Cameras, copy stands and imaging

Sean Moran

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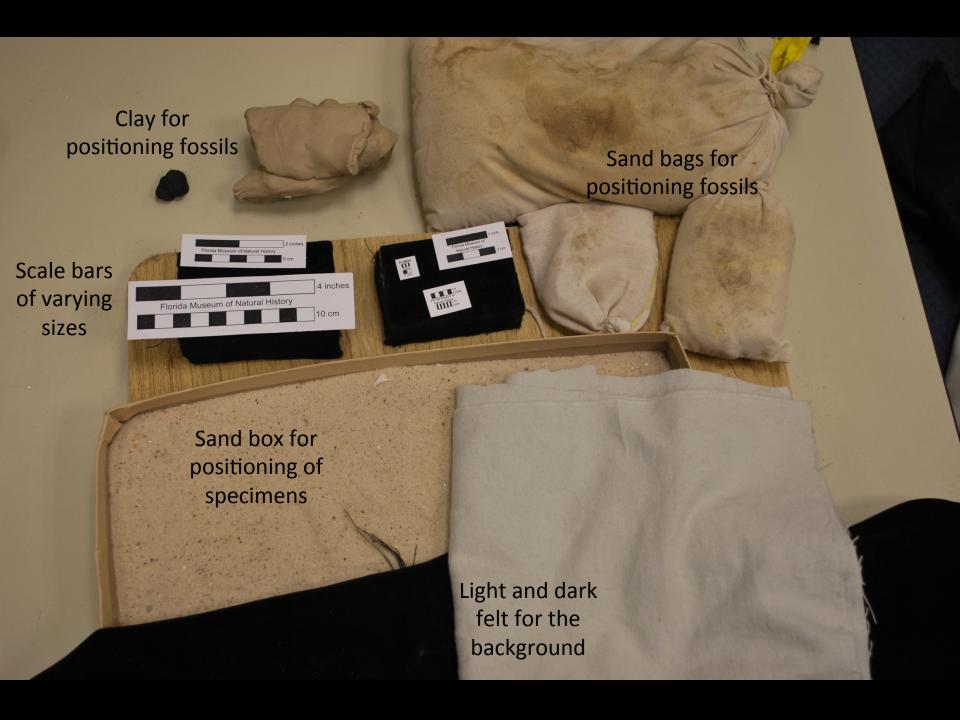
Florida Museum of Natural History

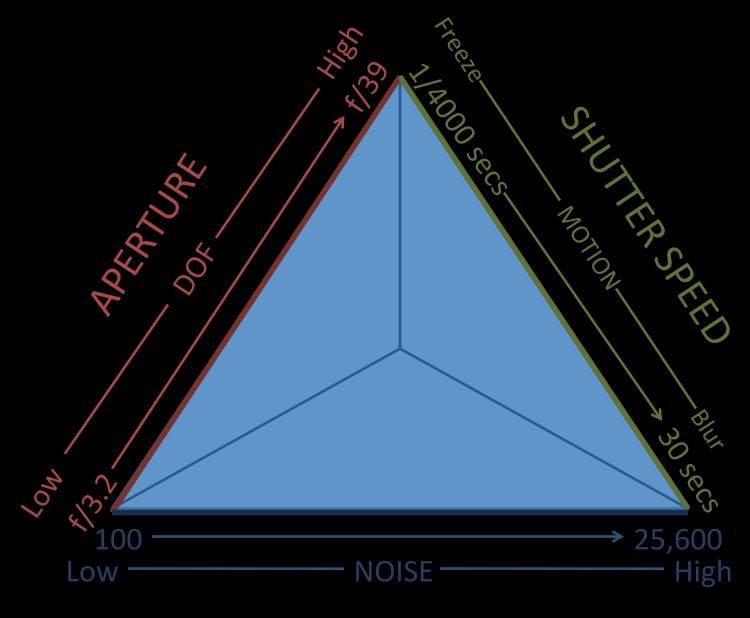
Vertebrate Paleontology Digital Imaging Assistant











Shutter Speed

The length of time the shutter is open to capture light

Long shutter speeds (e.g. 30 seconds)

Short shutter speeds (e.g. 1/4000 seconds)

digital-slr-guide.com



- Stops motion
- •Less noise
- Less light

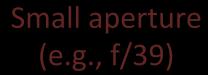
- Blurs motion
- Noisier
- More light

Aperture (F-stop) The size of the aperture opening



Large aperture (e.g., f/3.2)

