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Florida Museum of Natural History
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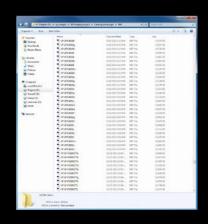
## Outline

- Specimen selection
- Equipment
- Specimen staging and imaging
- Post-processing
- Image storage













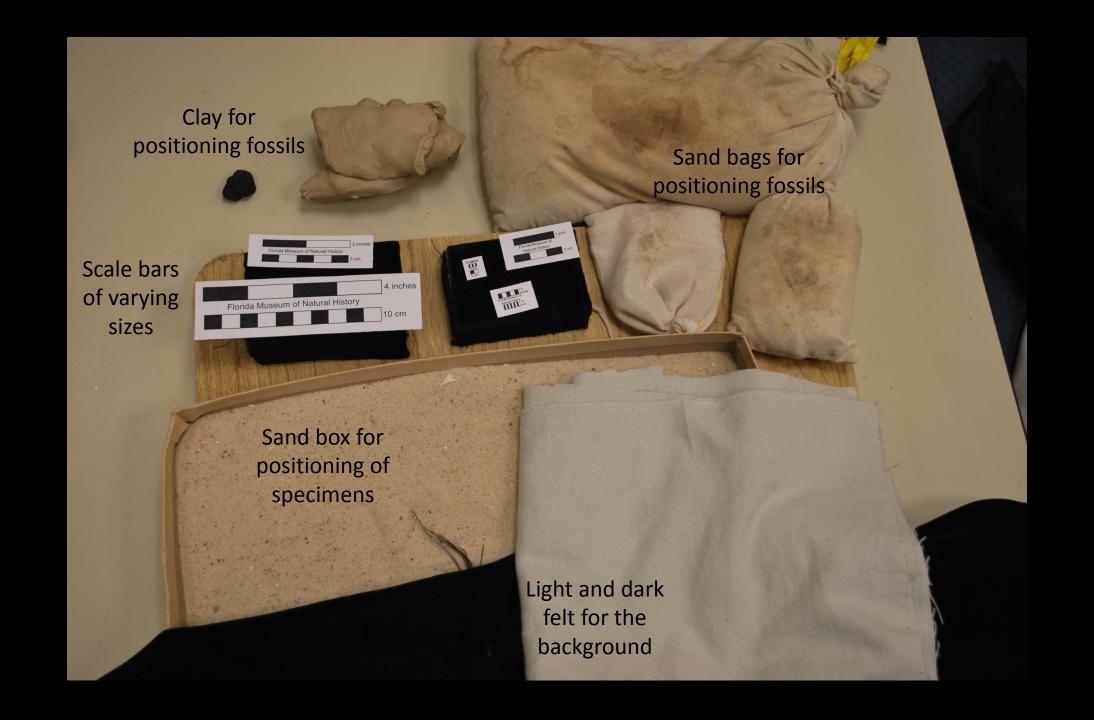


## Specimen selection



- Goal-dependent
  - E.g., focus on collections, taxon, skeletal element, locality, etc.
- Good exemplars
  - Driven by overarching goal
  - Mostly complete specimens
  - Representative of the collection as a whole





