

| Document Schema |                         |           |          |   |   |
|-----------------|-------------------------|-----------|----------|---|---|
| Embed           | Field                   | Data Type | Optional | Notes   | Possible Values                                     |
|                 | Local Date - Time       | date      |          |   | But its really a date time                          |
|                 | Observer ID             | guid      |          | If registered.  | I assume  |
| Site            | Longitude               | float     |          | Single embed. These fields can be recalled to the app, for reuse. |   |
|                 | Latitude                | float     |          |   |   |
|                 | Accuracy                | TBD       |          |   |   |
|                 | Source                  | string    |          |   |   |
|                 | Name                    | string    |          |   |   |
| Habitat         | General Description     | string    |          |   |   |
|                 | Aquatic Description     | string    |          |   |   |
|                 | Vegetation Description  | string    |          |   |   |
|                 | Land Use Code           | integer   |          |   | 1 thru 5  |
| Conditions      | Current Conditions Code | integer   |          | Single embed  | 0 thur 4  |
|                 | Current Temperature     | integer   |          |   |   |
|                 | Temperature scale       | string    |          |   | F or C  |
|                 | Wind Level Code         | integer   |          |   | 0 thur 4  |
|                 | Water Level Code        | integer   |          |   | 0 thur 4  |
|                 | Rain Last 48 Hours Code | integer   |          |   | 0 thur 4  |
|                 | Noise Level Code        | integer   |          |   | 0 thur 4  |
|                 | Construction noted      | boolean   |          |   | true/false  |
| Observations    | Species                 | TBD       |          | Multiple embeds   | Should I use a code, with a device hosted data set? |
|                 | Calling Code            | integer   |          |   | 0 thur 4  |
|                 |                         |           |          |   |   |
|                 | Recording ID            |           |          | ID to a record in another document                                |   |

Common frog:

Kingdom - Animalia  
 Phylum - Vertebrata  
 Class - Amphibia  
 Order - Anura  
 Family - Ranidae  
 Genus - Rana  
 Species - temporaria

(common name)

Common toad:

| Calling Code |  |
|--------------|--|
| Code         | Description  |
| 1            | Individuals can be counted; there is space between calls.                        |
| 2            | Calls of individuals can be distinguished, but there are some overlapping calls. |
| 3            | Full chorus, calls are constant, continuous and overlapping.                     |

| Rain in the last 48 hours |                            |
|---------------------------|----------------------------|
| Code                      | Description                |
| 0                         | None                       |
| 1                         | Light (less than 1/2 inch) |
| 2                         | Moderate (1/2 - 1 inch)    |
| 3                         | Heavy (< 1 inch)           |

| Land Use |                         |
|----------|-------------------------|
| Code     | Description             |
| 0        | Not recorded or unknown |
| 1        | Urban Open Space        |
| 2        | Urban Forest            |
| 3        | Private Backyard        |
| 4        | Nature Park             |
| 5        | Rural                   |

| Current Conditions |                               |
|--------------------|-------------------------------|
| Code               | Description                   |
| 0                  | Not recorded                  |
| 1                  | Sunny and clean               |
| 2                  | Partly cloudy or variable sky |
| 3                  | Overcast                      |
| 4                  | Fog or smoke                  |
| 5                  | Drizzle / light rain          |

| Noise Level |  |
|-------------|--|
| Code        | Description  |
| 0           | Not recorded or observed   |
| 1           | No effect (owl calling)  |
| 2           | Slight effect (distant traffic, dog barking)                     |
| 3           | Moderate effect (nearby traffic, 2-5 cars passing)               |
| 4           | Serious effect (continuous traffic nearby, 6-10 cars passing)    |
| 5           | Profound effect (continuous traffic passing, construction noise) |

| Water Level |                                    |
|-------------|------------------------------------|
| Code        | Description                        |
| 0           | Not observed or unobservable       |
| 1           | Extremely dry - drought conditions |
| 2           | Moist, but no standing water       |
| 3           | Shallow water (less than 1 foot)   |
| 4           | Deep water (more than 1 foot)      |
| 5           | Permanent Water                    |