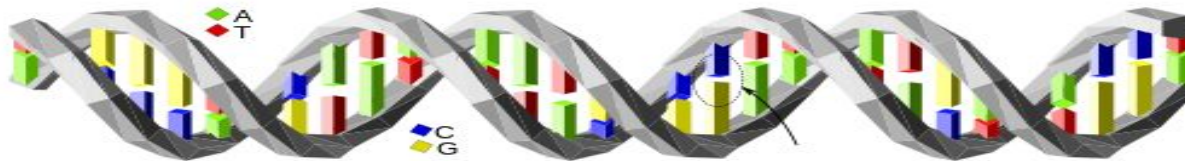


Cryptic species. Database Representation Issues

Скрытые виды.
Проблемы представления в базе данных



Maria A. Kolesnikova

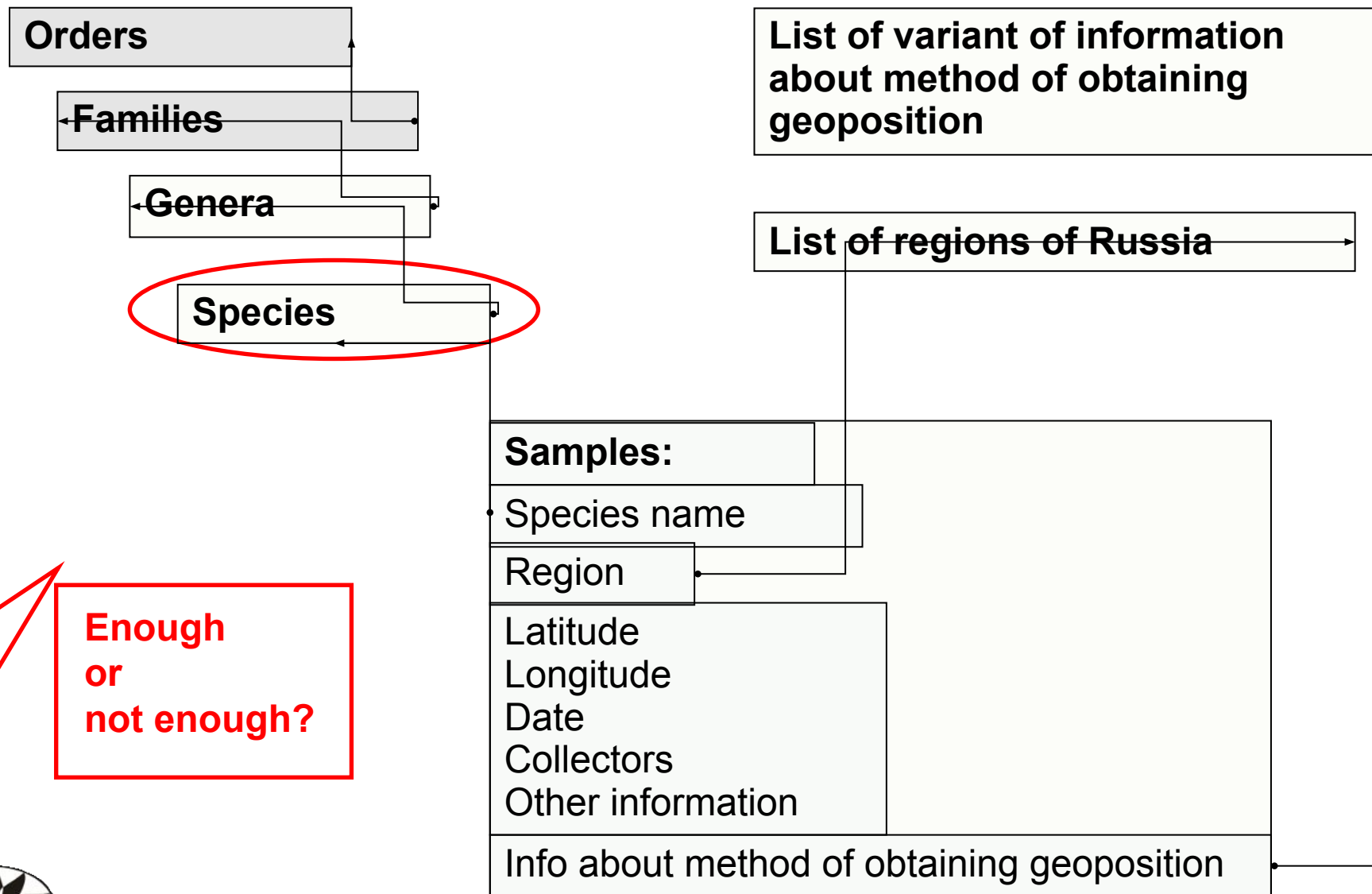


Tsitsin Main Botanical Garden, RAS, Moscow

8-я конференция, посвященная памяти профессора Алексея Константиновича Скворцова

