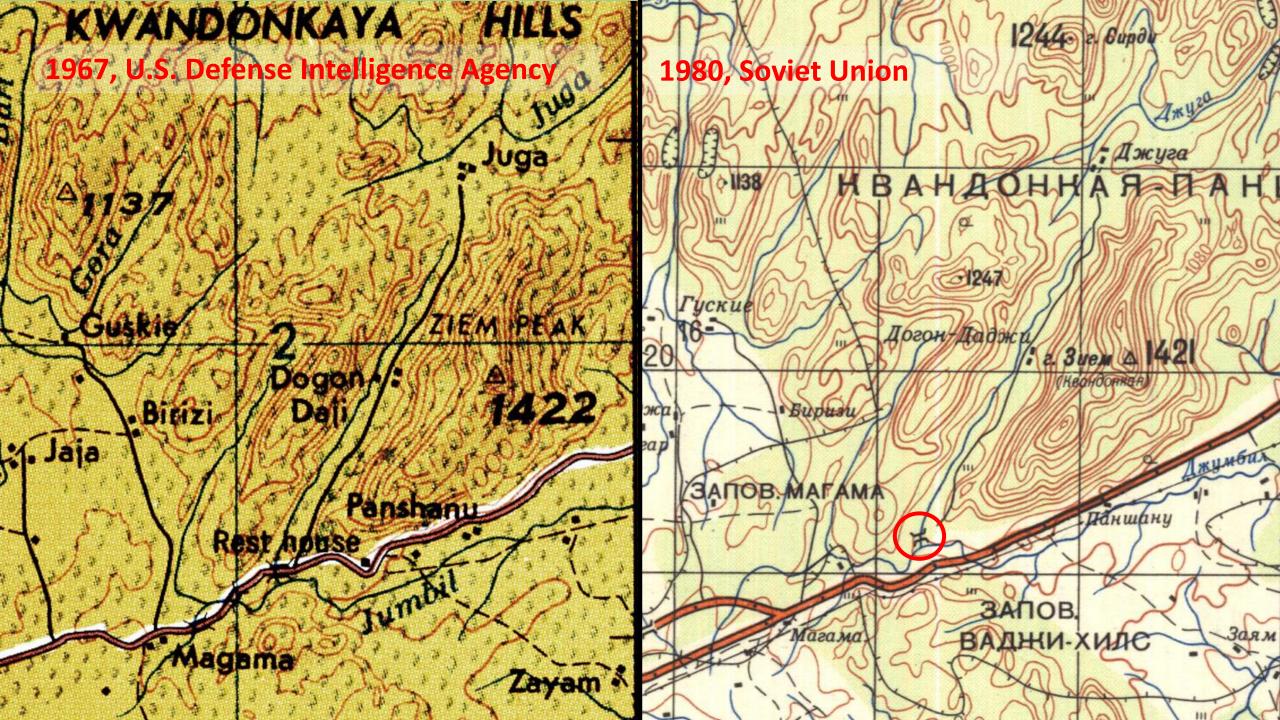
Cast a Fishnet

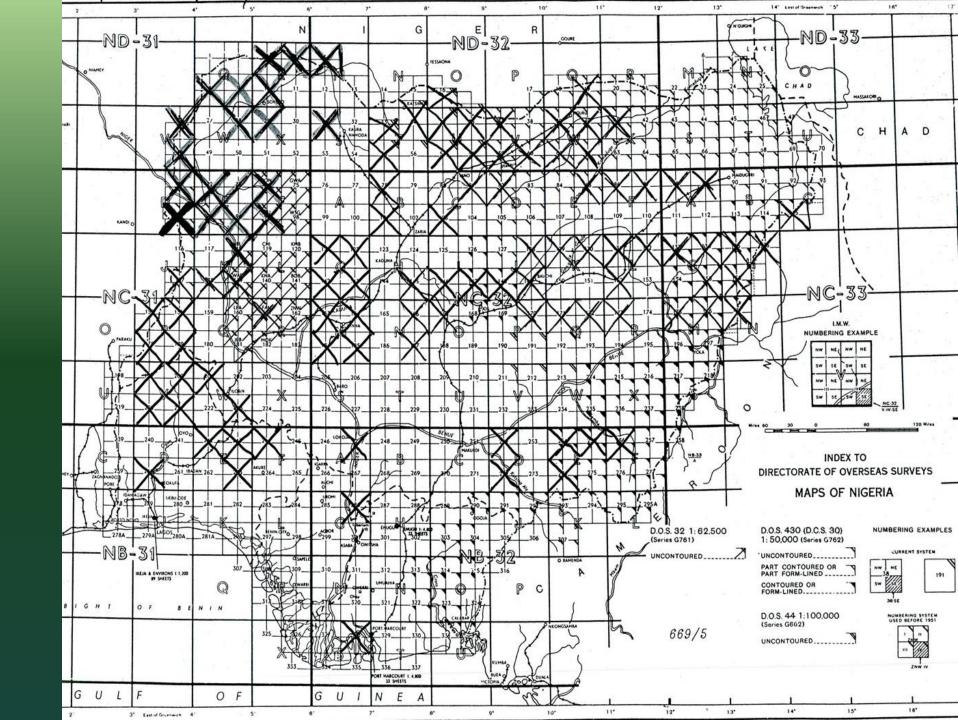
And You Will Find What You Seek

Kathleen W. Weessies and Kasey R. Wilson Michigan State University, USA

	I10	J10	K10	L10	M10	N10	010	P10	Q10	R10
)	19	J9	К9	L9	М9	N9	09	P 9	Q9	R9
	18	J8	К8	L8	М8	N8	08	Р8	Q8	R8
T	17	37	К7	L7	М7	N7	07	P7	Q7	R7
	16	J 6	К6	L6	М6	N6	06	P6	Q6	R6
	15	J 5	К5	L5	М5	N5	05	P5	Q5	R5
		34	К4	L4	М4	N4	04	P4	Q4	R4
