

Return of Organization Exempt From Income Tax

OMB No. 1545-0047

Form 990

Under section 501(c), 527, or 4947(a)(1) of the Internal Revenue Code (except private foundations)
Do not enter social security numbers on this form as it may be made public.
Go to www.irs.gov/Form990 for instructions and the latest information.

2022

Open to Public Inspection

A For the **2022** calendar year, or tax year beginning and ending

B Check if applicable: <input type="checkbox"/> Address change <input type="checkbox"/> Name change <input type="checkbox"/> Initial return <input type="checkbox"/> Final return/terminated <input type="checkbox"/> Amended return <input type="checkbox"/> Application pending	C Name of organization LOWELL OBSERVATORY		D Employer identification number 86-0098918
	Doing business as		E Telephone number 928-774-3358
	Number and street (or P.O. box if mail is not delivered to street address)	Room/suite	
	1400 W. MARS HILL ROAD		G Gross receipts \$ 20,356,870.
	City or town, state or province, country, and ZIP or foreign postal code FLAGSTAFF, AZ 86001-4470		
F Name and address of principal officer: JEFF HALL SAME AS C ABOVE		H(a) Is this a group return for subordinates? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No H(b) Are all subordinates included? <input type="checkbox"/> Yes <input type="checkbox"/> No If "No," attach a list. See instructions H(c) Group exemption number	

I Tax-exempt status: 501(c)(3) 501(c) () (insert no.) 4947(a)(1) or 527

J Website: **WWW.LOWELL.EDU**

K Form of organization: Corporation Trust Association Other

L Year of formation: **1946** **M** State of legal domicile: **AZ**

Part I Summary

Activities & Governance	1 Briefly describe the organization's mission or most significant activities: LOWELL'S MISSION IS TO PURSUE THE STUDY OF ASTRONOMY AND SHARE THE RESULTS WITH THE PUBLIC.		
	2 Check this box <input type="checkbox"/> if the organization discontinued its operations or disposed of more than 25% of its net assets.		
	3 Number of voting members of the governing body (Part VI, line 1a)	3	1
	4 Number of independent voting members of the governing body (Part VI, line 1b)	4	0
	5 Total number of individuals employed in calendar year 2022 (Part V, line 2a)	5	203
	6 Total number of volunteers (estimate if necessary)	6	53
	7 a Total unrelated business revenue from Part VIII, column (C), line 12	7a	0.
b Net unrelated business taxable income from Form 990-T, Part I, line 11	7b	0.	
Revenue	8 Contributions and grants (Part VIII, line 1h)	Prior Year 16,708,119.	Current Year 12,847,808.
	9 Program service revenue (Part VIII, line 2g)	4,829,399.	5,903,798.
	10 Investment income (Part VIII, column (A), lines 3, 4, and 7d)	844,836.	395,184.
	11 Other revenue (Part VIII, column (A), lines 5, 6d, 8c, 9c, 10c, and 11e)	440,759.	888,375.
	12 Total revenue - add lines 8 through 11 (must equal Part VIII, column (A), line 12)	22,823,113.	20,035,165.
	Expenses	13 Grants and similar amounts paid (Part IX, column (A), lines 1-3)	1,162,998.
14 Benefits paid to or for members (Part IX, column (A), line 4)		0.	0.
15 Salaries, other compensation, employee benefits (Part IX, column (A), lines 5-10)		8,888,610.	11,175,623.
16a Professional fundraising fees (Part IX, column (A), line 11e)		0.	0.
b Total fundraising expenses (Part IX, column (D), line 25)		1,577,603.	
17 Other expenses (Part IX, column (A), lines 11a-11d, 11f-24e)		6,023,053.	7,473,031.
18 Total expenses. Add lines 13-17 (must equal Part IX, column (A), line 25)	16,074,661.	19,188,129.	
19 Revenue less expenses. Subtract line 18 from line 12	6,748,452.	847,036.	
Net Assets or Fund Balances	20 Total assets (Part X, line 16)	Beginning of Current Year 78,377,713.	End of Year 78,976,661.
	21 Total liabilities (Part X, line 26)	25,508,851.	23,388,279.
	22 Net assets or fund balances. Subtract line 21 from line 20	52,868,862.	55,588,382.

Part II Signature Block

Under penalties of perjury, I declare that I have examined this return, including accompanying schedules and statements, and to the best of my knowledge and belief, it is true, correct, and complete. Declaration of preparer (other than officer) is based on all information of which preparer has any knowledge.

Sign Here	Signature of officer		Date		
	ANNE LABRUZZO, CFO Type or print name and title				
Paid Preparer Use Only	Print/Type preparer's name	Preparer's signature	Date	Check <input type="checkbox"/> if self-employed	PTIN
	MONICA A. VERA, CPA	MONICA A. VERA, CPA	08/15/23	<input type="checkbox"/>	P01456278
Preparer Use Only	Firm's name	Firm's EIN		Phone no.	
	BEACHFLEISCHMAN PLLC 1985 E. RIVER ROAD, SUITE 201 TUCSON, AZ 85718	86-0683059		520-321-4600	

May the IRS discuss this return with the preparer shown above? See instructions Yes No

Part III Statement of Program Service Accomplishments

Check if Schedule O contains a response or note to any line in this Part III [X]

1 Briefly describe the organization's mission:
LOWELL'S MISSION IS TO PURSUE THE STUDY OF ASTRONOMY, ESPECIALLY THE STUDY OF THE SOLAR SYSTEM AND ITS EVOLUTION; CONDUCT PURE RESEARCH IN ASTRONOMICAL PHENOMENA; PROVIDE QUALITY PUBLIC EDUCATION AND OUTREACH PROGRAMS TO BRING THE RESULTS OF ASTRONOMICAL RESEARCH TO THE PUBLIC.

2 Did the organization undertake any significant program services during the year which were not listed on the prior Form 990 or 990-EZ? [] Yes [X] No
If "Yes," describe these new services on Schedule O.

3 Did the organization cease conducting, or make significant changes in how it conducts, any program services? [] Yes [X] No
If "Yes," describe these changes on Schedule O.

4 Describe the organization's program service accomplishments for each of its three largest program services, as measured by expenses. Section 501(c)(3) and 501(c)(4) organizations are required to report the amount of grants and allocations to others, the total expenses, and revenue, if any, for each program service reported.