«Скрытые виды и внутривидовое разнообразие»

Scheme of the Flora database of mosses in Russia.





Ulota crispa s.l.

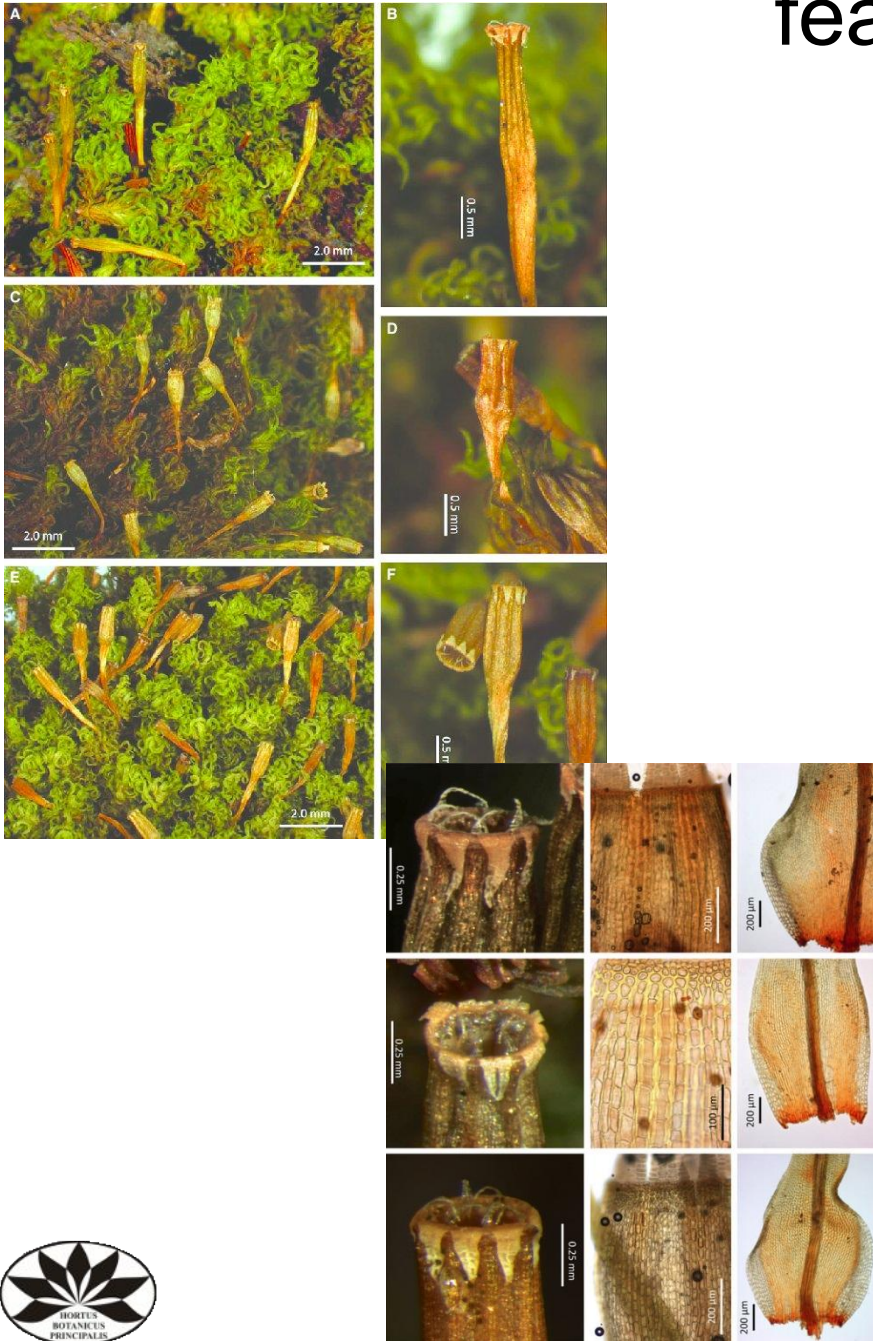
split to *U. crispa* s.str., *U. crispula*, *U. intermedia*
(Caparros et al., 2016)
differences in sporophyte characters
impossible to identify without sporophytes