		J3	КЗ	L3	МЗ	N3	03	Р3	Q3	R3
			K2		M2	N2	02	P2	Q2	



Libraries mark their sheet holdings on an index map (if an index map exists!)



Solution #1: Including a list of sheets owned in the catalog record



MAP

Africa 1:125,000 Nigeria

Nigeria. Survey Department.

1912

Map Room Flat Collection (Floor 1)

LOCATION AND ITEM INFORMATION

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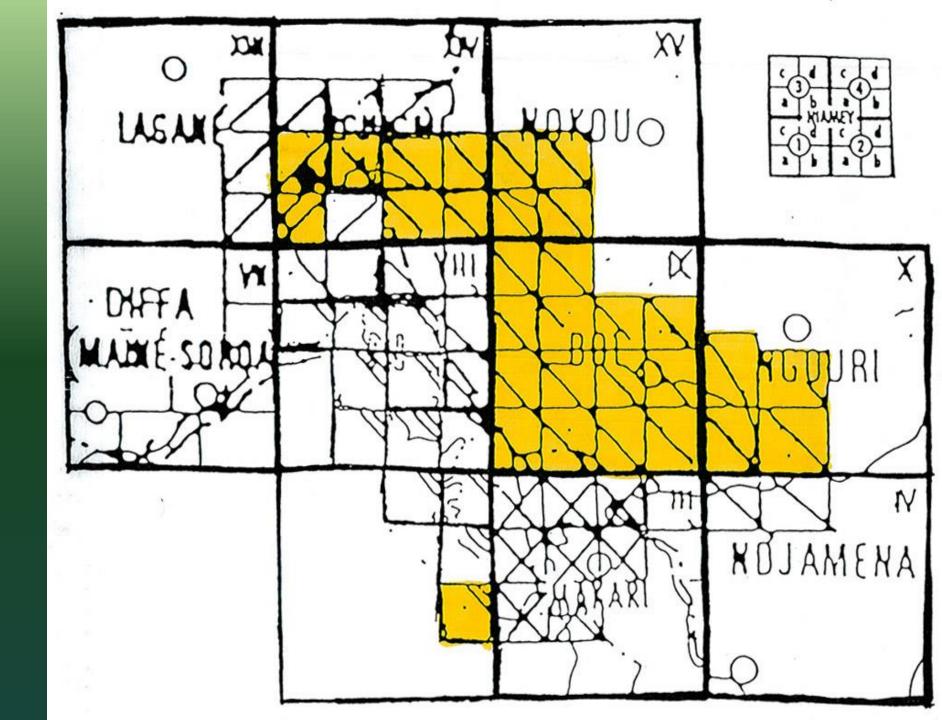
Arthur Lakes Library

