#### **Good Data**

GIGO!! Garbage in, garbage out Quality of data

- ✓ accurate
- ✓ meet standard requirements
- inaccurate data wastes money, time and effort
- fails to answer your research question

## Best practice in Collecting data

Standardize common methods of collection and storage to maximize the potential outputs for each specimen and to facilitate collaboration between researchers from different institutions, countries and regions

#### Field data

What data do we collect in the field? (apart from date & collector names)

Location data

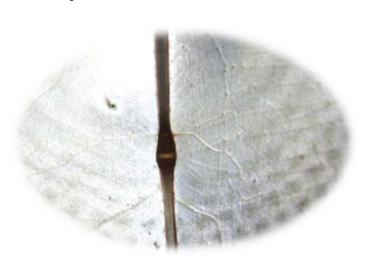
Specimens data

#### **Location data**

- Locality; name of location, village, district, province, country, landmark –direction, distance
- Co-ordinates; latitude, longitude
   (decimal degree is preferred); always note GEO code
- Altitude; can be min-max altitude, ground validation
- Habitat description; and photo of habitat
- Weather; moon-phase
- Presence of disturbance, threat
- Trapping effort
- -ANYHTING ELSES?
- -personal notebook

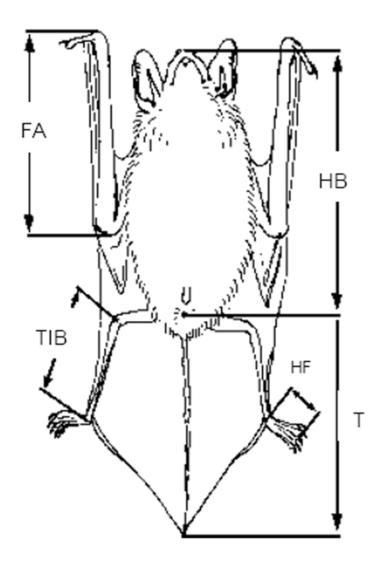
## Specimen data

- Capture information
   date; time; collector; capture method
- Sex
- Age
- Reproduction status
- Body mass
- Species name (if possible)



## Morphometric data

• • •



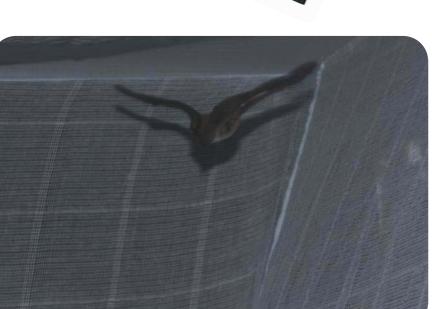
#### As in field note

#### **Acoustic data**

- Number (or name) of sound files
- Recording methods

. . .





## Photographic data

- Number of picture files

#### What shots do we take?

Examples: Rhinolophus





### What shots do we take?

Examples: *Hipposideros* 







#### What shots do we take?

Examples: Vesper bats

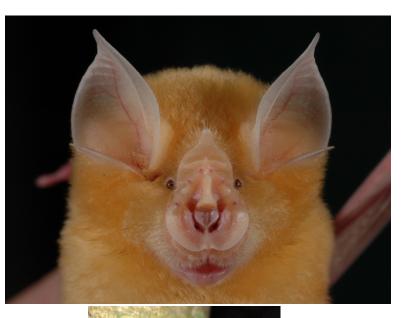








## Don't forget a cute shot!









# FAMILY CRASEONYCTERIDAE FAMILY PTEROPODIDAE FAMILY MEGADERMATIDAE FAMILY NYCTERIDAE FAMILY EMBALLONURIDAE FAMILY HIPPOSIDERIDAE FAMILY RHINGLOPHIDAE FAMILY VESPERTILIONIDAE

## **Genetic samples**

#### Codes of...

- Wing puncture
- Liver
- Tongue

#### Storage...

- In the field: absolute alc.; dry ice or ice gel, buffer
- In lab: deep freez e.g. -20°C or -80°C

# What else should we collect in the field?

- Ectoparasites?
- Feaces?

