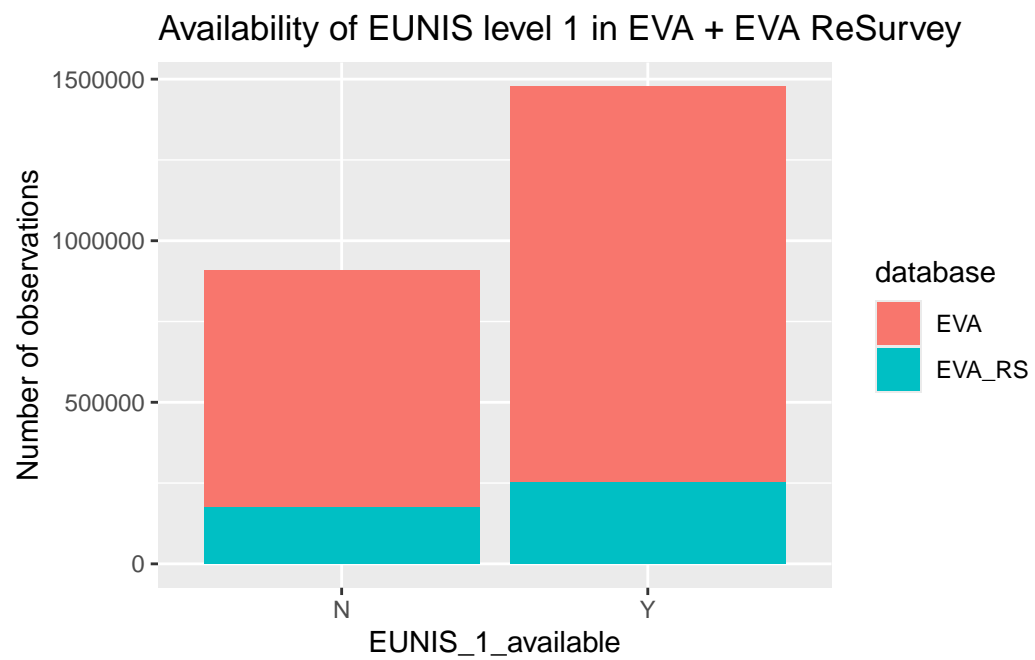
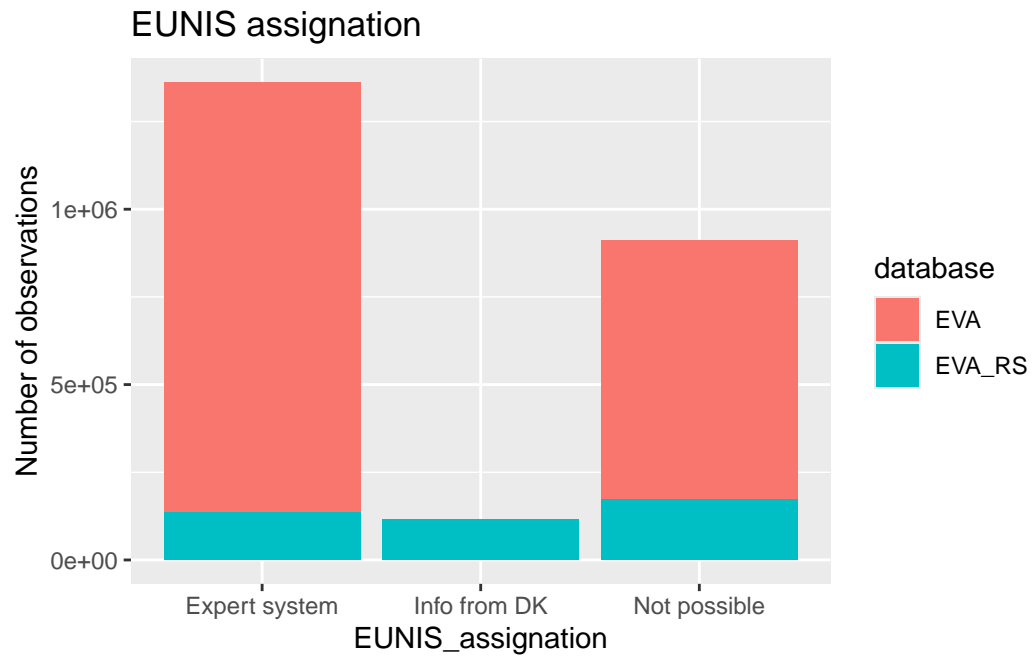