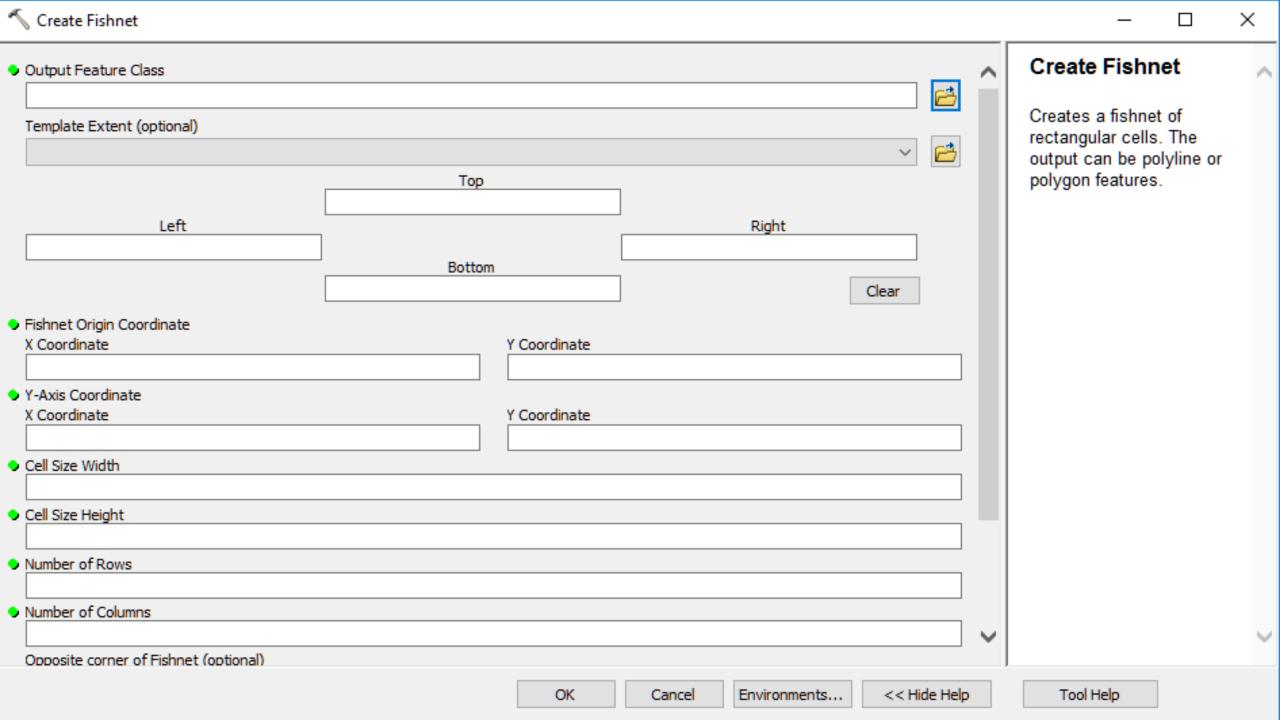
Available, Map Room Flat Collection (Floor 1) G8840 s125.N5

Summary holdings: Sh.NB-31-C-II... Expand

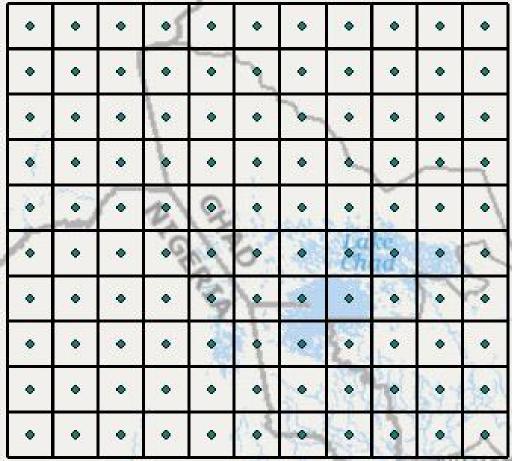
Item in place (0 requests) Loanable	Sh.NB-31-C-II
Item in place (0 requests) Loanable	Sh.NB-31-C-IV
Item in place (0 requests) Loanable	Sh.NB-31-D-I
Item in place (0 requests)	Sh.NB-31-D-II

Solution #2: Catalog record links to a jpg of the index diagram (if one exists!)





ArcGIS 10.0 + t use the fishnet app to create a model of the map set



OV Diamena

Maiduguri

Edit around the edges to make quadrangles match the set. This creates a very simple table with rectangles numbered from bottom to top

Table







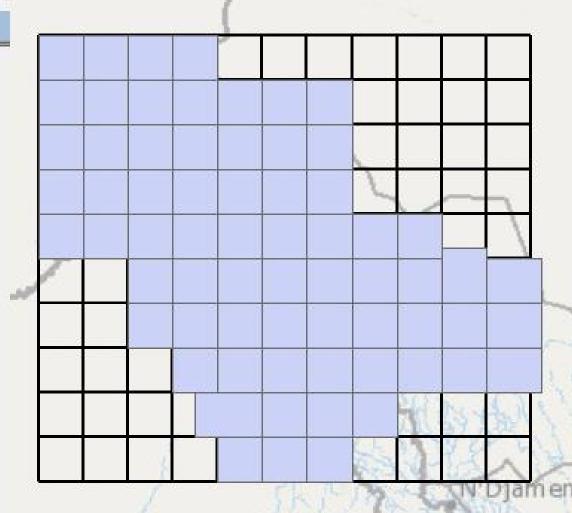






fishnet3

	FID	Shape *	ld
7	0	Polyline	0
	1	Polyline	0
П	2	Polyline	0
П	3	Polyline	0
	4	Polyline	0
	5	Polyline	0
	6	Polyline	0
	7	Polyline	0
П	8	Polyline	0
П	9	Polyline	0
П	10	Polyline	0
П	11	Polyline	0
	12	Polyline	0
٦	13	Polyline	0
П	14	Polyline	0
	15	Polyline	0
П	16	Polyline	0
П	17	Polyline	0
	18	Polyline	0
	19	Polyline	0
	20	Polyline	0
	21	Polyline	0
	22	Polyline	0



