Place names – Origin

Canada: Kanata = 'village'

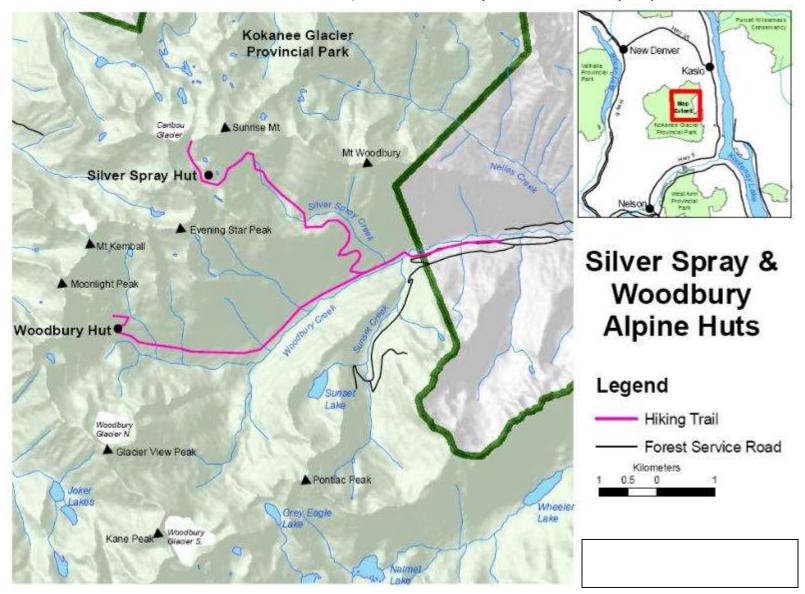
Not from Spanish 'Aca nada' ... "nothing here"

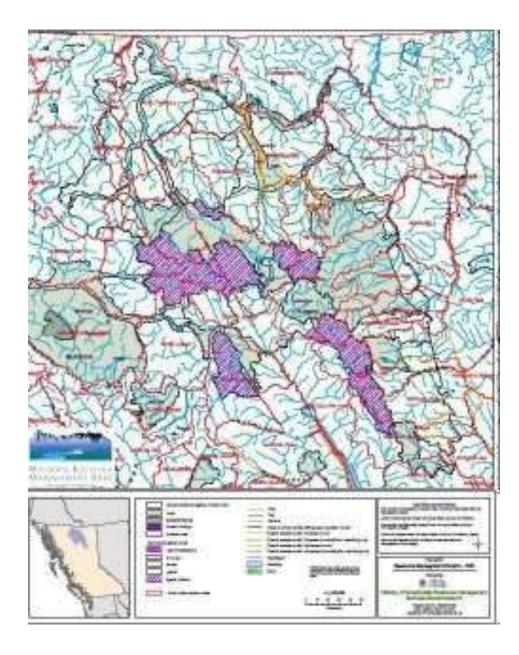
Nunavut: Our Land

America: Amerigo Vespucci (early explorer/navigator) ... or was it

Richard Amerike – Anglo-Welsh merchant?

Subordinate' = Information required to explain the display contents





http://www.muskwa-kechika.com/resources/map6.asp



inadequate ancillary information

1. Title: often/usually at the top

Geographic area

map purpose / content:
(if not general)
and date (if variable)

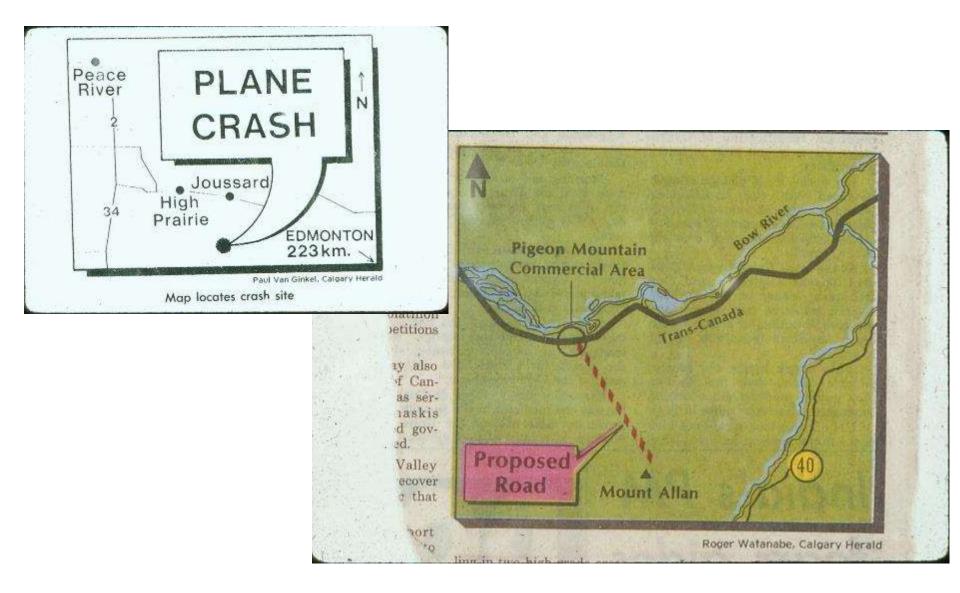
No need for the word 'map'



