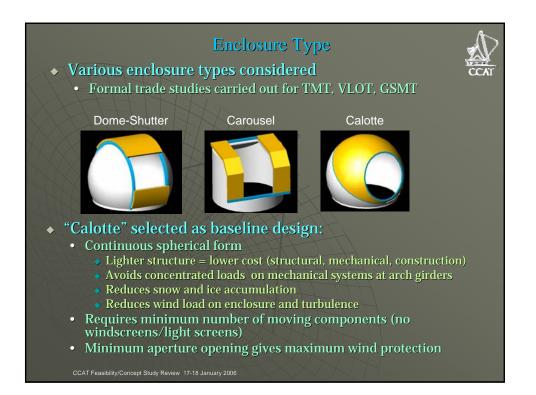
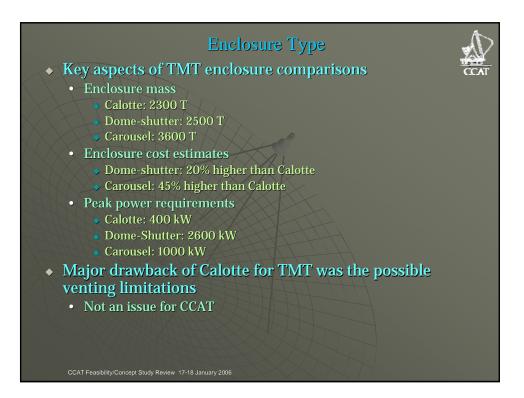
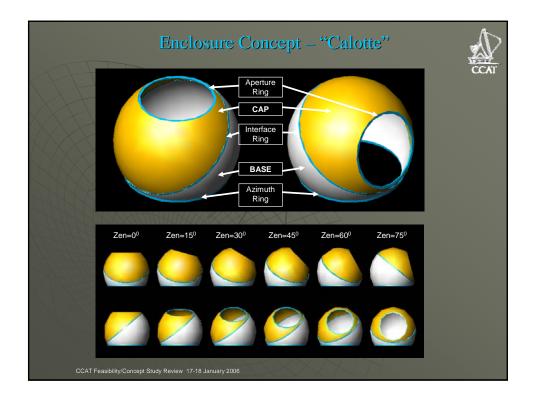
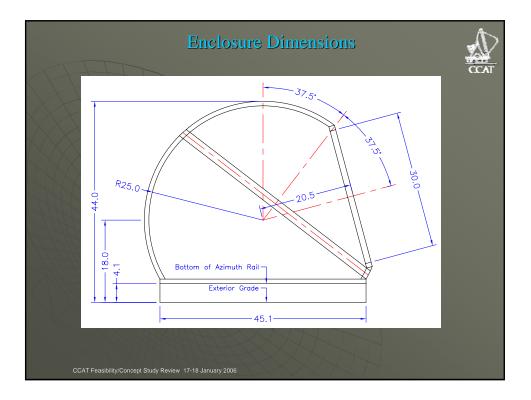


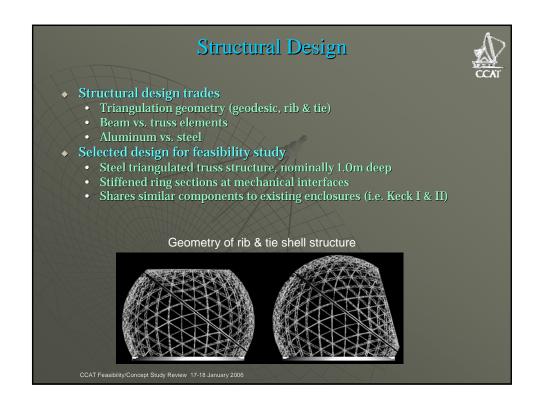
Requirements for Subsystem	
	CCAT
<ul> <li>CCAT Enclosure Requirements</li> </ul>	
Dome diameter: 50m	
Aperture diameter: 30m	
• Aperture zenith range: $0 - 75$ degrees	
Azimuth rotation: unlimited	
Calotte rotation: 200 degrees	
Key environmental loads:	
<ul> <li>Wind (survival): 65m/s</li> </ul>	
Snow Load: 100kg/m <sup>2</sup>	
Ice Load: 25kg/m <sup>2</sup>	
<ul> <li>Seismic: 0.4g ground acceleration</li> </ul>	
<ul> <li>General: simplify on-site construction due to the extreme altitude</li> </ul>	
<ul> <li>Trial assembly at the manufacturer's site</li> </ul>	
Shipping via standard containers	
<ul> <li>Construction procedures that minimize field labor</li> </ul>	
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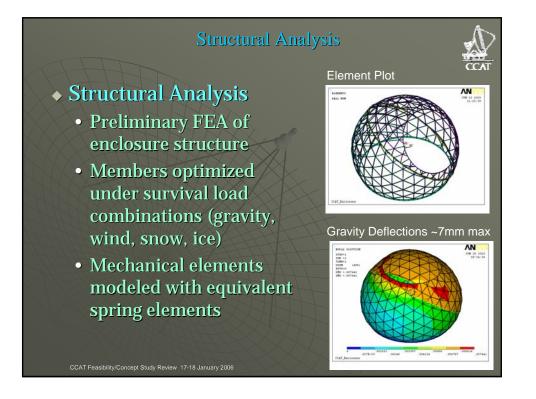


