

## Curriculum Vitae: Robin Arthur Chapman

Nationality	South African
Education	<p>M. Sc (Hydrology) (1990) University of Kwa-Zulu Natal, Pietermaritzburg</p> <p>BSc (Hons) (Hydrology) (1987) University of Kwa-Zulu Natal, Pietermaritzburg</p> <p>BSc (Hydrology, Geology) (1986) University of Kwa-Zulu Natal, Pietermaritzburg.</p> <p>Pr. Sci. Nat. - 114331</p>
Languages	English (mother tongue)
Membership of professional bodies	<ul style="list-style-type: none"> <li>Registered Natural Scientist under the South African Council for Natural Scientific Professions (SACNASP) - Registration Number Pr. Sci. Nat – 11433.</li> <li>External Research Fellow, Department of Botany and Zoology, University of Stellenbosch, Stellenbosch</li> <li>Associate: OneWorld Sustainable Investments, Cape Town, South Africa.</li> <li>Futures Colloquium Member: Institute for Futures Research, University of Stellenbosch Business School, Stellenbosch, South Africa.</li> <li>Associate: EcoAfrica Environmental Consultants, Cape Town, South Africa</li> </ul>

## Employment record

2015 - current	Independent consultant and research contractor (primary occupation).
2009 – 2015	<p>Research Lead and Contracts Manager OneWorld Sustainable Investments, Cape Town</p>
1990 – 2009	<p>Hydrologist and project manager Council for Scientific &amp; Industrial Research, South Africa (CSIR), South Africa</p>
1989 - 1990	<p>Hydrologist Department of Water Affairs and Forestry, South Africa</p>

## Relevant professional experience

January 2018 – July 2018	<p>Climate Change Risk &amp; Vulnerability Assessment in Luapula, Muchinga, Northern &amp; Western Provinces, Zambia, under the Pilot Program for Climate Resilience (PPCR)</p> <p>Ministry of National Development Planning</p> <p><b><i>Hydro-meteorology, Climatology and Climate Change and Public Health</i></b></p> <p>Identify responsive and feasible investments in climate resilience, enhanced water resource management and improved disaster risk reduction. Activities conducted: Undertook a situation analysis in target areas on past and current climatic hazards, their impacts and initiatives to address these and document the livelihoods and ecosystems trends in line with identified climate hazards; worked with a climate change impact modeller verify and ground-truth climate change predictions and assess future climatic hazards and undertake mapping of affected sectors, districts, livelihoods and assets; conducted field consultations with local stakeholders and community groups on existing vulnerabilities and coping strategies in order to identify the most</p>
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vulnerable Districts and Wards across the target areas; assessed the adaptive capacities prevailing in the target areas for different stakeholders disaggregated by gender and other socially defined vulnerable groups and recommend actions to address relevant capacities; identified on-going opportunities for disaster risk reduction and climate change adaptation that the government and district planning structures could scale up to strengthen climate resilience and disaster preparedness in the target areas; targeted districts generally and zone hazard prone areas (hotspots) including land cover, vegetation cover, geological hazards, and precipitation distribution; documented the changing patterns of livelihoods, ecosystems and climate including trends of the hazards identified; developed a climate risk and vulnerability profile forecasted for each target district and Ward to inform future development plans and investments; assessed sector specific impacts of the past hazards identified.

Sep - Dec 2017 Northern Zambia: 1) Landscape Vulnerability Risk Assessment Baseline; and 2) Development of a Decision Support Tool, for TRALARD-Zam under the Pilot Program for Climate Resilience (PPCR)

Zambian National Climate Change Secretariat (NCCS)/Zambian PPCR Implementation Unit in Ministry of National Development Planning / World Bank

***Risk and vulnerability assessment and synthesis: Research and strategy development***

Development of a baseline landscape vulnerability assessment; and climate vulnerability decision-support framework for increasing adaptive capacity. Research; analysis of Risk & Vulnerability.

