








# NOVEMBER 2022

S	M	T	W	Th	F	Sa
		1 	2	3	4	5
6	7	8 	9	10	11 <small>Veterans Day</small>	12
13	14	15	16 	17	18	19
20	21	22	23 	24 <small>Thanksgiving Day</small>	25	26
27	28	29	30 			

## NORTHERN CLUMP

A galaxy cluster is traveling down an enormous filament – a thin strip of very hot gas that stretches at least 50 million light years – like a passenger on an intergalactic highway. The cluster is known as the Northern Clump and is located about 690 million miles from Earth. This composite includes X-ray data from Chandra (purple), ESA's XMM-Newton (blue), as well as optical and infrared data (orange, green, and blue).

Credit: Chandra: NASA/CXC/Univ. Bonn/A. Veronica et al.; XMM-Newton: ESA/XMM-Newton); Optical: DES/DOE/FNAL/DECam/CTIO/NOIRLab/NSF/AURA; Radio: CSIRO/ASKAP/EMU