## Equipment



Nikon D5100



Nikkor 105mm f/2.8G IF-ED



Nikkor 60 mm f/2.8G ED



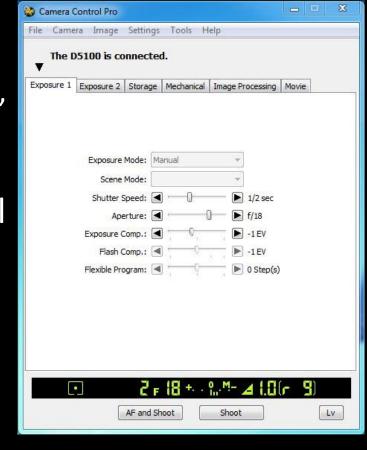
Adobe Photoshop CS6 Extended



Bowens Streamlite 330 Fluorescent Lights

#### Specimen staging

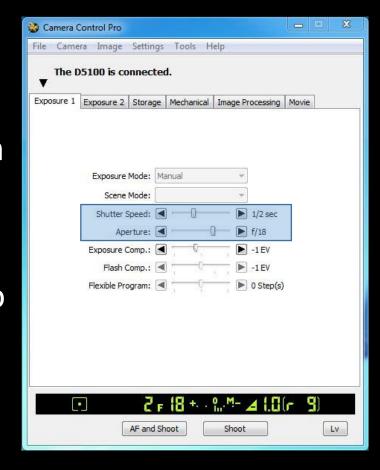
- All important views
  - Dorsal, ventral, anterior, posterior, occlusal, medial, lateral, etc. (2-6 per specimen)
- Scale bar in line with focal plane
- Relatively clean felt background overlying sandbox





#### Specimen imaging

- 3 images per view with differential shadowing
- 1 of the 3 converted from .nef to .jpg
- Aperture prioritized
- Shutter speed changed to compensate for wellexposed image