Usually required - it may be a caption in journal/magazine/newspaper articles

http://www.wwu.edu/huxley/spatial/tut/what_all_maps_must_have.htm

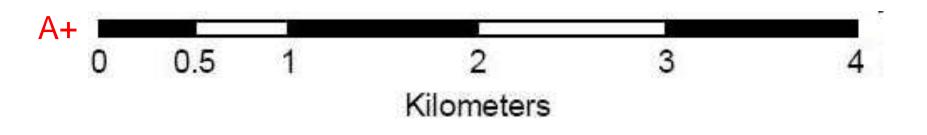
2. Scale is required – it explains the amount of reduction No scale – it's a diagram, not a map



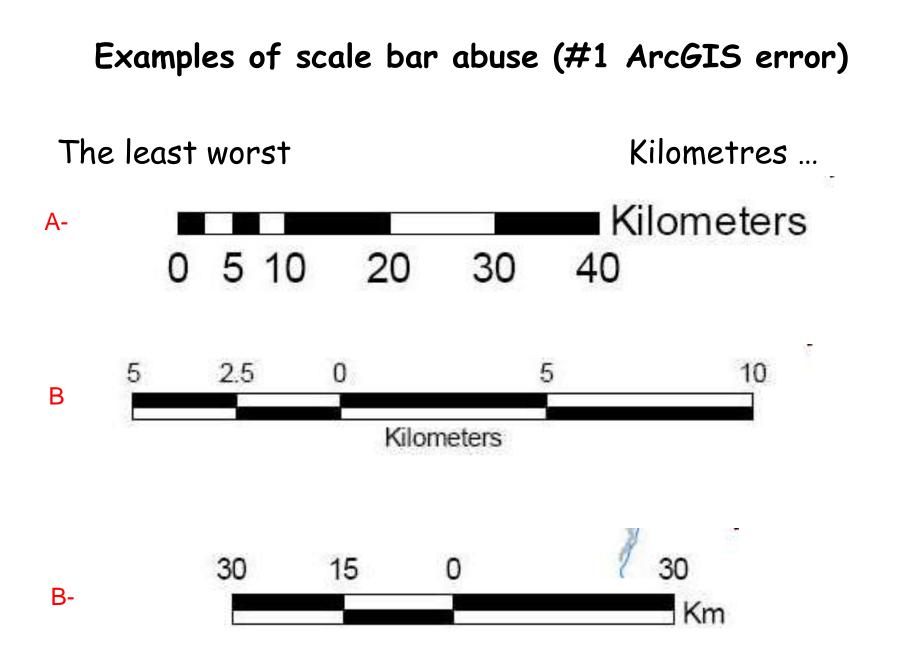
Scale

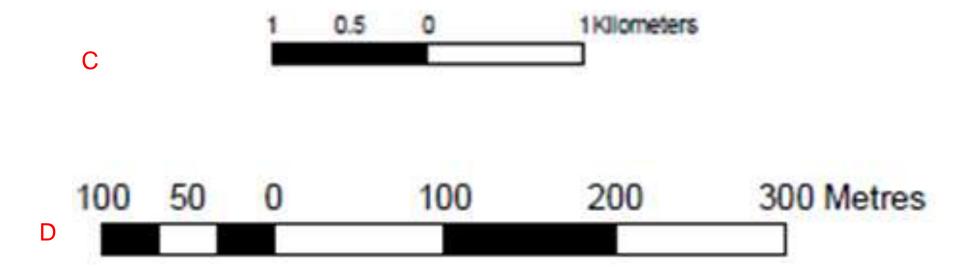
>Scale <u>must</u> be given on the map / display

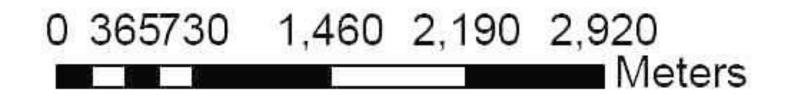
- >it is usually placed near the bottom of the map
- > Verbal statement, ratio or graphic bar (best for output)



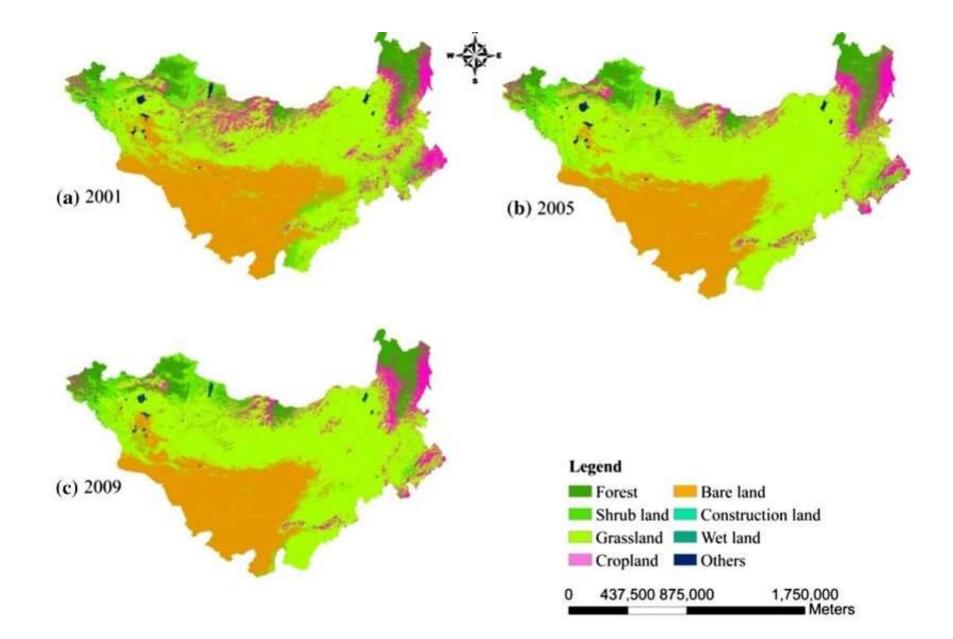
- >Use round numbers
- >Subdivide as appropriate
- >Use appropriate units e.g. 1km not 1000m





