

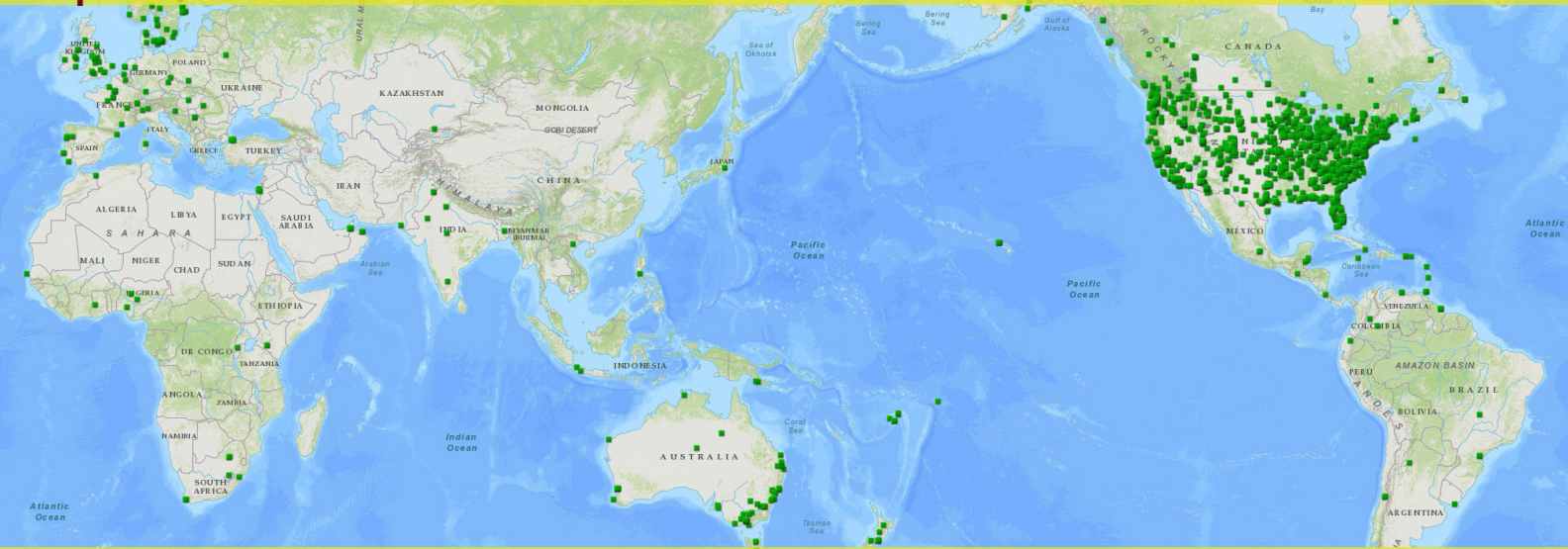
iTaukei
Land Trust Board

Taukei Land. Our Heritage. Our Future



Special Edition - Women in GIS

Extracts from Stephanie Routh's blog (<https://www.dewberry.com>)



The world map shows the distribution of over 5,000 marked Women in GIS locations.

More than 5,000 women from the U.S. to the coast of New Zealand have identified themselves on an ESRI map in an effort to strengthen the community of women in the GIS industry.

As a field, geography hasn't exactly been trailblazed for women. Executive editor of Directions Magazine, Adena Schutzberg, stated, "I was keenly aware when I graduated with a masters in geography that my class only had 17 people in it, and only four of them were women." While several women hold notable positions within the GIS industry, it's been difficult to find local communities of women in this profession.

This year, Morgan State economics professor Dr. Linda Loubert started a grassroots movement to change that. Dr. Loubert set out to put women in the GIS profession on the map, literally. In what has become the top talking-point for women in the GIS community, Dr. Loubert created an interactive ESRI map for women to show where they work. More than 5,000 women from North America to South Africa, and from the Middle East to the coast of New Zealand have contributed to the map. With nearly 40,000 views and countless articles written about it, the map shows how well-represented

women are in this industry and is a great networking tool for everyone involved.

