

## Curriculum Vitae

Email: [markinguyana@yahoo.co.uk](mailto:markinguyana@yahoo.co.uk)

1. Family name : HOPKINS
2. First names : Mark Andrew
3. Date of birth : 30 August 1955
4. Nationality : British
5. Civil status : Married
6. Education & Training :

| Institution   | Degrees obtained                                   |
|---|--|
| UCW Aberystwyth 1973-1976                                 | B.Sc. Physical Geography                           |
| Reading University 1977-1979                              | M.Phil. Integrated Land Resources Management       |
| University of East Anglia 2001-2003                       | M.Sc. EIA, Environmental Audit, EMS                |
| Silsoe College, National Remote Sensing Centre, UK, 1984, | Image Processing Workshop                          |
| NRT Consultants, Farnborough UK. 2000                     | ArcView GIS for land resource mapping and planning |

7. Language skills : Competence on a scale of 1 to 5 (5-highest )

| Language | Reading | Speaking | Writing |
|----------|---------|----------|---------|
| English  | 5       | 5        | 5       |
| French   | 4       | 3        | 2       |
| Spanish  | 2       | 2        | 1       |

8. Membership of professional bodies : Tropical Agricultural Association
9. Other skills : MS Word, Excel, Powerpoint etc, some QGIS & ArcGIS.
10. Present position : Independent Consultant
11. Years of Experience : 42
12. Key qualifications: Land Use & Environmental Planning, Soil & Land Resource Assessment, Land Evaluation, Land Tenure, Land & Property Rights, Environmental Assessment & Monitoring, Access to Land and Land Governance, Land Cover & Land Use Mapping, Land & Environment Policy, Climate Change Adaptation & Mitigation, Integrated Land & Water Management, River basin & Watershed Management, Soil & Water Conservation, Participatory Appraisal, Remote Sensing, GIS & Mapping

I am a soil, land resources and environment, planning and management consultant with considerable experience in natural resource management (NRM) and sustainable land management (SLM) in developing countries. . I have over 40 years' experience and have worked widely in Africa, South-east Asia, South Asia, the Middle East, Europe and South America providing technical advice, analysis and planning on a wide range of land related issues. I have a broad interest in soil/land/environmental issues with specific interest in resource evaluation, integrated land use, environmental and spatial planning, land tenure and resource rights, land and watershed management, land use policy, soil erosion and soil & water conservation and sustainable responses to land degradation. I've been a team member on a number of integrated river basin and water management projects identifying mitigation and adaptation options to climate change. I have worked at ministerial and presidential advisory level but am never happier than when meeting land users in the field.

13. Specific experience in the region :

| Country | Date from - Date to | Name and brief description of the project |
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## 14. Professional experience