Script to check accuracy and % of missing EUNIS for EVA and EVA Resurvey

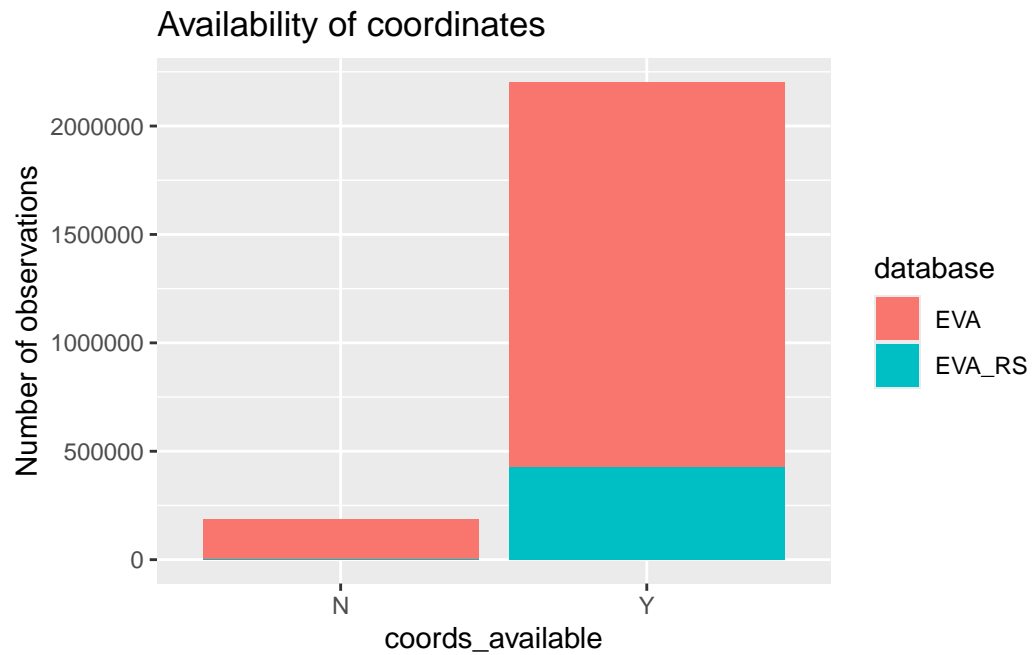
## EUNIS level 1 availability



## EUNIS assignation



## Coordinates available

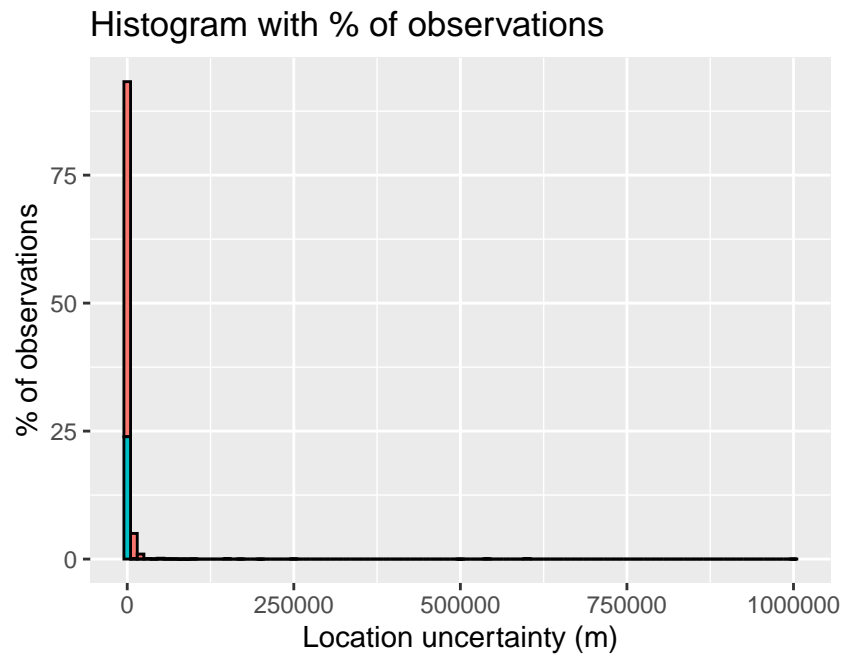


## Location uncertainty

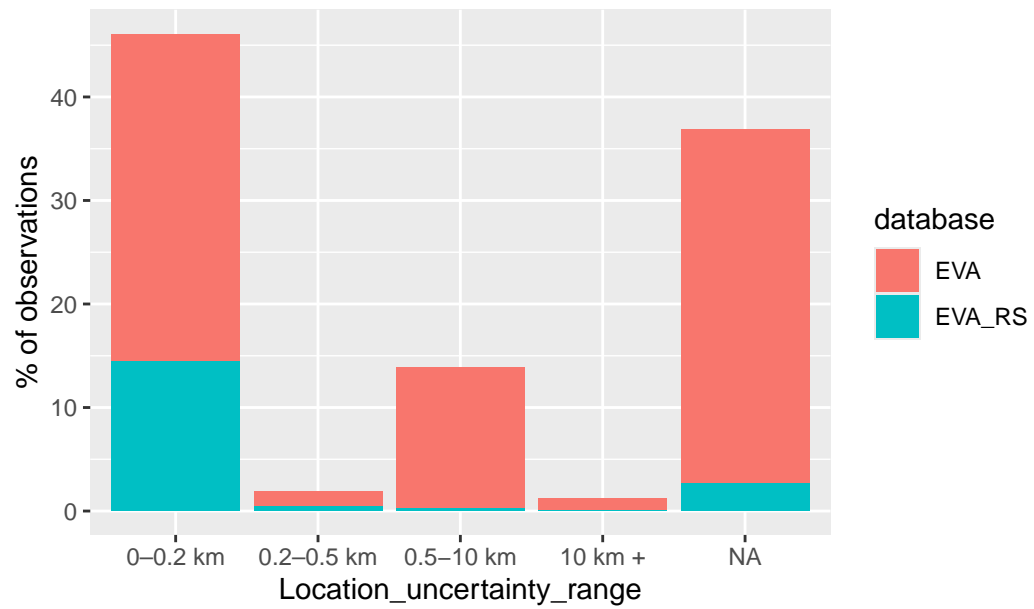