laiduguri



Student employees build in attribute data using Excel

Table



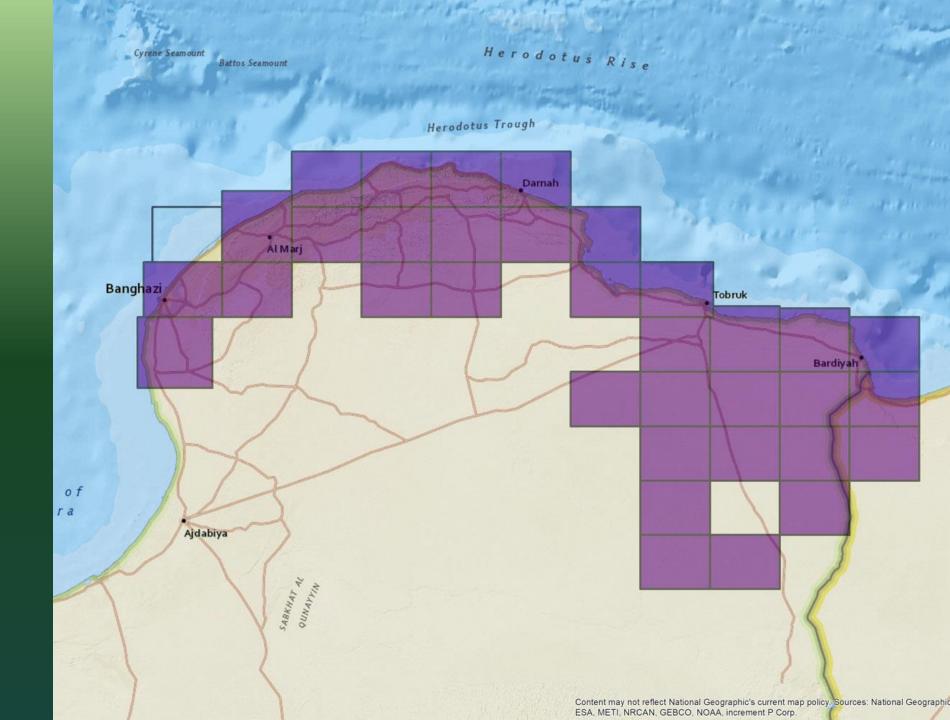
Lake_Chad_Region_50k

	FID	Shape *	OBJECTID	Sheet_no	Sheet_name	X1	X2	Y1	Y2
F	0	Polygon	0	ND-33-II-2d	MARTE NE	13.7	14	12.5	12.2
	1	Polygon	1	ND-33-IX-1a	-	14	14.2	13.2	13
	2	Polygon	2	ND-33-IX-1b	-	14.2	14.5	13.2	13
	3	Polygon	3	ND-33-IX-2a	-	14.5	14.7	13.2	13
	4	Polygon	4	ND-33-IX-2b	1	14.7	15	13.2	13
	5	Polygon	5	ND-33-X-1a	BOMBOM	15	15.2	13.2	13
	6	Polygon	6	ND-33-X-1b	KOULOUDIA	15.2	15.5	13.2	13
	7	Polygon	7	ND-33-IX-1c	- 10	14	14.2	13.5	13.2
	8	Polygon	8	ND-33-IX-1d	KOULTIME	14.2	14.5	13.5	13.2
	9	Polygon	9	ND-33-IX-2c	BOL	14.5	14.7	13.5	13.2
	10	Polygon	10	ND-33-IX-2d	NJAR YAKOU	14.7	15	13.5	13.2
	11	Polygon	11	ND-33-X-1c	ISEIROM	15	15.2	13.5	13.2
	12	Polygon	12	ND-33-X-1d	BOLOSIDI	15.2	15.5	13.5	13.2
	13	Polygon	0	ND-33-IX-3a	- P	0	0	0	0
	14	Polygon	14	ND-33-IX-3b	BAGA SOLA	14	14.2	13.7	13.5
	15	Polygon	15	ND-33-IX-4a	NGOLIO	14.2	14.5	13.7	13.5
	16	Polygon	16	ND-33-IX-4b	NGARANGOU	14.5	14.7	13.7	13.5
	17	Polygon	17	ND-33-IX-3C	KISKRA	14.7	15	13.7	13.5
	18	Polygon	18	ND-33-IX-3d	LIWA	14	14.2	14	13.7
	19	Polygon	19	ND-33-XV-1d	RIG-RIG	14.2	14.5	14	13.7
	20	Polygon	20	ND-33-XIV-1a	DJIBOULOUA	14.2	14.5	14.5	14.2
	21	Polygon	21	ND-33-XIV-2a	-	12.9	13.2	14.2	14
	22	Polygon	22	ND-33-XIV-2b	KISKAWA	13.5	13.7	14.2	14
	23	Polygon	23	ND-33-XV-1a	GOUM	13.7	14	14.2	14
	24	Polygon	24	ND-33-XV-1b	GIM	14	14.2	14.2	14
	25	Polygon	25	ND-33-XIV-1c	N'GUIGMI	14.2	14.5	14.2	14
	26	Polygon	26	ND-33-XIV-1d	BELABERIN	13	13.2	14.5	14.2
	0.00	Dationa	27	ND 22 VA (2-	DIOUGOUM	42.2	2010/2007	44.5	442

