

AQUÍ SE MONITOREA LA BIODIVERSIDAD

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VARIABLES AMBIENTALES Y EL FUNCIONAMIENTO DE LOS SISTEMAS BIOLÓGICOS: EL CANTO DE LOS ANFIBIOS Y EFECTOS DEL CAMBIO AMBIENTAL

SITIOS DE TRABAJO



- Comprender las variaciones temporales de las comunidades de anfibios: el rol del clima, la estructura del hábitat y la escala de observación.
- Avanzar en el conocimiento de la sincronización de las dinámicas poblacionales en el espacio: comparación a nivel local y país.
- Avanzar en el uso de nuevas tecnologías: grabadores acústicos automáticos y estaciones meteorológicas.

OBJETIVOS

Registro del ambiente físico

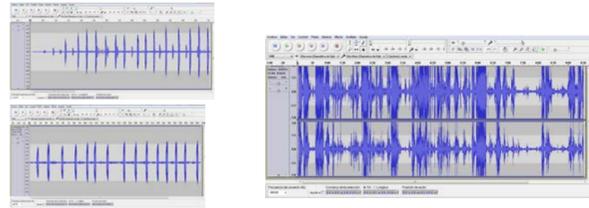
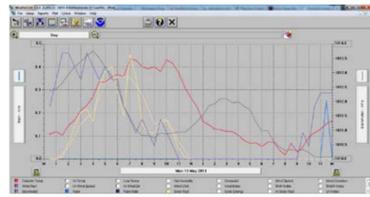
Registro del ambiente biológico: canto de los anfibios