4a (Code:) (Expenses \$ 11,573,259. including grants of \$ 539,475.) (Revenue \$ 4,684,001.)
CONTINUING A MORE THAN 125-YEAR-LONG LEGACY OF ASTRONOMICAL DISCOVERY, LOWELL OBSERVATORY ASTRONOMERS, PLANETARY SCIENTISTS, AND OTHER RESEARCHERS CONDUCTED FOREFRONT RESEARCH IN MANY AREAS OF ASTRONOMY -- FROM THE SUN AND OUR SOLAR SYSTEM TO EXOPLANETS, STARS, GALAXIES, AND COSMOLOGY. IN 2022, LOWELL RESEARCHERS PUBLISHED 114 PEER-REVIEWED PAPERS IN LEADING SCIENTIFIC JOURNALS, ALONG WITH ANOTHER 82 PAPERS IN OTHER VENUES. THEY ALSO GAVE NUMEROUS PRESENTATIONS AT SCIENTIFIC CONFERENCES AND PUBLIC OUTREACH EVENTS AND PARTICIPATED IN MAJOR SCIENTIFIC MISSIONS USING WORLD-LEADING TELESCOPES ACROSS THE GLOBE AND IN SPACE. LOWELL SCIENTIFIC STAFF CONTINUE TO BE VERY SUCCESSFUL AT OBTAINING GRANTS IN SUPPORT OF THEIR RESEARCH FROM NASA, THE NATIONAL SCIENCE FOUNDATION, AND OTHER AGENCIES. THE 4.3-METER LOWELL DISCOVERY

4b (Code:) (Expenses \$ 4,009,461. including grants of \$) (Revenue \$ 2,108,172.)
LOWELL OBSERVATORY'S PUBLIC PROGRAMS OPERATED THROUGHOUT 2022 IN MUCH THE WAY THEY DID PRIOR TO THE PANDEMIC, THANKS TO SUCCESSFULLY FOLLOWING THE PHASED RE-OPENING OF PROGRAMS IN 2021. GENERAL ADMISSION OFFERINGS INCLUDED REGULARLY SCHEDULED DAYTIME GUIDED TOURS OF THE MARS HILL CAMPUS, AND NIGHTTIME DARK SKY TOURS. IN TANDEM, STAFF HOSTED OPEN HOUSES OF THE HISTORIC CLARK AND PLUTO TELESCOPES, AND PROVIDED SCHEDULED TALKS, INCLUDING ONES DESCRIBING THE HISTORY AND IMPORTANCE OF THE DISCOVERY OF PLUTO, CURRENT ASTRONOMICAL RESEARCH ON EXTRA-SOLAR PLANETS, THE LIFE CYCLE OF STARS AND OUTDOOR CONSTELLATION TALKS. SCHOOL GROUP FIELD TRIPS TO LOWELL WERE BUSY AND THE LOWELL OBSERVATORY CAMPS FOR KIDS PROGRAMS CONTINUED IN THE SUMMER AND SERVED MORE THAN 200 CHILDREN. SPECIAL TOURS AND PROGRAMS PROVIDED SMALL GROUP ACCESS

4c (Code:) (Expenses \$ including grants of \$) (Revenue \$)

4d Other program services (Describe on Schedule O.)
(Expenses \$ including grants of \$) (Revenue \$)

4e Total program service expenses 15,582,720.

Part IV Checklist of Required Schedules

Table with 3 columns: Question ID, Question Text, Yes, No. Rows include questions 1 through 21, with sub-questions a-f for questions 11, 12, and 20. 'X' marks indicate 'Yes' answers.

Part IV Checklist of Required Schedules (continued)

Table with 3 columns: Question ID, Description, and Yes/No columns. Rows include questions 22 through 38 regarding organizational reporting, compensation, tax-exempt bonds, and business transactions.

Part V Statements Regarding Other IRS Filings and Tax Compliance

Check if Schedule O contains a response or note to any line in this Part V

Table with 3 columns: Question ID, Description, and Yes/No columns. Rows include questions 1a, 1b, and 1c regarding Form 1096, Forms W-2G, and backup withholding rules.

Part V Statements Regarding Other IRS Filings and Tax Compliance (continued)

Table with columns for question number, question text, and Yes/No columns. Includes rows for employee counts, tax returns, unrelated business income, foreign accounts, prohibited transactions, and various organizational requirements.

Part VI Governance, Management, and Disclosure. For each "Yes" response to lines 2 through 7b below, and for a "No" response to line 8a, 8b, or 10b below, describe the circumstances, processes, or changes on Schedule O. See instructions.

Check if Schedule O contains a response or note to any line in this Part VI

Section A. Governing Body and Management

		Yes	No
1a	Enter the number of voting members of the governing body at the end of the tax year If there are material differences in voting rights among members of the governing body, or if the governing body delegated broad authority to an executive committee or similar committee, explain on Schedule O.		
1b	Enter the number of voting members included on line 1a, above, who are independent		
2	Did any officer, director, trustee, or key employee have a family relationship or a business relationship with any other officer, director, trustee, or key employee?		X
3	Did the organization delegate control over management duties customarily performed by or under the direct supervision of officers, directors, trustees, or key employees to a management company or other person?		X
4	Did the organization make any significant changes to its governing documents since the prior Form 990 was filed?		X
5	Did the organization become aware during the year of a significant diversion of the organization's assets?		X
6	Did the organization have members or stockholders?		X
7a	Did the organization have members, stockholders, or other persons who had the power to elect or appoint one or more members of the governing body?		X
7b	Are any governance decisions of the organization reserved to (or subject to approval by) members, stockholders, or persons other than the governing body?		X
8	Did the organization contemporaneously document the meetings held or written actions undertaken during the year by the following:		
8a	The governing body?	X	
8b	Each committee with authority to act on behalf of the governing body?	X	
9	Is there any officer, director, trustee, or key employee listed in Part VII, Section A, who cannot be reached at the organization's mailing address? If "Yes," provide the names and addresses on Schedule O		X

Section B. Policies (This Section B requests information about policies not required by the Internal Revenue Code.)