One possible output is a static jpg that clearly shows holdings.



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Interactive Map

Tables linking to sheets

Contact Information

Map Library
Main Library Building
Michigan State University
366 W. Circle Drive, Room 308W
East Lansing, MI 48824
Phone: (517) 884-6467

Title: Nigeria 1:50,000 Originator: Federal Surveys,

Nigeria

Publication Place: [Lagos]

Publisher: Federal Surveys, Nigeria

Beginning Date: 1959?-

Ending Date: Extent: 273 sheets

Color: color Scale: 1:50,000

Projection: Transverse Mercator Format: Available for download in

Bounding Coordinate West: 2.0

TIF and GeoTIF

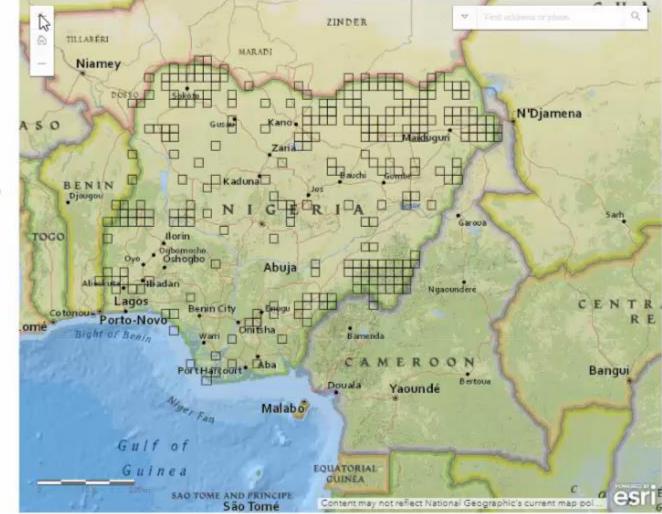
Bounding Coordinate East: 16.0
Bounding Coordinate North: 14.0
Bounding Coordinate South: 2
Notes: The paper maps were
scanned at 400 ppi, 8-bit (256
color). The scans were then georeferenced using a 1st order or
2nd& order polynomial
transformations in Blue Marble
Geographics Transformer.

Nigeria 1.50 000

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Account

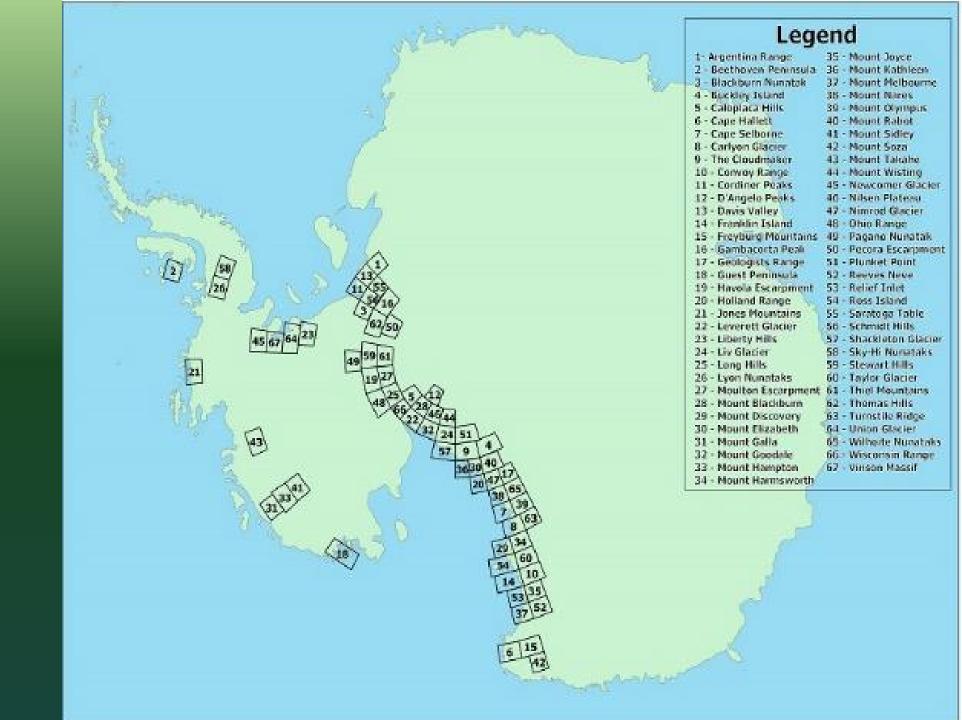


Interactive maps have table-based access to digital content for the mobility impaired – no mouse needed.