## Museum specimens



## Museum specimens

- Label must be made properly!
  - -fluid specimens only field no.?
  - -dry skin; skull -- full

## Data archiving

- Field notes
  - keep in folder sorted by year/date
  - scan to PDFs

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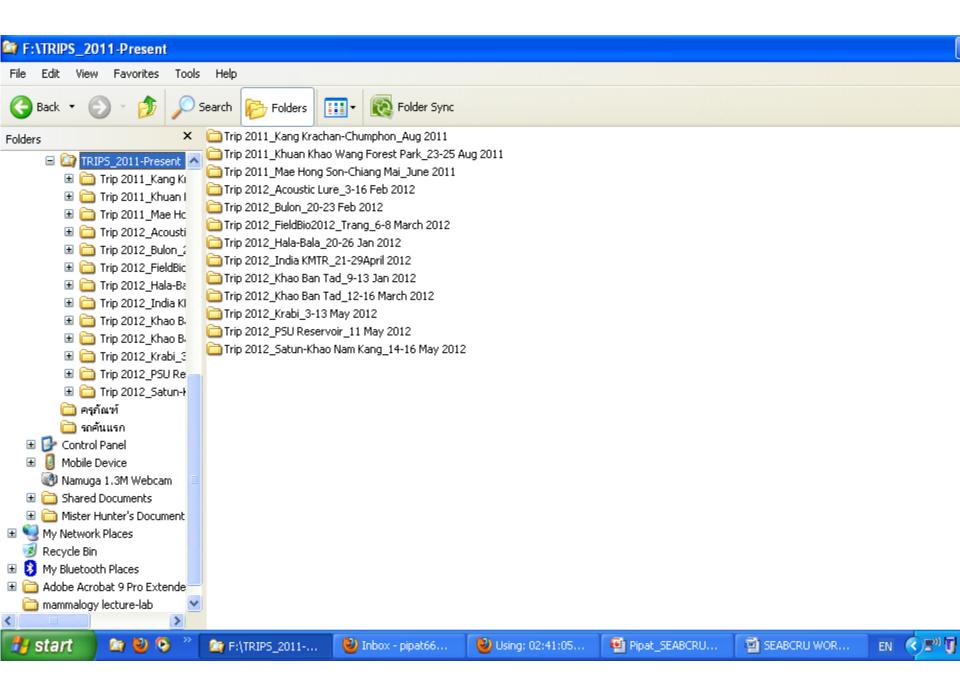
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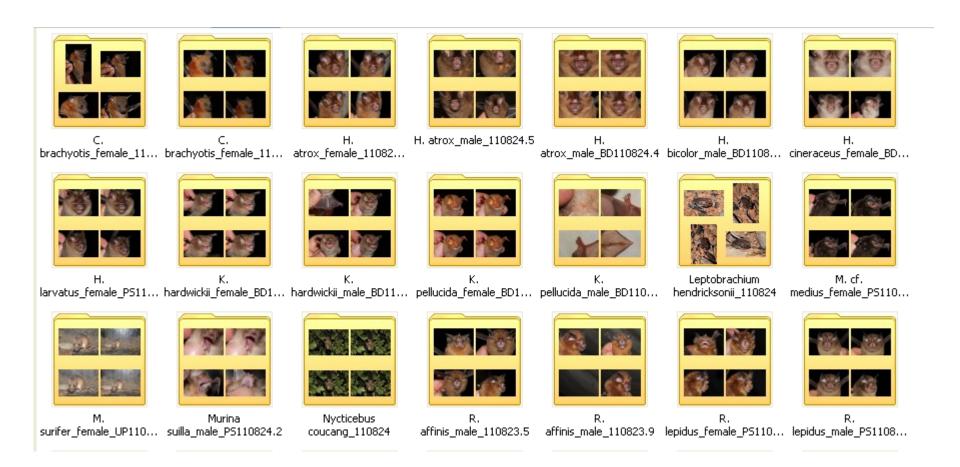
Status/Age: Preg=Pregnant; Lac=Lactating; Ad.=Adult; Juv =Juvenile; Imm.=Immature Recording Method: Hand-in hand held; Bag-in bag; Hrel-Hand release; Fily-free flying; Zip-Zipline

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#### **Photos & Calls archives**



## **Call library**

