To make the request and get Data from Movebank, use:

<http://api.jquery.com/jQuery.getJSON/>

$.ajax({

dataType: "json",

url: url,

data: data,

success: success

});

Success: function, if the request succeeds

Example url request: [https://www.movebank.org/movebank/service/public/json?&study\_id=2911040&individual\_local\_identifiers[]=4262-84830876&max\_events\_per\_individual=5&sensor\_type=gps](https://www.movebank.org/movebank/service/public/json?&study_id=2911040&individual_local_identifiers%5b%5d=4262-84830876&max_events_per_individual=5&sensor_type=gps) (public)

Request result looks like:

(-> {"individuals":[{"study\_id":2911040,"individual\_local\_identifier":"4262-84830876","individual\_taxon\_canonical\_name":"Phoebastria irrorata","sensor\_type\_id":653,"locations":[{"timestamp":1215324043998,"location\_long":-89.7400432,"location\_lat":-1.3725996},{"timestamp":1215329423999,"location\_long":-89.7400444,"location\_lat":-1.3725973},{"timestamp":1215334824998,"location\_long":-89.740062,"location\_lat":-1.3725946},{"timestamp":1215340256001,"location\_long":-89.7400632,"location\_lat":-1.3726035},{"timestamp":1215345626998,"location\_long":-89.7400716,"location\_lat":-1.3726746}]}]} )

[https://www.movebank.org/movebank/service/json-auth?&study\_id=2911040&individual\_local\_identifiers[]=4262-84830876&max\_events\_per\_individual=5&sensor\_type=gps](https://www.movebank.org/movebank/service/json-auth?&study_id=2911040&individual_local_identifiers%5b%5d=4262-84830876&max_events_per_individual=5&sensor_type=gps) (not public)

timestamp is time in milliseconds, mircrotime ( <https://currentmillis.com/>)

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To get the firebase data (json) and store it in a global variable.

<http://stackoverflow.com/questions/27953728/store-firebase-json-in-javascript-variable>

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Oenanthe:

Study individuals (in csv)

<https://www.movebank.org/movebank/service/direct-read?entity_type=individual&study_id=58672150>

* As JSON <https://www.movebank.org/movebank/service/json-auth?&entity_type=individual&study_id=58672150>

(with authentification!)

For JSON request: NECESSARY: STUDY ID (Movebank ID) & Sensor Type!!!

Zb

<https://www.movebank.org/movebank/service/json-auth?&study_id=58672150&max_events_per_individual=5&sensor_type=solar-geolocator>

only bird 1:

[https://www.movebank.org/movebank/service/json-auth?&study\_id=58672150&individual\_local\_identifiers[]=bird%201&sensor\_type=solar-geolocator](https://www.movebank.org/movebank/service/json-auth?&study_id=58672150&individual_local_identifiers%5b%5d=bird%201&sensor_type=solar-geolocator)

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White Stork Lithuania

<https://www.movebank.org/movebank/service/json-auth?&entity_type=individual&study_id=92053942>

[https://www.movebank.org/movebank/service/json-auth?&study\_id=92053942&local\_identifiers[]=15007&sensor\_type=gps](https://www.movebank.org/movebank/service/json-auth?&study_id=92053942&local_identifiers%5b%5d=15007&sensor_type=gps)

(one bird, all timestamps)

<https://www.movebank.org/movebank/service/json-auth?study_id=92053942&max_events_per_individual=5&sensor_type=gps> (only 5 timestamps)

[https://www.movebank.org/movebank/service/json-auth?study\_id=92053942&individual\_local\_identifiers[]=15007&max\_events\_per\_individual=5&sensor\_type=gps](https://www.movebank.org/movebank/service/json-auth?study_id=92053942&individual_local_identifiers%5b%5d=15007&max_events_per_individual=5&sensor_type=gps) (one bird, 5 timestamps)

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Black Stork

<https://www.movebank.org/movebank/service/json-auth?study_id=102703103&max_events_per_individual=5&sensor_type=gps>

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Forest Elephants

[https://www.movebank.org/movebank/service/json-auth?study\_id=1818825&individual\_local\_identifiers[]=00038386VTIA3F7&max\_events\_per\_individual=50000&sensor\_type=gps](https://www.movebank.org/movebank/service/json-auth?study_id=1818825&individual_local_identifiers%5b%5d=00038386VTIA3F7&max_events_per_individual=50000&sensor_type=gps)

individuals: <https://www.movebank.org/movebank/service/json-auth?&entity_type=individual&study_id=1818825>