2016 SCRiKa - Strengthening Climate Resilience in the Kafue Sub-Basin, Zambia, under the Pilot Program for Climate Resilience (PPCR)

World Bank/ African Development Bank

***Risk and vulnerability assessment and synthesis: Research and strategy development***

Eleven districts in Central and Southern provinces are particularly vulnerable to climate variability and climate change. The project aims to strengthen adaptive capacity of rural communities, reducing poverty and enhancing food security. Tasks: Research the causes of vulnerability, exposure and risk of people inhabiting the Kafue River basin in Zambia, as a means of informing adaptation options. Identification of driving forces of vulnerability.

2014 -2015 Impacts of climatic variation and change, and agricultural water demand, on future hydropower production – Zambezi River basin

Client: CDKN (Climate Development Knowledge Network – DFID) and then World Bank in a two-stage process.

***Development (socio-economic and population) scenario modelling and reporting***

Power production from the installed and proposed hydropower facilities in the basin was modelled through the interconnection and use of Water Evaluation and Planning system (WEAP) and Long-range Energy Alternatives Planning System (LEAP) (Stockholm Environmental Institute). Power production is constrained by climate variation and change in the basin, land use (growth in irrigation demand) and urban and industrial/mining demand. A SADC-wide integrated power demand and supply model was built (first of its kind in the region), which also considered power interconnectors between different countries. Spalding-Fecher et al. (2014) is the paper relevant to this work and is attached. This paper highlights numerical modelling. Arthur Chapman contributed in part to the hydrological modelling but mostly to the population growth curves.

Feb – Sept 2020 Training Manual on the preparation of proposals to access funding for Sustainable Ground Water Management in SADC Member States

Southern African Development Community Groundwater Management Institute (SADC-GMI), funded by the World Bank

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**Expert Consultant**

This project aims to address some of the challenges of accessing finance for groundwater infrastructure investments in the SADC region, through development of a stakeholder needs-driven, user-friendly training manual for project proposal preparation to access funding for groundwater related infrastructure projects.

2007 - 2008

Long-term Mitigation Scenarios: Vulnerability to climate change in South Africa

Department of Environment Affairs, Government of South Africa

**Hydrological and health-related research consultant**

A review of all sectors in the South African environment and economy with regard to vulnerability of climate change and inputs to the first carbon mitigation wedge assessments for emissions reduction planning. Activities performed: Research on impacts in the water and health sectors.


June 2021 –  
February 2022

Capacity Building on risk and vulnerability assessment tool and development of national climate RVA for Health Sector

South African Dept. of Health; Dept. of Environment, Forestry and Fisheries/ GIZ

**Climate and Health-related Consultant**

Reviewed previous climate-health tool for inputs into the new approach, prepared inputs to a new climate change and human health relationship structure for the tool. Took part in stakeholder engagements as part of an effort with 52 districts across South Africa. Report writing – Synthesis reports – Introductory material and the climate rationale for this approach. Developed the focus for the business case – focusing on specific future projects.

2018 –  Present

Hydrological modelling for ecosystem-based adaptation in the Duiwenhoks catchment, Southern Cape.

**Post-Graduate Advisor**

The Duiwenhoks River catchment in the Southern Cape has experienced severe flooding in the recent past. Part of this may be due to changes in land use. The hydrological modelling using JAMS 2000 being undertaken on flow dynamics, considering a time-series of land use changes since the 1940s, is looking to evaluate the use of ecosystem-based adaptation (increasing flood water retention on flood plains) to ameliorate the flow peaks of the river during heavy rainfall. Arthur Chapman is an advisor on hydrological modelling of hydrological processes. This project highlights numerical modelling in the water sector.

2020 - 2022

Determining the cause for trends in pan evaporation in South Africa

**Research consultant and analyst**

There are observations globally of declining pan evaporation (an instrument for measuring evaporative demand), in contrast to expectations of increasing evaporation as a result of global warming. This is known as the “evaporation paradox”. A statistical analysis that required substantial data exploration and then regression analysis of 154 datasets resulted in a paper laying out the likely reasons for the evaporation paradox, pointing out that it is not a paradox but an evaporative demand response to changes in the local environment. The paper is attached, with myself as senior author and responsible for the statistical analysis and highlights statistical analysis, especially regression analysis.

