XMM-Newton Optical-UV Monitor: sources catalogue

The *XMM–Newton* serendipitous ultraviolet source survey catalogue

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XMM-Newton Serendipitous UV Source Survey (a.k.a. "the OM Catalogue")

- **Version 1: released 2008**

- **observations with at least 1 UV filter**
- **750,000 UV sources from 2,417 XMM-Newton pointings.**
- **3-colour data across the Galex NUV band.**
- **simultaneous X-ray and optical data.**
- **source variability from multiple exposures and pointings.**
- **Developed and compiled at MSSL (with the collaboration of ESAC)**

  - available through the ESA XSA

- **Version 2: released February 2014**

- **all observations before 2013**
- **5.6 Msources from 6600 XMM-Newton pointings (4 Msources unique)**
- **3 Msources with UV data**
- **3-colour data across the Galex NUV band.**
- **simultaneous X-ray and optical data.**
- **source variability from multiple exposures and pointings (0.7Msources repeated)**
- **Fainter detection limits using mosaic/stack image algorithms (0.6Msources)**
- **New errors computation**
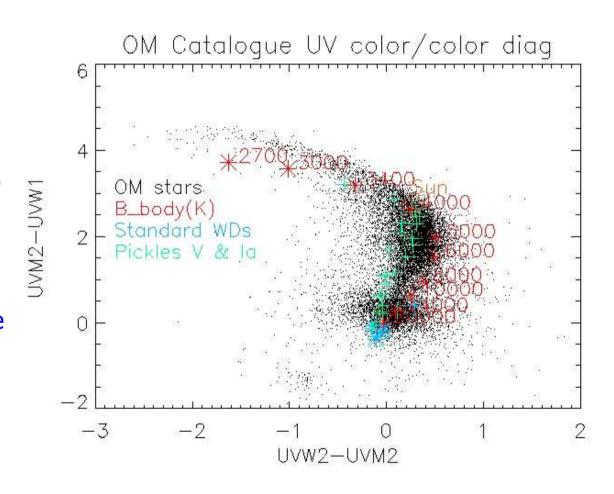- **Developed at MSSL (computations carried out at ESAC)**

Agency

OM Catalogue

- Sources catalogue
  (all available measurements in all OM filters)
- Homogeneous processing (XSA)
- Available through XSA
- 6,604 observations
- 4,008,879 sources
- 692,223 sources observed more than once
- 5,595,331 total entries:
  - 64,490 with all UV filters
  - 8,059 with all OM filters

OM Catalogue UV color/color diag

OM Catalogue / SEDs for UVM2—UVW1 > 3