| Date, from - to                            | Days | Location                            | Company  | Position                               | Description   |
|--|------|-------------------------------------|--|--|---|
| Jan 2021- Dec 2023 (ongoing)               | 94   | Cambodia & Philippines              | ICEM Asia<br>Project Director, Jeremy Carew-Reid,<br><a href="mailto:jecr@icem.com.au">jecr@icem.com.au</a>                              | Soil Erosion & Conservation Consultant | <b>Investing in Climate Change Adaptation through Agro-ecological Landscape Restoration</b><br>Assessment of suitable approaches and technologies for agroecological landscape restoration (nature based solutions) of degraded watersheds (Manupali in Upper Bukidnon basin, Mindanao and Samlaut in Sanker basin in Cambodia). Creation of national level Landscape Restoration Profiles, identification of degradation drivers and hotspots, identification and prioritisation of suitable intervention options through participatory field mapping and dissemination and demonstration of suitable approaches. Co-author of Good Practices Manual on Biodiverse Forest and Landscape Restoration. <b>Asian Development Bank</b> |
| May – Oct 2021                             | 15   | Tanzania, Burundi & DRC (Homebased) | IUCN<br>Senior Programme Officer, Alain Ndoli<br><a href="mailto:alain.ndoli@iucn.org">alain.ndoli@iucn.org</a>                          | Soil Erosion Specialist                | <b>Biodiversity Conservation, Sustainable Land Management and Enhanced Water Security in Lake Tanganyika Basin. Project Preparation.</b><br>Assessment of current soil erosion status and drivers. Identification of appropriate soil & water conservation measures and sustainable land use and land management practices for habitat restoration and watershed rehabilitation.  |
| Aug 2020-March 2021                        | 57   | Mongolia (Homebased)                | Remote Sensing Applications Consultants (RSAC)<br>Project Director, Mike Wooding, <a href="mailto:mikew@rsac.co.uk">mikew@rsac.co.uk</a> | Land Sector M&E Consultant             | <b>Monitoring Agricultural Activity for Climatic Adaptation in Mongolia (MAPCAM).</b> Project planning (Discovery Phase) for developing capability to use satellite imagery (Sentinel 1 (radar) and Sentinel 2 (optical)) data to obtain more accurate and timely information on wheat and fodder crop production (location, extent, type and variability) to increase food security and resilience to climate change. Scoping of potential benefits to wider range of users. Context and Landscape analysis, design of M&E framework, theory of change, logframe, M&E plan and ToR for baseline assessment in Operational Phase. <b>UK Space Agency IPP</b>  |
| Mar 2020-Nov 2021                          | 31   | Peru (Homebased)                    | Remote Sensing Applications Consultants (RSAC)<br>Project Director, Mike Wooding, <a href="mailto:mikew@rsac.co.uk">mikew@rsac.co.uk</a> | Land Sector M&E Consultant             | <b>Regional and National Rice Production Forecasting.</b> Expansion and improvement of regional rice forecasting system to national coverage using Sentinel 1 (radar) and Sentinel 2 (optical) data. Design of M&E framework, logframe and M&E plan and Cost Effectiveness Analysis (CEA). Collection of data for baseline and endline assessments and ToR for legacy evaluation in 2022. <b>UK Space Agency IPP</b>  |
| Sep 2019-Jul 2020                          | 90   | Sri Lanka                           | Dept of Irrigation GoSL<br>Team Leader, Tim Hannan<br><a href="mailto:timhannan56@gmail.com">timhannan56@gmail.com</a>                   | Spatial Planner/Land Management        | <b>Climate Resilience Improvement Project – Development of Basin Investment Plans (CRIP-DBIP)</b><br>Supervision, mentoring and monitoring progress of counterpart staff, trained in Phase 1 (2016-18, see below), in undertaking river basin management and planning in 4 basins with particular emphasis on soils, land use and planning issues in relation to formulating mitigation options for climate change. <b>GoSL/WB</b>  |
| June-Sep 2019                              | 26.5 | Ethiopia                            | DAI (Europe) Chris Jones<br>Project Manager<br><a href="mailto:christopher_jones@dai.com">christopher_jones@dai.com</a>                  | Land Consultant/Project Formulation    | <b>LIFT (Land Investment for Transformation)</b> support to WB Climate Action through Landscape Management (CALM) Programme. Preparation of Project Implementation Manual (PIM) and Management Structure for World Bank Climate Action through Landscape Management (CALM) Programme. Scoping followed by assessment of other land programmes and similar programmes in other ministries. Preparation of PIM including selection criteria, implementation process, M&E, organisation and staffing, budgeting and disbursement and financial management. <b>Dfid</b>   |
| Apr-Jul 2018                               | 19   | Mali & Ethiopia                     | LTSi & MDF, Frans Van Gerwen, Team Leader<br><a href="mailto:info@fransvangerwen.nl">info@fransvangerwen.nl</a>                          | Watershed/Landscape Management         | <b>Evaluation of Drylands Development (DryDev)</b> programme, an integrated development programme in Burkina Faso, Ethiopia, Kenya, Mali and Niger. Evaluation of 'sub-catchment window' and technical and biophysical work packages and responsibility for Ethiopia Country Report. <b>MoFA (NL).</b>  |
| June 2016-Oct 2017, intermittent 2018-2019 | 132  | Sri Lanka                           | Atkins, Team Leader, Tim Hannan<br><a href="mailto:timhannan56@gmail.com">timhannan56@gmail.com</a>                                      | Spatial Planner/Land Management        | <b>Climate Resilience Improvement Project (CRIP).</b> Development of long term investment plans to mitigate flood and drought risks in 10 river basins. Assessment of current land management issues at national and local level affecting flooding and drought including potential spatial land use changes to 2040, collection of soil and land use data for input to basin modelling (WEAP, SWAT & TUFLOW). Planning likely land use to 2040 horizon for use in flood mitigation strategy and Flood & Drought Risk Assessment and Management. Pre-feasibility studies regarding abandoned paddy land, watershed management in the highlands and soil & water conservation in the upper Malwathu Oya basin. <b>World Bank</b>     |