2016-2017

Extreme 1-day rainfall distributions: Analysing change in the Western Cape

**Research Consultant and Analysis**

Global warming is causing changes in the extreme value distributions of rainfall. The non-stationarity of rainfall leads to inappropriate hydrological design values, leading to inappropriate dimensions of bridges, culverts and other infrastructural features. This project in the Department of Geography and Environmental Science, University of Stellenbosch assessed daily rainfall records of 76 rainfall stations in the Western Cape. A comparison of extreme value distributions of two 3 consecutive 30-year periods evaluated how extreme values (in the 95<sup>th</sup> and 98<sup>th</sup> percentile of observation values) changed over the preceding 6 years. Arthur Chapman wrote



	<p>the analytical code in R (the analytical process was undertaken by a colleague). The resulting work is attached as a paper by de Waal et. al (2017). This project highlights statistical analysis.</p>
January 2018 – June 2019	<p>“Climate Change Hazard, Vulnerability and Risk Assessment” Study to the Benefit of the City of Cape Town</p> <p>AFD – Agence Française de Développement, City of Cape Town</p> <p><b><i>Climatology and Climate Change Consultant</i></b></p> <p>The aim of this study was to assess the nature and spatial location of hazards, vulnerabilities, and risks in Cape Town given current climate change projections, to enable the City to make decisions not only on new investments, but also on how it should potentially adjust existing projects to ensure better climate proofing. Activities conducted: Preparation for and participation in project team meetings; contributed towards assessment of adaptation and investment options for the City of Cape Town; contributed to the development of the draft Adaptation Options and Investment Manual; contributed to finalisation of Final Adaptation Options and Investment Manual.</p>
2016	<p>Disaster Risk Assessment – Robben Island Museum</p> <p>Robben Island Museum</p> <p><b><i>Lead Consultant in Disaster Risk Assessment</i></b></p> <p>Identification and ranking of disaster risks to Robben Island Museum entities around Cape Town, with evaluations of likelihood and consequences. Proposal and costing of solutions.</p>
2014	<p>Eden &amp; Central Karoo Drought Disaster 2009 -2011 “The Scramble for Water”</p> <p>Western Cape Disaster Management and USAid</p> <p><b><i>Hydrological and Water Resource Consultant</i></b></p> <p>External review activities: Water resource and hydrological inputs into a comprehensive review and analysis of the Western Cape drought disaster that affected the Eden and Central Karoo Districts between 2009 and 2011.</p>
2016	<p>Hydropower development impacts - Boegoeberg Dam, Orange River – hydrology and sediment risk evaluation.</p> <p>Client: Council for Scientific and Industrial Research.</p> <p><b><i>Independent Consultant</i></b></p> <p>As a means of introducing more power generating options into South Africa, a project was proposed to install run-of-river hydropower generation at the Boegoeberg Dam on the Orange River. The task was to review project reports and advise on sustainability. It was found by this investigation that sedimentation enhanced by hydropower operating rules had not been adequately concerned. The project was halted. This project highlights statistical analysis on river flows and the paper is attached.</p>
2015-2016	<p>Off the RADAR: Synthesis Report: Evaluation of High Impact Weather Events in the Western Cape Province of South Africa</p> <p>Western Cape Provincial Disaster Management Centre</p> <p><b><i>Consultant on Extreme Weather and Flood Risks</i></b></p> <p>This project evaluated the high impact weather events (storms leading to extreme flooding) in the region from 2003 - 2014, assessing the nature of the hazard, the nature of exposure to the hazard and the reasons for the consequences of that flooding - lives lost and social and economic losses. Activities performed: Research, analysis and strategy development, identification of climate response actions; communication – presentations.</p>
2014 – 2015	<p>Limpopo River Basin – Strategies for adaptation to climate change, floods, water scarcity and ecosystem loss for the Resilience in the Limpopo River Basin (RESILIM) program</p> <p>USAID / Chemonics/ OneWorld</p>

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**Key researcher and strategy developer**

This project develops a strategy increasing basin resilience through a strategy of maximising runoff through biodiversity conservation goals, with additional aims of improving water quality in the basin associated with mining, highly industrialised and urbanised areas. The project integrates climate change, biodiversity and water resources management. Activities performed: Climatic analysis identified hydrological risks to the Limpopo River Basin; Hydrological impact assessments for Payment for Environmental Services; developing recommendations for integrated water resource management and transboundary water preservation; research, analysis and strategy development, communication – presentations.

