	Ceres Open Movie		Title: Clockwork Skies					
	Written by Ron Proctor & AmyJo Proctor	Executive Producer Dr. Stacy Palen	Ott Planetarium weber.edu/planetarium					
Scn	Voicetrack	BGM / FX Track	Visual Notes	Scn	Producer	Δf+120	Start Fr	End Fr
00			OSD: Ceres Open Movie Logo	00	Ron	300	0	180
			OSD: An Ott Planetarium Workshop Production					
01		BGM Professor and the Plant Part 1 - Up and Under	Daily Motion at 500 frames per day - start with stars.	01	Cole	1040	180	1100
	Every day the Sun rises in the East...and sets in the West...		Sun rises, transits, sets.					
	And so do the stars, moon, and planets....		Stars up, Moon up, transit, set, sunrise.					
	...while we often take them for granted, our lives are ruled by our clockwork skies...							
02		BGM Swell then under.	Logo.	02	Ron	620	1100	1600
03	Ancient astronomers once thought that the Earth was at the center of the universe.		Daily motion with running clock (01 + clock @ 500 fr/day).	03	Cole	2020	1600	3500
	And this made sense at the time because it looked like the Sun, Moon, stars, and planets were circling the Earth every day.							
04	Today we know better.		Earth in space (500 frames per revolution).	04	Robinson	1170	2300	3350
	The Sun, Moon, stars, and planets appear to rise and set because of The Earth's daily motion.							
	The Earth takes 24 hours to rotate on its axis.							
	We call each complete rotation a "day."							

	Ceres Open Movie		Title: Clockwork Skies					
	Written by Ron Proctor & AmyJo Proctor	Executive Producer Dr. Stacy Palen	Ott Planetarium weber.edu/planetarium					
Scn	Voicetrack	BGM / FX Track	Visual Notes	Scn	Producer	Δf+120	Start Fr	End Fr
		BGM: Professor and the Plant Part 1 Ends cross to Scheming Weasel						
05	The Moon orbits the Earth.		Moon orbiting the Earth (to scale).	05	Jackson	670	3350	3900
	The Moon takes about a month to complete one orbit.							
06	As the Moon travels through its orbit, the Earth-facing side passes through sunlight and darkness, causing the phases of the Moon.		Lunation	06	Robinson	470	3900	4250
07	The Earth orbits the Sun in a nearly perfect circle.		Earth orbiting the Sun - from above North, looking down, pull for near-plane wide (builds to 09).	07	Walter	770	4250	4900
	It takes 365 days to orbit once - we call each orbit a "year."							
08	Earth's axis is tilted. This causes the Northern and Southern Hemispheres to experience opposite seasons.		CU Earth, showing Axial tilt and Daily Motion, Northern Winter.	08	Deleted			
	For example: when it is winter in Europe, Asia, and North America, it is Summer in Australia and South America.							
09	The rest of the planets also orbit the Sun, but at different distances and different speeds.		Solar System model, near-plane (builds on 07).	09	Walter	270	4900	5050
10	Mercury takes only 88 Earth days to orbit the Sun.		Beauty Shot of Mercury	10	Robinson	320	5050	5250

	Ceres Open Movie		Title: Clockwork Skies					
	Written by Ron Proctor & AmyJo Proctor	Executive Producer Dr. Stacy Palen	Ott Planetarium weber.edu/planetarium					
Scn	Voicetrack	BGM / FX Track	Visual Notes	Scn	Producer	Δf+120	Start Fr	End Fr
11	While Neptune takes over 164 Earth years to orbit the Sun.		Beauty Shot of Neptune	11	Jackson	370	5250	5500
	Newton's Law of Universal Gravitation can tell us why.		FTB					
12	Newton discovered that distance affects the strength of gravity.		The Sun with a spectrum of gravity strength. OSD: F_g=GMm/r^2	12	Walter	370	5500	5750
(09)	The stronger the gravity, the faster the orbit.		Solar System model (recycle 09)	(09)	(Walter)	370	5750	6000
		BGM: Scheming Weasel Ends	FTB					
13	One could imagine the Solar System as a gigantic, eight armed clock.	BGM: Professor and the Plant Part 2 - up and under	Giant Solar System Clock	13	Cole	620	6000	6500
	A vast, astronomical machine, powered by gravity.							
(01)	In our everyday lives, we track the passage of time with our schedules, calendars and clocks...		Recycle 01	(01)	(Cole)	420	6500	6800
	...all carefully matched to our clockwork skies.							
14		BGM: volume up for swell.	Roll Credits	14	Ron	1120	6800	7800
00			OSD: Ceres Open Movie Logo	00	Ron	420	7800	8100
			OSD: Made with Blender					
###	###	###	###	###	###	###	###	###