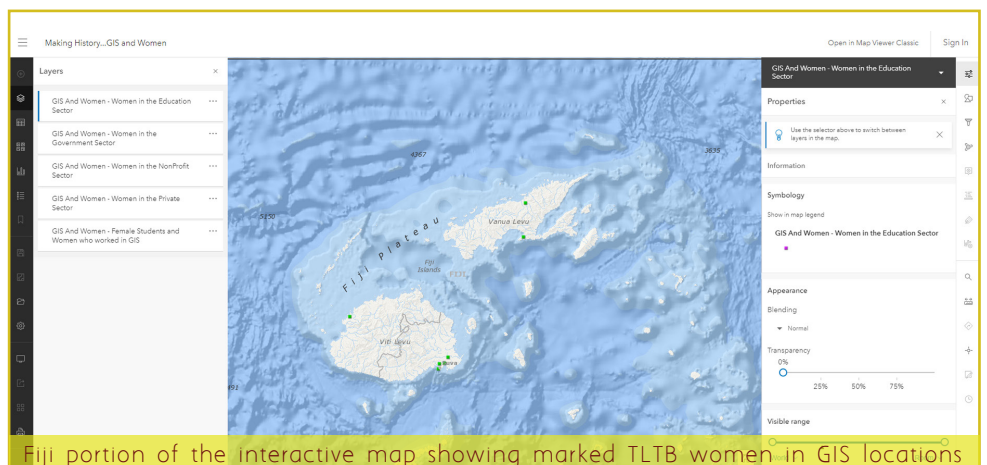
Changing Viewpoints and Building Connectivity

As GIS professionals, we know that success is not solely determined by accurate mapping, but rather by how strategically the data can be applied to a situation. This is the first time women in the GIS community have had the ability to be accounted for throughout the world, and while the metrics themselves are astounding, it's the data that holds the most promise.

From this map, a young woman just starting her GIS career can see which

areas have the highest concentrations of other women professionals in a specific job sector. Or, if she doesn't want to move far from home, she can see which sector is most popular in her region. Women looking to network in the industry now have a tool. This map (something we're all familiar with in this profession) offers a direction and path for their individual careers.

TLTB women in GIS are among the first in the Pacific Region to mark themselves in this interactive map alongside their counterparts from the US, Europe and Australasia. This interaction can provide mentorship, method sharing, assistance and even job opportunities.



Fiji portion of the interactive map showing marked TLTB women in GIS locations



TLTB WOMEN IN GIS

Compiled by GPO Moria Gaunavou

Malo a bula and welcome to Nai Bulibuli's March Edition!

2021 International Women's Day was celebrated on the 8th of March with the theme "Women in Leadership: Achieving an Equal Future in a COVID-19 World".

Women have undisputedly proven to contribute vastly in various fields like education, politics, science and so on.

This month, I would like to focus your attention on the female employees of TLTB, who are engaged in the Geospatial field.

Currently there are seven women who are in this field and they have shared their experiences and advice to young girls who are interested and aspiring to join the Geospatial field in the future.

GIA ANA QIOLEVU NAUSORI OFFICE

GIS is known to be a male dominated area of work and this has been the norm for quite a number of years. This stereotype made things a bit more challenging for me when I knew that I would be securing a formal employment back in 2018.

However, I was thankful and relieved that when I began, I had the company of female geospatial officers GA Vikatoria Wiliame & GIA Siteri Vunisa in the North West Region. I definitely learnt a lot from our geospatial officers and as the years went by, I was able to gain a lot of experience and knowledge.



What I studied in University and the task carried out in TLTB in geospatial was very different and this was a challenge I had to take on. Some of the tasks I carry out include conducting inspections with the estate team, uploading information to the TLTB ArcGIS server, charting New Lease Applications, inserting x and y coordinates together with the particulars

of land details, Lease Plan (AFL/IOT/TAW) drawing, LDVC inspection and report compilation. I also engage myself in doing special projects assigned by Senior officers such as scheming of new potential area for lease and providing reports for rezoning.