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2005 - 2006      Developing markets for watershed protection services and improved livelihoods  
UK Department for International Development (DFID)

**Hydrologist and water resources consultant**

Ga-Selati River Catchment, Limpopo Province, South Africa. The project purpose was to increase understanding of the potential role of market mechanisms in promoting the provision of watershed services for improving livelihoods in developing countries. Activities performed: Field work, quantitative analysis and report writing.

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2010      Risks and Vulnerabilities on Food Security and Livelihoods in the Lowlands and Mountains: Kingdom of Lesotho  
FAO

**Senior Consultant**

Evaluation of climate impacts on food producing systems. Stakeholder interactions

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2013      Assessment of Climate Resilient Livelihood Options in Drought Prone Areas (Six districts in Gaza Province, southern Mozambique)

National Directorate of Planning, the Ministry of Planning and Development, or the Ministry for the Coordination of Environmental Affairs - República De Moçambique Ministério Da Planificação E Desenvolvimento Ministério Para A Coordenação Da Acção Ambiental

**Senior Consultant**

Conducted a risk and vulnerability assessment, desktop and participatory assessments and fieldwork to identify feasible resilience building investments, especially in response to the high risk and incidence of drought in southern Mozambique. Activities performed: Evaluate the vulnerability of the population and their livelihood strategies using inter alia household economy surveys to assess vulnerability to climate change and recommend adaptation options. Modelling, analysis, integrative writing, evaluation of environmental and socio-economic profiles, recommendations for increasing the resilience of livelihoods in southern Mozambique.

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2009 - 2011      Climate change adaptations in the water resources sector in 10 SADC countries  
Department for International Development (DFID), UK Government.

**Project Manager, also performing the research and reporting on two countries – South Africa and the Seychelles**

The project evaluated the key climate change vulnerabilities of the water resources sector in each SADC country for the Regional Climate Change Programme (RCCP): Southern Africa For the Department for International Development. The project looked systematically at the vulnerability of the water resources in each country to the effects of climate change, with a focus on the unique context and circumstance of those countries. These could be their relative dependence on irrigation agriculture, hydropower, their level of economic development and status of water resource infrastructure. Activities performed: Project leading and management and report writing.

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2016 - 2017      Southern Mozambique – Climate change adaptation strategies in agricultural value chains  
PROSUL (Mozambique) supported by IFAD (International Fund for Agricultural Development)

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**Lead consultant and technical director**

The three agricultural value chains of red meat, cassava and horticulture are highly vulnerable to climate variability and change in various ways and require adaptation options and validation of current strategies. Tasks: Research and strategy development, report development, integrative reporting. Evaluation of the climate change impacts, as well as other sources of vulnerability of poor farmers, to three agricultural value chains in southern Mozambique, with multi-criteria decision making as a means of identifying and ranking adaptation options.

2012

Women and Climate Change

Department of International Relations and Cooperation (DIRCO), Gov. South Africa.

**Chief writer and researcher for OneWorld Sustainable Investments**

Women are uniquely vulnerable, but also resilient and resourceful, to the challenges of climate change and variability. This book tells some stories from around the world and was presented by the Minister of DIRCO when South Africa handed over the Presidency of COP17/CMP7 to the host of COP18. Activities performed: Research and integrative writing

2009 -2011

Regional Climate Change Programme (RCCP) SADC region

DFID (UK Government)

**Project leader on research and senior researcher**

Adaptation responses required in the SADC region to the impacts of climate change on MDGs, human health, transboundary water resources and southern African cities - exposure to disaster. (Chapman, Midgley et al. 2011; van Hasselt and Chapman, 2012, Young et al, 2010; Pegram et al., 2011; Chapman & Sassman, 2011). Activities performed: Research, integrative writing, consulting, publications development, policy paper preparation and presentations on transboundary water resources, MDGs, disaster risks and human health vulnerabilities to climate change in the southern African region.