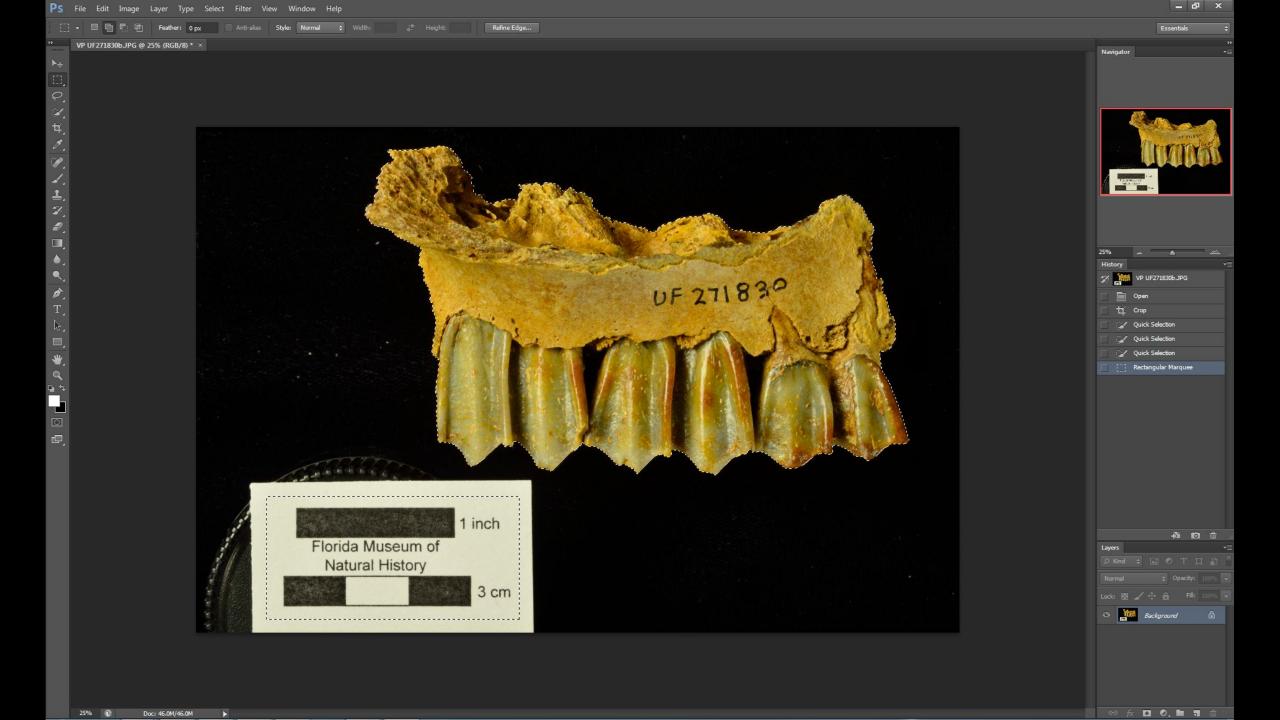


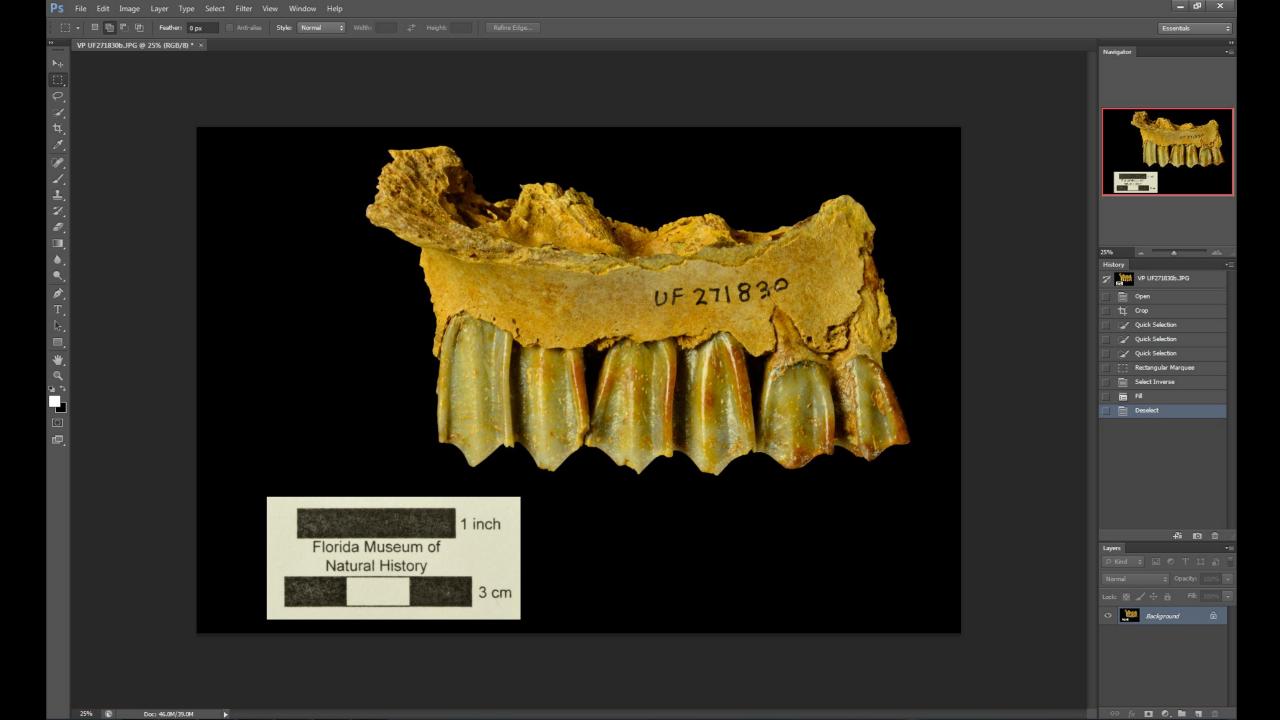
## Database

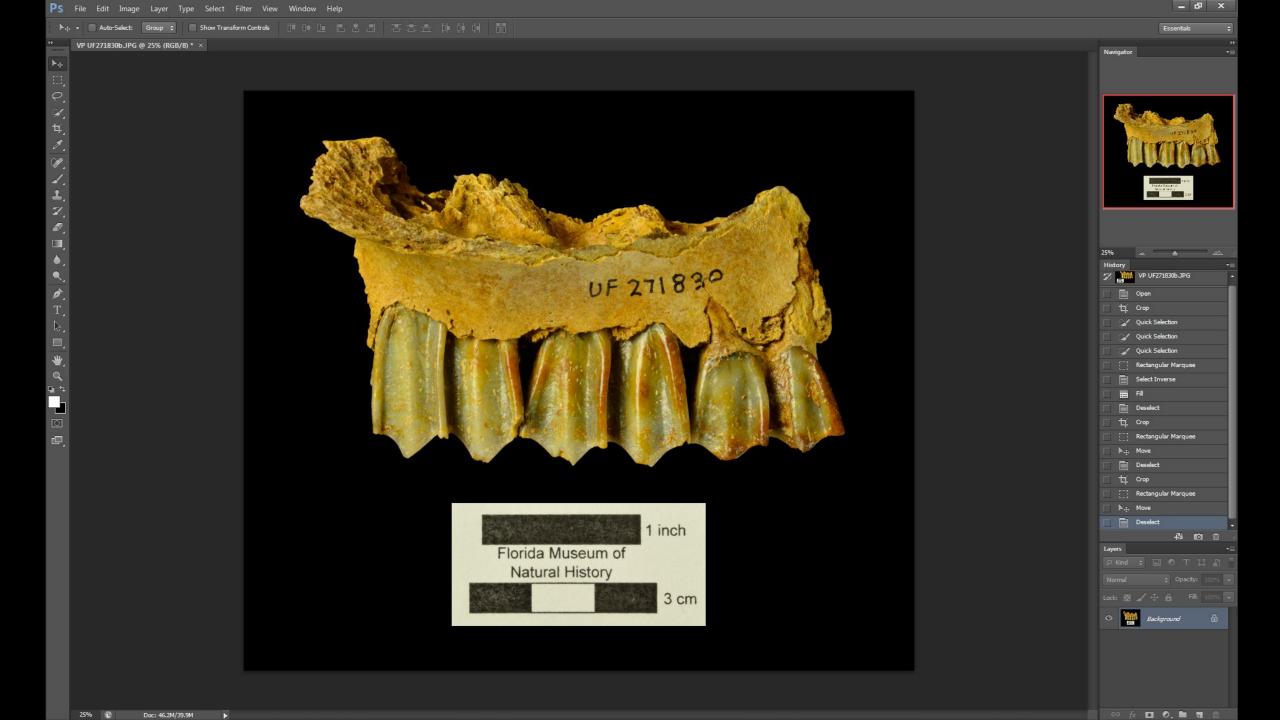
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	Id •1 Photographer_n •						Species - 1		ature_of_Specimen			RAW_Image_file_n •	Unic +	3, 20	<ul> <li>High_Res_JPG</li> </ul>	- /-	• Web_Folder •	Web_File_Name	For_Online - Comments -
10/24/2012		UF	271829	UF271829	The spinished		haysii		nal, right	right lateral		VP UF271829a.nef	У	VP UF271829a.jpg	VP UF271829a_HR.jpg	VP UF271829a_LR.jpg	Y	VP_UF271829lat.jpg	Y
10/24/2012		UF	271829	UF271829			haysii	lacrim	nal, right	right lateral	b	VP UF271829b.nef							
10/24/2012		UF	271829	UF271829			haysii		nal, right	right lateral		VP UF271829c.nef							
10/30/2012		UF	3209	UF003209	y Ave	thoceleus		Y coraco	oid, right	posterior		VP UF003209a.nef	У	VP UF003209a.jpg	VP UF003209a_HR.jpg	VP UF003209a_LR.jpg	Y	VP_UF003209post.jpg	Y
10/30/2012		UF	3209	UF003209	Ave	thoceleus			oid, right	posterior		VP UF003209b.nef							
10/30/2012		UF	3209	UF003209	Ave	thoceleus			oid, right	posterior		VP UF003209c.nef							
10/30/2012		UF	3209	UF003209	Ave	thoceleus			oid, right	medial		VP UF003209d.nef							
10/30/2012		UF	3209	UF003209	Ave	thoceleus			oid, right	medial		VP UF003209e.nef							
10/30/2012		UF	3209	UF003209	Ave	thoceleus			oid, right	medial	f	VP UF003209f.nef	У	VP UF003209f.jpg	VP UF003209f_HR.jpg	VP UF003209f_LR.jpg		VP_UF003209med.jpg	Y
10/30/2012		UF	3209	UF003209	Ave	thoceleus			oid, right	anterior	g	VP UF003209g.nef	У	VP UF003209g.jpg	VP UF003209g_HR.jpg	VP UF003209g_LR.jpg	Y	VP_UF003209ant.jpg	Y
10/30/2012		UF	3209	UF003209	Ave	thoceleus			oid, right	anterior	h	VP UF003209h.nef							
10/30/2012	2302 000111101011	UF	3209	UF003209	Ave	thoceleus			oid, right	anterior	i i	VP UF003209i.nef							
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10/30/2012		UF	3210	UF003210	y Ave		wetmorei \		rus, left distal	medial		VP UF003210a.nef							