Moreover, our organisation can be a testament to the increasing participation of females in the Geospatial Field.

GIA Siteri Tinai NORTHERN OFFICE

Sa yadra, my name is Siteri Tinai and I am from Bureiwai, Nakorotubu, Ra. I graduated from the University of the South Pacific with a Bachelors Degree in Environmental Science in 2019.

I began this GIS journey when I had first joined the technical department in the Northern Region, as a Temporary GIA. Nineteen months into my career, I was transferred to the South West region than later returned to Labasa in October 2020. Four months later, I then had received my offer as a Geospatial Assistant. I learnt a lot from the two different regions I had previously worked in and the experiences have taught and moulded me till date. Generally my duties include assisting staff with managerial duties but I tend to focus more on technical tasks. I am also tasked to provide and assist clients; LOU's with lease and NLC boundaries upon MN's approval, data collection using GNSS tools, serve stakeholders, surveyor's and land owners, provide maps for inspection and consultation purposes and so on.

To be part of the TLTB GIS team is awesome and challenging at the same time



because for one, it is a male dominant field and anything to do with GIS is IT related; as a GIS officer, I have to be accurate with the work I do in providing information I provide and this requires me to constantly keep up to date with the GIS data.

T\GIA Nanise Maiesia CENTRAL\EASTERN OFFICE

Spatial data is more than just locations of points of interest or simple x,y (latitude, longitude) coordinates. Spatial data takes into account its characteristics, its surrounding features

such as its vicinity to water resources, electricity, access, its elevation and much more. Being in the geospatial section, it gives me a bird eye view of native leases and their respective demarcations. In this sense, we see and understand what is happening on ground remotely.



After joining TLTB, I have come to understand the challenges iTaukei land owners are faced with. At the same time, this indicates that there is an opportunity to enhance our services. Learning is not limited to our University studies but it is continuous.

This new opportunity has enabled me to learn new geospatial tools and techniques that have added on to my previous knowledge, to which I am very grateful for.

To women who wish to join the geospatial field, I believe there is a great opportunity that we may use our skills to enhance services and provide solutions to our relevant stakeholders, including women stakeholders. Geospatial techniques can be integrated qualitatively and quantitatively. Geospatial is diverse. Regardless of the industry, geospatial data and techniques could provide solutions.

GIA Siteri Vunisa SAVUSAVU OFFICE

Cola Vina! My name is Siteri Vunisa. I'm originally from Naibalebale, Viwa, Yasawa & I graduated with a Bachelors of Science in GIS and GE.

I started my career at TLTB under the Data Cleaning Project as an attaché and I then moved on to becoming a project officer. I joined the technical department under the North West Region in 2018, and had just been recently transferred to Savusavu Office. Being in a male dominant field particularly in the operations area has taught me alot. I

had to learn to get out of comfort zone and I was grateful to have been under the teachings of my former supervisor GIO Tomu Vatucicila who helped me achieve that.



My transition from Lautoka to Savusavu office has been an eye opening experience. While at Savusavu office I was able to grasp the knowledge and skills in both estate and technical background & that contributed to the achieving of targets that are involved outside my field of study from TL Waqasaqa, EA Sowane and FC Lalabalavu. It is a good learning experience trying to familiarize myself with estate work which I am also adapting to as well and these duties include handling new lease applications, normal counter services, carrying out and assisting with inspections, consultations, attending to the teams requests and most importantly serving the land owners in the form of clarification, confirmation and assuring the right information to our stake holders, landowners and clients. At the end of the day; delivering to the expectation of our stake holders/land owners and clients matter. So if you are able to bring yourself out of your comfort zone and juggle responsibilities with work, then I strongly encourage those women who wish to excel in the GIS field here at iTaukei Land Trust Board. Being part of the technical team at TLTB which is also known to be a male dominant field has been a good learning experience. It really tests you to the best of your abilities and also strengthens yourself mentally and also is a good learning process.