2017

Climate Risk Management

UN Intergovernmental Panel on Climate Change (IPCC)

**Principal author**

Background paper to the IPCC pre-scoping meeting, hosted by International Red Cross and Red Crescent Societies, Nairobi.

2018 - 2019

Drivers of urban flood risk – Ethiopia

UNESCO/ARMS

**Course Presenter**

2020 – present

The correlation of El Niño Southern Ocean (ENSO) state (and other ocean-atmosphere oscillations) with fire regimes in the Cape Floristic Region

**External Consultant Research Advisor**

A project at the Department of Botany, University of Stellenbosch, South Africa, is attempting to correlate particular ocean index states to incidences of high and lower wildfire intensity and extent. The analytical work involves tabulating monthly fire extent to annual values and aggregation across regions. ENSO indices are transformed into categorical values and statistical means are used to look for correlation between ENSO state and extent burned. As an external research advisor, I am reviewing, guiding aspects of the statistical work and testing additional ocean indices as additional variables as well as writing parts of the developing paper, unpublished as yet. The project highlights statistical analysis.

2020 – 2021

Strengthening Research Collaboration on Disaster Risk Reduction (DRR) in the SADC Region

World Bank and University of Stellenbosch

**Expert Consultant and Lead Researcher**



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2020 – 2022	<p>This project looks at all of the DRR networks in the SADC region and beyond and analyses how they operate and what opportunities there are for strengthening network collaboration in a way that develops capacity and increases sustainability of the research capabilities. The analysis also covers research networks that cover other hazards that are domain specific, such as early warning systems for hydroclimatic extremes, flooding and drought, seismic hazards, urban vulnerability, drought. Arthur Chapman’s role is to develop the analysis, in collaboration with other DRR researchers in the SADC region who are members of the PeriPeri U DRR Secretariat hosted at the University of Stellenbosch, write an analysis report and then a recommendations report which takes the findings forward.</p>
2020 – 2022	<p>The cost-benefits of evaporation suppression and the drivers of evaporation estimates over South Africa</p> <p><b>Expert Consultant</b></p> <p>This project in the Department of Geography and Environmental Science, University of Stellenbosch is to evaluate the cost-benefits of evaporation suppression in the light of the intense and long-duration drought experienced in the region. This involves a levelized cost evaluation using a net present valuation. Different suppression techniques with their different capital and operating costs are compared over a standard term, with the result a Unit Reference Value which allows a numerical comparison of costs for the different technologies. This segment highlights numerical analysis and modelling. The paper is in submission with myself as senior author.</p>
2017	<p>Climate Risk Management</p> <p>UN Intergovernmental Panel on Climate Change (IPCC)</p> <p><b>Principal author</b></p> <p>Background paper to the IPCC pre-scoping meeting, hosted by International Red Cross and Red Crescent Societies, Nairobi.</p>
2007 – 2008	<p>Impacts of climate change on the water resources of Uganda</p> <p>DANIDA</p> <p><b>Water resources consultant</b></p> <p>Evaluate in broad terms the vulnerability of the water resources to climate change and present strategies for adaptation. Activities performed: Research and consultation to evaluate the climate change impacts on water resources in Uganda.</p>
2005 – 2006	<p>Western Cape Climate Change Response and Adaptation strategy, South Africa</p> <p>Department for Environmental and Development Planning, Provincial Government of the Western Cape</p> <p><b>Consultant on water resources</b></p> <p>Climate change projections were drawn through various socio-economic sectors to evaluate the impacts of climate change and present a baseline evaluation. Activities performed: research and inputs on the spatial patterns of water distribution, water demand and supply sector, operations and climate change adaptation strategy development.</p>
2005	<p>A Status Quo, Vulnerability and Adaptation Assessment of the Physical and Socio-economic Effects of Climate Change in the Western Cape</p> <p>Western Cape Provincial Government</p> <p><b>Hydrological Research Consultant</b></p> <p>Research and inputs on the spatial patterns of water distribution, water demand and supply sector with reference to the vulnerability of the province to water shortages. Future changes to fire frequency according to climate models.</p>
2000 – 2001	<p>Western Cape Regional Water Resources Strategy, South Africa</p> <p>Department of Water Affairs and Forestry</p>

