   value type  :eq:   {fieldName} equals {comma separated values}. OR operation is applied for the specified values   numeric or strings  :ne:   {fieldName} must not equal {comma separated values}. AND operation is applied for the specified values   numeric or strings  :like:   {fieldName} is like {value}   numeric or strings  :gte:   {fieldName} is greater than or equal to {value}   numeric  :gt:   {fieldName} is greater than {value}   numeric  :lt:   {fieldName} is less than or equal to {value}   numeric  :lt:   {fieldName} is less than {value}   numeric	< string > array(multi)	

Туре	Name	Description	Schema	Default
Query	gintersect optional	Any element having its geometry intersecting the given geometry (WKT)	< string > array(multi)	
Query	<b>gwithin</b> optional	Any element having its geometry contained within the given geometry (WKT)	< string > array(multi)	
Query	human optional	Human readable print	boolean	"false"
Query	max-age- cache optional	max-age-cache	integer(int32)	
Query	notgintersect optional	Any element having its geometry not intersecting the given geometry (WKT)	< string > array(multi)	
Query	<b>notgwithin</b> optional	Any element having its geometry outside the given geometry (WKT)	< string > array(multi)	
Query	<b>notpwithin</b> optional	Any element having its centroid outside the given geometry (WKT)	< string > array(multi)	
Query	<b>pretty</b> optional	Pretty print	boolean	"false"
Query	<b>pwithin</b> optional	Any element having its centroid contained within the given geometry (WKT)	< string > array(multi)	
Query	<b>q</b> optional	A full text search	string	

HTTP Code	Description	Schema
200	Successful operation	ArlasHits
400	Bad request.	ArlasError
500	Arlas Server Error.	ArlasError

### Consumes

• application/json;charset=utf-8

#### **Produces**

### 2.2.7. Describe

GET /explore/{collection}/\_describe

### **Description**

Describe the structure and the content of the given collection.

#### **Parameters**

Туре	Name	Description	Schema	Default
Path	collection required	collection	string	
Query	human optional	Human readable print	boolean	"false"
Query	max-age- cache optional	max-age-cache	integer(int32)	
Query	<b>pretty</b> optional	Pretty print	boolean	"false"

## Responses

HTTP Code	Description	Schema
200	Successful operation	No Content

#### **Consumes**

• application/json;charset=utf-8

#### **Produces**

• application/json;charset=utf-8

## 2.2.8. GeoAggregate

POST /explore/{collection}/\_geoaggregate

## **Description**

Aggregate the elements in the collection(s), given the filters and the aggregation parameters

#### **Parameters**

Туре	Name	Description	Schema
Path	collection required	collection	string
Body	<b>body</b> optional		AggregationRequest

## Responses

HTTP Code	Description	Schema
200	Successful operation	ArlasAggregation
400	Bad request.	ArlasError
500	Arlas Server Error.	ArlasError

#### Consumes

• application/json;charset=utf-8

#### **Produces**

• application/json;charset=utf-8

## 2.2.9. GeoAggregate

GET /explore/{collection}/\_geoaggregate

### **Description**

Aggregate the elements in the collection(s), given the filters and the aggregation parameters

Туре	Name	Description	Schema	Default
Path	<b>collection</b> required	collection	string	
Query	<b>after</b> optional	Any element having its point in time reference after the given timestamp	string	

Туре	Name	Description	Schema	Default
UHERV	<b>agg</b> required	* The agg parameter should be given in the following formats:  {type}:{field}:interval-{interval}:format-{format}:collect_field-{collect_field}:collect_field-{collect_field}:collect_field-{order}:on-{on}:size-{size}  Where:  * {type}:{field} part is mandatory.  * interval must be specified only when aggregation type is datehistogram, histogram and geohash.  * format is optional for datehistogram, and must not be specified for the other types.  * (collect_field,collect_fct) couple is optional for all aggregation types.  * (order,on) couple is optional for all aggregation types.  * size is optional for term and geohash, and must not be specified for the other types.  * {type} possible values are: geohash, datehistogram, histogram and term. geohash must be the main aggregation.  * {interval} possible values depends on {type}.  If {type} = datehistogram, then {interval} = {size}(year,quarter,month,week,day,hour,minute,second).  If {type} = histogram, then {interval} = {size}.  If {type} = geohash, then {interval} = {size}.  If {type} = term, then interval-{interval} is not needed.	< string > array(multi)	