		Yes	No
10a	Did the organization have local chapters, branches, or affiliates?		X
10b	If "Yes," did the organization have written policies and procedures governing the activities of such chapters, affiliates, and branches to ensure their operations are consistent with the organization's exempt purposes?		
11a	Has the organization provided a complete copy of this Form 990 to all members of its governing body before filing the form?	X	
11b	Describe on Schedule O the process, if any, used by the organization to review this Form 990.		
12a	Did the organization have a written conflict of interest policy? If "No," go to line 13	X	
12b	Were officers, directors, or trustees, and key employees required to disclose annually interests that could give rise to conflicts?	X	
12c	Did the organization regularly and consistently monitor and enforce compliance with the policy? If "Yes," describe on Schedule O how this was done	X	
13	Did the organization have a written whistleblower policy?	X	
14	Did the organization have a written document retention and destruction policy?	X	
15	Did the process for determining compensation of the following persons include a review and approval by independent persons, comparability data, and contemporaneous substantiation of the deliberation and decision?		
15a	The organization's CEO, Executive Director, or top management official	X	
15b	Other officers or key employees of the organization If "Yes" to line 15a or 15b, describe the process on Schedule O. See instructions.		X
16a	Did the organization invest in, contribute assets to, or participate in a joint venture or similar arrangement with a taxable entity during the year?		X
16b	If "Yes," did the organization follow a written policy or procedure requiring the organization to evaluate its participation in joint venture arrangements under applicable federal tax law, and take steps to safeguard the organization's exempt status with respect to such arrangements?		

Section C. Disclosure

- 17** List the states with which a copy of this Form 990 is required to be filed NONE
- 18** Section 6104 requires an organization to make its Forms 1023 (1024 or 1024-A, if applicable), 990, and 990-T (section 501(c)(3)s only) available for public inspection. Indicate how you made these available. Check all that apply.
 Own website Another's website Upon request Other (explain on Schedule O)
- 19** Describe on Schedule O whether (and if so, how) the organization made its governing documents, conflict of interest policy, and financial statements available to the public during the tax year.
- 20** State the name, address, and telephone number of the person who possesses the organization's books and records
ANNE LABRUZZO - 928-233-3239
1400 W. MARS HILL ROAD, FLAGSTAFF, AZ 86001-4470

Part VII Compensation of Officers, Directors, Trustees, Key Employees, Highest Compensated Employees, and Independent Contractors

Check if Schedule O contains a response or note to any line in this Part VII

Section A. Officers, Directors, Trustees, Key Employees, and Highest Compensated Employees

1a Complete this table for all persons required to be listed. Report compensation for the calendar year ending with or within the organization's tax year.

- List all of the organization's **current** officers, directors, trustees (whether individuals or organizations), regardless of amount of compensation. Enter -0- in columns (D), (E), and (F) if no compensation was paid.
 - List all of the organization's **current** key employees, if any. See the instructions for definition of "key employee."
 - List the organization's five **current** highest compensated employees (other than an officer, director, trustee, or key employee) who received reportable compensation (box 5 of Form W-2, box 6 of Form 1099-MISC, and/or box 1 of Form 1099-NEC) of more than \$100,000 from the organization and any related organizations.
 - List all of the organization's **former** officers, key employees, and highest compensated employees who received more than \$100,000 of reportable compensation from the organization and any related organizations.
 - List all of the organization's **former directors or trustees** that received, in the capacity as a former director or trustee of the organization, more than \$10,000 of reportable compensation from the organization and any related organizations.
- See the instructions for the order in which to list the persons above.

Check this box if neither the organization nor any related organization compensated any current officer, director, or trustee.

(A) Name and title	(B) Average hours per week (list any hours for related organizations below line)	(C) Position (do not check more than one box, unless person is both an officer and a director/trustee)						(D) Reportable compensation from the organization (W-2/1099-MISC/1099-NEC)	(E) Reportable compensation from related organizations (W-2/1099-MISC/1099-NEC)	(F) Estimated amount of other compensation from the organization and related organizations
		Individual trustee or director	Institutional trustee	Officer	Key employee	Highest compensated employee	Former			
(1) HALL, JEFFREY EXECUTIVE DIRECTOR	40.00			X			189,691.	0.	24,136.	
(2) KELLER, CHRISTOPH DIRECTOR OF SCIENCE	40.00				X		183,459.	0.	20,491.	
(3) MASSEY, PHILIP ASTRONOMER	40.00					X	171,961.	0.	16,634.	
(4) HUNTER, DEIDRE ASTRONOMER	40.00					X	166,871.	0.	20,563.	
(5) ACTOR, ANN CHIEF PHILANTHROPY OFFICER	38.00 2.00				X		166,065.	0.	17,576.	
(6) LABRUZZO, ANNE CHIEF FINANCIAL OFFICER	36.00 4.00			X			156,024.	0.	21,843.	
(7) WEST, MICHAEL ASTRONOMER	40.00					X	167,600.	0.	9,618.	
(8) LEVINE, STEPHEN ASTRONOMER	40.00					X	158,502.	0.	17,386.	
(9) BOSH, AMANDA CHIEF OPERATIONS OFFICER	40.00				X		151,518.	0.	21,136.	
(10) SAWYER, DAVID TECHNICAL PROJECT MANAGER	40.00					X	151,340.	0.	15,955.	
(11) PUTNAM, W. LOWELL TRUSTEE	30.00 4.00	X		X			6.	0.	12,486.	

Part VII Section A. Officers, Directors, Trustees, Key Employees, and Highest Compensated Employees (continued)

(A) Name and title	(B) Average hours per week (list any hours for related organizations below line)	(C) Position (do not check more than one box, unless person is both an officer and a director/trustee)						(D) Reportable compensation from the organization (W-2/1099-MISC/1099-NEC)	(E) Reportable compensation from related organizations (W-2/1099-MISC/1099-NEC)	(F) Estimated amount of other compensation from the organization and related organizations
		Individual trustee or director	Institutional trustee	Officer	Key employee	Highest compensated employee	Former			
1b Subtotal							1,663,037.	0.	197,824.	
c Total from continuation sheets to Part VII, Section A							0.	0.	0.	
d Total (add lines 1b and 1c)							1,663,037.	0.	197,824.	