- Low depth of field
- Low diffraction
- More light



- •High depth of field
- High diffraction
- Less light







ISO

The sensitivity of the "film" to light

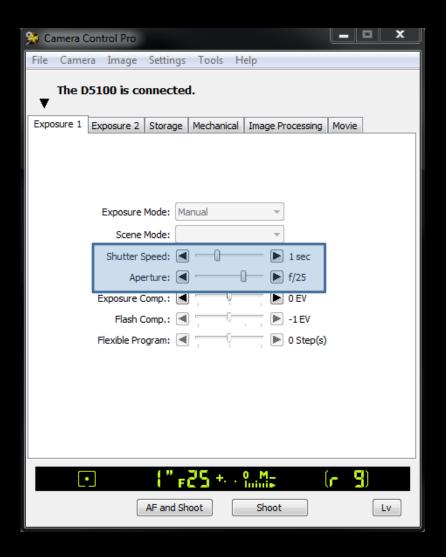


Camera control Pro



Image Quality: NEF (RAW) Image Size: Large (4928x3264) ecording Images Record to: PC ▼
ecording Images

Camera control Pro



Camera Control Pro			_						
File Camera Image S	ettings Tools	Help							
The D5100 is connected. ▼									
Exposure 1 Exposure 2 S	torage Mechanic	al Image Processing	Movie						
Focus Point:		<u> </u>							
Metering:	Spot	•							
Flash Sync Mode:	Front Curtain	~]							
ISO Sensitivity:	ISO 100	▼]							
White Balance:	ISO Auto		Detail						
Fluorescent:	Day white fluore	scent 🔻							
• AF	1" F25 +.	· O M- Initial Shoot	(r 🖫						

Image Quality:	NEF (RAW) ▼
Image Size:	Large (4928x3264)
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Aperture too small