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| Nov 2015-June 2016, Oct-Dec 2017, Jun-Jul 2018, intermittent 2019 | 177 | Bangladesh       | NHC Consultants, Knut Oberhagemann, Project Director, <a href="mailto:koberhagemann@nhcweb.com">koberhagemann@nhcweb.com</a>                             | Social/Regional Development Planning                | <b>Flood and Riverbank Erosion Risk Management Investment Program (FRERMIP).</b> Project 1. Formulation of River Stabilisation and River Training Plan for Jamuna, Padma & Lower Meghna rivers and Preliminary River Management Master Plan. Review of current river use, social baseline and potential social impacts of proposed interventions on char population in Strategic Environmental & Social Assessment. Appraisal of synergy with and conflicts between FRERMIP and other GoB plans. Project preparation planning for next project phase and preliminary formulation of planning process and potential use of stabilised and reclaimed land within Jamuna-Padma river corridor. <b>ADB</b>  |
| Jun-Oct 2015  | 19  | Ethiopia & Sudan | BRLi Consultants Etienne Dressaye, Project Director, <a href="mailto:Etienne.Dressayre@brl.fr">Etienne.Dressayre@brl.fr</a> +33 (0) 1380 816602          | Land Use Planning & Watershed Management            | <b>Baro-Akobo-Sobat Multipurpose Water Resources Development Project.</b> Assessment of current and proposed watershed management interventions as part of Strategic Social and Environmental Assessment (SSEA) to inform Integrated Water Resources Development and Management Plan (IWRDMP). <b>ENTRO, AfDB.</b>  |
| Feb 2011 - Oct 2013   | 634 | Guyana           | HTSPE Adam Pierzchala-Project Director <a href="mailto:Adam_pierzchala@dai.com">Adam_pierzchala@dai.com</a> , +44 (0)1442 202400                         | Land Use Planning                                   | <b>Development of Land Use Planning.</b> Institutional strengthening and preparation of strategic national plan (integration of biodiversity conservation, agriculture, forestry, mining, energy, infrastructure and socio-economic sectors) and 3 regional plans in line with REDD+ adaptation and mitigation measures & Low Carbon Development Strategy. Regional participatory workshops throughout country to gauge local issues. Production of 'Next Steps' assessment highlighting natural resource policy gaps, decisions required, procedural changes and priority data requirements for enhanced planning. Involvement in rationalisation of institutional responsibilities and linkages for natural resources management, review of land tenure status, property rights and LUP Laws and Regulations, formulation of proposals for reform of legal and institutional framework. <b>EC/EDF</b> |
| Apr-Nov 2010  | 99  | Ethiopia         | Halcrow Group, TL, Alan Clark, <a href="mailto:aclark@nhcweb.com">aclark@nhcweb.com</a> +44 (0)1793 812479   | Land Use Planning & Watershed Management            | <b>Nile Basin Irrigation &amp; Drainage Feasibility Study.</b> Tana Beles and Negeso Irrigation Development. Land use planning for irrigation development, including soil & water conservation as part of watershed management component. Spatial planning using landscape approach for agricultural development, environmental conservation, community and commercial forestry, grazing and settlement expansion. Extensive community engagement and stakeholder consultations as part of watershed management component. <b>World Bank.</b>   |
| Feb-Apr 2010<br>Jul-Aug 2009                                      | 86  | Mozambique       | HTSPE, James Green, Project Director <a href="mailto:james_green@dai.com">james_green@dai.com</a> +44 (0)1442 202400                                     | Land Resources & Land Use Planning Consultant       | <b>MCA-Land Component.</b> Assessment of land resources and property rights in Niassa, Cabo Delgado, Nampula and Zambesia provinces to facilitate access to land and development of land use planning process in line with Land Law (Leis de Terras) as part of land reform programme. <b>Millennium Challenge Corporation</b>  |
