

Timesheet Details by Client

Dugal Harris
Between September 01, 2017 and December 01, 2017

	Team	Project	Task	Notes	Hours	Billed
Rhodes University						
09/14/17	Harris, Dugal	GEF5 SLM: Carbon Stock Remote Sensing	Meetings, admin & reporting	Collect DGPS and NGI data	2.00	
09/15/17	Harris, Dugal	GEF5 SLM: Carbon Stock Remote Sensing	Meetings, admin & reporting	Setup and test DGPS for trial. Meet with Cos to handover.	2.50	
09/25/17	Harris, Dugal	GEF5 SLM: Carbon Stock Remote Sensing	Acquire and calibrate imagery	Acquire NBAR MODIS im of MP 2005 area for date of QB im	1.00	
09/25/17	Harris, Dugal	GEF5 SLM: Carbon Stock Remote Sensing	Literature survey	Literature search for vegetation height/volume from stereo aerial imagery	5.00	
09/26/17	Harris, Dugal	GEF5 SLM: Carbon Stock Remote Sensing	Acquire and calibrate imagery	Transform MODIS image into GeoTiff with matching Quickbird bands	2.00	
09/26/17	Harris, Dugal	GEF5 SLM: Carbon Stock Remote Sensing	Acquire and calibrate imagery	Test radiometric cross calibration on Quickbird image with MODIS reference	2.00	
09/26/17	Harris, Dugal	GEF5 SLM: Carbon Stock Remote Sensing	Data analysis	Obtain Quickbird RSR's and compare to MODIS. Check linearity of rel. with eg. surface spectra.	2.00	
09/27/17	Harris, Dugal	GEF5 SLM: Carbon Stock Remote Sensing	Software development	Integrating new GDAL into calibration code. BIGTIFF and threading options added and tested.	5.00	
09/28/17	Harris, Dugal	GEF5 SLM: Carbon Stock Remote Sensing	Data analysis	Check if cross-calibrated image improves on tagc correlation	3.00	
09/28/17	Harris, Dugal	GEF5 SLM: Carbon Stock Remote Sensing	Data analysis	Export field trial data from DGPS and visualise	1.00	
09/30/17	Harris, Dugal	GEF5 SLM: Carbon Stock Remote Sensing	Data analysis	Visual check of SUDEM L3. Compare accuracy against GCP heights.	2.00	
10/01/17	Harris, Dugal	GEF5 SLM: Carbon Stock Remote Sensing	Acquire and calibrate imagery	Orthorectify Quickbird image with new SUDEM L3 and check accuracy	2.00	
10/01/17	Harris, Dugal	GEF5 SLM: Carbon Stock Remote Sensing	Acquire and calibrate imagery	Gathering GCP's for multispec Quickbird image with new orthorect (SUDEM L3) as reference. Orthorectofy and check multispec Quickbird image.	5.00	
10/02/17	Harris, Dugal	GEF5 SLM: Carbon Stock Remote Sensing	Acquire and calibrate imagery	Atmospheric correction and pan sharpening of latest orthorectified imagery	3.00	
10/02/17	Harris, Dugal	GEF5 SLM: Carbon Stock Remote Sensing	Data analysis	Attempted differential correction of Sept trial dgps data.	2.00	
10/03/17	Harris, Dugal	GEF5 SLM: Carbon Stock Remote Sensing	Acquire and calibrate imagery	Experimenting with ATCOR options	3.00	
10/10/17	Harris, Dugal	GEF5 SLM: Carbon Stock Remote Sensing	Research	Review carbon baseline field trial report	2.00	
10/11/17	Harris, Dugal	GEF5 SLM: Carbon Stock Remote Sensing	Data analysis	Re-analysing MP 2005 GT with mag. N oriented plots.	4.00	
10/12/17	Harris, Dugal	GEF5 SLM: Carbon Stock Remote Sensing	Meetings, admin & reporting	Meeting to finalise basline methodology	2.50	
10/14/17	Harris, Dugal	GEF5 SLM: Carbon Stock Remote Sensing	Software development	Rewriting plot image extraction code to allow arbitrary scale, origin and rotation (with origin located properly as spec'd)	6.00	
10/15/17	Harris, Dugal	GEF5 SLM: Carbon Stock Remote Sensing	Software development	Continued work plot extraction code	4.00	
10/17/17	Harris, Dugal	GEF5 SLM: Carbon Stock Remote Sensing	Software development	Completed plot extraction code modifications	2.00	
10/17/17	Harris, Dugal	GEF5 SLM: Carbon Stock Remote Sensing	Software development	Making a python tool to correct geotransform of NGI NIR files (so that they coincide with RGB files)	3.00	
10/19/17	Harris, Dugal	GEF5 SLM: Carbon Stock Remote Sensing	Acquire and calibrate imagery	Begin processing NGI imagery to include all 4 bands and correct geotransform	1.00	
10/19/17	Harris, Dugal	GEF5 SLM: Carbon Stock Remote Sensing	Software development	Made script for NGI aeriels to correct NIR projection and stack NIR with RGB bands	4.00	

