

What projects involving data/information-sharing have you previously done?

Nighthawk mapping monitoring program

Marine Conservation Assessment
<https://howesoundconservation.ca/mapapp/>,
Marine Reference Guide
<https://howesoundguide.ca/> Woodland caribou story map
<https://davidsuzuki.maps.arcgis.com/apps/C>

Skeena Cumulative Effects Mapping

Coarse-scale data for PSE (from Province) supplementing with local knowledge

Forage fish monitoring network

<https://climateadapt.famaps.ca/>

Rivershed Society of BC - Fraser Watershed Initiative, community mapping project - community restoration and protection priorities.

How have you shared information/data previously? (methods)

Citizen science programs - iNaturalist, etc.

Nature Counts

Miradi Share

SeaSketch
<http://www.seasketch.org/home.html>

GIS StoryMaps

Strait of Georgia Data Centre (SGDC)
<http://sogdatacentre.ca/>

eBird (app)

iNaturalist

Google docs, FTP sites, ArcGIS Online, zip/email

What are the gaps in mapping?

Small scale wetland data missing

Habitat quality would also be useful for the Fraser, as this varies widely from very poor to pretty decent

Total lack of data (DFO not doing it)

Fine scale bird data missing for non-waterfowl species

Collaboration across governments and jurisdictions. In particular local government data and the intersection in the region.

baseline info that might become outdated - and difficult to use for modelling, etc

Mapping of non-point pollution sources missing.

Current maps show that we have how wide gaps in the actual data we have about salmon

Lifespan in long-term databases. Value in surveys doesn't show up until later

Up to date threats maps needed.

Biofilm data in the mudflats not well mapped.

A lot of data available -not always reflecting local scale with accuracy

Interaction with Metro Vancouver might be needed

An easily accessible pre-contact baseline habitat map would be helpful.

Intersection with local government--data housed with local government but how do we access it?

Rainfall/precipitation is hard to read/use

No fine scale bathymetry publicly available

Land cover data not fine scale. Be great if BC could develop similar product to Alberta ABMI annual surveys
<https://www.abmi.ca/home/data-analytics/da-top/da-product-overview/Human-Footprint-Products.html>

Habitat association is needed

Climate data might be challenging for this area - temperature and precipitation is hard to work with

Scaling for different levels of government decision making. Municipal, First Nations, Provincial and Federal.

Gaps in the way DFO has collected data. Maybe they didnt have funding for a while so they stopped collecting, or they changed their method part way through.

Mapped habitat & mapped restoration projects need to include area measurement to track % of total remaining, lost, restored, etc for prioritization moving forward

Climate Data

Climate projections (habitat squeeze vs expansion, vulnerability of particular habitat types)

Existing layers within this group NEED TO BE MADE ACCESSIBLE to all in this group for future uses

Common challenges?

Mapping ecosystem processes such as environmental flows

Coverage of data

Ongoing battle of pushing for data coverage

There is a lot of data available, but not necessarily on a local scale/on the ground

A lot of people have recognized redundancy in projects--no solutions

Access to data (Provincial/Federal level)

Data is out of date.

If we can get people to care about data and data collection/see the usefulness of it --we can incentivize

Lack of institutional memory/turn-over / settler migration

Exposure to online products like story maps. Hard to match the numbers of Facebook and Twitter leading to managers not wanting to spend too much time on spatial support tools aimed at specialist audience.

Climate data/models relevant to the region is not available

Lack of data at different levels of government

How broadly do you want data to be available, and how do you account with compensation for collecting that data?

Lack of funding to keep up data-bases

Potential solutions?

Lower Fraser Indigenous Guardians - Climate Change Monitoring Fund

Area based notification system so partners are notified when data for a priority area is being accessed.

Clean base layers for those with limited GIS skills/time to use in storytelling shared amongst this group.

Citizen Science?

HabiStat

Website that has shows the projects, what data you are looking for etc. to facilitate the collaboration --can bring in Masters students etc. Connecting volunteers to gather data -Millie and Jacq from WildResearch

ArcGIS Online web maps & apps generally use publicly available data and allow others to search and add layers to their own web maps

Collaboration early on - i.e. multiple organizations host project vs just share data; then can achieve multiple objectives simultaneously

Guardians

A backbone org housing and organizing data

Coordinated system for synthesizing data among all the groups --demonstrate value to inform decision-- which will encourage people to keep recording it- Lia Chalifour

Salish Sea Marine Survival Project is a good example of a group who had funding to bring data and projects together --created the Strait of Georgia data centre

How do we better coordinate data-sharing?

Environmental OSM
https://wiki.openstreetmap.org/wiki/Environmental_OSM#:~:text=Environmental%20OSM%20is%20a%20project,helping%20to%20solve%20environmental%20problems.

Create Fraser Estuary
Miradi Share Project
<https://www.miradi-share.org/ux/home>

CMNBC has fine scale data on state of channels connecting to the Fraser - can be used for baseline of what is there and also to perform prioritization studies for restoration and protection sites. Centralization?

Centralization
--inventory

BCIT
house
database?

Ideal platform? One of the partner websites? Github? Dropbox? Layers need to be shared for maximum utility

Provide some set of shared indicators. For instance Puget Sound Ecosystem Monitoring Program or Metro Vancouver Regional Growth Strategy. Keep it local so it speaks to local priorities.

Collaborate earlier in the process---create a culture of collaboration among our community

Create a platform/space for researchers to connect and exchange feedback with citizen science groups

Put together "packaged" datasets along with tutorials. See for instance R package for Motus Data
<https://beta.motus.org/MotusRBook/>

Develop a group data sharing agreement so we can share project data amongst network.

Get funding to host training sessions in open source GIS platforms and how to work with community datasets.

Will help if spatial warehouses like DataBC and DFO can organize data searches for regions like Lower Fraser, list available data

Develop a shared "project" and "permit" notification system so we all get an alert when a municipal, provincial or federal permit is applied for in the lower Fraser.

Get funding to produce un-branded maps we can use in respective communications

What topics would you like to see covered in future meetings?



Priorities? Objectives and goals?