Split into three species. Morphological features and sequence analysis

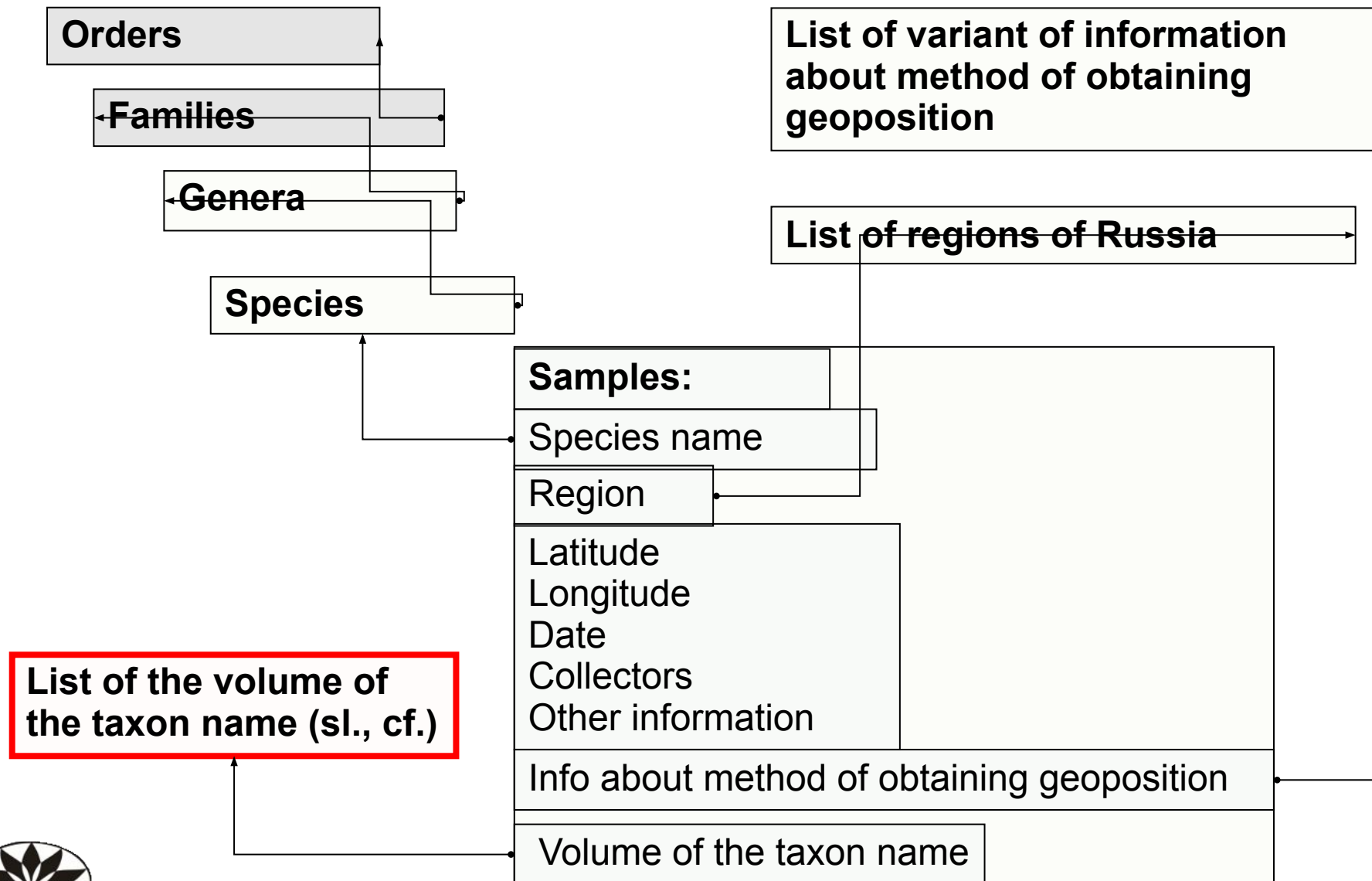
Not always possible to identify by morphology

