**Frog Call Survey Protocol**

Surveys to be conducted at night, with minimal noise obstruction

Surveys should begin no earlier than 30min after sunset and continue no later than 1:00am. Light to moderate rain represent good monitoring conditions, but heavy rainfall can impair the ability to hear calls and should be avoided. Wind can also impair ability to hear calls and conditions of 4 or above on the Beaufort scale (included in datasheet) should be avoided.

Listening to calls

Once at a survey location, one minute of settling time should be conducted where no calls are recorded. If possible, it’s best to minimize the intrusion of any light sources into the habitat during this time and the listening period as well. After the settling period, listen and record the species and intensity of all calls heard. If a call cannot be identified, record “Unidentified” in the species column of the datasheet, while still including an intensity index value

Filling out the datasheet

If multiple observers are surveying a location at the same time, each observer should submit a datasheet. Only if all observers are in complete agreement on every parameter value recorded (including weather conditions), should multiple observers be listed on the same datasheet. A separate datasheet should be used for each survey location, or separate listening periods conducted more than 200m from one another at the same location. If a survey location is not named on the ‘Aquatic Habitats’ provided, record the GPS coordinates for the location. Avenza Maps can be used to determine the coordinates of an observer’s survey location.

Potential Anuran Species on the Domain

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| **True Toads - *Bufonidae*** | **True Frogs - *Ranidae*** | **Treefrogs - *Hylidae*** |
| ● American Toad *Anaxyrus americanus* | ● American Bullfrog *Lithobates catesbeianus*  | ● Northern Cricket Frog *Acris crepitans* |
| ● Fowler's Toad *Anaxyrus fowleri* | ● Green Frog *Lithobates clamitans*  | ● Barking Treefrog *Hyla gratiosa* |
|  | ● Pickerel Frog *Lithobates palustris*  | ● Cope's Gray Treefrog *Hyla chrysoscelis*  |
| **Narrow-mouthed Toads - *Microhylidae*** | ● Southern Leopard Frog *Lithobates sphenocephalus*  | ● Green Treefrog *Hyla cinerea* |
| ● Eastern Narrow-mouthed Toad *Gastrophryne carolinensis*  |  | ● Spring Peeper *Pseudacris crucifer* |
| **Spadefoot Toads *- Pelobatidae*** |  | ● Mountain Chorus Frog *Pseudacris brachyphona* |
| ● Eastern Spadefoot - *Scaphiopus holbrookii* |  | ● Upland Chorus Frog  *Pseudacris feriarum* |



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| **Observer and Site Information**Observer(s) Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Site Name or Coordinates:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Start time (military):\_\_\_\_\_\_\_\_\_\_\_\_\*Provide coordinates for areas not named on ‘University of the South Trail Map’ End Time (military):\_\_\_\_\_\_\_\_\_\_\_\_   |

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| Frog Call Datasheet |

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| **Weather Conditions** |
| Temperature\_\_\_\_\_\_\_\_°C or \_\_\_\_\_\_\_\_°F | Precipitation in previous 48hrs□None □Moderate rain/snow □Heavy rain/snow |
| Temperature below freezing last 48 hrs□Yes □No | Precipitation during survey□None □Fog □Light Rain □Moderate Rain □Heavy Rain □Snow |
| Beaufort Wind Scale |
|   | □ Calm (0) | smoke rises vertically |
|  | □ Light Air (1) | Smoke drift indicates wind direction |
|  | □ Light Breeze (2) | Wind felt on face, leaves rustle |
|  | □ Gentle Breeze (3) | Leaves and small twigs constantly moving, light flags extended |
| Poor conditions for monitoring |  Moderate Breeze (4) | Dust, leaves, and loose paper lifted, small tree branches move |

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| **Frog and Toad Observations** |
| Species Name | Calling Intensity (0-3) | Call Intensity Index |
|  |  | **0****1****2****3** | No frogs or toads heard calling Enough space between calls to count individualsIndividual calls can be distinguished but there is some overlapping of callsFull chorus, calls are constant, continuous and overlapping |
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