Nigeria 1:50,000

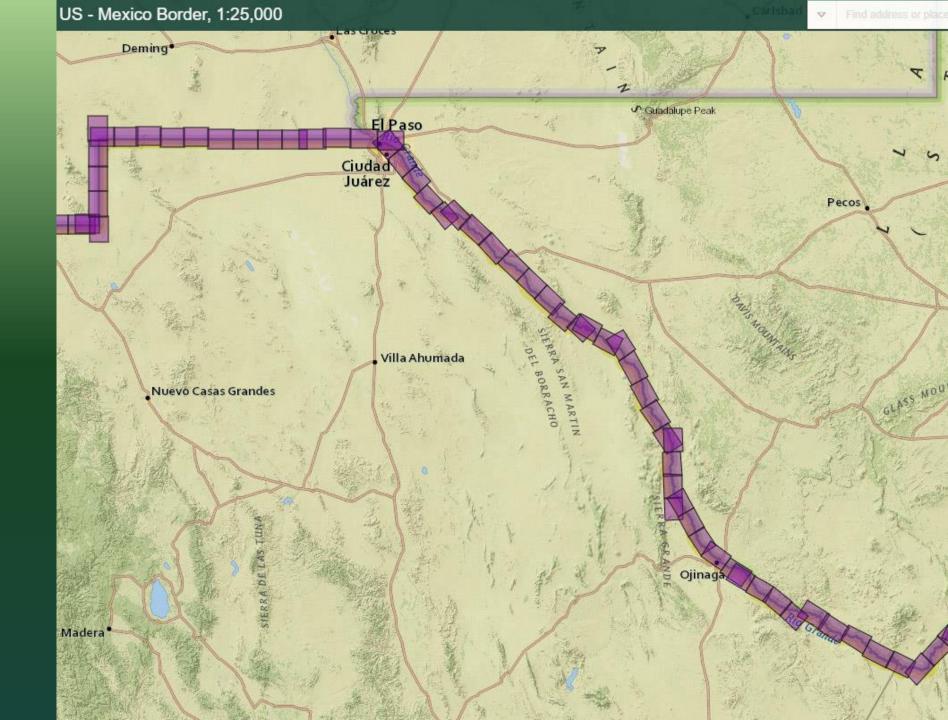
NAME	Min Longitude	Max Longitude	Min Latitude	Max Latitude	Preview	TIFF	ZIP
002_SE_Sokwoi_SE	4.75	5.00	13.50	13.80	JPG	TIFF	ZIP
003_SE_Kalmalo_SE	5.25	5.50	13.50	13.75	JPG	TIFF	ZIP
004_NE_Gada_NE	5.75	6.00	13.75	14.00	JPG	TIFF	ZIP
004_NW_Gada_NW	5.50	5.75	13.75	14.00	JPG	TIFF	ZIP
004_SE_Gada_SE	5.75	6.00	13.50	13.75	JPG	TIFF	ZIP
004_SW_Gada_SW	5.50	5.75	13.50	13.75	JPG	TIFF	ZIP
005_SE_Sabon_Birni_SE	6.25	6.50	13.50	13.75	JPG	TIFF	ZIP
008_NW_Sakwala_NW	4.00	4.25	13.25	13.50	JPG	TIFF	ZIP
009_NE_Binji_NE	4.75	5.00	13.25	13.50	JPG	TIFF	ZIP
009_NW_Binji_NW	4.50	4.75	13.25	13.50	JPG	TIFF	ZIP
009_SW_Binji_SW	4.50	4.75	13.00	13.25	JPG	TIFF	ZIP
010_NE_Sokoto_NE	5.25	5.50	13.25	13.50	JPG	TIFF	ZIP
010_NW_Sokoto_NW	5.00	5.25	13.25	13.50	JPG	TIFF	ZIP
O11_NE_Rabah_NE	5.75	6.00	13.25	13.50	JPG	TIFF	ZIP
O11_NW_Rabah_NW	5.50	5.75	13.25	13.50	JPG	TIFF	ZIP
O12_NE_Isa_NE	6.25	6.50	13.25	13.50	JPG	TIFF	ZIP
012_NW_Isa_NW	6.00	6.25	13.25	13.50	JPG	TIFF	ZIP
O12_SW_Isa_SW	6.00	6.25	13.00	13.25	JPG	TIFF	ZIP
014_SW_Jibiya_SW	7.00	7.25	13.00	13.25	JPG	TIFF	ZIP
016A_SW_Daura_SW	8.50	8.75	13.00	13.25	JPG	TIFF	ZIP
018_NW_Machina_NW	10.00	10.25	13.25	13.50	JPG	TIFF	ZIP
018_SW_Machina_SW	10.00	10.25	13.00	13.25	JPG	TIFF	ZIP
019_NW_Kumagunnam_NW	10.50	10.75	13.25	13.50	JPG	TIFF	ZIP

Complication #1 --- no polar projections!