2 Total number of individuals (including but not limited to those listed above) who received more than \$100,000 of reportable compensation from the organization 26

	Yes	No
3 Did the organization list any former officer, director, trustee, key employee, or highest compensated employee on line 1a? <i>If "Yes," complete Schedule J for such individual</i>		X
4 For any individual listed on line 1a, is the sum of reportable compensation and other compensation from the organization and related organizations greater than \$150,000? <i>If "Yes," complete Schedule J for such individual</i>	X	
5 Did any person listed on line 1a receive or accrue compensation from any unrelated organization or individual for services rendered to the organization? <i>If "Yes," complete Schedule J for such person</i>		X

Section B. Independent Contractors

1 Complete this table for your five highest compensated independent contractors that received more than \$100,000 of compensation from the organization. Report compensation for the calendar year ending with or within the organization's tax year.

(A) Name and business address	(B) Description of services	(C) Compensation
BUILDING & ENGINEERING CONTRACTORS SOUTHWES P.O. BOX 30458, FLAGSTAFF, AZ 86003	CONSTRUCTION	5,369,598.
SOUTHWEST RESEARCH INSTITUTE, 1050 WALNUT STREET, SUITE 300, BOULDER, CO 80302	CONSULTING	625,000.
JOHNSON WALZER ASSOCIATES, LLC, 17 N. SAN FRANCISCO STREET, SUITE 3A, FLAGSTAFF, AZ	CONSTRUCTION	624,800.
HART SCIENTIFIC CONSULTING INTERNATIONAL, L 2002 N. FORBES BLVD. #102, TUCSON, AZ 85745	CONSULTING	502,112.
NORTHERN ARIZONA UNIVERSITY PO BOX 4080, FLAGSTAFF, AZ 86011-4070	CONSULTING	339,586.

2 Total number of independent contractors (including but not limited to those listed above) who received more than \$100,000 of compensation from the organization 12

Part VIII Statement of Revenue

Check if Schedule O contains a response or note to any line in this Part VIII

			(A)	(B)	(C)	(D)		
			Total revenue	Related or exempt function revenue	Unrelated business revenue	Revenue excluded from tax under sections 512 - 514		
Contributions, Gifts, Grants and Other Similar Amounts	1 a	Federated campaigns	1a					
	b	Membership dues	1b	364,522.				
	c	Fundraising events	1c					
	d	Related organizations	1d	310,812.				
	e	Government grants (contributions)	1e	7,316,836.				
	f	All other contributions, gifts, grants, and similar amounts not included above ...	1f	4,855,638.				
	g	Noncash contributions included in lines 1a-1f	1g	\$ 36,757.				
	h	Total. Add lines 1a-1f		12,847,808.				
	Program Service Revenue	2 a	RESEARCH - GOVERNMENT CONTRACTS	Business Code	541700	2,511,002.	2,511,002.	
b		EDUCATIONAL PROGRAMS		611600	1,742,401.	1,742,401.		
c		TELESCOPE ACCESS FEES		541700	1,650,395.	1,650,395.		
d								
e								
f		All other program service revenue						
g		Total. Add lines 2a-2f			5,903,798.			
Other Revenue	3	Investment income (including dividends, interest, and other similar amounts)		43,412.			43,412.	
	4	Income from investment of tax-exempt bond proceeds						
	5	Royalties						
	6 a	Gross rents	6a	(i) Real				
				(ii) Personal				
	b	Less: rental expenses ...	6b					
	c	Rental income or (loss)	6c					
	d	Net rental income or (loss)						
	7 a	Gross amount from sales of assets other than inventory	7a	(i) Securities	351,415.	2,000.		
				(ii) Other				
					1,643.	0.		
					349,772.	2,000.		
b	Less: cost or other basis and sales expenses	7b						
c	Gain or (loss)	7c						
d	Net gain or (loss)			351,772.		351,772.		
8 a	Gross income from fundraising events (not including \$ _____ of contributions reported on line 1c). See Part IV, line 18	8a						
b	Less: direct expenses	8b						
c	Net income or (loss) from fundraising events							
9 a	Gross income from gaming activities. See Part IV, line 19	9a						
b	Less: direct expenses	9b						
c	Net income or (loss) from gaming activities							
10 a	Gross sales of inventory, less returns and allowances	10a		685,833.				
				320,062.				
b	Less: cost of goods sold	10b						
c	Net income or (loss) from sales of inventory			365,771.	365,771.			
Miscellaneous Revenue	11 a	MISCELLANEOUS INCOME	Business Code	900099	522,604.	522,604.		
	b							
	c							
	d	All other revenue						
	e	Total. Add lines 11a-11d			522,604.			
12	Total revenue. See instructions			20,035,165.	6,792,173.	0.	395,184.	

Part IX Statement of Functional Expenses

Section 501(c)(3) and 501(c)(4) organizations must complete all columns. All other organizations must complete column (A).

Check if Schedule O contains a response or note to any line in this Part IX

Do not include amounts reported on lines 6b, 7b, 8b, 9b, and 10b of Part VIII.	(A) Total expenses	(B) Program service expenses	(C) Management and general expenses	(D) Fundraising expenses
1 Grants and other assistance to domestic organizations and domestic governments. See Part IV, line 21	539,475.	539,475.		
2 Grants and other assistance to domestic individuals. See Part IV, line 22				
3 Grants and other assistance to foreign organizations, foreign governments, and foreign individuals. See Part IV, lines 15 and 16				
4 Benefits paid to or for members				
5 Compensation of current officers, directors, trustees, and key employees	369,702.	30,257.	284,983.	54,462.
6 Compensation not included above to disqualified persons (as defined under section 4958(f)(1)) and persons described in section 4958(c)(3)(B)				
7 Other salaries and wages	8,813,558.	7,327,340.	546,670.	939,548.
8 Pension plan accruals and contributions (include section 401(k) and 403(b) employer contributions)	382,934.	329,534.	14,955.	38,445.
9 Other employee benefits	945,206.	777,402.	72,123.	95,681.
10 Payroll taxes	664,223.	548,146.	47,946.	68,131.
11 Fees for services (nonemployees):				
a Management				
b Legal	105,430.	8,788.	96,642.	
c Accounting	59,500.		59,500.	
d Lobbying				
e Professional fundraising services. See Part IV, line 17				
f Investment management fees	7,164.		7,164.	
g Other. (If line 11g amount exceeds 10% of line 25, column (A), amount, list line 11g expenses on Sch O.)	1,093,509.	927,669.	131,983.	33,857.
12 Advertising and promotion	130,876.	100,364.	983.	29,529.
13 Office expenses	572,773.	185,348.	334,559.	52,866.
14 Information technology	339,176.	224,923.	21,768.	92,485.
15 Royalties				
16 Occupancy	798,896.	726,705.	53,630.	18,561.
17 Travel	314,595.	219,325.	31,631.	63,639.
18 Payments of travel or entertainment expenses for any federal, state, or local public officials				
19 Conferences, conventions, and meetings	86,219.	18,250.	29,049.	38,920.
20 Interest	127,338.	78,591.	48,747.	
21 Payments to affiliates				
22 Depreciation, depletion, and amortization	2,108,108.	2,048,424.	43,490.	16,194.
23 Insurance	927,034.	914,530.	8,428.	4,076.
24 Other expenses. Itemize expenses not covered above. (List miscellaneous expenses on line 24e. If line 24e amount exceeds 10% of line 25, column (A), amount, list line 24e expenses on Schedule O.)				
a REPAIRS AND MAINTENANCE	319,470.	301,351.	15,491.	2,628.
b TRAINING AND DEVELOPMEN	196,252.	48,677.	135,678.	11,897.
c DUES AND SUBSCRIPTIONS	151,394.	120,598.	29,981.	815.
d EE RECRUITMENT AND RELO	87,285.	74,409.	11,459.	1,417.
e All other expenses	48,012.	32,614.	946.	14,452.
25 Total functional expenses. Add lines 1 through 24e	19,188,129.	15,582,720.	2,027,806.	1,577,603.
26 Joint costs. Complete this line only if the organization reported in column (B) joint costs from a combined educational campaign and fundraising solicitation. Check here <input type="checkbox"/> if following SOP 98-2 (ASC 958-720)				