Туре	Name	Description	Schema	Default
Query	<b>before</b> optional	Any element having its point in time reference before the given timestamp	string	

Type	Name	Description	Schema	Default
Query	<b>f</b> optional	* A triplet for filtering the result. Multiple filter can be provided. The order does not matter.  * A triplet is composed of a field name, a comparison operator and a value.  The possible values of the comparison operator are:   Operator   Description   value type  :eq:   {fieldName} equals {comma separated values}. OR operation is applied for the specified values   numeric or strings  :ne:   {fieldName} must not equal {comma separated values}. AND operation is applied for the specified values   numeric or strings  :like:   {fieldName} is like {value}   numeric or strings  :gte:   {fieldName} is greater than or equal to {value}   numeric  :gt:   {fieldName} is greater than {value}   numeric  :lt:   {fieldName} is less than or equal to {value}   numeric  :lt:   {fieldName} is less than {value}   numeric	< string > array(multi)	

Туре	Name	Description	Schema	Default
Query	gintersect optional	Any element having its geometry intersecting the given geometry (WKT)	< string > array(multi)	
Query	<b>gwithin</b> optional	Any element having its geometry contained within the given geometry (WKT)	< string > array(multi)	
Query	human optional	Human readable print	boolean	"false"
Query	max-age- cache optional	max-age-cache	integer(int32)	
Query	notgintersect optional	Any element having its geometry not intersecting the given geometry (WKT)	< string > array(multi)	
Query	<b>notgwithin</b> optional	Any element having its geometry outside the given geometry (WKT)	< string > array(multi)	
Query	<b>notpwithin</b> optional	Any element having its centroid outside the given geometry (WKT)	< string > array(multi)	
Query	<b>pretty</b> optional	Pretty print	boolean	"false"
Query	<b>pwithin</b> optional	Any element having its centroid contained within the given geometry (WKT)	< string > array(multi)	
Query	<b>q</b> optional	A full text search	string	

HTTP Code	Description	Schema
200	Successful operation	FeatureCollection
400	Bad request.	ArlasError
500	Arlas Server Error.	ArlasError

### Consumes

• application/json;charset=utf-8

#### **Produces**

### 2.2.10. GeoSearch

POST /explore/{collection}/\_geosearch

## **Description**

Search and return the elements found in the collection(s) as features, given the filters

#### **Parameters**

Туре	Name	Description	Schema
Path	collection required	collection	string
Body	<b>body</b> optional		Search

#### Responses

HTTP Code	Description	Schema
200	Successful operation	No Content

#### **Consumes**

• application/json;charset=utf-8

#### **Produces**

• application/json;charset=utf-8

#### 2.2.11. GeoSearch

GET /explore/{collection}/\_geosearch

## **Description**

Search and return the elements found in the collection(s) as features, given the filters

Type	Name	Description	Schema	Default
Path	collection required	collection	string	

Туре	Name	Description	Schema	Default
Query	<b>after</b> optional	Any element having its point in time reference after the given timestamp	string	
Query	<b>before</b> optional	Any element having its point in time reference before the given timestamp	string	
Query	exclude optional	List the name patterns of the field to be excluded in the result. Seperate patterns with a comma.	< string > array(multi)	

Type	Name	Description	Schema	Default
Query	<b>f</b> optional	* A triplet for filtering the result. Multiple filter can be provided. The order does not matter.  * A triplet is composed of a field name, a comparison operator and a value.  The possible values of the comparison operator are:   Operator   Description   value type  :eq:   {fieldName} equals {comma separated values}. OR operation is applied for the specified values   numeric or strings  :ne:   {fieldName} must not equal {comma separated values}. AND operation is applied for the specified values   numeric or strings  :like:   {fieldName} is like {value}   numeric or strings  :gte:   {fieldName} is greater than or equal to {value}   numeric  :gt:   {fieldName} is greater than {value}   numeric  :lt:   {fieldName} is less than or equal to {value}   numeric  :lt:   {fieldName} is less than {value}   numeric	< string > array(multi)	

