**WILDLIFE MONITORING AND MANAGEMENT**

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| Study | Aims | Country | Place | Target | RPAS platform | Payload | Costs |
| (Mulero-Pázmány et al. 2015) | Telemetry/RPAS SDM comparative study | Spain | Doñana N.P. | Cattle *(Bos taurus)* | Fixed-wing: Easy Fly plane, Ikarus autopilot, Eagletree GPS logger | Panasonic Lumix LX-3 11MP | $ 6500 |
| (Hodgson, Peel, and Kelly 2017) | Comparative survey RPAS/land based observation; abundance estimation | Australia | North Stradbroke Island | Humback whales (*Megaptera novaeangliae*) | Fixed-wing: ScanEagle | Nikon D90 12MP, Standard Definition Electro-Optical Camera | ? |
| (Hodgson, Kelly, and Peel 2013) | Dugongs detection | Australia | Shark Bay Marine Park | Dugong (*Dugong dugon*) | Fixed-wing: ScanEagle | Nikon D90 12MP | ? |
| (Wilson, Barr, and Zagorski 2017) | Bioacustic monitoring | USA | State Game Lands | Birds | Rotor-wing: DJI Phantom 2 | ZOOM H1 Handy Recorder | ? |
| (Bayram et al. 2016) | VHF collars tracking | ? | ? | Bears (Ursus) | Rotor-wing: DJI F550 | Telonics MOD-500 VHF, Uniden handheld scanner | ? |
| (Christie et al. 2016) | Abundance estimation | USA | Aleutian Islands | Steller Sea Lion (Eumetopias jubatus) | Rotor-wing: APH-22 | ? | $ 25.000 |
| (Christie et al. 2016}) | Abundace estimation | USA | Monte Vista National Wildlife Refuge | Grus canadensis (sandhill cranes) | Fixed-wing: Raven RQ- 11A | ? | $ 400 |
| (Wich et al. 2016) | Sumatran orangutan nest detection | ? | ? | ? | Fixed-wing: Skywalker 2013 | Canon S100 | ? |
| (Andel et al. 2015) | Chimpanzee nest detection | Africa | Loango National Park | Chimpanzee (Pan troglodytes) | Fixed-wing: Maja | Canon Powershot SX230 HS | $ 5000 |
| (Koski et al. 2009) | Marine mammals monitoring | USA | Admiralty Bay | Marine mammals | Fixed-wing: ScanEagle | NTSC Video Camera | ? |
| (Andrew and Shephard 2017) | Semi-automated image processing tools to detect and map sea eagle nests | Australia | Houtman Abrolhos Islands | White-bellied sea eagle (Haliaeetus leucogaster) | ? | ? | ? |
| (Longmore et al. 2017) | Software development to help detect animals in thermal images | UK | Arrowe Brook Farm Wirral | Wildlife | Rotor-wing: 3DR robotics Y6 | FLIR, Tau 2 LWIR Thermal Imaging Camera Core | ? |
| (Martin et al. 2012) | Estimate the distribution of organisms using statistical models | USA | ? | Manatee (*Trichechus manatus latirostris*) | Fixed-wing: Nova 2.1 | Olympus H E-420 | ? |

**MONITORING OF TERRESTRIAL AND AQUATIC ECOSYSTEMS**

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| Study | Aims | Country | Place | Target | RPAS platform | Payload | Costs |
| (Perroy, Sullivan, and Stephenson 2017) | Tropical invasive plants | USA | Pahoa, Hawai | *Miconia calvescens* | Rotor-wing: DJ Inspire-1 | DJI FC350 camera | ? |
| (Szantoi et al. 2017) | Habitat Mapping | Indonesia | Gunung Leuser National Park | Orangutan (Pongo abelii) | Fixed-wing: Skywalker | Canon S100 | $ 4000 |
| (Casella et al. 2017) | Coral reef mapping | French Polynesia | Tiahura,; Moorea | Coral reef | Rotor-wing: DJI Phantom 2 | Modified GoPro HERO4 | $ 1678 |
| (Casella et al. 2016) | Monitoring coastal erosion dynamics in shorelines | French Polynesia | Tiahura; Moorea | Coral reef | Rotor-wing: Mikrokopter Okto XL | Canon G11 | $ 7500 |
| (Müllerová et al. 2016) | Monitoring plant invasion | ? | ? | Exotic species | Fixed-wing: VUT 712 713 720 | Canon S100 | ? |
| (Ventura et al. 2016) | Marine fish nursery areas mapping | Italy | Giglio Island | Marine fish nursery areas | Rotor-wing: homemade prototype | Mobius HD, GoPro HERO3 Black Edition | $ 100 |
| (Ivošević et al. 2015) | Habitat monitoring and modeling in restricted areas; RPAS performance test & South Korea & Chiaksan National Park;Taeanhaean National Park | South Korea | Chiaksan National Park;Taeanhaean National Park |  | Rotor-wing: DJI Phantom 2 Vision+ | Full HD videos 1080p/30fps and 720p/60fps | ? |
| (Lisein et al. 2015) | Discrimination of deciduous species; Forest inventory | Belgium | Grand-Leez | English oak, birches, sycamore maple ,common ash and poplars | Fixed-wings: Gatewing X100 | Ricoh GR2 GR3 GR4 10 megapixels CCD | ? |
| (Puttock et al. 2015) | Characterization of ecosystems affected by beaver activity | UK | Devon Beaver Project site | Eurasian beaver (*Castor fiber*) | Rotor-wing: 3D Robotics Y6 | anon ELPH 520 HS | ? |
| (Zahawi et al. 2015) | Characterization of tropical forest structure for restoration actions | Costa Rica | Devon Beaver Project site | Several species | Rotor-wing: 3D Robotics Y6 | Canon S100 | $ 1500 |
| (Bustamante 2015) | Forest monitoring | Brasil | Riverine Forests (Permanent Protected Areas), Rio de Janeiro, Barrãcao do Mendes, Santa Cruz and São Lorenço | Riverbank forests | Rotor-wing: DJI Phantom Vision 2S | RGB digital camera 14MP | $ 9700 |
| (Gini et al. 2012) | 3D modeling and classification of tree species | Italy | Parco Adda Nord | Several species | Rotor-wing: Microdrones TM MD4-200 | RGB CCD 12 megapixels Pentax Optio A40; modified NIR Sigma DP1 with a Foveon X3 sensor | ? |
| (Miyamoto et al. 2004) | Classification of species in wetlands | Japan | Kushiro Wetlands | Several species | Helium balloon | NIKON F-801, NIKKOR 28 mm f/2.8 | $ 1600 |
| (Casella et al. 2017) | Mapping coral reefs | ? | ? | ? | Rotor.wing: DJI Phantom 2 | GoPro HERO4 | ? |