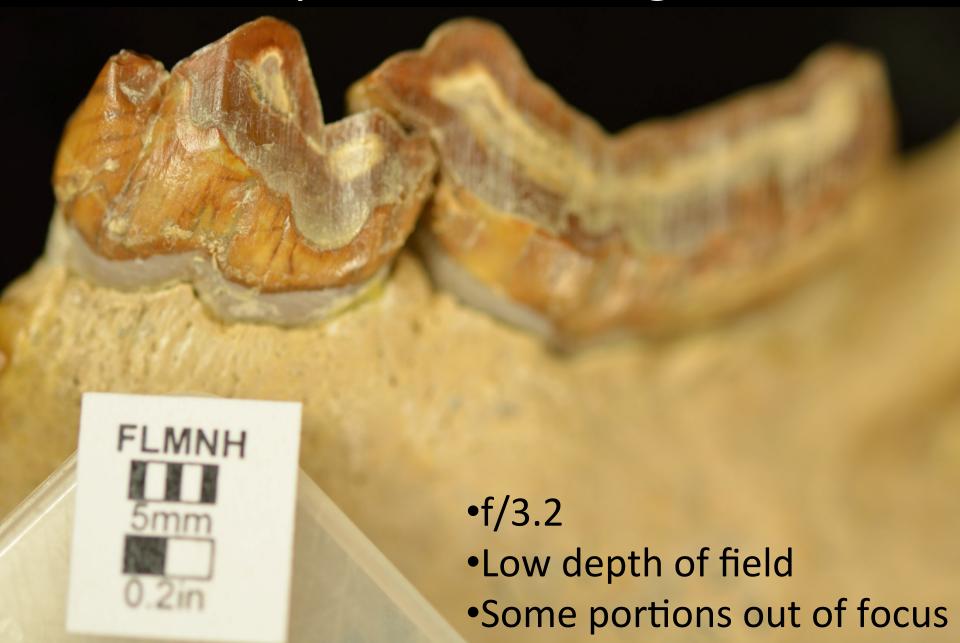
Aperture too large



Aperture too small



Aperture too large



Well exposed



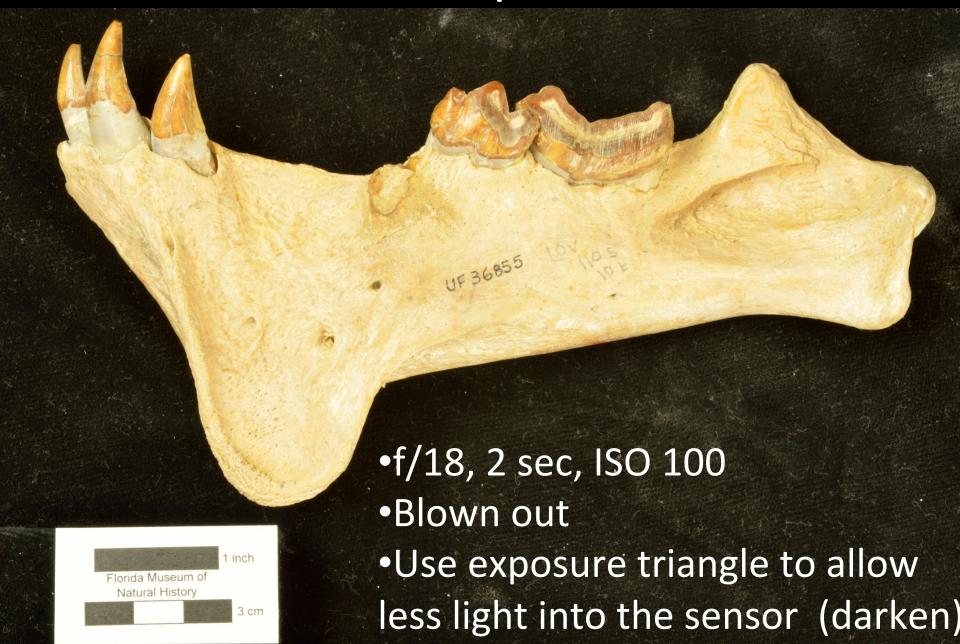
Poorly focused



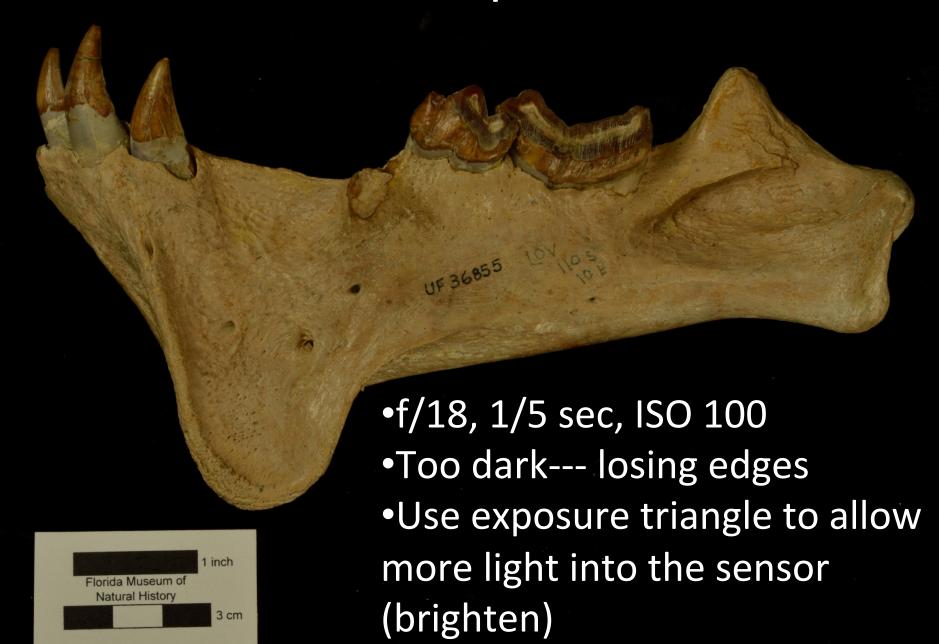
Long shutter speed without stabilization