Part X Balance Sheet

Check if Schedule O contains a response or note to any line in this Part X

		(A)		(B)
		Beginning of year		End of year
Assets	1 Cash - non-interest-bearing	745,834.	1	631,675.
	2 Savings and temporary cash investments	2,040,168.	2	4,653,683.
	3 Pledges and grants receivable, net	14,701,016.	3	13,547,874.
	4 Accounts receivable, net	181,973.	4	212,201.
	5 Loans and other receivables from any current or former officer, director, trustee, key employee, creator or founder, substantial contributor, or 35% controlled entity or family member of any of these persons		5	
	6 Loans and other receivables from other disqualified persons (as defined under section 4958(f)(1)), and persons described in section 4958(c)(3)(B)		6	
	7 Notes and loans receivable, net		7	
	8 Inventories for sale or use	93,258.	8	104,363.
	9 Prepaid expenses and deferred charges	416,687.	9	2,216,971.
	10a Land, buildings, and equipment: cost or other basis. Complete Part VI of Schedule D	10a 85,439,753.		
	b Less: accumulated depreciation	10b 28,553,647.	10c	56,886,106.
	11 Investments - publicly traded securities	9,610,716.	11	0.
	12 Investments - other securities. See Part IV, line 11		12	
	13 Investments - program-related. See Part IV, line 11		13	
	14 Intangible assets	344,555.	14	199,310.
	15 Other assets. See Part IV, line 11	439,958.	15	524,478.
16 Total assets. Add lines 1 through 15 (must equal line 33)	78,377,713.	16	78,976,661.	
Liabilities	17 Accounts payable and accrued expenses	781,238.	17	807,191.
	18 Grants payable		18	
	19 Deferred revenue	6,649,176.	19	7,033,706.
	20 Tax-exempt bond liabilities		20	
	21 Escrow or custodial account liability. Complete Part IV of Schedule D		21	
	22 Loans and other payables to any current or former officer, director, trustee, key employee, creator or founder, substantial contributor, or 35% controlled entity or family member of any of these persons		22	
	23 Secured mortgages and notes payable to unrelated third parties	6,025,971.	23	2,000,000.
	24 Unsecured notes and loans payable to unrelated third parties		24	
	25 Other liabilities (including federal income tax, payables to related third parties, and other liabilities not included on lines 17-24). Complete Part X of Schedule D	12,052,466.	25	13,547,382.
	26 Total liabilities. Add lines 17 through 25	25,508,851.	26	23,388,279.
Net Assets or Fund Balances	Organizations that follow FASB ASC 958, check here <input checked="" type="checkbox"/> and complete lines 27, 28, 32, and 33.			
	27 Net assets without donor restrictions	27,038,021.	27	34,560,307.
	28 Net assets with donor restrictions	25,830,841.	28	21,028,075.
	Organizations that do not follow FASB ASC 958, check here <input type="checkbox"/> and complete lines 29 through 33.			
	29 Capital stock or trust principal, or current funds		29	
	30 Paid-in or capital surplus, or land, building, or equipment fund		30	
	31 Retained earnings, endowment, accumulated income, or other funds		31	
	32 Total net assets or fund balances	52,868,862.	32	55,588,382.
	33 Total liabilities and net assets/fund balances	78,377,713.	33	78,976,661.

Part XI Reconciliation of Net Assets

Check if Schedule O contains a response or note to any line in this Part XI

1	Total revenue (must equal Part VIII, column (A), line 12)	1	20,035,165.
2	Total expenses (must equal Part IX, column (A), line 25)	2	19,188,129.
3	Revenue less expenses. Subtract line 2 from line 1	3	847,036.
4	Net assets or fund balances at beginning of year (must equal Part X, line 32, column (A))	4	52,868,862.
5	Net unrealized gains (losses) on investments	5	-283,323.
6	Donated services and use of facilities	6	
7	Investment expenses	7	
8	Prior period adjustments	8	2,155,807.
9	Other changes in net assets or fund balances (explain on Schedule O)	9	0.
10	Net assets or fund balances at end of year. Combine lines 3 through 9 (must equal Part X, line 32, column (B))	10	55,588,382.