10/30/2012		UF	3210	UF003210	Ave		wetmorei		rus, left distal	medial		VP UF003210b.nef	y	VP UF003210b.jpg	VP UF003210b_HR.jpg	VP UF003210b_LR.jpg	Y	VP_UF003210med.jpg	Y
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10/30/2012		UF	3210	UF003210	Ave		wetmorei		rus, left distal	posterior		VP UF003210d.nef							
10/30/2012		UF	3210	UF003210	Ave		wetmorei		rus, left distal	posterior		VP UF003210e.nef							
10/30/2012		UF	3210	UF003210	Ave		wetmorei		rus, left distal	posterior	f	VP UF003210f.nef	Y	VP UF003210f.jpg	VP UF003210f_HR.jpg	VP UF003210f_LR.jpg	Υ	VP_UF003210post.jpg	Y
10/30/2012		UF	3210	UF003210	Ave		wetmorei		rus, left distal	left lateral	g	VP UF003210g.nef							
10/30/2012		UF	3210	UF003210	Ave		wetmorei		rus, left distal	left lateral	h	VP UF003210h.nef							
10/30/2012		UF	3210	UF003210	Ave		wetmorei		rus, left distal	left lateral	1	VP UF003210i.nef	У	VP UF003210i.jpg	VP UF003210i_HR.jpg	VP UF003210i_LR.jpg		VP_UF003210lat.jpg	Y
10/30/2012		UF	3210	UF003210	Ave		wetmorei		rus, left distal	anterior	1	VP UF003210j.nef	Y	VP UF003210j.jpg	VP UF003210j_HR.jpg	VP UF003210j_LR.jpg	Y	VP_UF003210ant.jpg	Y
10/30/2012		UF	3210	UF003210	Ave		wetmorei		rus, left distal	anterior		VP UF003210k.nef							
10/30/2012		UF	3210	UF003210	Ave		wetmorei		rus, left distal	anterior		VP UF003210l.nef							
10/30/2012		UF	11005	UF011005			webbi		tht lower	right lateral		VP UF011005an.nef	Y						
10/30/2012		UF	11005	UF011005			webbi	100000	tht lower	right lateral		VP UF011005ao.nef							
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10/30/2012		UF	106594	UF106594	Ave				metatarsus, right distal	posterior		VP UF106594b.nef	¥	VP 0F100334a.jpg	VP UF106594a_HR.jpg	VP UF106594a_LR.jpg	T	VP_UF106594post.jpg	Ť
10/30/2012	2302 00011110101	UF	106594	UF106594	Ave		prattae prattae		metatarsus, right distal	posterior		VP UF106594c.nef							