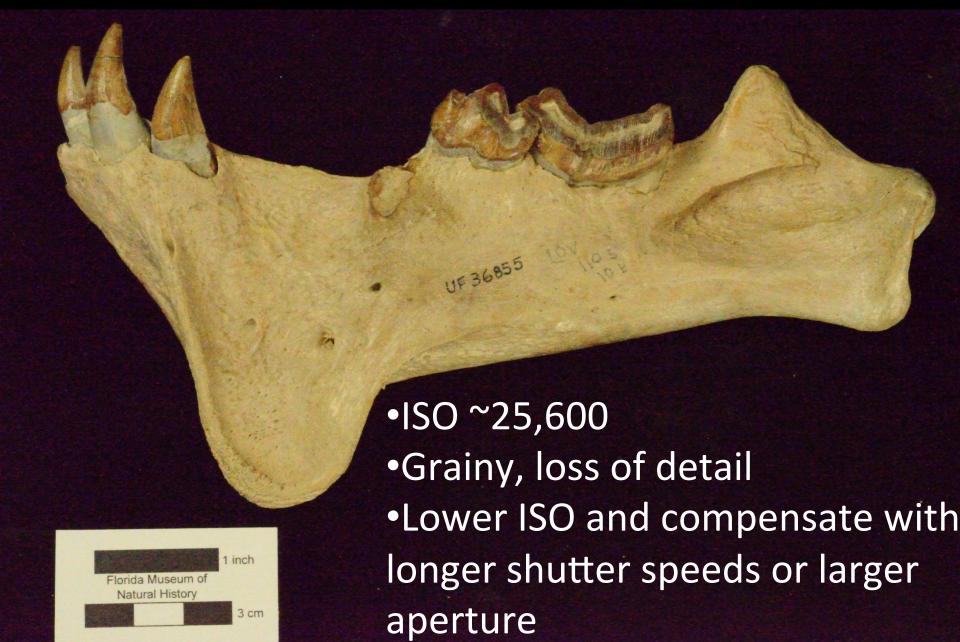
Overexposed



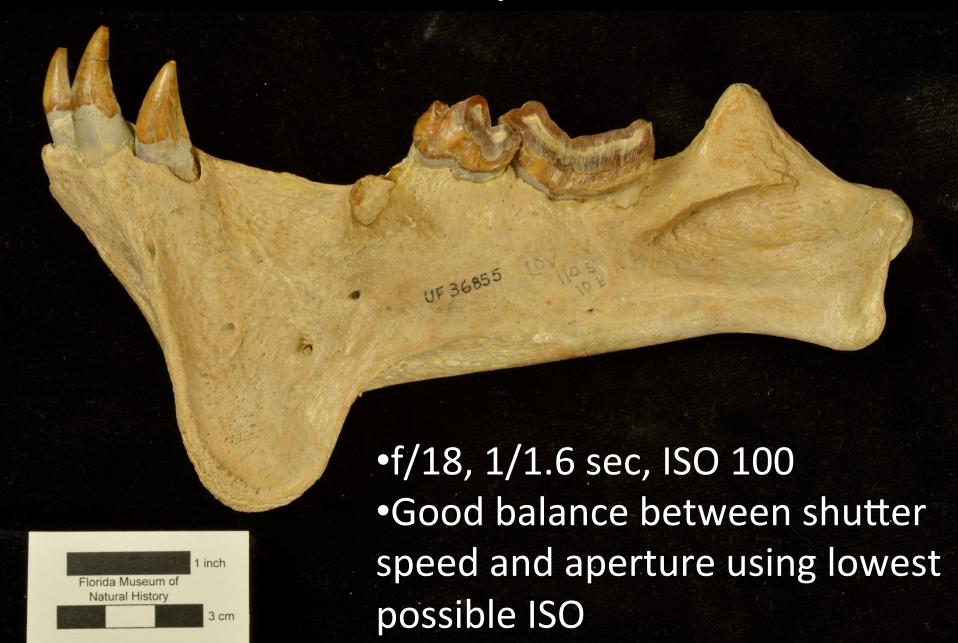
Underexposed



High ISO



Well exposed



FLMNH Vertebrate Paleontology

Database

For the second of the second o									Phosphate Pit	Early	
	UF/TRO	1450	Mammalia	Carnivora	Felidae	Lynx	rexroadensis	Figured	Palmetto Mine (Agrico)	Pliocene, Early	Bone Valley Fm.
	UF	1473	Mammalia	Perissodactyla	Equidae	Anchitherium	clarencei		Thomas Farm	Miocene, Early	
	UF/TRO	1478	Mammalia	Perissodactyla	Equidae	Nannippus	aztecus		Payne Creek Mine (Agrico)	Pliocene, Early	Bone Valley Fm.
1117	UF	1485	Mammalia	Carnivora	Canidae	Metatomarctus	canavus		Thomas Farm	Miocene, Early	