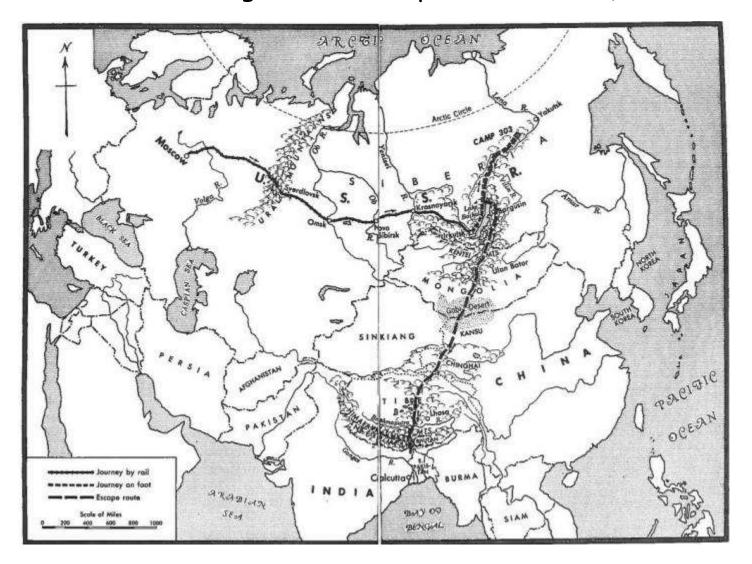


F



3. Direction

A North arrow is <u>optional</u> if it is clear that (true) North is to the top If North is <u>not</u> to the top, a North arrow is required A North arrow is wrong for some maps (another ArcMap error)

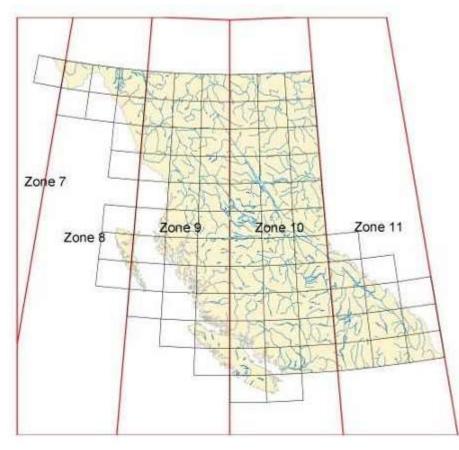


4. Direction

A North arrow is **optional** if it is clear that (true) North is to the top

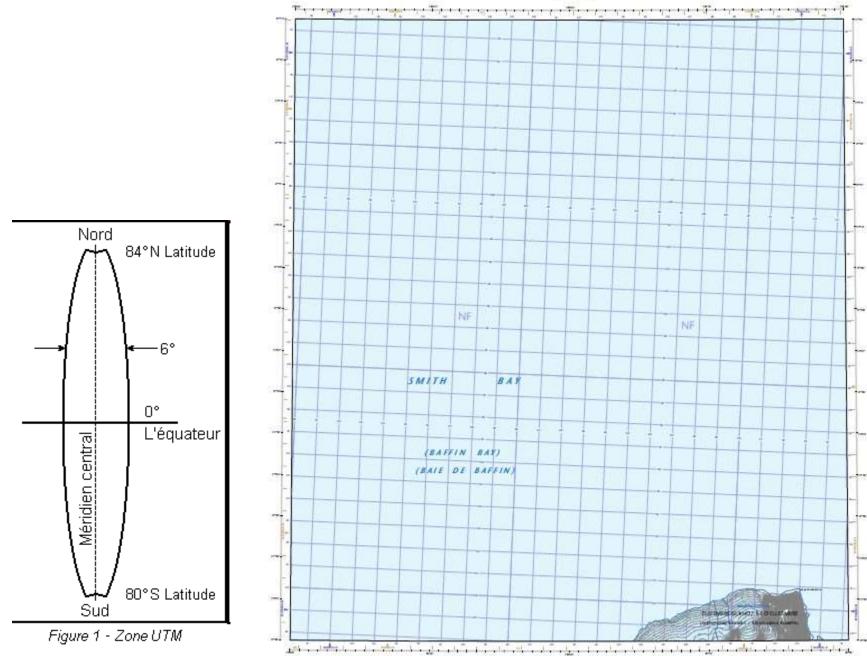
If North is not to the top, a North arrow is a **MUST**