10/30/2012		UF	106594	UF106594	Ave		prattae		netatarsus, right distal netatarsus, right distal	right lateral	d	VP UF106594c.nef							
10/30/2012		UF	106594	UF106594	Ave		prattae		netatarsus, right distal	right lateral	e	VP UF106594e.nef							
10/30/2012		UF	106594	UF106594	Ave		prattae		netatarsus, right distal	right lateral	f	VP UF106594f.nef	v	VP UF106594f.jpg	VP UF106594f HR.jpg	VP UF106594f LR.jpg	v	VP_UF106594lat.jpg	v
10/30/2012		UF	106594	UF106594	Ave		prattae		netatarsus, right distal	anterior	g	VP UF106594g.nef	V	VP UF106594g.jpg	VP UF106594g HR.jpg			VP_UF106594ant.jpg	v
10/30/2012		UF	106594	UF106594	Ave		prattae		metatarsus, right distal	anterior	-	VP UF106594h.nef	1	1. 311003348.Jpg	At 011000348 uk'lb8	AL OLIOODS4R_ru'lb8	,	A.F. Ot 100034aurilbR	2
10/30/2012		UF	106594	UF106594	Ave		prattae		netatarsus, right distal	anterior	i	VP UF106594i.nef							
10/30/2012		UF	106594	UF106594	Ave		prattae		netatarsus, right distal	medial	i	VP UF106594j.nef							
10/30/2012		UF	106594	UF106594	Ave		prattae		metatarsus, right distal	medial	k	VP UF106594k.nef							
10/30/2012		UF	106594	UF106594	Ave		prattae		netatarsus, right distal	medial	1	VP UF106594l.nef	v	VP UF106594l.jpg	VP UF106594I HR.jpg	VP UF106594l LR.ipg	v	VP_UF106594med.jpg	v
10/30/2012		UF-PB	428	UF-PB00428	y Ave		dixie \		rus, left	left lateral	a	VP UF-PB00428a.nef	v	VP UF-PB00428a.jpg				VP_UF-PB00428lat.jpg	v
10/30/2012	1964 Sean Moran	UF-PB	428	UF-PB00428	Ave		dixie		rus, left	left lateral		VP UF-PB00428b.nef	,	51 1 boo-sed-jpg	** JF-PB00420a_HK.JP	g vr or-room-zod_th.j	N. I	*F_OI-PBOO4Zolar.Jpg	
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10/30/2012	1966 Sean Moran	UF-PB	428	UF-PB00428	Ave		dixie		rus, left	anterior		VP UF-PB00428d.nef							
10/30/2012	1967 Sean Moran	UF-PB	428	UF-PB00428	Ave		dixie		rus, left	anterior		VP UF-PB00428e.nef							
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# Post-processing