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**Project leader**

Project management and research. Risk assessment and adaptation planning

2015 - 2017 South Asia Climate Proofing and Growth Development (Odisha and Chhattisgarh states in the Mahanadi River basin)

Oxford Policy and Management Limited – funded by DFID

**External review consultant and advisor**

The project evaluated ways to improve flood warnings and integrated water management (flooding in Odisha State and water resources management in Chhattisgarh State). Activities performed: Provided external oversight and reviews of: Data analysis; development of scenarios of future water balance under climate change and socio-economic growth; assessment of current planning and management practices; capacity analysis; governance assessment; and the recommendations flowing there from.

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**Publications and Conference Papers (selected)**

**Papers and Chapters in Books (chronological order)**

**Chapman, R.A.**, Midgley, G.F., Smart, K., 2021. Diverse trends in observed pan evaporation in South Africa suggest multiple interacting drivers. *South African Journal of Science* 117.

<https://doi.org/10.17159/sajs.2021/7900>

Johnston, P.A., **Chapman, R.A.**, 2018. Food and Water Management in Southern Africa, in: Allan, T., Bromwich, B., Colman, T., Keulerz, M. (Eds.), *The Oxford Handbook of Food, Water and Society*. Oxford University Press, pp. 1–30.

de Waal, J., **Chapman, R.A.**, Kemp, J., 2017. Extreme 1-day rainfall distributions: Analysing change in the Western Cape. *South African Journal of Science* 113, 1–8.

<https://doi.org/10.17159/sajs.2017/20160301>

Spalding-Fecher, R., Senatla, M., Yamba, F., Lukwesa, B., Himunzowa, G., Heaps, C., **Chapman, A.**, Mahumane, G., Tembo, B., Nyambe, I., 2016. Electricity supply and demand scenarios for the Southern African power pool. *Energy Policy*. doi:10.1016/j.enpol.2016.10.033

Spalding-Fecher, R., **Chapman, R.A.**, Yamba, F., Walimwipi, H., Kling, H., Tembo, B., Nyambe, I., Cuamba, B., 2014. The vulnerability of hydropower production in the Zambezi River Basin to the impacts of climate change and irrigation development. *Mitigation and Adaptation Strategies for Global Change*. doi:10.1007/s11027-014-9619-7

Petrie, B., Midgley, S., **Chapman, A.**, Hope, E., 2012. “Thuto ya Batho”: Teachings from the people: Women adapt to climate change. Book prepared for the COP17/CMP7 President and Minister of International Relations and Cooperation of the Republic of South Africa. OneWorld Sustainable Investments, Cape Town, South Africa. Pp 104.

Le Maitre, D., Richardson, D., **Chapman, R.A.**, 2004. Alien plant invasions in South Africa: Driving forces and the human dimension. *South African Journal of Science* 100, 103–112.

Le Maitre, D., Van Wilgen, B., Gelderblom, C., Bailey, C., **Chapman, R.**, Nel, J., 2002. Invasive alien trees and water resources in South Africa: case studies of the costs and benefits of management. *Forest Ecology and Management* 160, 143–159.

Chapman, R., Le Maitre, D., Richardson, D., 2001. The Great Reshuffling: Human Dimensions of Invasive Alien Species, in: McNeely, J. (Ed.), pp. Pp. 195 – 208–Pp. 195 – 208.

Van Wilgen, B., Little, P., **Chapman, R.**, Görgens, A., Willems, T., Marais, C., 1997. The sustainable development of water resources: History, costs and benefits of alien plant control programmes. *S. Afr. J. Sci.* 93, 404–411.

Chapman, R., Manders, P., Scholes, R., Bosch, J., 1995. Who should get the water? Decision support for water resource management. *Wat. Sci. Tech.* 32(5-6), 37–43.