	Team	Project	Task	Notes	Hours	Billed
10/19/17	Harris, Dugal	GEF5 SLM: Carbon Stock Remote Sensing	Software development	Batch script to process directories of NIR/RGB images	2.00	
10/20/17	Harris, Dugal	GEF5 SLM: Carbon Stock Remote Sensing	Acquire and calibrate imagery	Re-process NGI imagery with new scripts	1.00	
10/20/17	Harris, Dugal	GEF5 SLM: Carbon Stock Remote Sensing	Software development	Bugfix to GDAL's merge utility for negative x axes	3.00	
10/22/17	Harris, Dugal	GEF5 SLM: Carbon Stock Remote Sensing	Data analysis	Re-format field trial data to allow automated data analyses	3.00	
10/22/17	Harris, Dugal	GEF5 SLM: Carbon Stock Remote Sensing	Software development	Develop python script for parsing field trial data	2.00	
10/23/17	Harris, Dugal	GEF5 SLM: Carbon Stock Remote Sensing	Acquire and calibrate imagery	Experimenting with orthorectification of 4 band NGI aerials with SUDEM L3	5.00	
10/24/17	Harris, Dugal	GEF5 SLM: Carbon Stock Remote Sensing	Acquire and calibrate imagery	Orthorectifying 4 band NGI imagery	1.00	
10/24/17	Harris, Dugal	GEF5 SLM: Carbon Stock Remote Sensing	Data analysis	Analysing field trial data for plant height/carbon distribution	7.00	
10/25/17	Harris, Dugal	GEF5 SLM: Carbon Stock Remote Sensing	Data analysis	Analysing field trial data for canopy edge effects and appropriate treatment	5.00	
10/26/17	Harris, Dugal	GEF5 SLM: Carbon Stock Remote Sensing	Data analysis	Analysing field trial data for canopy edge effects and appropriate treatment	2.00	
10/26/17	Harris, Dugal	GEF5 SLM: Carbon Stock Remote Sensing	Meetings, admin & reporting	Writing up a report on the trial data analysis	1.00	
10/26/17	Harris, Dugal	GEF5 SLM: Carbon Stock Remote Sensing	Software development	Developing python code for computing carbon stocks using allometric models	5.00	
10/27/17	Harris, Dugal	GEF5 SLM: Carbon Stock Remote Sensing	Acquire and calibrate imagery	Radiometric cross calibration of 2015 NGI aerials	3.00	
10/27/17	Harris, Dugal	GEF5 SLM: Carbon Stock Remote Sensing	Meetings, admin & reporting	Writing a report on field trial data analysis	4.00	
10/28/17	Harris, Dugal	GEF5 SLM: Carbon Stock Remote Sensing	Acquire and calibrate imagery	Mosaic MODIS references and re-calibrate NGI aerials	2.00	
10/28/17	Harris, Dugal	GEF5 SLM: Carbon Stock Remote Sensing	Software development	Debugging MS visual studio and Windows 10 creators update issues	3.00	
10/28/17	Harris, Dugal	GEF5 SLM: Carbon Stock Remote Sensing	Software development	Debugging cross calibration misalignment and string issues	2.00	
10/30/17	Harris, Dugal	GEF5 SLM: Carbon Stock Remote Sensing	Data analysis	Analysis of trial dead wood data	5.00	
10/30/17	Harris, Dugal	GEF5 SLM: Carbon Stock Remote Sensing	Meetings, admin & reporting	Write up dead wood results	1.00	
11/02/17	Harris, Dugal	GEF5 SLM: Carbon Stock Remote Sensing	Research	Investigating the usefulness of a custom PCI DTM from NGI aerials to assess vegetation height	3.00	
11/14/17	Harris, Dugal	GEF5 SLM: Carbon Stock Remote Sensing	Meetings, admin & reporting	Investigate Worldview-3 image options for orthorectification and budgeting. 2018 work planning.	7.00	
11/15/17	Harris, Dugal	GEF5 SLM: Carbon Stock Remote Sensing	Meetings, admin & reporting	Meeting with Cos to discuss 2018 plan	1.00	
11/16/17	Harris, Dugal	GEF5 SLM: Carbon Stock Remote Sensing	Software development	Write python code to convert field trial analysis results to excel for Cos	2.00	
11/20/17	Harris, Dugal	GEF5 SLM: Carbon Stock Remote Sensing	Meetings, admin & reporting	Collect DGPS from SU for Cos	2.00	
11/21/17	Harris, Dugal	GEF5 SLM: Carbon Stock Remote Sensing	Field work	Make a procedure for importing shapefiles to DGPS	1.00	
11/21/17	Harris, Dugal	GEF5 SLM: Carbon Stock Remote Sensing	Meetings, admin & reporting	Meeting to finalise modifications to sampling methodology	1.00	
11/22/17	Harris, Dugal	GEF5 SLM: Carbon Stock Remote Sensing	Data analysis	Generate hillshade, aspect etc maps from SUDEM to assist with stratification map of GEF site	3.00	
11/23/17	Harris, Dugal	GEF5 SLM: Carbon Stock Remote Sensing	Data analysis	Begin generating stratification map for pristine/moderate degradation classes	2.00	
11/24/17	Harris, Dugal	GEF5 SLM: Carbon Stock Remote Sensing	Data analysis	Generating stratification map and sampling points for intact thicket plots	7.00	
11/26/17	Harris, Dugal	GEF5 SLM: Carbon Stock Remote Sensing	Data analysis	Re-generating sampling points for intact thicket plots with id's and random spread. Adding sampling points for degraded thicket.	3.00	

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11/27/17	Harris, Dugal	GEF5 SLM: Carbon Stock Remote Sensing	Acquire and calibrate imagery	Rectifying and radiometrically correcting NGI aerials covering GEF sampling sites	4.00	
11/28/17	Harris, Dugal	GEF5 SLM: Carbon Stock Remote Sensing	Data analysis	Analysing spread of feature values for planned sampling sites (using NGI aerials)	4.00	
12/01/17	Harris, Dugal	GEF5 SLM: Carbon Stock Remote Sensing	Data analysis	Visualisation of 3D DEM with texture mapped NGI aerials (for plant height applications)	4.00	
Total					172.00	
ALL TOTAL					172.00	