Туре	Name	Description	Schema	Default
Query	<b>from</b> optional	From index to start the search from. Defaults to 0.	string	"0"
Query	<b>gintersect</b> optional	Any element having its geometry intersecting the given geometry (WKT)	< string > array(multi)	
Query	<b>gwithin</b> optional	Any element having its geometry contained within the given geometry (WKT)	< string > array(multi)	
Query	human optional	Human readable print	boolean	"false"
Query	include optional	List the name patterns of the field to be included in the result. Seperate patterns with a comma.	< string > array(multi)	
Query	max-age- cache optional	max-age-cache	integer(int32)	
Query	<b>notgintersect</b> optional	Any element having its geometry not intersecting the given geometry (WKT)	< string > array(multi)	
Query	<b>notgwithin</b> optional	Any element having its geometry outside the given geometry (WKT)	< string > array(multi)	
Query	<b>notpwithin</b> optional	Any element having its centroid outside the given geometry (WKT)	< string > array(multi)	
Query	<b>pretty</b> optional	Pretty print	boolean	"false"
Query	<b>pwithin</b> optional	Any element having its centroid contained within the given geometry (WKT)	< string > array(multi)	
Query	<b>q</b> optional	A full text search	string	
Query	<b>size</b> optional	The maximum number of entries or sub- entries to be returned. The default value is 10	string	"10"
Query	<b>sort</b> optional	* Sort the result on the given fields ascending or descending.  * Fields can be provided several times by separating them with a comma. The order matters.  * For a descending sort, precede the field with '-'. The sort will be ascending otherwise.	< string > array(multi)	

HTTP Code	Description	Schema
200	Successful operation	No Content

#### **Consumes**

• application/json;charset=utf-8

#### **Produces**

• application/json;charset=utf-8

### 2.2.12. Search

POST /explore/{collection}/\_search

## **Description**

Search and return the elements found in the collection, given the filters

#### **Parameters**

Туре	Name	Description	Schema
Path	collection required	collection	string
Body	<b>body</b> optional		Search

### Responses

HTTP Code	Description	Schema
200	Successful operation	ArlasHits

#### Consumes

• application/json;charset=utf-8

### **Produces**

## 2.2.13. Search

GET /explore/{collection}/\_search

## **Description**

Search and return the elements found in the collection, given the filters

Туре	Name	Description	Schema	Default
Path	<b>collection</b> required	collection	string	
Query	<b>after</b> optional	Any element having its point in time reference after the given timestamp	string	
Query	<b>before</b> optional	Any element having its point in time reference before the given timestamp	string	
Query	exclude optional	List the name patterns of the field to be excluded in the result. Seperate patterns with a comma.	< string > array(multi)	

Type	Name	Description	Schema	Default
Query	<b>f</b> optional	* A triplet for filtering the result. Multiple filter can be provided. The order does not matter.  * A triplet is composed of a field name, a comparison operator and a value.  The possible values of the comparison operator are:   Operator   Description   value type  :eq:   {fieldName} equals {comma separated values}. OR operation is applied for the specified values   numeric or strings  :ne:   {fieldName} must not equal {comma separated values}. AND operation is applied for the specified values   numeric or strings  :like:   {fieldName} is like {value}   numeric or strings  :gte:   {fieldName} is greater than or equal to {value}   numeric  :gt:   {fieldName} is greater than {value}   numeric  :lt:   {fieldName} is less than or equal to {value}   numeric  :lt:   {fieldName} is less than {value}   numeric	< string > array(multi)	