**Selected Technical Reports**





- Chapman, A., Sasman, N., 2012. Cities and Climate Change: Urban vulnerability and resilience in southern Africa: Synthesis Report. For the Regional Climate Change Programme (RCCP), UK Department for International Development. OneWorld Sustainable Investments, Cape Town.
- Chapman, R.A., Whande, W., 2013. Climate change and energy security in Africa. Presented at the New Approaches to Climate Diplomacy in Africa, United Nations Conference Centre, Addis Abbaba, Ethiopia.
- Chapman, A., 2011. Health and Energy: A Southern African Perspective (No. Regional Climate Change Programme: Southern Africa For the Department for International Development CNTR 200607514). OneWorld Sustainable Investments.
- Croxton, S., Petrie, B., **Chapman, R.**, Midgley, S., 2013. Assessment of Climate Resilient Livelihood Options in Drought Prone Areas of Mozambique - Pilot Programme for Climate Resilience (No. P125225). Report prepared by OneWorld Sustainable Investments, Cape Town, South Africa for the Ministry of Planning and Development and Ministry for Coordination of Environmental Affairs, Government of the Republic of Mozambique.
- Midgley, G., **Chapman, R.**, Mukheibir, P., Tadross, M., Hewitson, B., Wand, S., Schulze, R.E., Lumsden, T., Horan, M., Warburton, M., Kgope, B., Mantlana, B., Knowles, A., Abayomi, A., Ziervogel, G., Cullis, R., Theron, A., 2007. Impacts, vulnerability and adaptation in key South African sectors: An input into the Long Term Mitigation Scenarios process, LTMS input Report 5 (Summary report). Energy Research Centre, University of Cape Town, Cape Town.
- Midgley, G.F., **Chapman, R.A.**, Hewitson, B., Johnston, P., de Wit, M., Ziervogel, G., Mukheibir, P., van Niekerk, L., Tadross, M., van Wilgen, B.W., Kgope, B., Morant, P.D., Theron, A., Scholes, R.J., Forsyth, G.G., 2005. A Status Quo, Vulnerability and Adaptation Assessment of the Physical and Socio-economic Effects of Climate Change in the Western Cape. Report to the Western Cape Government, Cape Town, South Africa. CSIR Report No. ENV-S-C 2005-073, Stellenbosch.
- Midgley, S.J.E., **Chapman, R.A.**, Petrie, B., Antzoylatos, A., 2010. Technical report on climate change impacts, risks and vulnerabilities on food security and livelihoods in the lowlands and mountains (No. Project number: TCP/LES/3203 (D)). For the Food and Agriculture Organization of the United Nations (FAO) in partnership with the Lesotho Ministry of Forestry and Land Reclamation.
- Petrie, B., Midgley, S., **Chapman, A.**, Hope, E., 2012. "Thuto ya Batho": Teachings from the people: Women adapt to climate change. Prepared for the COP17/CMP7 President and Minister of International Relations and Cooperation of the Republic of South Africa. OneWorld Sustainable Investments, Cape Town, South Africa. Pp 104.
- Petrie, B., **Chapman, A.**, Midgley, A., Parker, R., 2014. Risk, Vulnerability and Resilience in the Limpopo River Basin - A Synthesis [WWW Document]. URL <https://www.usaid.gov/documents/1860/risk-vulnerability-and-resilience-limpopo-river-basin-synthesis-o> (accessed 11.19.15).
- Pharoah, R., Fortune, G., **Chapman, A.**, Schaber, E., Zweig, P., 2016. Off the Radar: High Impact Weather Events in the Western Cape, 2013 - 2014. Research Alliance for Disasters and Risk Reduction, Department of Geography and Environmental Studies University of Stellenbosch.
- Van Hasselt, J. & **Chapman, A.** (2012). Health and climate change: Key linkages in southern Africa, Technical report, For: the Regional Climate Change Programme for Southern Africa (RCCP). UK Department for International Development (DFID). Cape Town: OneWorld Sustainable Investments.
- Van Hasselt, J. & **Chapman, A.** (2010). Climate Change and Health in the Water Sector, Technical report, For the Regional Climate Change Programme (RCCP). UK Department for International Development, OneWorld Sustainable Investments, Cape Town.
- Young, T. Tucker, T. Galloway, M. Manyike, P. **Chapman, A.** & Myers, J. (2010). Climate change and health in SADC region: Review of the current state of knowledge, Report to the Regional Climate Change Programme by SEAD, 58 pp.