| Nov-Dec 2009  | 21  | Ethiopia & Sudan | BRLi Consultants Etienne Dressaye, Project Director, <a href="mailto:Etienne.Dressayre@brl.fr">Etienne.Dressayre@brl.fr</a> +33 (0) 1380 816602          | Land Tenure Specialist                              | <b>Eastern Nile Irrigation and Drainage Study.</b> Assessment of land tenure and property rights in relation to proposed irrigation developments at Wad Miskeen (Sudan) & Dinger Bereha (Ethiopia). Assessment of land access, possible resettlement impacts and need for land reform for project implementation and effect on resource allocation. Nile Basin Initiative. <b>AfDB.</b>   |
| Jan'09-Jan'10<br>Feb-Oct 2008<br>Jan-Sep 2007                     | 438 | Ethiopia         | Halcrow Group, Carolyn Francis Associate Director, Environment <a href="mailto:Carolyn.Francis@ch2m.com">Carolyn.Francis@ch2m.com</a> +44 (0)1793 812479 | Land Use Planning & Watershed Management Consultant | <b>Rift Valley Lakes Basin Integrated Development Master Plan.</b> Assessment of land resource data and land use change mapping. Delineation of criteria for selection of catchments for watershed management interventions. Preparation of community watershed development plans through participatory planning (integration of soil & water conservation, agriculture, forestry, energy, infrastructure, environment and socio-economic sectors) at both pre-feasibility and feasibility (project preparation) levels incorporating social, technical, environmental and economic assessments resulting in outline project implementation plans. <b>GoE</b>   |
| Sep-Oct 2008  | 12  | Guyana           | Guyana Lands & Surveys Commission Andrew Bishop, Commissioner of Lands <a href="mailto:arbishop10@gmail.com">arbishop10@gmail.com</a>                    | Land Degradation Assessment                         | <b>Land Degradation Assessment: part of Sustainable Land Management Project.</b> Land degradation assessment of pilot area as part of national degradation assessment to define forest degradation drivers as precursor to REDD proposals. <b>UNDP/GEF/GoG.</b>   |
| Nov '07- Jan '08  | 63  | Rwanda           | HTSPE James Green (as above)   | Watershed Management Programme Development          | <b>Rwanda Ecosystem Rehabilitation and Poverty Eradication Programme.</b> Preparation of Concept Note for consideration by GoR and potential donors concerning applicability of Chinese Loess Plateau Watershed Management model to aid Rwanda address climate change driven land degradation. Included definition of objectives and scope (including stakeholder analysis and draft logframe), review of existing information, assessment of potential interventions and approaches, clarification of programming issues, proposal of implementation and monitoring & evaluation arrangements, identification of potential development partners and plan of next steps for project implementation. <b>DfID.</b>  |
| Jan-Oct 2007  | 31  | Ethiopia         | Halcrow (as above)   | Land Use Planner for Watershed Management           | <b>Eastern Nile Fast-Track Integrated Watershed Management Project.</b> Project Preparation Planning of three Integrated Watershed Management projects near Lake Tana, Amhara Region for fast-track financing and implementation. Preparation of project profiles for community based participatory watershed development programme. Extensive community consultations for social impact of soil & water conservation measures within community development plans. <b>Nile Basin Initiative/World Bank.</b>   |