### Availability



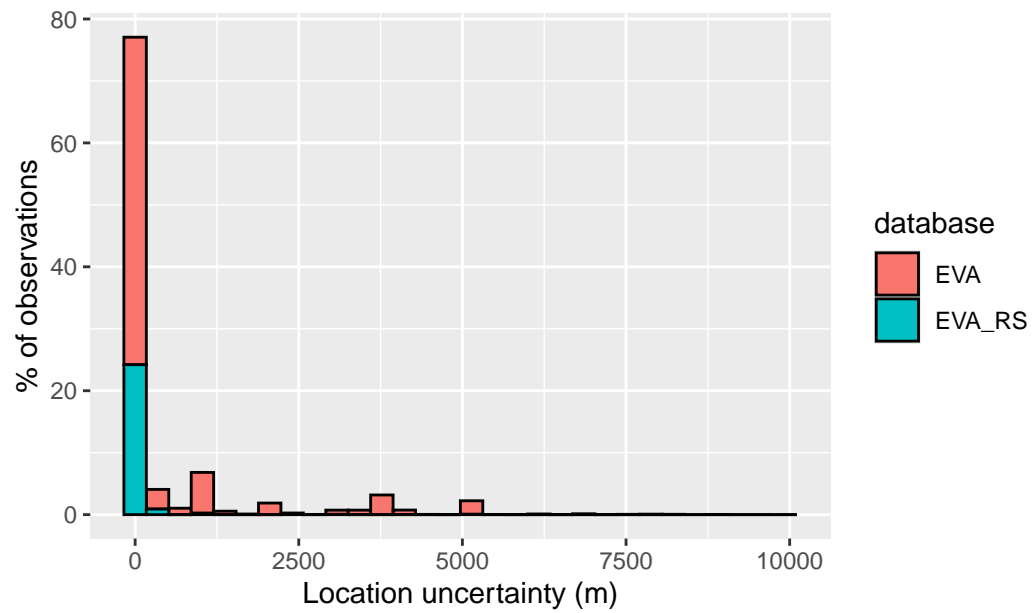
### Distribution when available

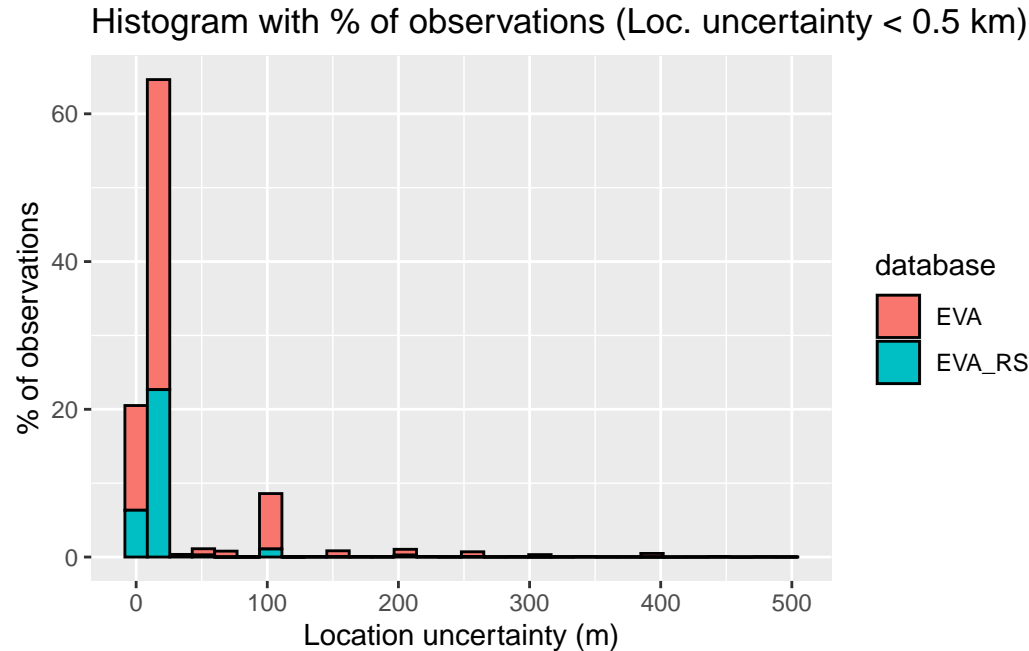


Range of location uncertainty



Histogram with % of observations (Loc. uncertainty < 10 km)





## TO DO: Location uncertainty (last resurveys for EVA\_RS)

Extract last resurvey for each each ReSurvey plot (defined by combination of RS\_CODE, ReSurvey site and ReSurvey plot). So far, discard 111 resurvey observations corresponding to ReSurvey project “Swiss arable flora since the 1920s” (RS\_CODE = CH\_0002) where ReSurvey plot is NA.