**INFRASTRUCTURES AND RISK ASSESSMENT, ECOTOURISM, IMPACT ON WILDLIFE AND ECOSYSTEMS**

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| Study | Aims | Country | Place | Target | RPAS platform | Payload | Costs |
| (Lobermeier et al. 2015) | Mitigate the risk of collision by installing markers on electrical lines | USA | ? | Birds | Rotor-wing: Mikrokopter Hexa XL | KX 171 Microcam | ? |
| (Margarita Mulero-Pázmány 2014}) | Bird risk hazards in power lines | Spain | Doñana National Park | Birds | ixed-wing: Easy fly St-330 | GoPro HERO2 11MP;Panasonic LX3 11MP | $ 8863 |
| (Mulero-Pázmány et al. 2014) | Anti-poaching | Africa | KwaZulu-Nata | Black rhinocero (*Diceros bicornis*), white rhinocero (*Ceratotherium simum*) | Fixed-wing: Easy Fly St-330 | Panasonic Lumix LX-3 11 MP, GoPro Hero2; Thermoteknix Micro CAM microbolometer | $ 15700 |
| (Hansen 2016) | Visitors Surveillance | Sweden | Sweden & Kosterhavet National Park | Humans | ? | ? | ? |
| (Sabella et al. 2017) | Visitors Surveillance | Italy | R.N.O. Oasi faunistica di Vendicari | Humans | Rotor-wing: DJI Phantom 3 | ? | ? |
| (King 2014) | RPAS applications in ecotourism activities | Sweeden | Sweeden & Kosterhavet National Park | Humans | ? | ? | ? |
| (Vas et al. 2015) | RPAS impact | France | Zoo du Lunaret, Cros Martin Natural Area | *Anas platyrhyncho*, *Phoenicopterus roseus*, *Tringa nebularia* | Rotor-wing: Phantom | GoPro HERO3 | ? |
| (Weissensteiner, Poelstra, and Wolf 2015) | RPAS Impact | Sweeden | ? | Hooded crow (*Corvus corone cornix*) | Rotor-wing: DJI Phantom 2 Vision | ? | $ 1000 |

**ENVIRONMENTAL MONITORING AND DECISION SUPPORT**

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| Study | Aims | Country | Place | Target | RPAS platform | Payload | Costs |
| (Zang et al. 2012) | Pollution monitoring | China | Several cities | Rivers | Fixed-wing | Canon 50D, ACD multispectral camera | ? |
| (Cornell, Herman, and Ontiveros 2016) | Water sampling | USA | Lake Ontari0 | ? | Rotor-wing: DJI Phantom 3 | 50mL Falcon tube | ? |
| (McCaldin, Johnston, and Rieker 2015) | Aerial baiting | Australia | Christmas Island | Cat (*Felis catus*) | Rotor-wing: V-TOL Hornet I-II | Canon S100; Drop mechanism with HD Video Recorder | ? |
| (Fornace et al. 2014) | Spatial epidemiology | Malaysia / Philippines | Sabah / Palawan | ? | Fixed-wing: Sensefly eBee | 16mp | $ 25000 |
| (Van Tilburg 2017) | Search and Rescue (SAR) | USA | Columbia Gorge National Scenic Area | Humans | Rotor-wing: Phantom 3, SAR Bot, Inspire 1 | DJI 12MP; VUE PRO 640 thermal imager | ? |
| (Schwarzbach et al. 2014) | Water sampling | Spain | Doñana N.P. | Freshwater ecosystems | Rotor-wing: Helicopter | Water sampling mechanism | ? |
| (Schmale, Dingus, and Reinholtz 2008) | Aerobiological sampling | USA | Virginia Tech’s Kentland Farm | Prokaryotic and eukaryotic microorganisms | Fixed-wing: Senior Telemaster | Aerobiological sampling devices |  |