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| Sep-Dec 2006      | 90  | Rwanda                            | HTSPE (as above)  | Land Use Planning Consultant  | <b>National Land Reform Project.</b> Strategic review and development of 'road map' to improve tenure security, formalise property rights and access to land and develop land use planning process, review institutional arrangements for land use planning, prepare national land use planning strategy including institutional arrangements for forward planning, development control and land use change. <b>DfID.</b>  |
| Mar-Apr 2006      | 34  | Guyana                            | GLSC (as above)   | Land Use Planner for Road Corridor Development                                  | Land use planning of road corridor between Lethem and Linden linking Boa Vista (Brazil)-Georgetown and coastal Guyana. <b>GoG</b>  |
| Jun '05-Aug '07   | 130 | Ethiopia                          | Halcrow (as above)  | Land Use Planner for Watershed Management                                       | <b>Awash River Basin Flood Control and Watershed Management Study Project.</b> Initial assessment of available land resource, land use, agro-ecology and socio-economic data and watershed management status. Delineation of criteria for selection of catchments for potential watershed management interventions. Preparation of project profiles for community based participatory watershed development programme through extensive community consultations to assess social impacts. <b>AfDB</b>                      |
| Feb-Jun 2005      | 38  | Abu Dhabi                         | Atkins Environment Robert Whitcombe<br><a href="mailto:robert.whitcombe@atkinsglobal.com">robert.whitcombe@atkinsglobal.com</a> | Environmental Assessment & Land Resources Consultant                            | Preparation of land management plans to achieve soil conservation aims within overall forestry strategy. <b>GoAD</b>   |
| Oct-Dec 2004      | 30  | Guyana                            | GoG/UNDP  | Management of Natural Resources & Environment Project - Land Use Policy Advisor | Formulation of Land Use Policy as part of Natural Resources Management Policy Development through synthesis of sectoral policy statements, guidelines and strategy papers into National Land Use Policy to achieve goals set out in National Development Strategy and Poverty Reduction Strategy. <b>UNDP</b>  |
| Feb '03 - Dec '04 | 318 | Guyana                            | HTSPE   | Land Use Planner  | <b>Guyana Land Administration Support Programme.</b> Capacity building within Guyana Lands & Surveys Commission in land management and regional planning. Establishment of Policy & Planning Unit. Preparation of land use plans for two regions as technical models. <b>DfID</b>  |
| Dec '01 – Jun '02 | 170 | Cambodia, Laos, Thailand, Vietnam | Mekong River Commission   | Land Resources Consultant   | <b>Land Resources Inventory for Agricultural Development</b> project. Management of establishment of a land resources information system for the Lower Mekong Basin using remote sensing and GIS tools. Training riparian counterpart agencies in the application of remote sensing and GIS for land resources inventory and land evaluation through on-the-job training and technical LRIAD project workshops. <b>MoA Japan</b>   |
| Apr-Jul 1999      | 90  | Bangladesh                        | Kampsax   | Soil Conservation Expert  | Development of strategy for appropriate soil and water conservation in the Chittagong Hill Tracts. Assessment of future research and training needs and recommendations on strengthening of institutional framework for integrated soil conservation and watershed management programme. <b>DANIDA</b>   |
| Oct '97 - Mar '98 | 88  | Swaziland                         | GFA-Agrar   | Soil, Land Use Planning and Topography Expert                                   | Lower Usuthu River Basin, Feasibility level study to assess potential for smallholder irrigation development. Initial data gathering and management of land evaluation and topographic survey component of study. Compilation of current land use map from LANDSAT TM imagery. <b>EC/EDF</b>   |
| Jun-Sep 1997      | 93  | Philippines                       | RWA International   | Soil Conservation Expert  | <b>WESAMAR.</b> Assessment of soil erosion and land degradation status, identification and costing of appropriate soil conservation techniques and preparation of soil conservation guidelines. <b>EC/EDF</b>  |
| Sep '96 - Apr '99 | 231 | Ghana                             | Kampsax   | Monitoring & Evaluation of land use information specialist                      | Development of Environmental Information System comprising five data sets: topography, meteorology, land tenure, soil & land suitability and land use. Assessment of progress towards countrywide coverage of land cover/land use mapping by Remote Sensing Applications Unit. Verification of procedures and that output met development objectives. <b>DANIDA</b>  |
| Oct '95 - Aug '96 | 187 | Ghana                             | Halcrow   | Soil scientist  | Feasibility study to assess potential for small-scale irrigation development. Selection and screening of potential small-scale irrigation and water conservation projects countrywide by bottom-up approach with villages involved in project identification. Initial rapid appraisal and screening followed social and environmental impact assessment and development plans. <b>AfDB</b>   |
| May '93 - Oct '95 | 637 | Ethiopia                          | RWA International   | Soil scientist  | <b>Omo-Gibe River Basin Master Plan.</b> A Master Plan with a 30 year timeframe for the development of the natural resources of the basin with minimal adverse social and environmental impact. Initial assessment of available natural resource data, identification of data gaps, creation of data collection framework. Extensive stakeholder and community consultations to provide data for resource database and subsequent land evaluation. Definition of constraints to and potential for development. <b>AfDB</b> |
| Sep '91 - Apr '92 | 112 | Ethiopia                          | Halcrow-ULG   | Land Resources and Forestry specialist  | <b>Rift Valley Lakes Master Plan.</b> Land resource assessment; population and livestock support capacity evaluation assessment of soil conservation priorities, costing and recommendations for remedial measures. Review of forestry data and fuelwood status. Preparation of project proposals. <b>FAO-UNDP</b>   |
| Jul-Aug 1991      | 30  | Zambia                            | Halcrow-ULG   | Soil Scientist  | Land evaluation for irrigation of former ranch near Mazabuka, southern Zambia. <b>CDC</b>  |