But some difference in sequence



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TTGATGCAACTCAGATTATTTTTTAGTAAATAATTTTTATTTGTTTAAGCATTGA
TTGATGCAACTCAGATTATTTTTTAGTAAATAATTTTTATTTGTTTAAGCATTGA
TTGATGCAACTCAGATTATTTTTTAGTAAATAATTTTTATTTGTTTAAGCATTGA
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TTTATGCAACTCAGATTATTTTTTAATAAATAATTTTTATTTGTTTAAGCATTGA
```

Scheme of the Flora database of mosses in Russia.



order-family- genus- Ulota species- Ulota crispa

☐ excluding sl ☐ excluding cf

order-family- genus- Ulota species- Ulota crispa

☒ excluding sl ☐ excluding cf



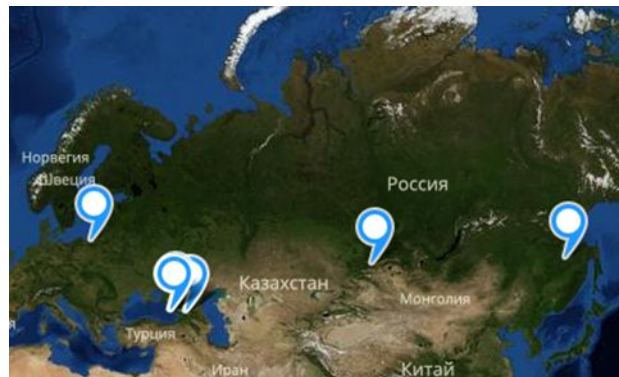
What are these?

Ulota crispa s.l.

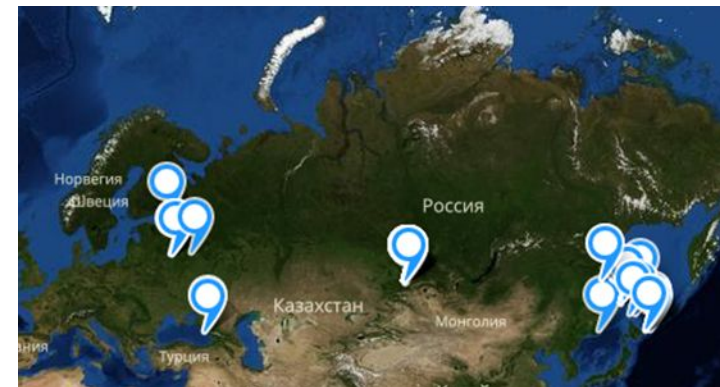
1) still unrevised collections
(likely will be reidentified as
U. intermedia, or partly *U.*
crispula)

2) plants without
sporophytes (likely will never
be identified to species level)

Ulota crispa s.str.



Ulota crispula