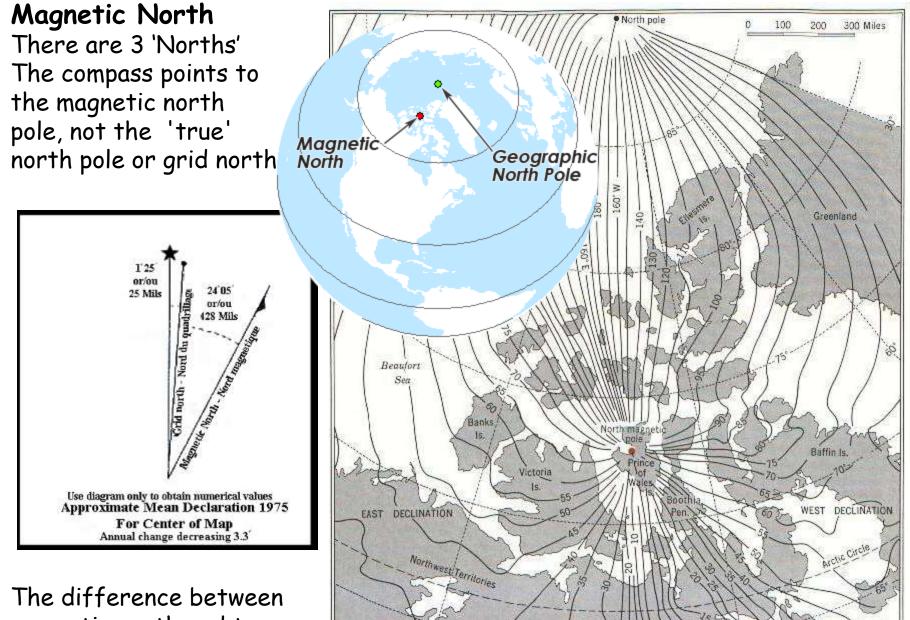
A North arrow is wrong for some maps (ArcGIS error #2)



True north and Grid north







magnetic north and true north is the **declination**

This map shows lines of equal declination (isogones)



Sources: Thebault et al. Earth, Planets and Space, National Centers for Environmental Information

4. Border – neatline also for legend – see next one



Symbols should be in the legend <u>unless</u> explained by lettering e.g. lakes

Symbols must appear in legend <u>exactly</u> as on map, same size etc..

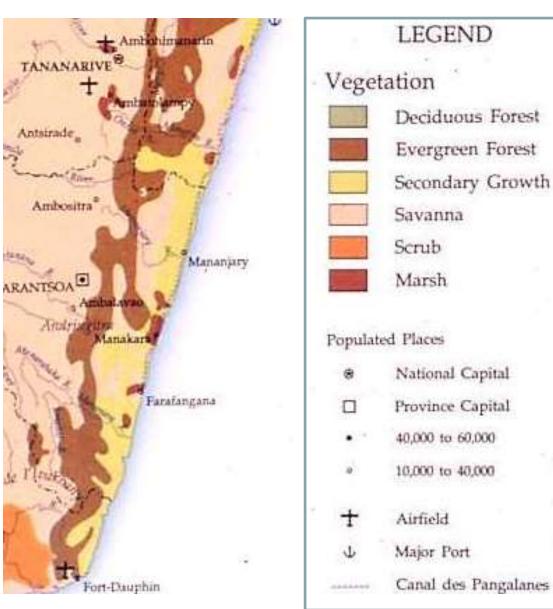
Symbols on the left, labels on the right

