



CURRICULUM VITAE

ORLA DALY

B.Sc., M.Sc., PgDip., MCIEEM

EDUCATION

- 2012 – 2015 University of Ulster, Coleraine Campus
Postgraduate Diploma in Geographic Information Systems (Distinction)
- 2007 – 2008 Trinity College Dublin
M.Sc. in Biodiversity and Conservation (Distinction - 1st Class Honours)
Thesis: An investigation of the of the ground flora diversity of mixed forests
- 2001 – 2006 National University of Ireland, Galway
B.Sc. in Botany (1st Class Honours)
Thesis: An investigation of the effects of light and temperature on the photosynthesis of the Fucoids (Brown Algae)

CAREER HISTORY

Senior Ecologist/Consultant Ecologist/Ecologist, BEC Consultants Ltd. (April 2010 – Present)

Duties involve project management, tender preparation, report writing, data entry/analysis and conducting desk-based research. Field based activities involve conducting botanical surveys in a wide range of habitats, involving the collation of relevé data, environmental/ structural data, conducting habitat mapping and condition assessments. Technical responsibilities include providing company GIS project support including spatial database creation/ management, dataset cleaning and verification, digital mapping, map production and maintaining metadata.

Ecological projects contributed to include:

- *NPWS Farm Planner 2021-2026* – Ecologist/ GIS Technician. NPWS farm planner participating in the survey of five High Nature Value (HNV) farmlands in the northwest with an agricultural advisor. Tasks: Co-authored the Farm Plan Reports and participate in annual farm scoring.
- *Coillte BIOForest 2025* - Project Manager for the BAU4 Team/ Woodland Ecologist. Identification of new biodiversity areas on the Coillte Estate. Tasks: Ground truthing, site scoring and completing Biodiversity Area Assessment Forms.
- *Grassland Monitoring Survey 2021-2023* – Field Ecologist/ GIS Co-ordinator. This monitoring survey was carried out as part of Ireland's commitments under the EU Habitats Directive to survey and report on Annex I habitats. Tasks: Field surveys and spatial data management.
- *Data Management and Support for Coastal Habitat Monitoring 2021-2024* - GIS Co-ordinator. Providing GIS support on this NPWS coastal project. Tasks include creating a national coastal habitat dataset, creating standardised template spatial datasets for the project, and conducting spatial data checks and quality assurance on behalf of the NPWS.
- *Ecological services to Coillte BIOForest 2022-2024* - Woodland Ecologist. Assisting Coillte staff and private foresters in the implementation of biodiversity area management plans through liaison with contractors and in the preparation of invasive species management plans. Also collaborating with CCF foresters to draw up management plans that utilise the latest methods in forest management to protect and enhance woodland biodiversity.
- *Vertigo Monitoring 2021-2024* - Field Ecologist. Participating in conducting conservation assessment monitoring of three Annex II Vertigo spp. for Article 17 reporting.
- *Devils Glen Invasive Species Management Plan*. Prepared an ISMP for a Coillte Nature site in Co. Wicklow.
- *Uncommon Annex I grassland 2021-2022* - Field Ecologist/ GIS Technician. Coordinating project GIS to derive national distribution maps of four Annex I habitats (6230, 6430, 6150, 6170) for survey site selection and for Article 17 reporting. Conducting a proportion of the fieldwork.
- *Glenveagh National Park Woodland Strategy 2020-2022*. Field Ecologist/ GIS Technician. Working with colleagues to map and assess the condition of extant woodland within the National Park and

conduct surveys of potential future planting areas. Other tasks include report writing and being the project GIS coordinator.