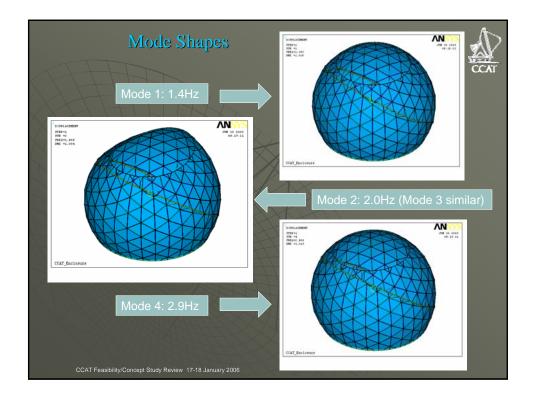


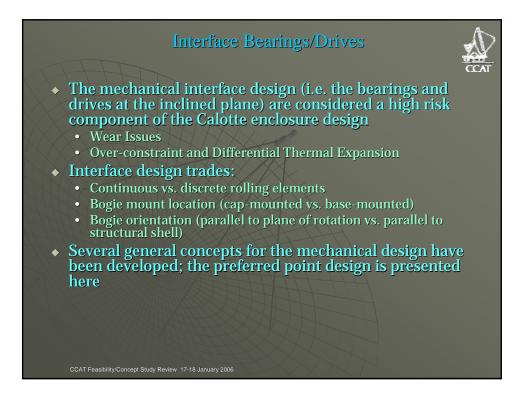


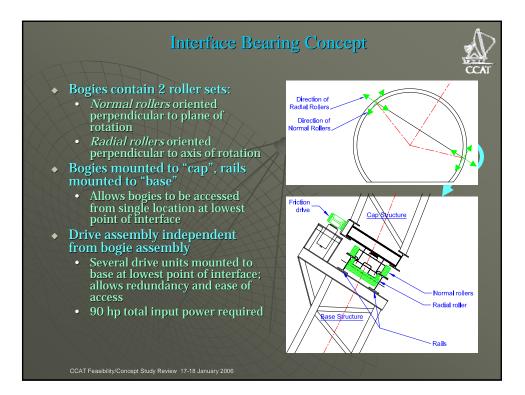


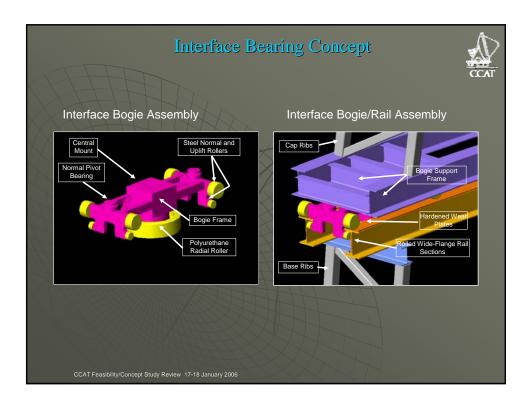


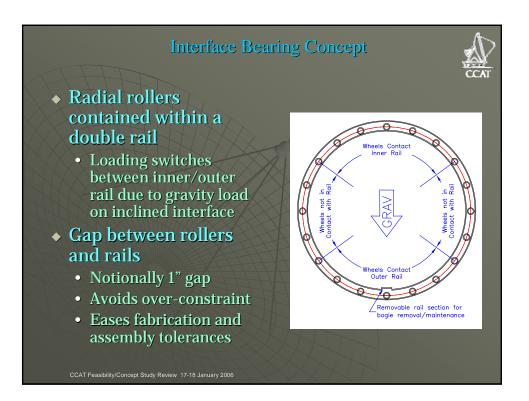


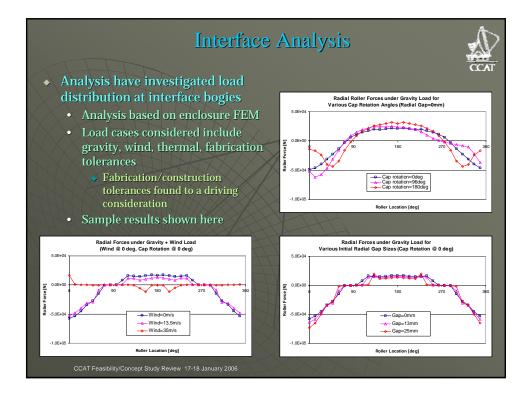


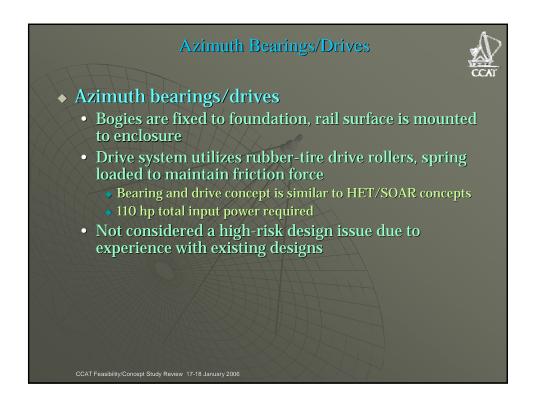


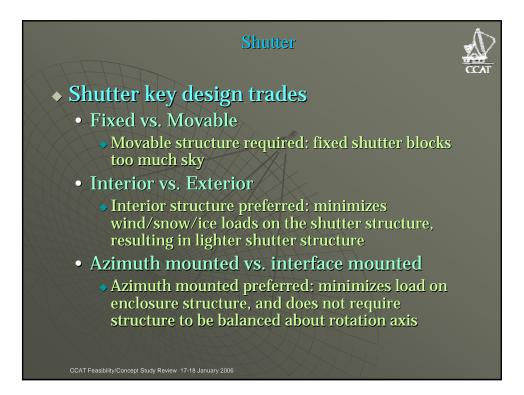


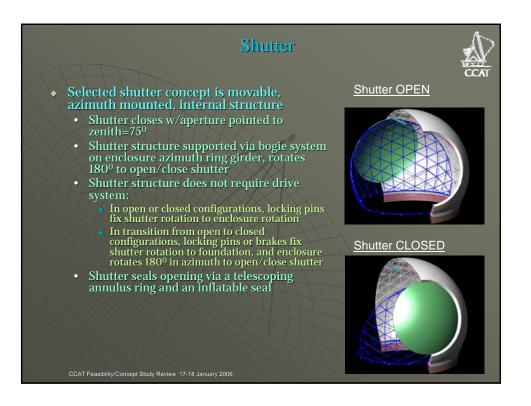


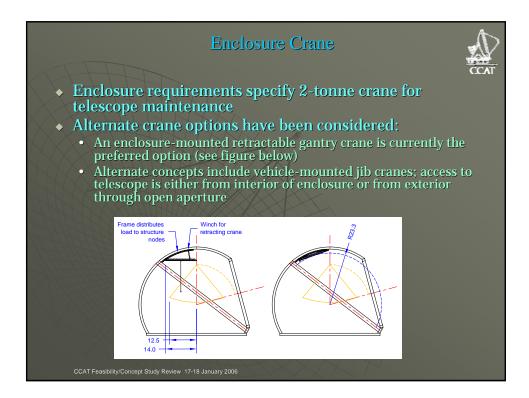












	Mass E	stimate
Component	Mass [Tons]	1
Structural - Ribs	54	
Structural - Ties	101	
Structural - Azimuth Ring	21	
Structural - Interface Ring-Base	24	
Structural - Interface Ring-Cap	24	
Structural - Aperture Ring	12	
Structural - Shutter	50	
Structural - Cladding/Insulation	81	
Mechanical – Azimuth	76	
Mechanical - Interface	38	Taller in the deside of the international data
Mechanical - Shutter	15	
TOTAL	496 tons	
		o tons, Scaled to 52m=1100 tons cons, Scaled to 52m=2000 tons
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