Working at IT Department is fun and exciting. Everyday we get to assist different types of request from GIS officers from the regions. Since we are stationed at IT Department, we have also learnt some basic IT skills like troubleshooting, zoom meeting set up, VNC, remote desktop connection assistance and email log on refused assistance to staff. We try our very best to serve our customers, both internal and external, thus meeting our vision of "Excellence in land management services to meet the expectations of our stakeholders". Our advise to young ladies who want to join the Geospatial field is "Sky is the limit". If you have graduated with a Bachelors Degree, try and pursue Post Graduate, Masters and Doctorate! Do not limit yourself and always aim to be of service holistically in all areas of your life.

T\GPO Moria Gaunavou & GA Vikatoria Wiliame

GIS TEAM, IT DEPARTMENT

Bula Vinaka!

Our names are Moria Gaunavou and Vikatoria Wiliame and we are stationed here at IT Department, Head Office.

Geospatial Information System can be defined as a framework for gathering, managing, and analyzing data. Rooted in the science of geography, GIS integrates many types of data. It analyzes spatial location and organizes layers of information into visualizations using maps and 3D scenes. When one mentions GIS, terms like remote sensing, differential correction, 3D, maps, co-ordinates comes to mind. Our work here at TLTB includes monitoring of leasemaster charting, CBUL lease verification and monitoring, ArcGIS Online, mobile app and web map assistance, monitoring of leasemaster charting, Survey123 report extraction, creating and resetting ArcGIS online credentials, GNSS troubleshooting and assistance, installation of GIS softwares and attending GIS forums and meetings upon invitation.



**GIA Likusima Breckterfield
NORTHWEST OFFICE**

Bula re!!!!!!

My name is Likusima Naigalu and I am from Bagata, Wailevu in the Province of Cakaudrove.

My journey to become a Geospatial Officer is not an easy one. I left School after complete Year 13 and was inspired to continue with my studies after giving birth to my youngest daughter. I am a mother to five beautiful children to motivates me to become who I am today since my husband was the sole bread winner.

I pursued further studies in the University of the South Pacific doing Diploma In Geospatial Science . I began my

GIS journey on October 19,2020 as a Temporary Geospatial Assistant. My



work as a Temporary GIS Assistant is to attend to SEO(O) instructions for locality maps, assist and prepare LOU maps

for clients once approved from the Manager and also assist 360 team with inspection plotting's.

I love being part of the North West team and I appreciate former NW Geospatial Assistant, GIA Vunisa and GIO Vatucicila for guiding me along and assist me whenever I seek for their assistance.

My advice to young girls out there who would love to join GIS is that, even though GIS is a male dominant field it will be possible for women who have been willing to work with man as this will increase gender equality in the workplace.



FIJI PUBLIC SERVICE SURVEY DRAUGHTING EXAMINATION (FPSSE)

by GIO Tomu Vatucicila

I joined the board back in 2003 and it was one of the requirements for all Technical Officers then is to sit the FPSSE examination organized by the Ministry of Lands Department, the exams is to give you a certified certificate of becoming a registered drafts man in our field of work

I started my examination in 2012 from stage 1 programs which covers 2 months sitting, May sitting & November sitting, and one of the main conditions with the exams is to pass stage 1 in order to sit for stage II the following year which is part of the final stages, the Board decides who attends the exams every year due to limited sitting the exams.