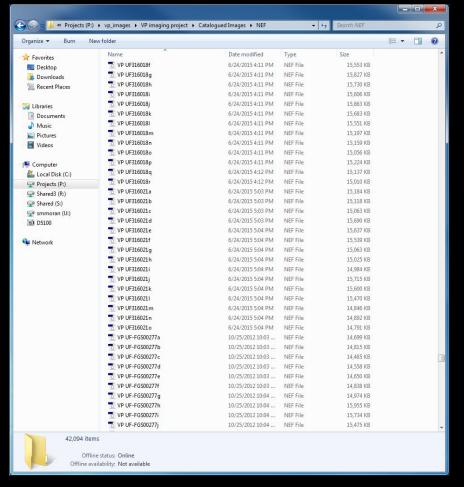


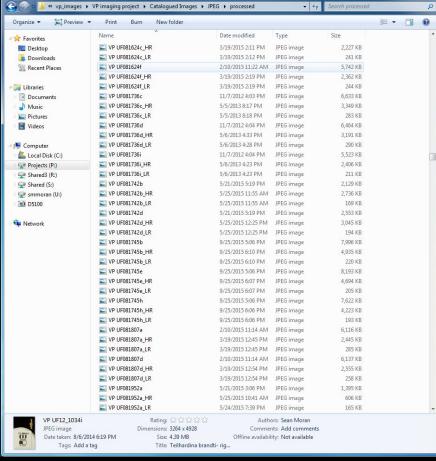


1 inch
Florida Museum of
Natural History
3 cm

#### Data Storage

- .nef, .jpg
- edited (high and low resolution) and unedited
- files stored on the P:// drive





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# flmnh.ufl.edu/vertpaleo-search/search

Images	Database Source	Catalog Number	Class	Order	Family	Genus	Species	Specimen Type	Site	Epoch	Formation
	UF/TRO	11	Mammalia	Carnivora	Felidae	Smilodon	fatalis		Waccasassa River 6	Pleistocene, Late	
	UF/TRO	12	Mammalia	Carnivora	Felidae	Smilodon	fatalis		Waccasassa River 2	Pleistocene, Late	
	UF/TRO	13	Mammalia	Carnivora	Felidae	Smilodon	fatalis		Waccasassa River 2	Pleistocene, Late	
	UF/TRO	14	Mammalia	Carnivora	Felidae	Panthera	onca		Waccasassa River 6	Pleistocene, Late	
	UF/TRO	15	Mammalia	Carnivora	Ursidae	Arctodus	pristinus		Haile 16A	Pleistocene, Early	
	UF/TRO	16	Mammalia	Carnivora	Canidae	Canis	dirus			Pleistocene, Late	
	UF/TRO	17	Mammalia	Carnivora	Canidae	Urocyon	cinereoargenteus			Pleistocene, Late	