>Boxes for area symbols

>Optional box for legend

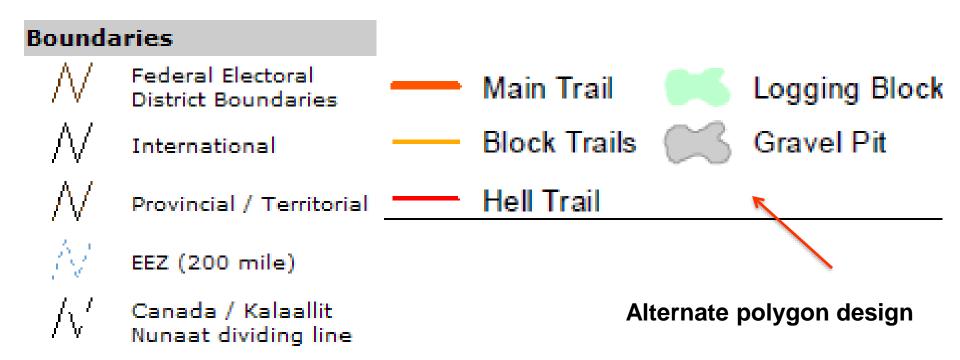
➤Capitalise the first letter

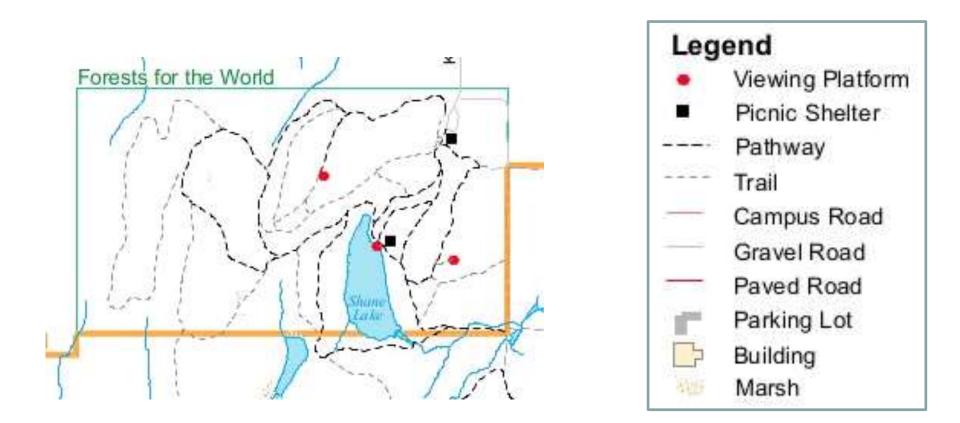
5. Legend



No 'ziggie-zaggies' ... (early versions of ArcGIS/ArcView)

Line symbols should be a straight or gently curved section





Do not take software defaults which includes all layers

... no need to include the obvious e.g. lakes

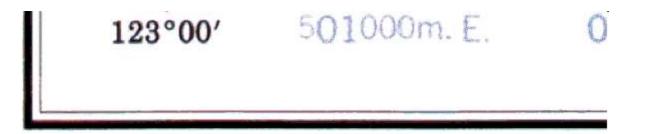
Legends

https://pro.arcgis.com/en/pro-app/latest/help/layouts/add-a-legend.htm

6. Data source

A set of statements usually at the bottom in small text explains how the data were derived, and when

Not required for common base data e.g. coastlines



Produced by the SURVEYS AND MAPPING BRANCH, DEPARTMENT OF ENERGY, MINES AND RESOURCES, from aerial photographs taken in 1980. Culture check 1982. Published in 1985. e.g. 2020 version: Roads updated 2019

Data source: GIS / digital mapping: 'Metadata'

Metadata = 'data about data' - how, when, where etc.. (often stored in a text file)

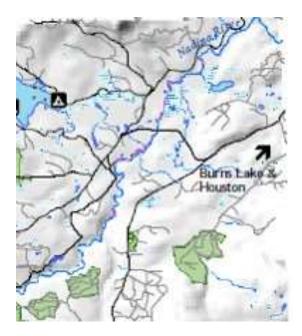
⊾ 😂 📾 🖻 📽 🗙	Language Contraction of Contractiono	adata	N?] Q Q <i>(</i> ?) (
unbc_shp	Description	Spatial	Attributes
 contours10 contours5 lakes lookouts map_bndy roads unbc_endowment unbc_reserve workshop avalanche pass 	Horizontal coordinate system Projected coordinate system name: NAD_1983_UTM_Zone_10N Geographic coordinate system name: GCS_North_American_1983 Details		

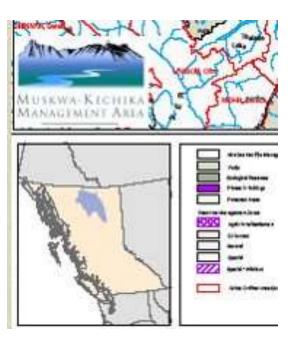
7. Location

a. Direction / distance indicators (e.g. x kms to Edmonton)

b. Locator maps, including scale of locator /inset

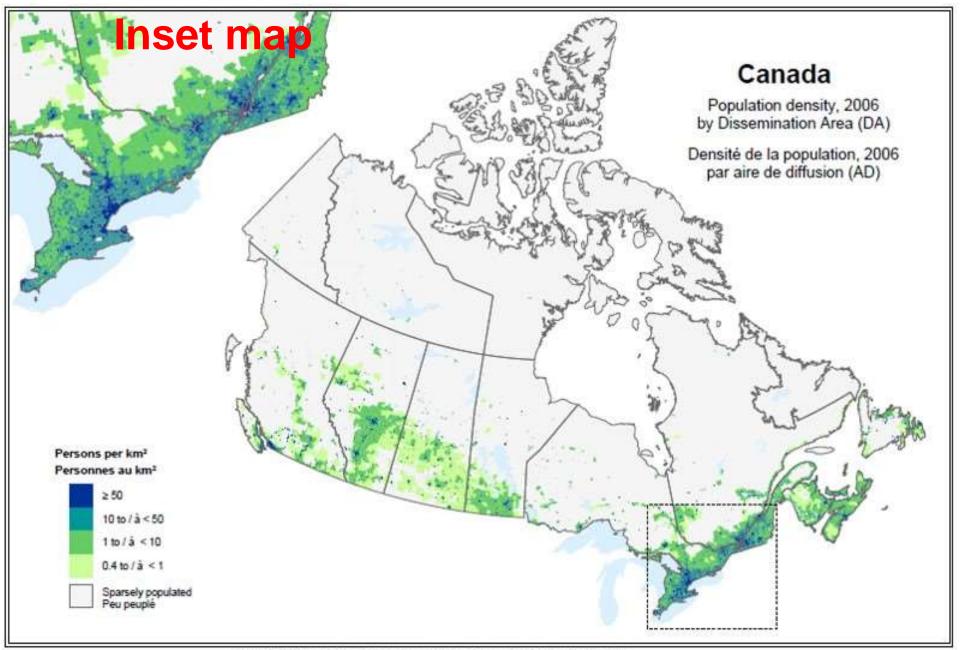
c. Grids showing latitude and longitude (or UTM)