Complication #2: sets not suited for fishnets

Thank you Kasey Wilson and Max Sanders!



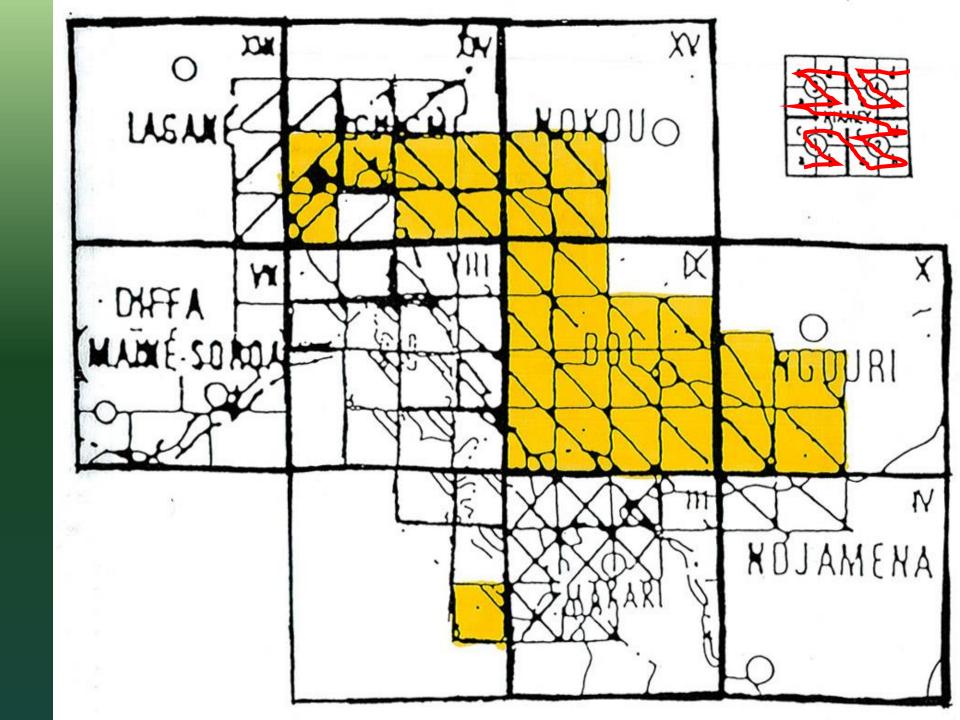
Puzzle #1: Can we automate the numbering of map sheets?

JS_MexicoBord	er_Zok	×
Sheet_No	Sheet_Name	^
95	Esparanza	
96	Quitman Arroyo	
97	The Little Big Bend	
98	Indian Hot Springs	
99	Quitman Mountains	
100	Red Light Draw	
101	Bramlett Ranch	
102	Green River	
103	Bennett Ranch	
104	Pilares	
105	Arroyo San Carlos	
106	San Antonio Del Bravo	
107	Candelaria North	
108	Candelaria	
109	Barrancos De Guadalupe	
110	Vado De Piedra	
111	Las Conchas	
112	Adobes	
113	Ochoa	
114	Presidio Port of Entry	
115	Presidio East	
116	Mulato Dam	_
117	Redford	
120	Lajtas	
119	Santana Mesa	
118	Rancherias Canyon	_
121	Mesa de Anguila	
122	Castolon	
123	Smoky Creek	
124		
125	Reed Camp	
	Mariscal Mountain	_
126	Solis	
127	Ernst Valley	
128	Boquillas	
129	Sierra Del Caballo Muerto	
130	Sierra Larga	_
131	Maravillas Canyon	
132	Big Canyon	
133	Reagan Canyon	
134	Bullis Gap Range	
135	El Tule	
144	Shumla Bend	
145	Seminole Canyon	
146	Zuberbueler Bend	

Table



Complication #2: Even when the sheet numbering scheme is complicated?



