

The Vera C. Rubin Observatory Data Preview 2

VERA C. RUBIN OBSERVATORY TEAM,¹ ERIC C. BELLM ,² JOHANN COHEN-TANUGI ,³ MELISSA L. GRAHAM ,^{2,4}
LEANNE P. GUY ,⁵ MINHEE HYUN ,⁵ YIJUNG KANG ,^{6,5} ARUN KANNAWADI ,^{7,8} KSHITIJ KELKAR ,⁵
SHUANG LIANG,⁹ KIAN-TAT LIM ,⁹ JAMES R. MULLANEY ,¹⁰ KATE NAPIER ,⁶ WILLIAM O'MULLANE ,⁵
AASHAY PAI ,¹¹ KARLA PEÑA RAMÍREZ ,⁵ AND IAN S. SULLIVAN ²

¹*Vera C. Rubin Observatory Project Office, 950 N. Cherry Ave., Tucson, AZ 85719, USA*

²*University of Washington, Dept. of Astronomy, Box 351580, Seattle, WA 98195, USA*

³*LPCA, Université Clermont-Auvergne, CNRS/IN2P3, Clermont-Ferrand, France*

⁴*Institute for Data-intensive Research in Astrophysics and Cosmology, University of Washington, 3910 15th Avenue NE, Seattle, WA 98195, USA*

⁵*Vera C. Rubin Observatory, Avenida Juan Cisternas #1500, La Serena, Chile*

⁶*Kavli Institute for Particle Astrophysics and Cosmology, SLAC National Accelerator Laboratory, 2575 Sand Hill Rd., Menlo Park, CA 94025, USA*

⁷*Department of Physics, Duke University, Durham, NC 27708, USA*

⁸*Department of Astrophysical Sciences, Princeton University, Princeton, NJ 08544, USA*

⁹*SLAC National Accelerator Laboratory, 2575 Sand Hill Rd., Menlo Park, CA 94025, USA*

¹⁰*Astrophysics Research Cluster, School of Mathematical and Physical Sciences, University of Sheffield, Sheffield, S3 7RH, United Kingdom*

¹¹*Department of Astronomy and Astrophysics, University of Chicago, 5640 South Ellis Avenue, Chicago, IL 60637, USA*

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ABSTRACT

We present Rubin Data Preview 2 (DP2), the second data preview from the NSF-DOE Vera C. Rubin Observatory,

Keywords: Rubin Observatory - LSST

1. INTRODUCTION

2. COMMISSIONING WITH LSSTCAM

3. OVERVIEW OF THE CONTENTS OF RUBIN DP2

4. DATA RELEASE PROCESSING

5. PERFORMANCE CHARACTERIZATION AND KNOWN ISSUES

6. RUBIN SCIENCE PLATFORM

7. SUPPORT FOR COMMUNITY SCIENCE

8. SUMMARY AND FUTURE RELEASES

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Facilities: Rubin:Simonyi (LSSTComCam), Rubin:USDAC

Software: Rubin Data Butler (Jenness et al. 2022), LSST Science Pipelines ([Rubin Observatory Science](#))

58 Pipelines Developers 2025), LSST Feature Based Sched-
 59 uler v3.0 (Yoachim et al. 2024; Naghib et al. 2019) As-
 60 trophy (Astropy Collaboration et al. 2013, 2018, 2022)

61 PIFF (Jarvis et al. 2021), GBDES (Bernstein 2022),
 62 Qserv (Wang et al. 2011; Mueller et al. 2025), Slurm,
 63 HTCondor, CVMFS, FTS3, ESNNet

APPENDIX

Glossary

66 Association of Universities for Research in Astronomy:

67 consortium of US institutions and international
 68 affiliates that operates world-class astronomical
 69 observatories, AURA is the legal entity respon-
 70 sible for managing what it calls independent
 71 operating Centers, including LSST, under respec-
 72 tive cooperative agreements with the National
 73 Science Foundation. AURA assumes fiducial

74 responsibility for the funds provided through
 those cooperative agreements. AURA also is the
 75 legal owner of the AURA Observatory properties
 76 in Chile.
 77

78 **AURA:** Association of Universities for Research in As-
 79 tronomy.

80 **DP2:** Data Preview 2.

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