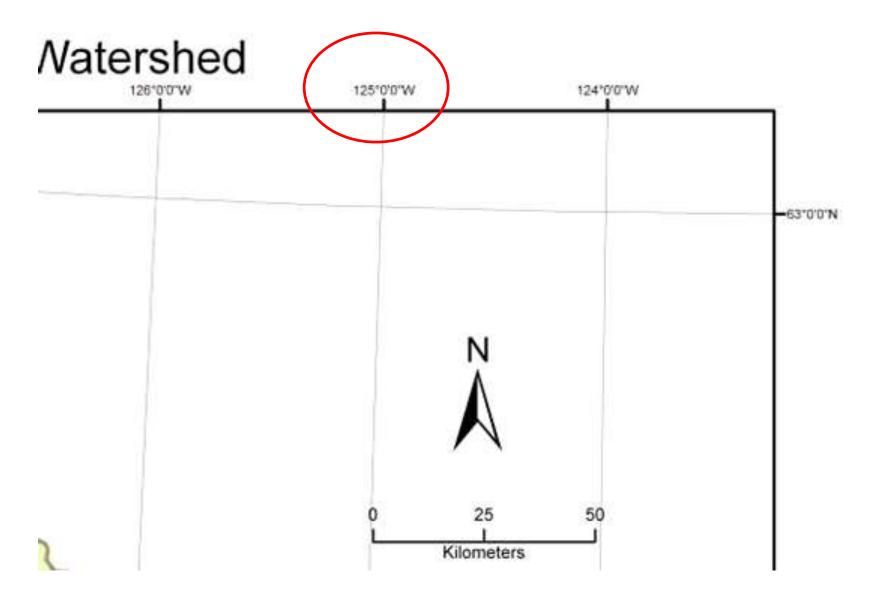




Locator map



Grid labels: common ArcGIS error #3 software default: silly graticule precision



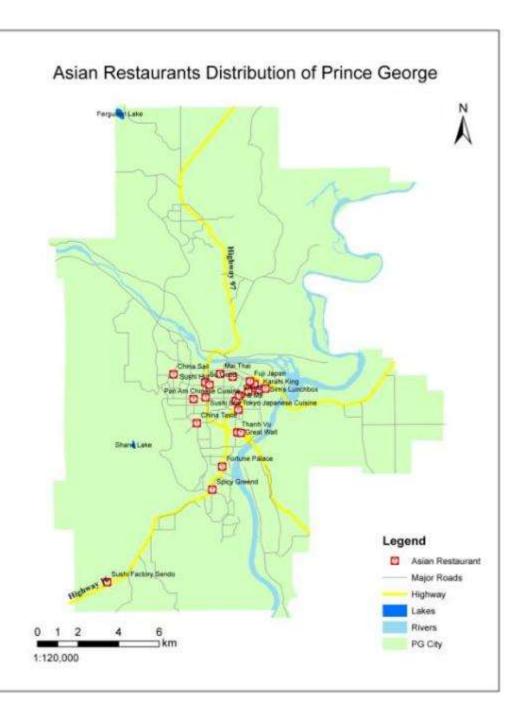
8. Overall Layout

Optional) 'neatline' around the map as a whole and/or the legend

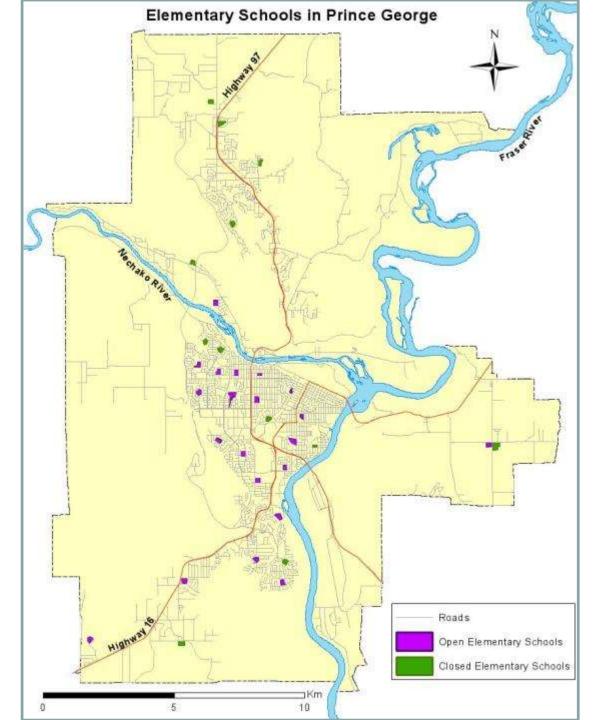
Use space wisely –don't waste white space

