

Geographical coordinates / GPS recording protocol

INTRODUCTION

To record the geographical coordinates of the farm, we need to work in an earth fixed global reference frame. **Longitude-latitude/WGS84** is the chosen reference coordinate system (to indicate when initializing the GPS device). Indicate **longitude and latitude** in decimal degrees and not in degrees, minutes and seconds. A transformation tool from degrees, minutes and seconds to decimal degrees is available at the following url : <http://www.unn.ac.uk/~evgp1/gary/deg2dec.htm>.

The "Data to collect" indications are subdivided in two parts. The second part is to be filled up only if it wasn't possible for you to respect the indications concerning the requested coordinate system. In this case, do not forget to fill up the **Altitude** and the closest locality (ies) of the first part.

GPS DEVICE

Standard basic GPS device will be appropriate for this work. Suggested brands are :

- Garmin "eTrex Summit" (price in US is about \$270; you can order them at <http://www.garmin.com/products/etrexsummit/>) or else
- Magellan "Meridian" GPS (price in US is about \$220, and you can order it at http://www.magellangps.com/products/Meridian_GPS_specs.htm).

USING MAPS TO DETERMINE GEOGRAPHICAL COORDINATES

If maps with sufficient accuracy are available (up to 1: 100'000) and you plan to use it to calculate farm location, be aware that most local maps use local national reference frames and that **you have to transform the coordinates in longitude-latitude/WGS84** standard coordinate system (<http://www.wgs84.com>), **before transmitting the localization information**. If you are really in trouble (**only in this case!**) with the transformation of coordinates, transmit local coordinates together with information on the local reference frame used in your map. Be sure to evidence that you are transmitting data NOT in longitude/latitude WGS84 system!

DATA TO COLLECT

- Record Geographical coordinates of the **farm** according to the introduction's indications :

Longitude:/
Latitude: /
Altitude: meters

Name of the closest locality(s). a)...../
b)...../

- If the breed is transhumant, take both the coordinates of the farm (above) and of **transhumance** destination. As a control check, indicate the name of the closest locality(s).

Coordinates of the farm transhumance destination:

Longitude:

Latitude:

Altitude:meters

Name of the closest **locality(s)**. a)...../
b)...../

If you're not using the requested coordinate system AND not able to transform the geographical coordinates, please answer the following questions.

- Which coordinate system you are using ? (exact name and description)

Name :

Description :

.....

- Geographical coordinates of the farm **in the coordinate system you mentioned above:**

Longitude:

Latitude:

- Geographical coordinates of the transhumant destination **in the coordinate system you mentioned above:**

Longitude:

Latitude: