20240831 Dataset Crane Lita READ ME.odt

This document contains the information collected on 20240831Sa from the Movebank website about the Lithuanian common crane (Grus grus) with GPS Tracker ID 16121.

Because the crane is from Lithuania we named this crane 'Lita' in the documentation of The GeoStack Project which sounds a lot nicer than just 'crane 16121'.

This crane was ringed with color rings and also equipped with a GPS tracker in 2016 with the first recorded GPS logging on 20160730Sa and the last one on 20220330We.

It is unknown why there are no new GPS loggings after the last logging date for this crane but the 3 most likely reasons are: 1) the bird is not alive anymore because of a predator, an accident, the bird flue or another cause, 2) the GPS tracker is not working anymore because of a technical defect or 3) the dataset owner stopped the data publishing.

This document was compiled to help understand the dataset snapshot that was made to ensure the dataset is available at all times from our GeoStack Dataset repository, just in case the dataset would not be downloadable anymore from the Movebank website.

LICENCE TERMS FOR DATASET USE: Publication permission of this dataset snapshot on the GeoStack website was granted on 20220317Th by the dataset contact person Ramūnas Žydelis under the restriction the dataset is used FOR EDUCATION PURPOSES ONLY!

This means you can freely download and use the dataset for the GeoStack's Workshop and the GeoStack's Course as intended in the documentation of The GeoStack Project.

The dataset snapshot consists of two dataset files:

- 1. 20240831 Dataset Crane Lita Reference Data.csv
 - 1. This file contains the reference information on the animal and the GPS tracker.
 - 2. The animal species is the common crane (Grus grus) and the tracker is the OrniTrack-L40 from manufacturer Ornitela with GPS tracker ID 16121.
- 2. 20240831 Dataset Crane Lita GPS Locations.csv
 - 1. This file contains the GPS trackers's logging messages with the GPS locations.
 - 2. This is a large file of 105,6 MB and it holds a total of 429306 GPS locations collected over a period of almost 6 years.

Viewing the dataset snapshot files:

- 20240831_Dataset_Snapshot_Crane_Lita_Reference_Data.csv
 - 1. This is a small file that can easily be viewed in the spreadsheet program LibreOffice Calc.
 - It consists of 2 rows with the field names as the worksheet's column names in the first row and the information in the second row.
 - 2. Note: when opening the file check if the field 'Character set' is set to 'Unicode (UTF-8)' and not 'Unicode (UTF-16)' to get the text displayed correctly!
 - 3. Of course the CSV file can be opened in a programming editor but that will not give the nice tabular presentation in columns as the long lines are wrapped.

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- 2. 20240831_Dataset_Snapshot_Crane_Lita_GPS_Locations.csv
 - 1. This file can also be opened in LibreOffice Calc and again check the character set is set correctly to 'Unicode (UTF-8)' and be aware it may take 15 30 seconds to read the entire file into the spreadsheet and render it for display on the screen, depending on how fast your computer is.
 - 2. The spreadsheet table will show 429307 rows of which the first row holds the field names and the other 429306 rows hold the GPS tracker's logging messages with a date-time stamp, the GPS location and other technical values from different sensors in the tracker that might be quite interesting too to study!

Weblink for crane Lita on Movebank.org

- 1. The information and datasets for crane Lita can be found on this Study webpage:
 - 1. <u>Study Common Crane Lithuania GPS, 2016</u> (= weblink above)
- 2. Snapshot of Information Web Pages
 - 1. The contents from the 4 information web pages 'Study Details', 'Animal Details', 'Deployment Details' and 'Tag Details' were copied into this document on the pages below as a 'Freeze Frame' on the snapshot date of 20240831Sa.
- 3. Dataset Download (If still available on the Movebank website.)
 - 1. On the Study webpage click 'File Formats' in the left window pane under the title weblink 'Study Common Crane Lithuania GPS, 2016'.
 - 2. Click the pull-down menu 'Downloads' and select either the dataset or the reference data to download.
 - 3. Now select the desired file format in the pop-up window, like the CSV file format.
 - 4. Finally click the 'Download' button to save the selected data file.

Weblinks for Background Information on Terminology and Datasets

- 1. Study details
 - 1. https://www.movebank.org/cms/movebank-content/studies-page#study details
- 2. Dataset attributes
 - 1. https://www.movebank.org/cms/movebank-content/movebank-attribute-dictionary
- 3. Movebank Data Model
 - 1. https://www.movebank.org/cms/movebank-content/mb-data-model#reference data

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Snapshot of Information Webpages for crane Lita

Below are the 'Freeze Frame' copies of the contents from the 4 information web pages 'Study Details', 'Animal Details', 'Deployment Details' and 'Tag Details', just in case a future download from Movebank is not possible anymore.