Part XII Financial Statements and Reporting

Check if Schedule O contains a response or note to any line in this Part XII

- 1 Accounting method used to prepare the Form 990: Cash Accrual Other _____
If the organization changed its method of accounting from a prior year or checked "Other," explain on Schedule O.
- 2a Were the organization's financial statements compiled or reviewed by an independent accountant?
If "Yes," check a box below to indicate whether the financial statements for the year were compiled or reviewed on a separate basis, consolidated basis, or both:
 Separate basis Consolidated basis Both consolidated and separate basis
- b Were the organization's financial statements audited by an independent accountant?
If "Yes," check a box below to indicate whether the financial statements for the year were audited on a separate basis, consolidated basis, or both:
 Separate basis Consolidated basis Both consolidated and separate basis
- c If "Yes" to line 2a or 2b, does the organization have a committee that assumes responsibility for oversight of the audit, review, or compilation of its financial statements and selection of an independent accountant?
If the organization changed either its oversight process or selection process during the tax year, explain on Schedule O.
- 3a As a result of a federal award, was the organization required to undergo an audit or audits as set forth in the Uniform Guidance, 2 C.F.R. Part 200, Subpart F?
- b If "Yes," did the organization undergo the required audit or audits? If the organization did not undergo the required audit or audits, explain why on Schedule O and describe any steps taken to undergo such audits

	Yes	No
1		
2a		X
2b	X	
2c	X	
3a	X	
3b	X	

Form 990 (2022)

SCHEDULE A
(Form 990)

Department of the Treasury
Internal Revenue Service

Public Charity Status and Public Support

Complete if the organization is a section 501(c)(3) organization or a section 4947(a)(1) nonexempt charitable trust. Attach to Form 990 or Form 990-EZ.

Go to www.irs.gov/Form990 for instructions and the latest information.

OMB No. 1545-0047

2022

Open to Public Inspection

Name of the organization: LOWELL OBSERVATORY
Employer identification number: 86-0098918

Part I Reason for Public Charity Status. (All organizations must complete this part.) See instructions.

The organization is not a private foundation because it is: (For lines 1 through 12, check only one box.)

- 1 A church, convention of churches, or association of churches described in section 170(b)(1)(A)(i).
2 A school described in section 170(b)(1)(A)(ii).
3 A hospital or a cooperative hospital service organization described in section 170(b)(1)(A)(iii).
4 A medical research organization operated in conjunction with a hospital described in section 170(b)(1)(A)(iii).
5 An organization operated for the benefit of a college or university owned or operated by a governmental unit described in section 170(b)(1)(A)(iv).
6 A federal, state, or local government or governmental unit described in section 170(b)(1)(A)(v).
7 X An organization that normally receives a substantial part of its support from a governmental unit or from the general public described in section 170(b)(1)(A)(vi).
8 A community trust described in section 170(b)(1)(A)(vi).
9 An agricultural research organization described in section 170(b)(1)(A)(ix) operated in conjunction with a land-grant college or university or a non-land-grant college of agriculture.
10 An organization that normally receives (1) more than 33 1/3% of its support from contributions, membership fees, and gross receipts from activities related to its exempt functions...
11 An organization organized and operated exclusively to test for public safety.
12 An organization organized and operated exclusively for the benefit of, to perform the functions of, or to carry out the purposes of one or more publicly supported organizations described in section 509(a)(1) or section 509(a)(2).
a Type I. A supporting organization operated, supervised, or controlled by its supported organization(s)...
b Type II. A supporting organization supervised or controlled in connection with its supported organization(s)...
c Type III functionally integrated. A supporting organization operated in connection with, and functionally integrated with, its supported organization(s)...
d Type III non-functionally integrated. A supporting organization operated in connection with its supported organization(s) that is not functionally integrated...
e Check this box if the organization received a written determination from the IRS that it is a Type I, Type II, Type III functionally integrated, or Type III non-functionally integrated supporting organization.

f Enter the number of supported organizations
g Provide the following information about the supported organization(s).

Table with 6 columns: (i) Name of supported organization, (ii) EIN, (iii) Type of organization, (iv) Is the organization listed in your governing document?, (v) Amount of monetary support, (vi) Amount of other support. Includes a Total row at the bottom.

Part II Support Schedule for Organizations Described in Sections 170(b)(1)(A)(iv) and 170(b)(1)(A)(vi)

(Complete only if you checked the box on line 5, 7, or 8 of Part I or if the organization failed to qualify under Part III. If the organization fails to qualify under the tests listed below, please complete Part III.)

Section A. Public Support

Calendar year (or fiscal year beginning in)	(a) 2018	(b) 2019	(c) 2020	(d) 2021	(e) 2022	(f) Total
1 Gifts, grants, contributions, and membership fees received. (Do not include any "unusual grants.")	11300816.	22432053.	12195142.	16708119.	12847808.	75483938.
2 Tax revenues levied for the organization's benefit and either paid to or expended on its behalf						
3 The value of services or facilities furnished by a governmental unit to the organization without charge	121,000.	122,000.	123,000.	124,000.	125,000.	615,000.
4 Total. Add lines 1 through 3	11421816.	22554053.	12318142.	16832119.	12972808.	76098938.
5 The portion of total contributions by each person (other than a governmental unit or publicly supported organization) included on line 1 that exceeds 2% of the amount shown on line 11, column (f)						21933441.
6 Public support. Subtract line 5 from line 4.						54165497.

Section B. Total Support

Calendar year (or fiscal year beginning in)	(a) 2018	(b) 2019	(c) 2020	(d) 2021	(e) 2022	(f) Total
7 Amounts from line 4	11421816.	22554053.	12318142.	16832119.	12972808.	76098938.
8 Gross income from interest, dividends, payments received on securities loans, rents, royalties, and income from similar sources	2,268.	9,825.	12,208.	14,004.	43,412.	81,717.
9 Net income from unrelated business activities, whether or not the business is regularly carried on						
10 Other income. Do not include gain or loss from the sale of capital assets (Explain in Part VI.)						
11 Total support. Add lines 7 through 10						76180655.
12 Gross receipts from related activities, etc. (see instructions)					12	27,131,683.
13 First 5 years. If the Form 990 is for the organization's first, second, third, fourth, or fifth tax year as a section 501(c)(3) organization, check this box and stop here						<input type="checkbox"/>