Туре	Name	Description	Schema	Default
Query	<b>from</b> optional	From index to start the search from. Defaults to 0.	string	"0"
Query	<b>gintersect</b> optional	Any element having its geometry intersecting the given geometry (WKT)	< string > array(multi)	
Query	<b>gwithin</b> optional	Any element having its geometry contained within the given geometry (WKT)	< string > array(multi)	
Query	human optional	Human readable print	boolean	"false"
Query	include optional	List the name patterns of the field to be included in the result. Seperate patterns with a comma.	< string > array(multi)	
Query	max-age- cache optional	max-age-cache	integer(int32)	
Query	<b>notgintersect</b> optional	Any element having its geometry not intersecting the given geometry (WKT)	< string > array(multi)	
Query	<b>notgwithin</b> optional	Any element having its geometry outside the given geometry (WKT)	< string > array(multi)	
Query	<b>notpwithin</b> optional	Any element having its centroid outside the given geometry (WKT)	< string > array(multi)	
Query	<b>pretty</b> optional	Pretty print	boolean	"false"
Query	<b>pwithin</b> optional	Any element having its centroid contained within the given geometry (WKT)	< string > array(multi)	
Query	<b>q</b> optional	A full text search	string	
Query	<b>size</b> optional	The maximum number of entries or sub- entries to be returned. The default value is 10	string	"10"
Query	<b>sort</b> optional	* Sort the result on the given fields ascending or descending.  * Fields can be provided several times by separating them with a comma. The order matters.  * For a descending sort, precede the field with '-'. The sort will be ascending otherwise.	string	

HTTP Code	Description	Schema
200	Successful operation	ArlasHits

## Consumes

• application/json;charset=utf-8

### **Produces**

# **Chapter 3. Definitions**

# 3.1. AggregationModel

Name	Schema
collectFct optional	string
collectField optional	string
<b>field</b> optional	string
format optional	string
interval optional	string
order optional	string
size optional	string
true optional	string
type optional	string

# 3.2. AggregationRequest

Name	Schema
aggregations optional	Aggregations
<b>filter</b> optional	Filter
form optional	Form

# 3.3. Aggregations

Name	Schema
aggregations optional	< AggregationModel > array

# 3.4. ArlasAggregation

Aggregation result

Name	Description	Schema
<b>arlastime</b> optional	All the aggregation execution time. It includes query time.	integer(int64)
<b>count</b> optional	Count	integer(int64)
<b>elements</b> optional	Sub-aggregations	< ArlasAggregation > array
<b>key</b> optional	Key	object
key_as_string optional	Key as string	object
metric aggregation optional	Metric aggregation	ArlasMetric
name optional	Name	string
<b>querytime</b> optional	Query execution time	integer(int64)
totalnb optional	Total number of hits matching the query	integer(int64)

## 3.5. ArlasError

Name	Schema
error optional	string
message optional	string
status optional	integer(int32)

## 3.6. ArlasHit

A hit retrieved from an ARLAS Collection

Name	Description	Schema
data optional	The hit's data	object
md optional	The hit's metadata	ArlasMD

## 3.7. ArlasHits

A collection of hits retrieved from ARLAS Collections

Name	Description	Schema
<b>hits</b> optional	ARLAS hits	< ArlasHit > array
<b>nbhits</b> optional	Number of hits contained in hits	integer(int64)
totalnb optional	Total number of hits matching the query	integer(int64)

## 3.8. ArlasMD

Metadata of the ARLAS hit

Name	Description	Schema
centroid optional	The centroid of the hit	object
<b>geometry</b> optional	The geometry of the hit	object
<b>id</b> optional	The unique identifier of the hit	string
timestamp optional	The timestamp of the hit	integer(int64)

## 3.9. ArlasMetric

Metric agg

Name	Description	Schema
<b>field</b> optional	field of the metric aggregation	string
type optional	Name of the metric aggregation	string
value optional	Value of the metric aggregation	number(double)

## 3.10. ArlasSuccess

Name	Schema
message optional	string
status optional	integer(int32)

# 3.11. CollectionReference

The reference to ARLAS collection that embed elasticsearch index description.