- *Ecological study of Sluice River Marsh 2021* – Project Manager. This project involved coordinating an inventory of plants, birds and mammals at a coastal wetland site in Portmarnock, Co. Dublin on behalf of Fingal County Council. Permanent vegetation quadrats were established, and key ecological components of the site were mapped. Management recommendations were outlined.
- *Dublin Heath Biodiversity Area Management Plans 2021-2022*. This project involved working with a hydrologist to write management plans for two Coillte biodiversity areas containing montane peatland habitat.
- *Northern Ireland SAC Management Plans 2021* – Field Ecologist/ GIS Technician. Field surveys of Upper Lough Erne SAC and coordinating the GIS for several other NI SAC's.
- *Callows Review 2021* – Field Ecologist/ GIS Technician. Participated in floodplain grassland habitat mapping and the collection of management data.
- *National Survey of Upland Habitats Phases 5* – Project Manager/ GIS Co-ordinator/ Field Ecologist. Co-wrote tenders and secured contracts. Responsible for coordinating fieldwork. Managed all GIS aspects of the project. Participated in the survey of three Blanket Bog SACs. Field based activities included vegetation mapping, relevé recording and condition assessments of Annex I habitats.
- *Pilot Fen Survey 2019-2020* – Ecologist. Participated in developing the methodology for the hydromorphological and hydrochemical characterisation of fens for the pilot project.
- *Rare Vascular Plant Survey 2019* – GIS Technician. Produced maps & conducted site report edits.
- *Coillte's BioClass Project 2019* – Project Manager/ Woodland Ecologist. This project involved collaborating with foresters to write management plans for 17 Coillte biodiversity areas.
- *Resurvey of the Millennium Forests 2019* – Project Manager. This project documents vegetation succession on sites previously afforested with non-native conifers. Main duties: fieldwork organisation, vegetation survey, data analysis and report writing.
- *Fiddandarry Ecohydrology 2018-2021* – Field Ecologist. Vegetation recording according to the Irish Vegetation Classification (IVC) within an NPWS-owned blanket bog restoration site.
- *BD Enniscorthy Appropriate Assessment (AA) screening 2018* – Field Ecologist. Main duties involved conducting otter surveys.
- *Woodland Monitoring Survey 2017-2018* – Project Manager. Main duties involved fieldwork preparation, managing and coordinating field teams, field survey of four Annex I woodland habitats (91A0, 91E0, 91D0 and 91J0), data analysis and Irish Wildlife Manual (IWM) report writing.
- *National Conservation Assessments (NCAs) of Annex I habitats 2018* – GIS Co-ordinator/ Author. Compiled and wrote NCA reports for two Annex I coastal habitats (1220, 2110) and four Annex I woodlands (91A0, 91E0, 91D0 and 91J0) for the purpose of Article 17 reporting. Managed the GIS component for fifteen Annex I habitats (coastal, grasslands and woodlands) in order to obtain up-to-date national distributions.
- *Dún Laoghaire-Rathdown Wildlife Corridor Plan 2018* – GIS Co-ordinator. Assisted with the creation of a wildlife corridor map for Dún Laoghaire-Rathdown County Council through the amalgamation and stacking of existing GIS datasets.
- *Juniper Monitoring Survey 2017* – Field Ecologist. Main duties comprised participating in the mapping and monitoring of the Annex I habitat Juniper scrub (5130).
- *Grassland Monitoring Survey 2015-2018* – Field Ecologist. Main duties comprised participating in the monitoring of four Annex I grassland habitats (6210, *6210, 6410 and 6510).
- *Rare Plant Monitoring 2015-2018* – Field Ecologist. Conducted a survey of rare plant species listed on annexes of the EU Habitats Directive (Marsh Saxifrage, Alpine clubmoss, Fir clubmoss, Marsh clubmoss and Stag's-horn clubmoss).
- *Loughshinny Pumping Station Invasive Species Survey* – Project Manager. Identification and mapping of Alien Invasive Species (AIS) and report writing.
- *Provision of Site-specific Conservation Objectives (SSCOs) for 33 blanket bog Special Areas of Conservation (SACs) with a suite of upland habitats* – Project Manager/Lead Ecologist. This involved the review of all data sources relating to the 33 SACs, setting targets for habitat area and distribution, and preparing supporting documents.
- *Knockree Nature Conservation Management Plan* – Project Manager. Developed a comprehensive management plan for an upland site in Co. Wicklow with a series of nature conservation issues.