Section C. Computation of Public Support Percentage

14 Public support percentage for 2022 (line 6, column (f), divided by line 11, column (f))	14	71.10	%
15 Public support percentage from 2021 Schedule A, Part II, line 14	15	74.16	%
16a 33 1/3% support test - 2022. If the organization did not check the box on line 13, and line 14 is 33 1/3% or more, check this box and stop here. The organization qualifies as a publicly supported organization			<input checked="" type="checkbox"/>
b 33 1/3% support test - 2021. If the organization did not check a box on line 13 or 16a, and line 15 is 33 1/3% or more, check this box and stop here. The organization qualifies as a publicly supported organization			<input type="checkbox"/>
17a 10% -facts-and-circumstances test - 2022. If the organization did not check a box on line 13, 16a, or 16b, and line 14 is 10% or more, and if the organization meets the facts-and-circumstances test, check this box and stop here. Explain in Part VI how the organization meets the facts-and-circumstances test. The organization qualifies as a publicly supported organization			<input type="checkbox"/>
b 10% -facts-and-circumstances test - 2021. If the organization did not check a box on line 13, 16a, 16b, or 17a, and line 15 is 10% or more, and if the organization meets the facts-and-circumstances test, check this box and stop here. Explain in Part VI how the organization meets the facts-and-circumstances test. The organization qualifies as a publicly supported organization			<input type="checkbox"/>
18 Private foundation. If the organization did not check a box on line 13, 16a, 16b, 17a, or 17b, check this box and see instructions			<input type="checkbox"/>

Part III Support Schedule for Organizations Described in Section 509(a)(2)

(Complete only if you checked the box on line 10 of Part I or if the organization failed to qualify under Part II. If the organization fails to qualify under the tests listed below, please complete Part II.)

Section A. Public Support

Table with 7 columns: (a) 2018, (b) 2019, (c) 2020, (d) 2021, (e) 2022, (f) Total. Rows include: 1 Gifts, grants, contributions, and membership fees received; 2 Gross receipts from admissions, merchandise sold or services performed; 3 Gross receipts from activities that are not an unrelated trade or business; 4 Tax revenues levied for the organization's benefit; 5 The value of services or facilities furnished by a governmental unit; 6 Total. Add lines 1 through 5; 7a Amounts included on lines 1, 2, and 3 received from disqualified persons; 7b Amounts included on lines 2 and 3 received from other than disqualified persons; 8 Public support. (Subtract line 7c from line 6.)

Section B. Total Support

Table with 7 columns: (a) 2018, (b) 2019, (c) 2020, (d) 2021, (e) 2022, (f) Total. Rows include: 9 Amounts from line 6; 10a Gross income from interest, dividends, payments received on securities loans, rents, royalties, and income from similar sources; 10b Unrelated business taxable income (less section 511 taxes) from businesses acquired after June 30, 1975; 10c Add lines 10a and 10b; 11 Net income from unrelated business activities not included on line 10b, whether or not the business is regularly carried on; 12 Other income. Do not include gain or loss from the sale of capital assets (Explain in Part VI.); 13 Total support. (Add lines 9, 10c, 11, and 12.)

14 First 5 years. If the Form 990 is for the organization's first, second, third, fourth, or fifth tax year as a section 501(c)(3) organization, check this box and stop here

Section C. Computation of Public Support Percentage

Table with 2 columns: Description, Percentage. Row 15: Public support percentage for 2022 (line 8, column (f), divided by line 13, column (f)) 15 %; Row 16: Public support percentage from 2021 Schedule A, Part III, line 15 16 %

Section D. Computation of Investment Income Percentage

Table with 2 columns: Description, Percentage. Row 17: Investment income percentage for 2022 (line 10c, column (f), divided by line 13, column (f)) 17 %; Row 18: Investment income percentage from 2021 Schedule A, Part III, line 17 18 %

19a 33 1/3% support tests - 2022. If the organization did not check the box on line 14, and line 15 is more than 33 1/3%, and line 17 is not more than 33 1/3%, check this box and stop here. The organization qualifies as a publicly supported organization

b 33 1/3% support tests - 2021. If the organization did not check a box on line 14 or line 19a, and line 16 is more than 33 1/3%, and line 18 is not more than 33 1/3%, check this box and stop here. The organization qualifies as a publicly supported organization

20 Private foundation. If the organization did not check a box on line 14, 19a, or 19b, check this box and see instructions

Part IV Supporting Organizations

(Complete only if you checked a box on line 12 of Part I. If you checked box 12a, Part I, complete Sections A and B. If you checked box 12b, Part I, complete Sections A and C. If you checked box 12c, Part I, complete Sections A, D, and E. If you checked box 12d, Part I, complete Sections A and D, and complete Part V.)

Section A. All Supporting Organizations

	Yes	No
1 Are all of the organization's supported organizations listed by name in the organization's governing documents? <i>If "No," describe in Part VI how the supported organizations are designated. If designated by class or purpose, describe the designation. If historic and continuing relationship, explain.</i>		
2 Did the organization have any supported organization that does not have an IRS determination of status under section 509(a)(1) or (2)? <i>If "Yes," explain in Part VI how the organization determined that the supported organization was described in section 509(a)(1) or (2).</i>		
3a Did the organization have a supported organization described in section 501(c)(4), (5), or (6)? <i>If "Yes," answer lines 3b and 3c below.</i>		
b Did the organization confirm that each supported organization qualified under section 501(c)(4), (5), or (6) and satisfied the public support tests under section 509(a)(2)? <i>If "Yes," describe in Part VI when and how the organization made the determination.</i>		
c Did the organization ensure that all support to such organizations was used exclusively for section 170(c)(2)(B) purposes? <i>If "Yes," explain in Part VI what controls the organization put in place to ensure such use.</i>		
4a Was any supported organization not organized in the United States ("foreign supported organization")? <i>If "Yes," and if you checked box 12a or 12b in Part I, answer lines 4b and 4c below.</i>		
b Did the organization have ultimate control and discretion in deciding whether to make grants to the foreign supported organization? <i>If "Yes," describe in Part VI how the organization had such control and discretion despite being controlled or supervised by or in connection with its supported organizations.</i>		
c Did the organization support any foreign supported organization that does not have an IRS determination under sections 501(c)(3) and 509(a)(1) or (2)? <i>If "Yes," explain in Part VI what controls the organization used to ensure that all support to the foreign supported organization was used exclusively for section 170(c)(2)(B) purposes.</i>		
5a Did the organization add, substitute, or remove any supported organizations during the tax year? <i>If "Yes," answer lines 5b and 5c below (if applicable). Also, provide detail in Part VI, including (i) the names and EIN numbers of the supported organizations added, substituted, or removed; (ii) the reasons for each such action; (iii) the authority under the organization's organizing document authorizing such action; and (iv) how the action was accomplished (such as by amendment to the organizing document).</i>		
b Type I or Type II only. Was any added or substituted supported organization part of a class already designated in the organization's organizing document?		
c Substitutions only. Was the substitution the result of an event beyond the organization's control?		
6 Did the organization provide support (whether in the form of grants or the provision of services or facilities) to anyone other than (i) its supported organizations, (ii) individuals that are part of the charitable class benefited by one or more of its supported organizations, or (iii) other supporting organizations that also support or benefit one or more of the filing organization's supported organizations? <i>If "Yes," provide detail in Part VI.</i>		
7 Did the organization provide a grant, loan, compensation, or other similar payment to a substantial contributor (as defined in section 4958(c)(3)(C)), a family member of a substantial contributor, or a 35% controlled entity with regard to a substantial contributor? <i>If "Yes," complete Part I of Schedule L (Form 990).</i>		
8 Did the organization make a loan to a disqualified person (as defined in section 4958) not described on line 7? <i>If "Yes," complete Part I of Schedule L (Form 990).</i>		
9a Was the organization controlled directly or indirectly at any time during the tax year by one or more disqualified persons, as defined in section 4946 (other than foundation managers and organizations described in section 509(a)(1) or (2))? <i>If "Yes," provide detail in Part VI.</i>		
b Did one or more disqualified persons (as defined on line 9a) hold a controlling interest in any entity in which the supporting organization had an interest? <i>If "Yes," provide detail in Part VI.</i>		
c Did a disqualified person (as defined on line 9a) have an ownership interest in, or derive any personal benefit from, assets in which the supporting organization also had an interest? <i>If "Yes," provide detail in Part VI.</i>		
10a Was the organization subject to the excess business holdings rules of section 4943 because of section 4943(f) (regarding certain Type II supporting organizations, and all Type III non-functionally integrated supporting organizations)? <i>If "Yes," answer line 10b below.</i>		
b Did the organization have any excess business holdings in the tax year? <i>(Use Schedule C, Form 4720, to determine whether the organization had excess business holdings.)</i>		