Name	Description	Schema
collection_nam e optional	The collection name	string
params optional	The collection parameters	CollectionReferenceP arameters

## 3.12. CollectionReferenceParameters

The description of the elasticsearch index and the way ARLAS API will serve it.

Name	Description	Schema
centroid_path optional	Path to the collection's centroid <b>Example</b> : "centroid"	string
exclude_fields optional	List the name patterns of the fields to be excluded in the result. Seperate patterns with a comma.  Example: "fieldname"	string

Name	Description	Schema
geometry_path optional	Path to the collection's geometry <b>Example</b> : "geometry"	string
id_path optional	Path to the collection's id  Example: "id"	string
include_fields optional	List the name patterns of the fields to be included in the result. Seperate patterns with a comma.  Example: "*"	string
index_name optional	The collection's index name	string
timestamp_pat h optional	Path to the collection's timestamp <b>Example</b> : "timestamp"	string
type_name optional	The collection's type name	string

# 3.13. Count

Name	Schema
filter optional	Filter
form optional	Form

# 3.14. Crs

Name	Schema
<b>properties</b> optional	< string, object > map
type optional	enum (name, link)

# **3.15. Feature**

Name	Schema
bbox optional	< number(double) > array

Name	Schema
<b>crs</b> optional	Crs
geometry optional	GeoJsonObject
id optional	string
properties optional	< string, object > map

# 3.16. FeatureCollection

Name	Schema
bbox optional	< number(double) > array
crs optional	Crs
features optional	< Feature > array

# **3.17. Filter**

Name	Schema
<b>after</b> optional	integer(int64)
<b>before</b> optional	integer(int64)
<b>f</b> optional	< string > array
gintersect optional	string
gwithin optional	string
notgintersect optional	string
notgwithin optional	string

Name	Schema
notpwithin optional	string
<b>pwithin</b> optional	string
<b>q</b> optional	string

## 3.18. Form

Name	Schema
human optional	boolean
<b>pretty</b> optional	boolean

# 3.19. GeoJsonObject

Name	Schema
bbox optional	< number(double) > array
crs optional	Crs

# 3.20. GeometryCollection

Polymorphism: Inheritance

Discriminator: type

Name	Schema
bbox optional	< number(double) > array
crs optional	Crs
geometries optional	< GeoJsonObject > array

# 3.21. LineString

Polymorphism: Inheritance

Discriminator: type

Name	Schema
bbox optional	< number(double) > array
coordinates optional	< LngLatAlt > array
<b>crs</b> optional	Crs

# 3.22. LngLatAlt

Name	Schema
additionalElements optional	< number(double) > array
altitude optional	number(double)
latitude optional	number(double)
longitude optional	number(double)

# 3.23. MultiLineString

Polymorphism: Inheritance

Discriminator: type

Name	Schema
bbox optional	< number(double) > array
coordinates optional	< < LngLatAlt > array > array
crs optional	Crs

## 3.24. MultiPoint

Polymorphism: Inheritance

Discriminator: type

Name	Schema
bbox optional	< number(double) > array
coordinates optional	< LngLatAlt > array
crs optional	Crs

# 3.25. MultiPolygon

Polymorphism: Inheritance

Discriminator: type

Name	Schema
bbox optional	< number(double) > array
coordinates optional	< < < LngLatAlt > array > array > array
crs optional	Crs

## 3.26. Point

Polymorphism: Inheritance

Discriminator: type

Name	Schema
bbox optional	< number(double) > array
coordinates optional	LngLatAlt
<b>crs</b> optional	Crs

# 3.27. Polygon

Polymorphism: Inheritance

Discriminator: type

Name	Schema
bbox optional	< number(double) > array
coordinates optional	< < LngLatAlt > array > array
<b>crs</b> optional	Crs

## **3.28. Search**

Name	Schema
<b>filter</b> optional	Filter
form optional	Form
size optional	Size
sort optional	Sort

## 3.29. Size

Name	Schema
from optional	integer(int32)
size optional	integer(int32)

## 3.30. Sort

Name	Schema
sort optional	string