- *Invasive species survey for the Gorey Water Supply Scheme* – Field Ecologist. Identification and mapping of invasive species.
- *Vegetated Shingle Monitoring 2016* – GIS Co-ordinator/ Field Ecologist. Office based duties involved report writing, GIS management including habitat change mapping and GIS quality control. Field based duties involved vegetation mapping and conducting condition assessments for the Annex I habitat(s) of shingle beaches and sand dunes systems.
- *Turf-cutting Impact Review and Management Systems for SACs/ NHAs Designated for the Protection of Blanket Bogs* – GIS Co-ordinator/ Field Ecologist/ Author. Office-based duties involved report writing, and managing the GIS component of the project including sub-site identification and impact/ polygon digitisation, spatial database creation/ management, hydrological modelling, as well as the production and design of high quality maps. Field-based activities included vegetation mapping (using a specifically adapted vegetation classification scheme) and turf-cutting impact identification and recording.
- *Surveys of possible Marsh Fritillary sites and habitat in the mid-west (Roscommon and Longford)* – Project Manager/ GIS Co-ordinator. Field based duties involved identification and mapping of suitable Marsh Fritillary habitat, conducting Marsh Fritillary habitat condition assessments and larval web searches. Office based duties involve report writing and data/ GIS management.
- *Surveys of possible Marsh Fritillary sites and habitat in Galway and Mayo* – Project Manager/ GIS Co-ordinator.
- *Killarney National Park Habitat Map* – GIS Technician. GIS quality control and production of final habitat map for the National Parks and Wildlife Service, writing INSPIRE-compliant metadata.
- *National Survey of Upland Habitats (Pilot Phase and Phases 1-4)* – GIS Co-ordinator/ Field Ecologist/ Health and Safety Officer. Managed all GIS aspects of the project. Field based activities included vegetation mapping, relevé recording and condition assessments of Annex I habitats. Surveyed fifteen upland SACs across Ireland.
- *Surveys of possible Marsh Fritillary sites and habitat in Cos Louth, Meath & Monaghan* – Lead Ecologist/ GIS Co-ordinator.
- *Galway City Outer Bypass Marsh Fritillary Survey* – GIS Co-ordinator/ Field Ecologist.
- *Ancient and Long-established Woodlands of Co. Cork* – Lead Ecologist. Duties involved helping to secure project funding, report writing, digital mapping, co-ordinating and conducting fieldwork. The resultant GIS database was combined with a provisional inventory of these habitats (conducted by BEC Consultants in 2009) to form the first National Inventory of these habitats in Ireland.
- *Woodland Monitoring Survey 2011-2012* – Field Ecologist. Duties involved conducting fieldwork in two of Ireland's Annex I woodland types.
- *Irish Semi-natural Grasslands Survey* – Field Ecologist. Duties involved vegetation mapping, relevé recording and conducting conservation assessments within semi-natural grassland habitats. Office-based duties involved quality control of GIS datasets and final map production.
- *Marsh Fritillary and rare Bumblebee Survey* – Field Ecologist. Recording of butterflies and bumblebees within areas of Annex I grassland habitats.
- *Digitisation of the National Survey of Native Woodland sites* – GIS Technician.

Contract Ecologist, BEC Consultants Ltd. (Jan 2009 – Dec 2009)

- *Provisional Inventory of Ancient and Long-established Woodlands* – Lead Ecologist. Initialisation of a national inventory of ancient and long-established woodlands for the Republic of Ireland. Duties involved report writing, desk-based research, digital mapping, site selection, field surveys, data entry and developing a protocol for the identification of these habitats.

Irish Butterfly Monitoring Scheme Volunteer (Apr 2009 – Sep 2009). Conducted bi-weekly transects to record butterflies for the National Biodiversity Data Centre.

Irish Peatland Conservation Council (IPCC) Volunteer (Nov 2008 – Dec 2008). Conducted practical conservation within raised bogs (drain blocking, tree clearance, hydrological assessments).

Research Assistant FORESTBIO Project, Trinity College Dublin (Jun 2008 – Aug 2008). This project identified biodiversity indicators that could be used to inform 'sustainable forest management' practices. Duties involved botanical and structural data collection in forests and native woodlands.

SKILLS & ADDITIONAL INFORMATION

- Full member of the Chartered Institute of Ecology and Environmental Management (CIEEM).
- Approved Native Woodland Scheme (NWS) Ecologist.

- NPWS Farm Planner
- Successfully completed the Mountain Skills Course 1 and 2.
- Extensive experience in GIS including modelling experience and high-quality map production.
- Proficient in the use of the Microsoft Office Suite (Word, Excel and Powerpoint).
- Experienced in using packages for analysis of ecological data such as SPSS and PC-ORD.
- High level of proficiency in accurate data entry and data analysis.
- Excellent knowledge of field survey techniques, plant and habitat identification.
- Experienced in using a variety of field and laboratory equipment.
- Regularly attend courses as part of Continuing Professional Development (CPD).
- Occupational First Aid qualification. Safe Pass qualification. Trained in Manual Handling.
- Full, clean driving licence.