Exam Reference:
Stage I covers seven subject altogether, four subjects is covered on the May sitting and three is covered on the November sitting, all subjects are mainly draughting programs such as;

- Stage I May sitting**
 - A. Draughting Theory & Instruments
 - B. Survey Plan Drawing
 - C. Introduction to LIS/GIS
 - D. Photogrammetry
- Stage I November Sitting**
 - E- Survey Computation 1
 - F- Civil Service & Departmental Knowledge
 - G- Cartography & Mapping

Once you complete stage I with the passing mark of 60% above than you are

eligible to sit for stage II which covers six subjects only, the first four subjects must also be passed with 60% above or you will not be eligible to sit for your final two subjects in November;

- Stage II May Sitting**
 - A. Land Surveying & Field Measurement
 - B. Photogrammetry & Remote Sensing
 - C. Survey Computation II
 - D. Cartography & Mapping II
- Stage II November Sitting**
 - E. Plan Drawing (Practical Training 6hrs,Final 6hrs)
 - F. Cadastral (Practical Training 3wks, Final 3wks)

Exam Review:
The exam was very insightful in our field

of work; it covers more on the processes of Survey and calculation, you will also learn the different types of Mapping system and process, we were fortunate enough to be learning the software that is mainly used by Lands Department on plotting which is Liscad and Microstation where we compiled our final stages in stage II, having to sit for the final stages on Plan Drawing and Cadastral is exciting, because you get to learn more on how draftsman compile Survey reports and do plotting on various data collection by surveyors, the Board is fortunate to be part of this programme since it is also part of the Geospatial appraisal to undergo the exam and receiving your Certified Certificate on completion.



CUSTOMISED PENDING NOTICES LAYER FOR ARCGIS EXPLORER

The CE Region Arrears team have successfully implemented an ArcGIS Explorer work methodology that could potentially redefine the serving of notices and arrears collection for the Board. After initial discussions with the Geospatial team, an online layer was created

CE EO Arrears Marika came up with the idea to see if there is a way to show all pending notices geographically on their mobile phones. He had a long list of tenants that are yet to be served notices but needed a way to be able to locate them in the field.

Creating the Online Layer

The pending notices list was exported into CSV format and added as a layer in GIS. The join feature tool is then used to join the CSV file to the Leasemaster using LeasematerID as the unique identifier. The attributes of Leasemaster layer were deleted as all we need from that layer are the georeferenced polygons of each lease.

The new resultant file is zipped and

uploaded into ArcGIS Onilne, saved and published after the properties were configured. This file can be viewed and used for navigation in ArcGIS Explorer App or used in a totally new ArcGIS Online App like QeleMaroroi. The layer can be searched in Explorer using the



filename. In this case, the filename is Pending Notices Batch 01. With that done, the Arrears team can now go onto the field and navigate to each lease. Furthermore, the details of each each lease is tabulated onto the screen simply by selecting the polygon. This minimises paperwork and having to carry files as all the data is loaded digitally in ArcGIS online.

In addition to the Explorer component, quick survey's can be carried out using customised Survey 123 for Arrears. This creates a systematic way of collecting data which will assist TLTB in understanding our tenant's problems.

Officers in different departments are encouraged to discuss with the Geospatial Team at Head Office any ideas they have because only then can we look at possibilities and how it can be applied to our work procedures.



NEW NORMAL PROTOCOL

AVOID TOUCHING

M E N

MOUTH EYES NOSE

INSTEAD FOLLOW

WOMEN

W - WASH YOUR HANDS **O - OBEY SOCIAL DISTANCING** **M - MASK UP**

E - EXERCISE & EAT WELL **N - NO UNNECESSARY TRAVELLING**

ARCGIS ONLINE UTILISATION STATS - MARCH

Created
7/8/2014

Renewal Date
6/1/2022

Credits Remaining
20,878.57

Quick Date Select

Start: 3/1/2021

End: 3/31/2021

Credits

Content

Apps

Members

Groups

Mar 1, 2021, 12:00:00 AM GMT - Mar 31, 2021, 12:00:00 AM GMT

Interact with the charts, tables and map in this report to explore content activity and usage

Content Summary

412

Items This Period

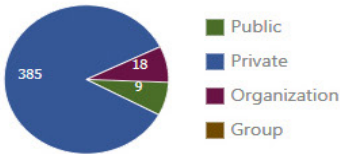
20

Contributors

Contributors

Member	Items
mralowaivalu	128
Inailolo	92
tltbgis	52
isamanunu	26
TLTB_GIS	16
mnadakua	13
rsingh1	13