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| Nov '90 - Mar '91 | 51   | Oman                    | Mott-Macdonald | Soil Scientist   | <b>Nejd Groundwater Irrigation Development.</b> Feasibility level study to assess potential for irrigation development from groundwater sources. <b>GoO.</b>   |
| Oct 1990          | 29   | Botswana & South Africa | Mott-Macdonald | Land Use Planner | <b>Joint Upper Limpopo Basin Study</b> Pre-feasibility level study to assess potential scenarios for development of the upper Limpopo River. <b>GoB&amp;SA</b>   |
| Jun '89 - Jun '90 | 227  | Algeria                 | Atkins         | Agro-Pedologue   | Rehabilitation of Bas Chélif Irrigation Scheme and Extension Areas, western Algeria & Irrigation Feasibility study of the Mitidja Plain, near Algiers. <b>World Bank.</b>  |
| Jun '88 - Mar '89 | 149  | Botswana                | Mott-Macdonald | Soil Scientist   | Feasibility/Preliminary Design level study to assess potential for dam on Motloutse river for water supply and irrigation. <b>GoB</b>  |
| Feb - May 1988    | 59   | Botswana                | Mott-Macdonald | Soil Scientist   | <b>Metsemothaba Transfer Scheme,</b> Environmental Impact Assessment of proposed Gaborone water-supply dam on Metsemothaba river. Land quality assessment for possible resettlement options. <b>GoB</b>              |
| Aug '85 - Apr '86 | 213  | Tanzania                | AHT            | Soil Scientist   | <b>Iringa Regional Agricultural Development Plan.</b> Land Evaluation for rainfed and irrigated agricultural development with identification of potential for and possible constraints to development. <b>EC/EDF</b> |
| Nov 1980 - 1984   | 1125 | Zimbabwe                | MoA, GoZ       | Pedologist       | Pedologist, Dept of Research and Specialist Services, Chemistry and Soil Research Institute, Harare. Soil surveys and land evaluation for government and private clients.  |