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False Killer Whale

[https://www.movebank.org/movebank/service/json-auth?&study\_id=17196801&individual\_local\_identifiers[]=128881-Pc-NWHI&sensor\_type=argos-doppler-shift](https://www.movebank.org/movebank/service/json-auth?&study_id=17196801&individual_local_identifiers%5b%5d=128881-Pc-NWHI&sensor_type=argos-doppler-shift)

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Ozelot (radio-transmitter)

https://www.movebank.org/movebank/service/json-auth?&study\_id=123413&individual\_local\_identifiers[]=Barrote&sensor\_type=radio-transmitter

Black Skimmer (name!!!)

[https://www.movebank.org/movebank/service/json-auth?&study\_id=126103076&individual\_local\_identifiers[]=2012-BLSK-01 "Eleanor"&sensor\_type=argos-doppler-shift](https://www.movebank.org/movebank/service/json-auth?&study_id=126103076&individual_local_identifiers%5b%5d=2012-BLSK-01%20%22Eleanor%22&sensor_type=argos-doppler-shift)

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Different animals

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Study name | White Stork Lithuania GPS 2015 | Oenanthe oenanthe Turdidae Uppsala | Black Stork Lithuania GPS 2015 | Forest Elephant Telemetry Programme | False Killer Whales - Northwestern Hawaiian Islands- PIFSC |
| Animal name | White Stork (Ciconia ciconia) | Wheatear (Oenanthe oenanthe) | Black Stork (Ciconia nigra) | African Elephant (Loxodonta africana) | False Killer Whale (Pseudorca crassidens) |
| Study-id | 92053942 | 58672150 | 102703103 | 1818825 | 17196801 |
| Sensor type | gps | solar-geolocator | gps | gps | argos-doppler-shift |
| # of animals | 3 | 28 | 2 | 30 | 2 |
| Individuals | 15007, 15013, 150014 | bird 1, […] bird 12,[..] | 15011, 15012 | 00038386VTIA3F7 00039109VTI7E16  00039372VTI1F39  00039561VTI96EA  00039576VTI5335  131, 132, 133, […] | 128881-Pc-NWHI  128883-Pc-NWHI |
| Public? | No | No | no | yes | yes |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Study name | Tsavo Lion Study | BCI Agouti | BCI Ocelot | Trans-Andean and divergent migration of Black Skimmers (data from Davenport et al. 2016) |  |
| Animal name | Lion (Panthera leo) | Agouti (Dasyprocta) | Ocelot (Leopardus pardalis) | Black Skimmer (Rynchops niger) |  |
| Study-id | 220229 | 82207 | 123413 | 126103076 |  |
| Sensor type | Gps | gps | Radio-transmitter | Argos-doppler-shift |  |
| # of animals | 3 | 1 | 11 | 8 |  |
| Individuals | Diana  Kiboche  Romeo | Lab Rat | Barrote, Bobby, Darlen, Encito, Estrella, Franja,  Isaac, Mancha, Moteado, Oreja, Yara | 2012-BLSK-01 "Eleanor"  2014-BLSK-01 "Orchid"  2014-BLSK-02 "Vicky"  2014-BLSK-03 "Hugo"  2014-BLSK-04 "Marina"  2014-BLSK-05 "Erasmo"  2014-BLSK-06 "Manuel"  2014-BLSK-07 "Alfred" |  |
| Public? | yes | yes | yes | yes |  |

JSON REQUEST FORM: (not public)

Request for 1 individual:

https://www.movebank.org/movebank/service/json-auth?&study\_id=[..]&individual\_local\_identifiers[]= [..]&sensor\_type=[..]

Request for individuals of study:

https://www.movebank.org/movebank/service/json-auth?&entity\_type=individual&study\_id=[..]

Request for max events per Individual (all animals):

https://www.movebank.org/movebank/service/json-auth?study\_id=[..]&max\_events\_per\_individual=5&sensor\_type=[..]

Request for 1 individual, 5 timestamps:

https://www.movebank.org/movebank/service/json-auth?study\_id=[..]&individual\_local\_identifiers[]=[..]&max\_events\_per\_individual=5&sensor\_type=[..]

The timestamps are provided in milliseconds since 1970-01-01 UTC, and coordinates are in WGS84.