Sharing Summary



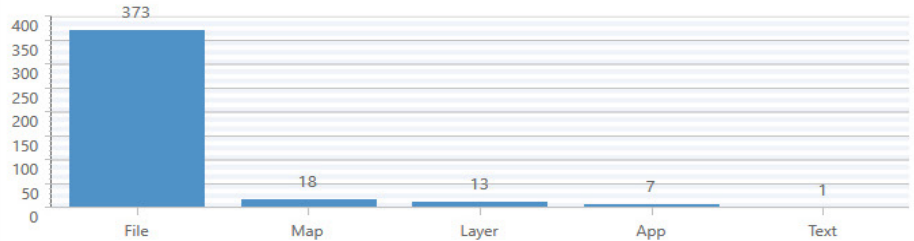
Tags in Items

Survey123

Feature Report test 2021

Arrears IS NOT Null 2020 Returned Mails
Tropical Cyclone Arrears Land_available
basemap CE QeleMaroroiview leasemaster
LeaseMaster_March9_2021 Cyclones
Native Lease iTaukei Lease iTaukei Landowners
Available Lease Qelemaroroi
Arrears 18/03/2021 qelemaroroview
Fiji Land Cover Paths Cyclone arrears cbul
bua LDVC Reassessment Print Template

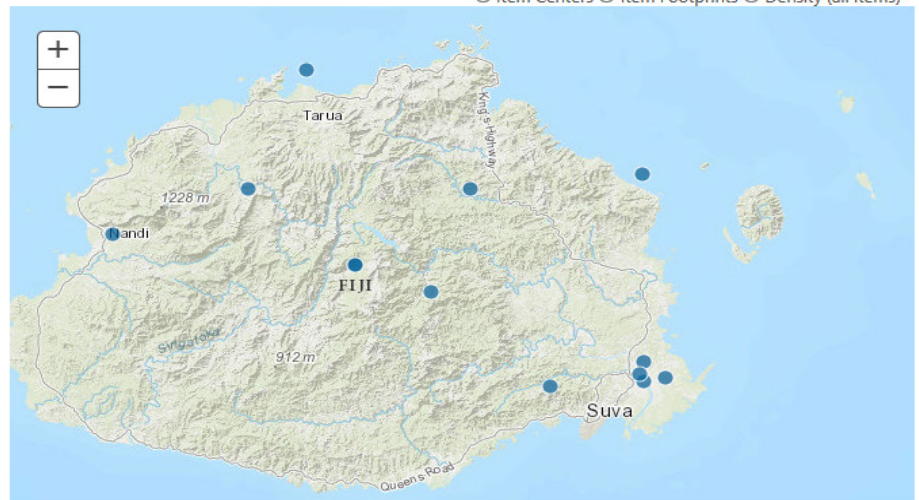
Content Details



Filters: **None**

Item Name	Type	Member	Access
Non_Agricultural_360 Download.docx	Microsoft Word	rsingh1	Organizati...
Q2021	Web Map	buwawa	Public
leasemaster 2021	Web Map	rsingh1	Organizati...
leasemaster	Map Service	rsingh1	Organizati...
QelemaroiView21	Web Mapping Ap...	shussein2	Public
QelemaroroiViewWebmap21	Web Map	shussein2	Public
QeleMaroroiview	Map Service	shussein2	Public

Item Centers Item Footprints Density (all items)



Trending Content

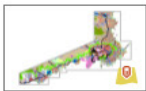
4/10/2021 - 4/24/2021



leasemaster 2021
Views: 818



QelemaroroiViewWebmap...
Views: 318



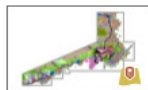
GS_PROPOSAL
Views: 290



Leasemaster01_21
Views: 151

Most Popular Content

7/8/2014 - 4/23/2021



GS_PROPOSAL
Views: 305,325



Leasemaster
Views: 64,799



QeleMaroroiview
Views: 44,601



Leasemaster
Views: 42,940

Total Content

4,365
Items Stored