LAS 6292: PAPERLESS DATA COLLECTION

updated: 2021-05-21

Pre-Class Preparation (Instructor):

Send in an email to students:

- Reminder to install epicollect app on phone or tablet

Bring to Class:

- Snacks
- Flip charts and markers
- Dry write markers
- Tent cards for student names

Objectives and Competencies:

- Be able to explain the advantages of paperless data collection
- Identify means of preventing data loss when collecting data electronically
- Learn how to build a form, and collect, upload, and download data using EpiCollect

Pre-class Preparation (Students):

Download the Epicollect app to a phone or tablet (if you need one let me know).

- Android

- Apple

Readings

1. Aanensen DM, Huntley DM, Feil EJ, al-Own F, Spratt BG (2009) EpiCollect: Linking Smart-phones to Web Applications for Epidemiology, Ecology and Community Data Collection. PLoS ONE 4(9): e6968.
   [read online] [download pdf]

2. Moylan, CA et al. 2013. Increasingly mobile: How new technologies can enhance qualitative research. Qualitative social work: research and practice, 14(1):36-47.
   [read online] [download pdf]

3. Teacher, Amber G. F. et al. Smartphones in ecology and evolution: a guide for the app-rehensive. Ecology and Evolution 3(16):5268– 5278
   [read online] [download pdf]

Online Lectures:

- Paperless Data Collection
- Great tutorials by UConn's David Dickson
    – Intro to EpiCollect 5
    – Creating an EpiCollect PROJECT
    – Creating a FORM for your Epicollect Project
    – Collecting data in EpiCollect with your phone or tablet

Class Outline

Topic 1 Overview: Paperless Data Collection (10 min)

Breakout

Breakout (15 min): Paperless data collection with Epicollect

Break (10 min)

Return and discuss breakout results

1. **Returning results & Take-home message (35 min)**
2. **Take-home message:** Reinforce value of paperless data collection

Free Time

There are 30 min remaining that can be used to —–

Tools & Resources

1. EpiCollect user's guide
2. Best data app for interactive voice data collection: Magpi (Web, iOS, Android)
3. Lists of useful apps for data collection in the field:
    - list 1
    - list 2
    - list 3

- list 4
- list 5
- list 6
- list 7

Sources

1. Keep calm and go paperless: Electronic lab notebooks can improve your research

2. NOAA Pathways to paperless Data Collection

3. Thieler ER, Zeigler SL, Winslow LA, Hines MK, Read JS, Walker JI (2016) Smartphone-Based Distributed Data Collection Enables Rapid Assessment of Shorebird Habitat Suitability. PLoS ONE 11(11): e0164979.

4. Teacher, A. G., Griffiths, D. J., Hodgson, D. J., & Inger, R. (2013). Smartphones in ecology and evolution: a guide for the app-rehensive. Ecology and evolution, 3(16), 5268–5278.

5. Palumbo, M.J., Johnson, S.A., Mundim, F.M., Lau, A., Wolf, A.C., Arunachalam, S., Gonzalez, O., Ulrich, J.L., Washuta, A. and Bruna, E.M. (2012), Harnessing Smartphones for Ecological Education, Research, and Outreach. The Bulletin of the Ecological Society of America, 93: 390-393.