



- 1) **Compile** three snowmobile sounds dataset
- 2) **Train & Validate** snowmobile model
- 3) **Create** a test dataset from a subset of Yellowstone dataset
- 4) **Test** 4 different filtering on the test dataset:
 - 1) $MC > 0.95+$
 - 2) $MC > 0.95+$; $HNR > 0.1+$
 - 3) $MC > 0.95+$; $HNR > 0.1+$; $DL6+$
 - 4) $MC > 0.99+$; $HNR > 0.1+$; $DL6+$
- 5) **Run** BirdNET and snowmobile model
- 6) **Filter** snowmobile detections using filtering 4)
- 7) **Extract** meteorological variables and **aggregate** number of calls in 15s buckets
- 8) **Analyse** the dataset using statistical methods

MC: Model confidence

HNR: Harmonic noise ratio

DL: Segment duration length