SELECTED PUBLICATIONS & REPORTS

- Daly, O.H.**, O'Neill, F.H., & Barron, S.J. (2023). The monitoring and assessment of four EU Habitats Directive Annex I woodland habitats. Irish Wildlife Manuals, No. 146. National Parks and Wildlife Service, Department of Housing, Local Government and Heritage, Ireland.
- O'Neill, F.H., Barron, S.J., **Daly, O.H.** & Purser, P. (2022) Glenveagh National Park Woodland Management Strategy. A report for National Parks and Wildlife Service.
- Daly, O.H.**, Barron, S.J. & O'Neill, F.H. (2023) The Devil's Glen Invasive Species Management Plan (2023-2035). A report for Coillte Nature.
- Daly, O.H.**, Brophy, J.T. & Aughney, T. (2021) Ecological Study of Sluice River Marsh, Portmarnock, Co. Dublin. A report for Fingal County Council.
- Barron, S.J., **Daly, O.H.** & Hodd, R.L. (2021) National Survey of Upland Habitats (Phase 5, 2020), Summary Report. National Parks and Wildlife Service, Department of Housing, Local Government and Heritage, Dublin, Ireland.
- Martin, J.R. & **Daly, O.H.** (2018) Report on Phase 1 of the Dún Laoghaire-Rathdown Wildlife Corridor Plan. Unpublished report for Dún Laoghaire-Rathdown County Council.
- Martin, J.R., O'Neill, F.H. and **Daly, O.H.** (2018) The monitoring and assessment of three EU Habitats Directive Annex I grassland habitats Irish Wildlife Manuals, No. 102. National Parks and Wildlife Service, Department of the Arts, Heritage and the Gaeltacht, Ireland.
- Martin, J.R., **Daly, O.H.** and Devaney F.M. (2017) Survey and assessment of vegetated shingle and associated habitats at 30 coastal sites in Ireland. Irish Wildlife Manuals, No. 98. National Parks and Wildlife Service, Department of Arts, Heritage, Regional, Rural and Gaeltacht Affairs, Ireland.
- Daly, O.H.** (2017) Alien invasive species survey for the proposed Loughshinny Pumping Station and Rising Main Project. Unpublished Report by BEC Consultants Ltd., Dublin.
- Daly, O.H.** (2016) Knockree Nature Conservation Management Plan. Unpublished report to The Heritage Council, Áras na hOidhreacht, Church Lane, Kilkenny, Ireland.
- Daly, O.H.** (2015) Surveys of possible Marsh Fritillary sites and habitat in the mid-west (Roscommon and Longford). Unpublished Report to National Parks and Wildlife Service, Department of Arts, Heritage and the Gaeltacht, Dublin, Ireland.
- Daly, O. H.**, Barron, S.J., Perrin, P.M. & Roche, J.R. (2015) Blanket bog turf-cutting management system: Site Report No. 3 The Twelve Bens/Garraun Complex SAC (002031), report version 01a. Unpublished report to the National Parks and Wildlife Service.
- Roche, J.R., Perrin, P.M., Barron, S.J. & **Daly, O.H.** (2012) National Survey of Upland Habitats (Phase II, 2011-2012), Site Report No. 8: Killarney National Park, Co. Kerry. National Parks and Wildlife Service, Department of Arts, Heritage and the Gaeltacht, Dublin, Ireland.
- Daly, O.H.** & Barron, S. (2013) Surveys of possible Marsh Fritillary sites and habitat in Cos Louth, Meath & Monaghan, Interim report. Unpublished Report to National Parks and Wildlife Service, Department of Arts, Heritage and the Gaeltacht, Dublin, Ireland.
- Daly, O.H.** (2013) Ireland's Ancient Woodlands. *Woodland*, Autumn 2013, 19-23.
- Barron, S.J., **Daly, O.H.**, Seale, E.G. & Brophy, J.T. (2013) Galway City Outer Bypass Marsh Fritillary Survey Report. Unpublished Report by BEC Consultants Ltd.
- Perrin, P.M., Roche, J.R., Barron, S.J., **Daly, O.H.**, Hodd, R.L., Muldoon, C.S. & Leyden, K.J. (2013) National Survey of Upland Habitats Site Report No. 10 Ox Mountains Bogs cSAC (002006) Cos. Mayo and Sligo. National Parks & Wildlife Service, Department of Arts, Heritage and the Gaeltacht, Dublin.
- Daly, O.** & Perrin, P. (2010) The ancient and long-established woodlands of County Cork. Unpublished report submitted to the Heritage Council, Church Lane, Kilkenny, Ireland.
- Perrin, P.M. & **Daly, O.** (2010) A provisional inventory of ancient and long-established woodland in Ireland, Irish Wildlife Manuals, No.46. National Parks and Wildlife Service, Department of Environment, Heritage and Local Government, Dublin.