Study Details

Weblink:

https://www.movebank.org/cms/webapp?gwt_fragment=page%3Dstudies%2Cpath %3Dstudy195375760

Study Details

Study Name Common Crane Lithuania GPS, 2016

Contact Person Ramūnas Žydelis

Principal Investigator <u>Mindaugas Dagys & Ramūnas Žydelis</u>

Citation unpublished and ongoing study by Ornitela

Acknowledgements Valentinas Pabrinkis, Lithuanian University of Educational Sciences

Grants used

License Type Custom License Terms not set

Crane investigations in Lithuania using GPS telemetry have been

initiated by Mindaugas Dagys and Ramūnas Žydelis. In this study

Study Summary we use OrniTrack solar powered GPS-GSM/GPRS transmitter that

is mounted on birds leg. The data is uploaded to Movebank using

Ornitela live feed.

Study Reference

Location

Longitude 24.620 Latitude 54.610 Movebank ID 195375760

Study Statistics

Number of Animals 1
Number of Tags 1
Number of Deployments 1

Time of First Deployed Location 2016-07-30 06:43:06.000 Time of Last Deployed Location 2022-03-30 11:05:19.000

Taxa Grus grus
Number of Deployed Locations 429306

Number of Records Deployed (outliers) / Total (outliers)

GPS 429306 (0) / 430919 (0)

Animal Details

Weblink:

https://www.movebank.org/movebank/#page=studies,path=study195375760+individual195375963

Animal Details

Animal Id 16121
Taxon Grus grus
Taxon Detail not set
Sex not set
Nick Name not set
Comments not set

Birth/Hatch Latitude not set Birth/Hatch Longitude *not set* **Death Comments** not set Exact Date of Birth not set Group ID not set Latest Date Born not set Marker ID not set Mates not set Mortality Latitude not set Mortality Longitude not set Mortality Type not set Mortality Date not set Offspring not set Parents not set Ring ID not set Siblings not set

Animal Statistics

Time of First Location 2016-07-30 06:43:06.000 Time of Last Location 2022-03-30 11:05:19.000

Number of Locations 429306

Number of Records Valid (outlier) GPS 429306 (0)

Deployment Details

Weblink:

 $\frac{https://www.movebank.org/movebank/\#page=studies,path=study195375760+tag19537606}{5+deployment195376924}$

Deployment Details

Animal	<u>16121</u>
Tag	<u>16121</u>

Start of tag deployment 2016-07-30 06:40:00.000

End of tag deployment not set Deploy on person not set Deploy off person not set Deployment Id 16121 Comments not set Alternative Project ID not set Animal Life Stage adult **Animal Mass** not set Animal Reproductive Condition breeding **Attachment Body Part** not set **Attachment Comments** not set Attachment Type other Behavior According To not set Capture Handling Time not set Capture Latitude not set Capture Longitude not set Capture Method not set Capture Timestamp not set **DBA Comments** not set **Data Processing Software** not set Deploy On Latitude not set Deploy On Longitude not set **Deploy-On Measurements** not set Deploy-On Sampling not set **Deploy Off Latitude** not set Deploy Off Longitude not set **Deploy-Off Measurements** not set Deploy-Off Sampling not set **Deployment End Comments** not set Deployment End Type not set Deployment Image not set

Duty Cycle not set Geolocator Calibration not set Geolocator Light Threshold not set Geolocator Sensor Comments not set Geolocator Sun Elevation Angle not set Georeference Protocol not set Habitat According To not set **Locality According To** not set **Location Accuracy Comments** not set **Manipulation Comments** not set **Manipulation Type** not set **Outlier Comments** not set Scheduled Detachment Date not set Study Site not set Tag Calibration not set Tag Firmware not set Tag Mass Total not set

Tag Readout Method phone-network

Tag Retrieval Date not set
Tag Settings not set

Deployment Statistics

Time of First Location 2016-07-30 06:43:06.000 Time of Last Location 2022-03-30 11:05:19.000

Number of Locations 429306

Number of Records Valid (outlier)
GPS 429306 (0)

Tag Details

Weblink:

https://www.movebank.org/movebank/#page%3Dstudies%2Cpath %3Dstudy195375760%2Btag195376065

Tag Details

Tag Id16121Sensor TypesGPSManufacturer NameOrnitela

Model OrniTrack-L40

Serial Number 16121 Mass (in grams) 40.0

Comments leg-mount transmitter

Tag Failure Comments not set
Processing Type not set
Beacon Frequency not set
Tag Production Date June 2016

Tag Statistics

Time of First Location 2016-07-30 06:43:06.000 Time of Last Location 2022-03-30 11:05:19.000

Number of Locations 429306

Number of Records Deployed (outliers) / Total (outliers)

GPS 429306 (0) / 430919 (0)