Bases meteorológicas

Parámetros físicoquímicos

Registro del canto de las especies

Registro de todos los anfibios



Fecha	Hora	Temperatura	Humedad	Viento	Presión	pH	Conductividad	Turbidez	Clorofila	Amfibios
2013-01-01	08:00	15.0	65.0	10.0	1013.0	7.5	150.0	15.0	0.5	0
2013-01-01	12:00	18.0	70.0	12.0	1012.0	7.5	150.0	15.0	0.5	1
2013-01-01	16:00	16.0	68.0	11.0	1013.0	7.5	150.0	15.0	0.5	0
2013-01-01	20:00	12.0	75.0	8.0	1014.0	7.5	150.0	15.0	0.5	0
2013-01-02	00:00	10.0	78.0	7.0	1014.0	7.5	150.0	15.0	0.5	0
2013-01-02	04:00	11.0	76.0	8.0	1013.0	7.5	150.0	15.0	0.5	0
2013-01-02	08:00	14.0	72.0	10.0	1012.0	7.5	150.0	15.0	0.5	0
2013-01-02	12:00	17.0	68.0	12.0	1011.0	7.5	150.0	15.0	0.5	1
2013-01-02	16:00	15.0	66.0	11.0	1012.0	7.5	150.0	15.0	0.5	0
2013-01-02	20:00	11.0	73.0	9.0	1013.0	7.5	150.0	15.0	0.5	0
2013-01-03	00:00	9.0	76.0	8.0	1014.0	7.5	150.0	15.0	0.5	0
2013-01-03	04:00	10.0	74.0	9.0	1013.0	7.5	150.0	15.0	0.5	0
2013-01-03	08:00	13.0	70.0	11.0	1012.0	7.5	150.0	15.0	0.5	0
2013-01-03	12:00	16.0	66.0	13.0	1011.0	7.5	150.0	15.0	0.5	1
2013-01-03	16:00	14.0	64.0	12.0	1012.0	7.5	150.0	15.0	0.5	0
2013-01-03	20:00	10.0	71.0	10.0	1013.0	7.5	150.0	15.0	0.5	0
2013-01-04	00:00	8.0	74.0	9.0	1014.0	7.5	150.0	15.0	0.5	0
2013-01-04	04:00	9.0	72.0	10.0	1013.0	7.5	150.0	15.0	0.5	0
2013-01-04	08:00	12.0	68.0	12.0	1012.0	7.5	150.0	15.0	0.5	0
2013-01-04	12:00	15.0	64.0	14.0	1011.0	7.5	150.0	15.0	0.5	1
2013-01-04	16:00	13.0	62.0	13.0	1012.0	7.5	150.0	15.0	0.5	0
2013-01-04	20:00	9.0	69.0	11.0	1013.0	7.5	150.0	15.0	0.5	0
2013-01-05	00:00	7.0	72.0	10.0	1014.0	7.5	150.0	15.0	0.5	0
2013-01-05	04:00	8.0	70.0	11.0	1013.0	7.5	150.0	15.0	0.5	0
2013-01-05	08:00	11.0	66.0	13.0	1012.0	7.5	150.0	15.0	0.5	0
2013-01-05	12:00	14.0	62.0	15.0	1011.0	7.5	150.0	15.0	0.5	1
2013-01-05	16:00	12.0	60.0	14.0	1012.0	7.5	150.0	15.0	0.5	0
2013-01-05	20:00	8.0	67.0	12.0	1013.0	7.5	150.0	15.0	0.5	0
2013-01-06	00:00	6.0	70.0	11.0	1014.0	7.5	150.0	15.0	0.5	0
2013-01-06	04:00	7.0	68.0	12.0	1013.0	7.5	150.0	15.0	0.5	0
2013-01-06	08:00	10.0	64.0	14.0	1012.0	7.5	150.0	15.0	0.5	0
2013-01-06	12:00	13.0	60.0	16.0	1011.0	7.5	150.0	15.0	0.5	1
2013-01-06	16:00	11.0	58.0	15.0	1012.0	7.5	150.0	15.0	0.5	0
2013-01-06	20:00	7.0	65.0	13.0	1013.0	7.5	150.0	15.0	0.5	0
2013-01-07	00:00	5.0	68.0	12.0	1014.0	7.5	150.0	15.0	0.5	0
2013-01-07	04:00	6.0	66.0	13.0	1013.0	7.5	150.0	15.0	0.5	0
2013-01-07	08:00	9.0	62.0	15.0	1012.0	7.5	150.0	15.0	0.5	0
2013-01-07	12:00	12.0	58.0	17.0	1011.0	7.5	150.0	15.0	0.5	1
2013-01-07	16:00	10.0	56.0	16.0	1012.0	7.5	150.0	15.0	0.5	0
2013-01-07	20:00	6.0	63.0	14.0	1013.0	7.5	150.0	15.0	0.5	0
2013-01-08	00:00	4.0	66.0	13.0	1014.0	7.5	150.0	15.0	0.5	0
2013-01-08	04:00	5.0	64.0	14.0	1013.0	7.5	150.0	15.0	0.5	0
2013-01-08	08:00	8.0	60.0	16.0	1012.0	7.5	150.0	15.0	0.5	0
2013-01-08	12:00	11.0	56.0	18.0	1011.0	7.5	150.0	15.0	0.5	1
2013-01-08	16:00	9.0	54.0	17.0	1012.0	7.5	150.0	15.0	0.5	0
2013-01-08	20:00	5.0	61.0	15.0	1013.0	7.5	150.0	15.0	0.5	0
2013-01-09	00:00	3.0	64.0	14.0	1014.0	7.5	150.0	15.0	0.5	0
2013-01-09	04:00	4.0	62.0	15.0	1013.0	7.5	150.0	15.0	0.5	0
2013-01-09	08:00	7.0	58.0	17.0	1012.0	7.5	150.0	15.0	0.5	0
2013-01-09	12:00	10.0	54.0	19.0	1011.0	7.5	150.0	15.0	0.5	1