Multiple institutions upload & share in a ArcOnline group

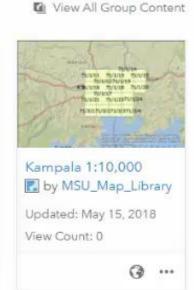
This group is maintained by Christopher J.J. Thiry, Map Librarian, Colorado School of Mines. cthiry@mines.edu 303-273-3697

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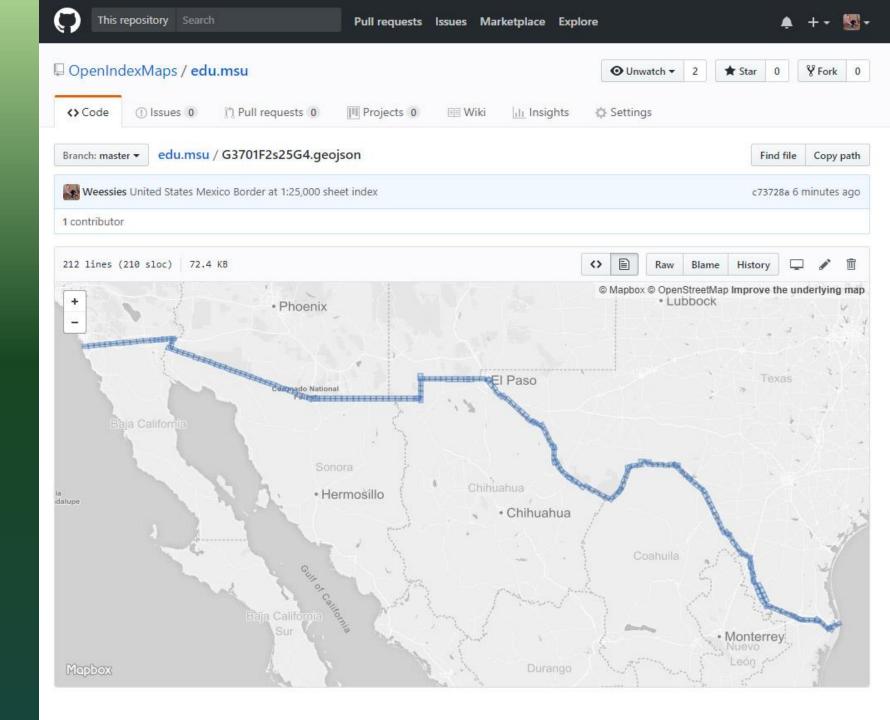
For your desktop, server, in your web browser and as developer libraries

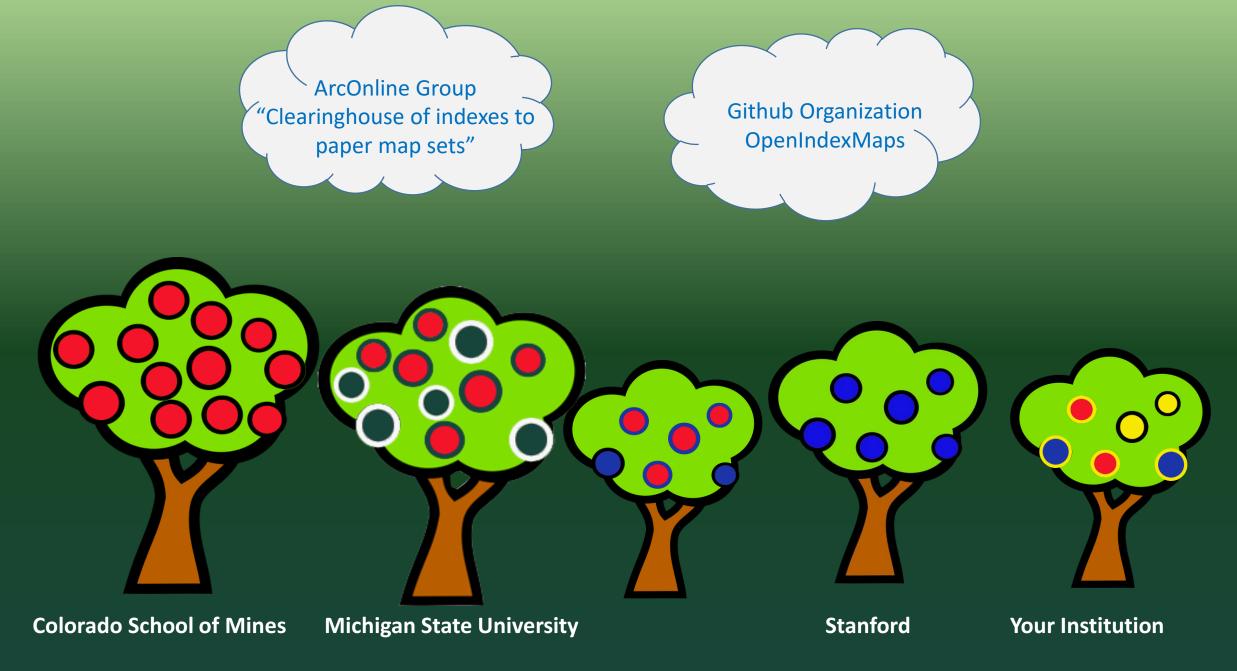
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