Maximise map content space – use white area for ancillary info

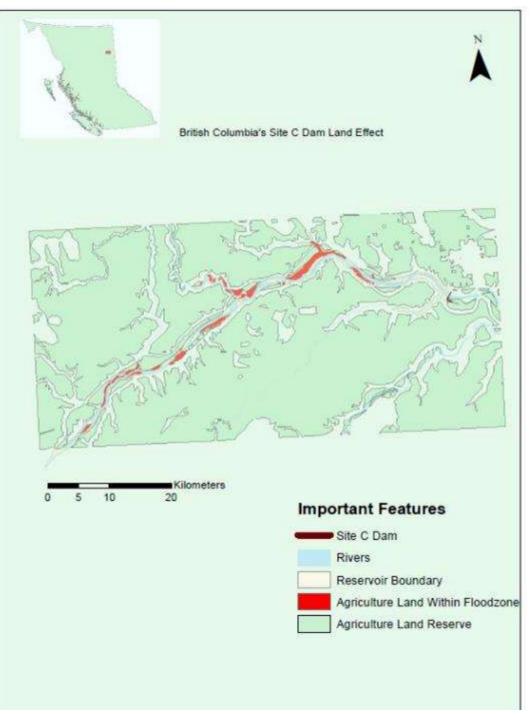
This map could be bigger







This cou hardly be worse ...



Ancillary map content summary: visual position and prominance

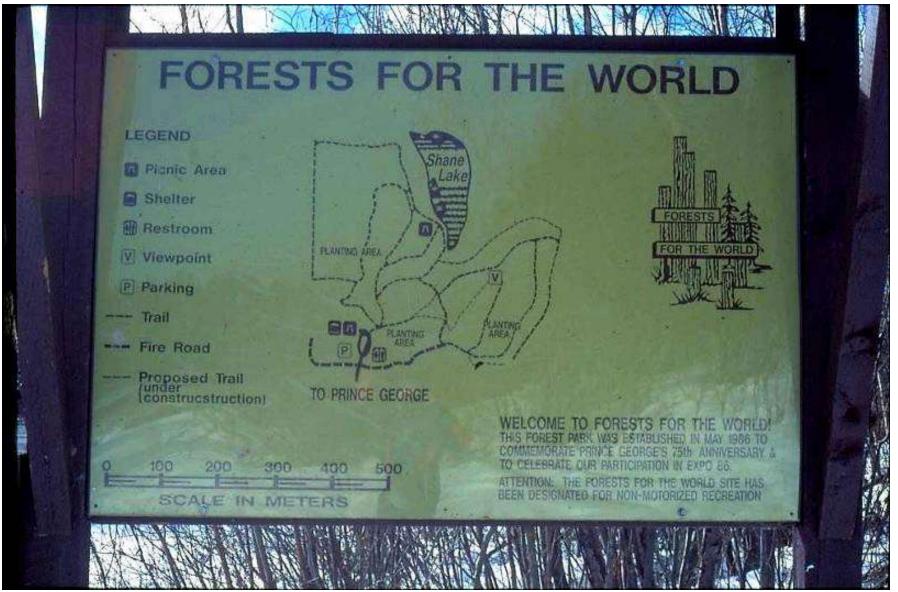
	Item	Best Position	
TITLE	what?	Prominent, near top	
SCALE	how big?	Near bottom	
LEGEND	what (details)?	On side, may be boxed	
DIRECTION	which way is up?	Side	
LOCATION	where?	Side ticks, or insert	
SOURCE	where from?	Very bottom, inconspicuous	
LAYOUT	Shape and space	Visual Balance, Neatline etc	

Good summary for ancillary map information: <u>http://www.wwu.edu/huxley/spatial/tut/what_all_maps_must_have.htm</u>

Summary of main ancillary info errors

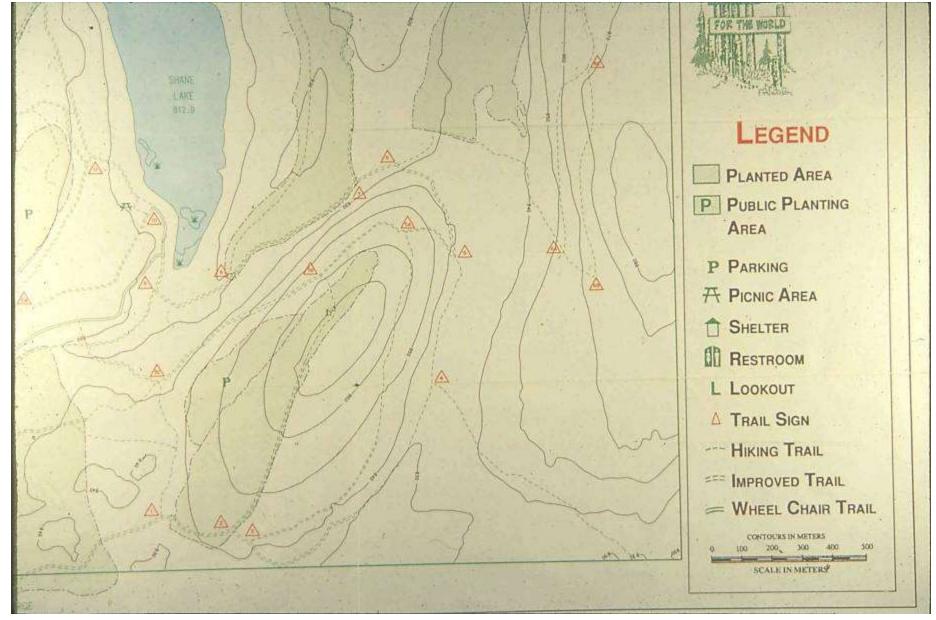
- Too much white space, maximise map content
- Fit ancillary in the spaces, extra panel only if needed
- Scale Bar avoid silly subdivisions and numbers
- Coordinate ticks remove false precision
- Legend remove unneeded layers from legend
- Ancillary information too prominent, should be smaller