2013-01-09	16:00	8.0	52.0	18.0	1012.0	7.5	150.0	15.0	0.5	0
2013-01-09	20:00	4.0	59.0	16.0	1013.0	7.5	150.0	15.0	0.5	0
2013-01-10	00:00	2.0	62.0	15.0	1014.0	7.5	150.0	15.0	0.5	0
2013-01-10	04:00	3.0	60.0	16.0	1013.0	7.5	150.0	15.0	0.5	0
2013-01-10	08:00	6.0	56.0	18.0	1012.0	7.5	150.0	15.0	0.5	0
2013-01-10	12:00	9.0	52.0	20.0	1011.0	7.5	150.0	15.0	0.5	1
2013-01-10	16:00	7.0	50.0	19.0	1012.0	7.5	150.0	15.0	0.5	0
2013-01-10	20:00	3.0	57.0	17.0	1013.0	7.5	150.0	15.0	0.5	0
2013-01-11	00:00	1.0	60.0	16.0	1014.0	7.5	150.0	15.0	0.5	0
2013-01-11	04:00	2.0	58.0	17.0	1013.0	7.5	150.0	15.0	0.5	0
2013-01-11	08:00	5.0	54.0	19.0	1012.0	7.5	150.0	15.0	0.5	0
2013-01-11	12:00	8.0	50.0	21.0	1011.0	7.5	150.0	15.0	0.5	1
2013-01-11	16:00	6.0	48.0	20.0	1012.0	7.5	150.0	15.0	0.5	0
2013-01-11	20:00	2.0	55.0	18.0	1013.0	7.5	150.0	15.0	0.5	0
2013-01-12	00:00	0.0	58.0	17.0	1014.0	7.5	150.0	15.0	0.5	0
2013-01-12	04:00	1.0	56.0	18.0	1013.0	7.5	150.0	15.0	0.5	0
2013-01-12	08:00	4.0	52.0	20.0	1012.0	7.5	150.0	15.0	0.5	0
2013-01-12	12:00	7.0	48.0	22.0	1011.0	7.5	150.0	15.0	0.5	1
2013-01-12	16:00	5.0	46.0	21.0	1012.0	7.5	150.0	15.0	0.5	0
2013-01-12	20:00	1.0	53.0	19.0	1013.0	7.5	150.0	15.0	0.5	0
2013-01-13	00:00	-0.5	56.0	18.0	1014.0	7.5	150.0	15.0	0.5	0
2013-01-13	04:00	0.5	54.0	19.0	1013.0	7.5	150.0	15.0	0.5	0
2013-01-13	08:00	3.5	50.0	21.0	1012.0	7.5	150.0	15.0	0.5	0
2013-01-13	12:00	6.5	46.0	23.0	1011.0	7.5	150.0	15.0	0.5	1
2013-01-13	16:00	4.5	44.0	22.0	1012.0	7.5	150.0	15.0	0.5	0
2013-01-13	20:00	0.5	51.0	20.0	1013.0	7.5	150.0	15.0	0.5	0
2013-01-14	00:00	-1.0	54.0	19.0	1014.0	7.5	150.0	15.0	0.5	0
2013-01-14	04:00	-0.5	52.0	20.0	1013.0	7.5	150.0	15.0	0.5	0
2013-01-14	08:00	2.5	48.0	22.0	1012.0	7.5	150.0	15.0	0.5	0
2013-01-14	12:00	5.5	44.0	24.0	1011.0	7.5	150.0	15.0	0.5	1
2013-01-14	16:00	3.5	42.0	23.0	1012.0	7.5	150.0	15.0	0.5	0
2013-01-14	20:00	-0.5	49.0	21.0	1013.0	7.5	150.0	15.0	0.5	0
2013-01-15	00:00	-1.5	52.0	20.0	1014.0	7.5	150.0	15.0	0.5	0
2013-01-15	04:00	-1.0	50.0	21.0	1013.0	7.5	150.0	15.0	0.5	0
2013-01-15	08:00	2.0	46.0	23.0	1012.0	7.5	150.0	15.0	0.5	0
2013-01-15	12:00	5.0	42.0	25.0	1011.0	7.5	150.0	15.0	0.5	1
2013-01-15	16:00	3.0	40.0	24.0	1012.0	7.5	150.0	15.0	0.5	0
2013-01-15	20:00	-0.5	47.0	22.0	1013.0	7.5	150.0	15.0	0.5	0
2013-01-16	00:00	-1.5	50.0	21.0	1014.0	7.5	150.0	15.0	0.5	0
2013-01-16	04:00	-1.0	48.0	22.0	1013.0	7.5	150.0	15.0	0.5	0
2013-01-16	08:00	2.0	44.0	24.0	1012.0	7.5	150.0	15.0	0.5	0
2013-01-16	12:00	5.0	40.0	26.0	1011.0	7.5	150.0	15.0	0.5	1
2013-01-16	16:00	3.0	38.0	25.0	1012.0	7.5	150.0	15.0	0.5	0
2013-01-16	20:00	-0.5	45.0	23.0	1013.0	7.5	150.0	15.0	0.5	0
2013-01-17	00:00	-1.5	48.0	22.0	1014.0	7.5	150.0	15.0	0.5	0
2013-01-17	04:00	-1.0	46.0	23.0	1013.0	7.5	150.0	15.0	0.5	0
2013-01-17	08:00	2.0	42.0	25.0	1012.0	7.5	150.0	15.0	0.5	0
2013-01-17	12:00	5.0	38.0	27.0	1011.0	7.5	150.0	15.0	0.5	1
2013-01-17	16:00	3.0	36.0	26.0	1012.0	7.5	150.0	15.0	0.5	0
2013-01-17	20:00	-0.5	43.0	24.0	1013.0	7.5	150.0	15.0	0.5	0
2013-01-18	00:00	-1.5	46.0	23.0	1014.0	7.5	150.0	15.0	0.5	0
2013-01-18	04:00	-1.0	44.0	24.0	1013.0	7.5	150.0	15.0	0.5	0
2013-01-18	08:00	2.0	40.0	26.0	1012.0	7.5	150.0	1		