Careful! There are plots with multiple records for the last year (and also for other years).

Solve this first and check location uncertainty for last resurveys later on.

## Check for plots with multiple records for the same year

For 2100 unique combinations of RS\_CODE, ReSurvey site, ReSurvey plot and year, there are multiple records, sometimes with different dates within the year (OK - we choose one), **but also with the same exact date.**

Example below:

##	PlotObservationID	RS_CODE	ReSurvey.site	ReSurvey.plot	year	date
## 1	748986	CZ_0019_001	N_Cep	N_Cep	1952	1952-09-12
## 2	748990	CZ_0019_001	N_Cep	N_Cep	1952	1952-09-12
## 3	748991	CZ_0019_001	N_Cep	N_Cep	1952	1952-09-12
## 4	748992	CZ_0019_001	N_Cep	N_Cep	1952	1952-09-12
## 5	748993	CZ_0019_001	N_Cep	N_Cep	1952	1952-09-12
## 6	749003	CZ_0019_001	N_Cep	N_Cep	1952	1952-09-22
## 7	749004	CZ_0019_001	N_Cep	N_Cep	1952	1952-09-22
## 8	749018	CZ_0019_001	N_Cep	N_Cep	1952	1952-09-12
## 9	749028	CZ_0019_001	N_Cep	N_Cep	1952	1952-09-12
##	count	Country	EUNISa	ReSurvey.project	ReSurvey.observation	Lon_updated
## 1	9	Czech Republic	<NA>	TrebonFens	N_Cep_1_1952	14.83889

## 2	9 Czech Republic	Q22	TrebonFens	N_Cep_2_1952	14.83472
## 3	9 Czech Republic	Q22	TrebonFens	N_Cep_3_1952	14.83472
## 4	9 Czech Republic	Q22	TrebonFens	N_Cep_4_1952	14.83472
## 5	9 Czech Republic	Q22	TrebonFens	N_Cep_5_1952	14.82917
## 6	9 Czech Republic	Q24	TrebonFens	N_Cep_6_1952	14.83472
## 7	9 Czech Republic	Q24	TrebonFens	N_Cep_7_1952	14.83472
## 8	9 Czech Republic	Q22	TrebonFens	N_Cep_8_1952	14.83472
## 9	9 Czech Republic	Q22	TrebonFens	N_Cep_9_1952	14.83750
##	Lat_updated				
## 1	48.91944				
## 2	48.92083				
## 3	48.92083				
## 4	48.92083				
## 5	48.92222				
## 6	48.92083				
## 7	48.92083				
## 8	48.92083				
## 9	48.92083				

I have sent a list to Ilona to see what to do with this issue.

## Keep GOOD observations WP3

Defining “good” observations as those that **have an EUNIS assigned** (any level) and where **location uncertainty is available and  $< 0.5$  km** (decide if we use 0.2 or other value?).

From **EVA + EVA ReSurvey**, the **proportion of “good” observations** according to these criteria is **0.231**.

From **EVA ReSurvey only**, the **proportion of “good” observations** according to these criteria is **0.484**.

From **EVA + EVA ReSurvey**, the **proportion of observations with EUNIS assigned, irrespective of location uncertainty** is **0.619**.

From **EVA ReSurvey only**, the **proportion of observations with EUNIS assigned, irrespective of location uncertainty** is **0.591**.

Maybe include those without location uncertainty but where location method is GPS, etc.?

## Check for plots with multiple records for the same year in “good” observations

## Keep GOOD observations that do not have multiple records for the same year

From **EVA + EVA ReSurvey**, the **proportion of “good” observations** according to the above criteria that do not have multiple records for the same year is **0.229**.

From **EVA ReSurvey only**, the **proportion of “good” observations** according to the above criteria that do not have multiple records for the same year is **0.473**.