

## *The Observer's Challenge Objects*

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November: NGC 7184 – Galaxy – Aquarius; mag<sub>v</sub>=10.9; Size = 6.0'×1.5'

RA: 22h 03m; Dec: -20° 49'

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Galaxy **NGC7184** is located in the fall zodiacal constellation of Aquarius - 'The Water Bearer'. The barred spiral is about 100 million light years distant, and is about 175,000 light-years in size. NGC7184 was discovered on the night of October 28<sup>th</sup>, 1783 by William Herschel using his 20 ft reflector, (with an 18.5" speculum-metal mirror), during his first full night of using his newly completed telescope in the back garden of his house, located in the small village of Datchet, about a mile from Windsor Castle. Herschel described the object as: "*Faint, considerably large, much extended, brighter in the middle. Easily resolvable*". NGC7184 was the first deep-sky object discovered by William Herschel using his system of 'sweeping the sky' and became the first object of Herschel's Class-II – 'Faint Nebulae', which consists mostly of galaxies.

### **Video-Capture/EAA:**

On 09/20/2022, from Cherry Springs State Park at the Black Forest Star Party.

Using an 8" SCT optical tube @ f6.3 on a GEM mount, with a CMOS color camera and broadband filter, 180-second guided exposure, live-stacked for 30 minutes, image cropped.



Using EAA techniques, the 11<sup>th</sup> mag NGC7184 displays as an elongated, inclined mottled spiral with a bright oval core surrounded by a distinct circular 'arm' wrapping like a ring around the sides and foreground of the large core.