

1 **SUPPLEMENTARY ELECTRONIC MATERIAL**

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3 ARDEOLA 63(1)

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5 **INDIVIDUAL-BASED TRACKING SYSTEMS IN**
6 **ORNITHOLOGY: WELCOME TO THE ERA OF BIG DATA**

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8 **SISTEMAS DE SEGUIMIENTO INDIVIDUAL EN ORNITOLOGÍA:**
9 **BIENVENIDOS A LA ERA DE LOS DATOS MASIVOS**

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TABLE S1

Marketing companies of individual tracking devices for birds. The smallest size of the tracking device commercially available is shown (prototypes not included). The number of locations, battery-expectancy and operating/data downloading distance may vary considerably among tracking devices, based in part on duty cycle configuration and attachment system on birds. Hence devices of similar size may have different performance.

[Empresas comercializadoras de aparatos de seguimiento individual para aves. Se muestra el tamaño mínimo de los dispositivos comercialmente disponibles (no se incluyen prototipos). Aviso importante: el número de localizaciones, duración de la batería y la distancia a la que se pueden descargar los datos puede variar considerablemente entre dispositivos de seguimiento, configuración individual y sistema de colocación en las aves, por tanto dispositivos de tamaño similar pueden tener un rendimiento diferente.]

Company name	website	Argos (no GPS)	Argos/GPS	GPS/GSM dataloggers	GPS-remote downloading dataloggers	geolocators
Microwave Telemetry Inc.	http://www.microwavetelemetry.com	2.2g	17g	25g	no	no
North Star Science and Technology, LLC	http://www.northstars.com/	5g	22g	55g	no	no
e-obs digital telemetry	http://www.e-obs.de	no	no	48g	10g	no
Cellular Tracking Technologies	http://www.celltracktech.com/	no	no	23g	no	no
Telonics Inc.	http://www.telonics.com/	15g	no	137.5g	no	no
UvA-bits	http://www.uva-bits.nl/	no	no	18.5g	7.2g	no
Ecotone Telemetry	http://www.ecotone-telemetry.com/	no	no	17g	5g	no
TechnoSmArt	http://www.technosmart.eu/	no	no	no	17g (3.5g***)	no
Migrate Technology Ltd.	http://www.migratetech.co.uk/	no	no	no	no	0.3g

Biotrack*	http://www.biotrack.co.uk/	100g	3.5g**	no	no	0.39g
PathTrack Ltd.	http://www.pathtrack.co.uk/	no	no	no	5g (1g****)	no
Blueoceanix Technology Co., LTD	http://blueoceanix.en.ec21.com/	no	no	45g	no	no

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35 * commercial partners of Sirtrack Ltd. (<http://sirtrack.co.nz/>) and Lotek Wireless

36 (<http://www.lotek.com/>)

37 ** up to 30 locations (PinPoint technology)

38 *** 3.5 g device is an archival location logger that must be retrieved at the end of its deployment.

39 Expected battery duration is up to 3-5 days.

40 **** The 1 g device is an archival location logger that must be retrieved at the end of its deployment.

41 It provides 80 locations on average during lifetime.

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TABLE S2

43 Search terms used for the literature survey in ISI Web of Science. Search conducted in SCI-
 44 EXPANDED database and time period 1950-2015 in all cases. Search date: December 2015.
 45 *[Términos utilizados para la búsqueda bibliográfica en el ISI Web of Science. Búsqueda*
 46 *realizada en la base de datos SCI-EXPANDED para el período temporal 1950-2015 en todos*
 47 *los casos. Fecha de búsqueda: diciembre de 2015.]*

Search #	Search term	Results
1	Search term: (ecology) Refined by: (ECOLOGY OR MARINE FRESHWATER BIOLOGY OR ZOOLOGY OR ENVIRONMENTAL SCIENCES OR EVOLUTIONARY BIOLOGY OR BIODIVERSITY CONSERVATION OR MULTIDISCIPLINARY SCIENCES)	74664
2	Search term: (satellite track*) AND (bird*) Refined by: (ORNITHOLOGY OR ECOLOGY OR MARINE FRESHWATER BIOLOGY OR ZOOLOGY OR OCEANOGRAPHY OR BIODIVERSITY CONSERVATION OR ENVIRONMENTAL SCIENCES OR MULTIDISCIPLINARY SCIENCES OR COMPUTER SCIENCE THEORY METHODS OR BIOLOGY OR BEHAVIORAL SCIENCES OR EVOLUTIONARY BIOLOGY)	543
3	Search term: (accelerom*) AND (bird*) Refined by: Categorías de Web of Science: (BIOLOGY OR MARINE FRESHWATER BIOLOGY OR MULTIDISCIPLINARY SCIENCES OR ECOLOGY OR ZOOLOGY OR EVOLUTIONARY BIOLOGY OR PHYSIOLOGY OR ORNITHOLOGY)	51
4	Search term: (GPS AND bird*)	380
5	Search term: (geoloc*) AND (bird*)	231
6	Search term: (telemetry) AND (bird*)	989
7	Search term: (logger) AND (bird*)	413

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