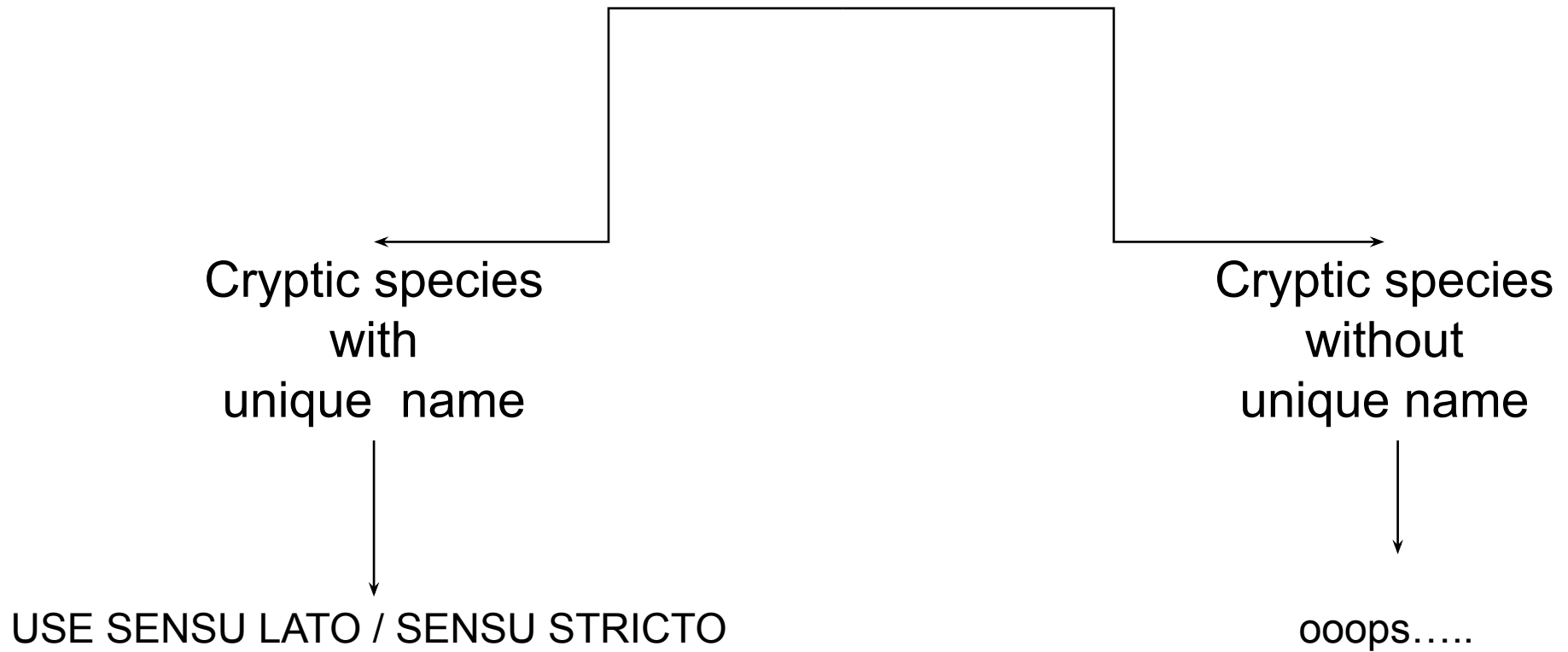


Ulota intermedia

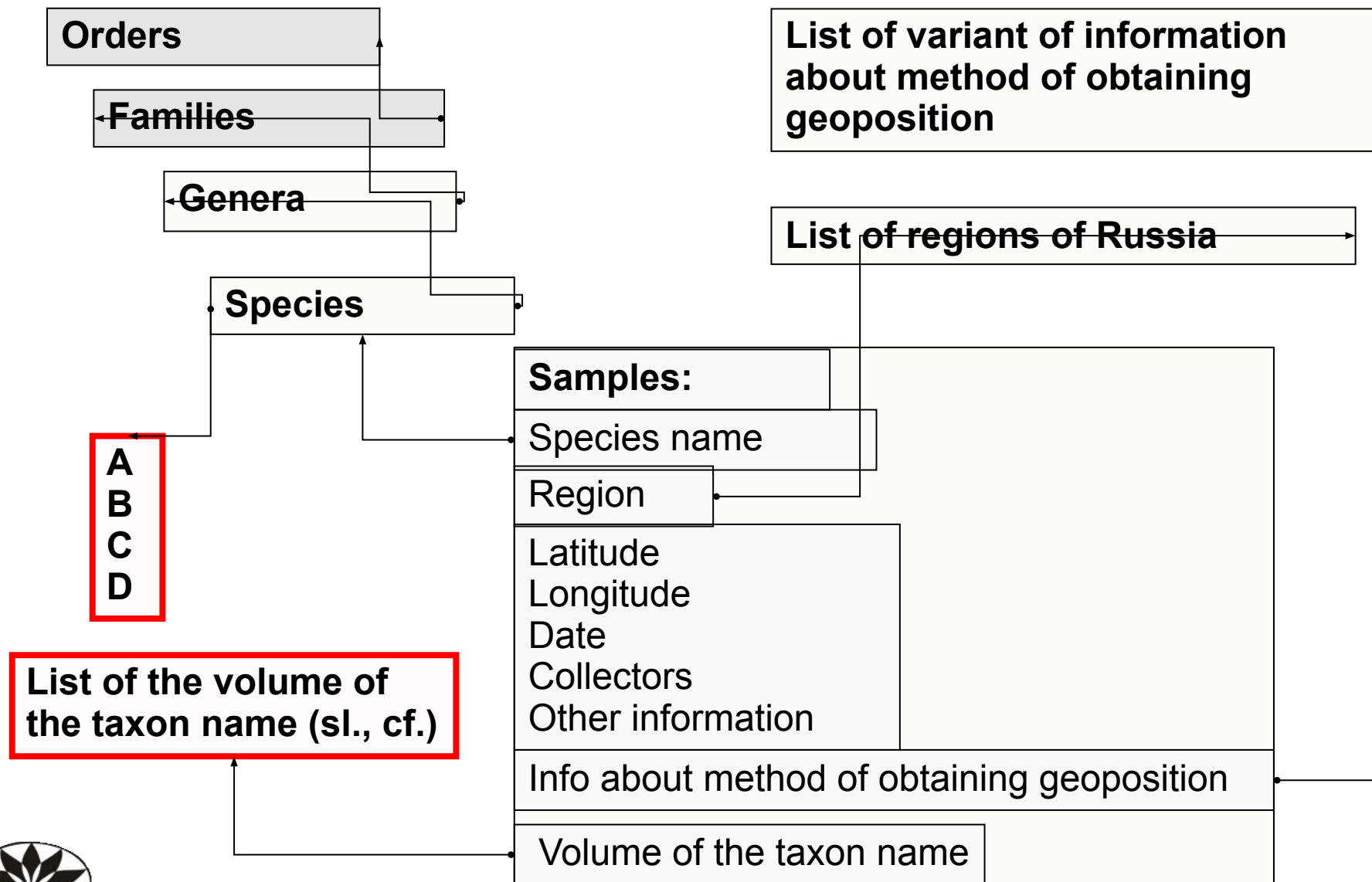
Most databases include the field GEOPOSITION ACCURACY
DO WE NEED the field **IDENTIFICATION ACCURACY** as well?

If yes, the field **SENSU LATO** could be a variant how to approach to this

Two different situations



Scheme of the Flora database of mosses in Russia.



Thank you for attention!

Questions and suggestions can be sent to the email

mary_co1840@mail.ru