Design and ancillary information - local example Forests for the World 1986-95



Scale bar size, north to the bottom

1993-96



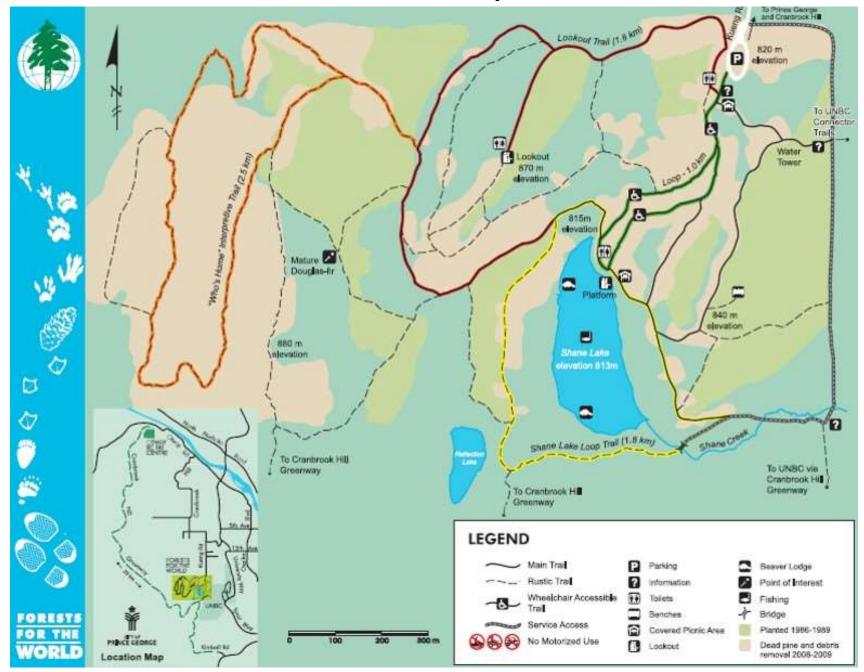
Scale bar size incorrect, north to the bottom, P and P

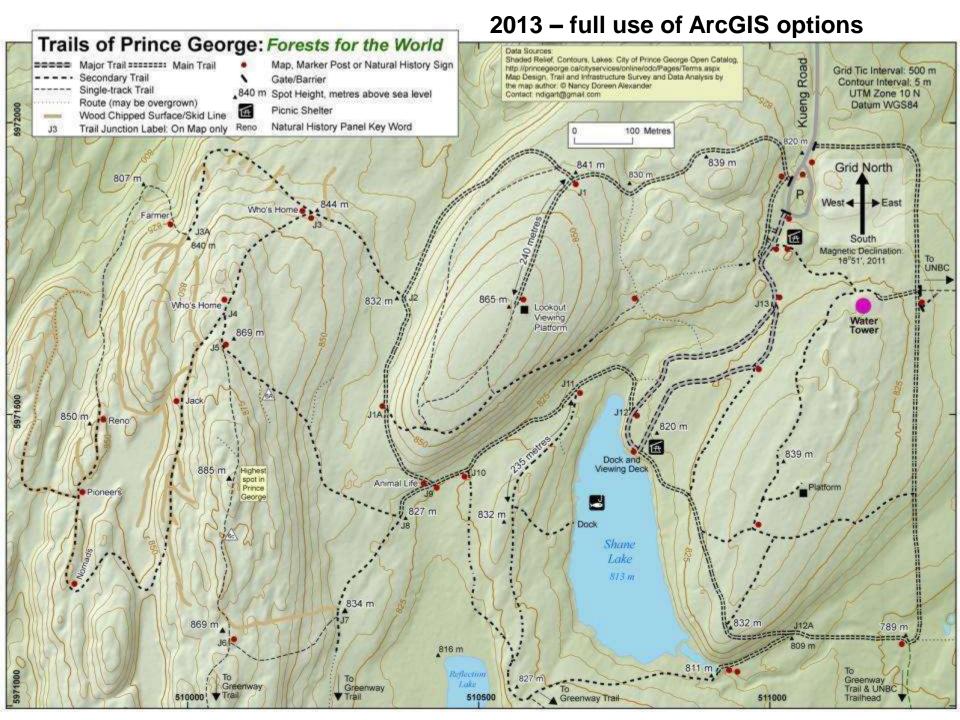
1997-



Redesigned by UNBC GEOG205 student, fall 1994

2010 – includes mountain pine beetle blocks





Map page layout

Rectangle ~3 x 2 preferred over a square

Landscape v portrait orientation

> Letter v tabloid v poster (if printed)

Don't use this shape What were they thinking ?

Routes At This Station





http://www.cbc.ca/newsblogs/yourcommunity/2015/02/penis-shaped-toronto-bus-station-map-removed-by-transit-officials-after-going-viral.html ... Removed by CBC / transit but still out there on the internet