Part IV Supporting Organizations (continued)

Table with 3 columns: Question, Yes, No. Row 11: Has the organization accepted a gift or contribution from any of the following persons? Sub-rows 11a, 11b, 11c.

Section B. Type I Supporting Organizations

Table with 3 columns: Question, Yes, No. Row 1: Did the governing body, members of the governing body, officers acting in their official capacity, or membership of one or more supported organizations have the power to regularly appoint or elect at least a majority of the organization's officers, directors, or trustees at all times during the tax year? Row 2: Did the organization operate for the benefit of any supported organization other than the supported organization(s) that operated, supervised, or controlled the supporting organization?

Section C. Type II Supporting Organizations

Table with 3 columns: Question, Yes, No. Row 1: Were a majority of the organization's directors or trustees during the tax year also a majority of the directors or trustees of each of the organization's supported organization(s)?

Section D. All Type III Supporting Organizations

Table with 3 columns: Question, Yes, No. Row 1: Did the organization provide to each of its supported organizations, by the last day of the fifth month of the organization's tax year, (i) a written notice describing the type and amount of support provided during the prior tax year, (ii) a copy of the Form 990 that was most recently filed as of the date of notification, and (iii) copies of the organization's governing documents in effect on the date of notification, to the extent not previously provided? Row 2: Were any of the organization's officers, directors, or trustees either (i) appointed or elected by the supported organization(s) or (ii) serving on the governing body of a supported organization? Row 3: By reason of the relationship described on line 2, above, did the organization's supported organizations have a significant voice in the organization's investment policies and in directing the use of the organization's income or assets at all times during the tax year?

Section E. Type III Functionally Integrated Supporting Organizations

Table with 3 columns: Question, Yes, No. Row 1: Check the box next to the method that the organization used to satisfy the Integral Part Test during the year (see instructions). Sub-rows a, b, c. Row 2: Activities Test. Answer lines 2a and 2b below. Sub-rows a, b. Row 3: Parent of Supported Organizations. Answer lines 3a and 3b below. Sub-rows a, b.

Part V Type III Non-Functionally Integrated 509(a)(3) Supporting Organizations

1 Check here if the organization satisfied the Integral Part Test as a qualifying trust on Nov. 20, 1970 (*explain in Part VI*). See instructions.
All other Type III non-functionally integrated supporting organizations must complete Sections A through E.

Section A - Adjusted Net Income		(A) Prior Year	(B) Current Year (optional)
1	Net short-term capital gain	1	
2	Recoveries of prior-year distributions	2	
3	Other gross income (see instructions)	3	
4	Add lines 1 through 3.	4	
5	Depreciation and depletion	5	
6	Portion of operating expenses paid or incurred for production or collection of gross income or for management, conservation, or maintenance of property held for production of income (see instructions)	6	
7	Other expenses (see instructions)	7	
8	Adjusted Net Income (subtract lines 5, 6, and 7 from line 4)	8	

Section B - Minimum Asset Amount		(A) Prior Year	(B) Current Year (optional)
1	Aggregate fair market value of all non-exempt-use assets (see instructions for short tax year or assets held for part of year):		
a	Average monthly value of securities	1a	
b	Average monthly cash balances	1b	
c	Fair market value of other non-exempt-use assets	1c	
d	Total (add lines 1a, 1b, and 1c)	1d	
e	Discount claimed for blockage or other factors (<i>explain in detail in Part VI</i>):		
2	Acquisition indebtedness applicable to non-exempt-use assets	2	
3	Subtract line 2 from line 1d.	3	
4	Cash deemed held for exempt use. Enter 0.015 of line 3 (for greater amount, see instructions).	4	
5	Net value of non-exempt-use assets (subtract line 4 from line 3)	5	
6	Multiply line 5 by 0.035.	6	
7	Recoveries of prior-year distributions	7	
8	Minimum Asset Amount (add line 7 to line 6)	8	

Section C - Distributable Amount			Current Year
1	Adjusted net income for prior year (from Section A, line 8, column A)	1	
2	Enter 0.85 of line 1.	2	
3	Minimum asset amount for prior year (from Section B, line 8, column A)	3	
4	Enter greater of line 2 or line 3.	4	
5	Income tax imposed in prior year	5	
6	Distributable Amount. Subtract line 5 from line 4, unless subject to emergency temporary reduction (see instructions).	6	
7	<input type="checkbox"/> Check here if the current year is the organization's first as a non-functionally integrated Type III supporting organization (see instructions).		

Part V Type III Non-Functionally Integrated 509(a)(3) Supporting Organizations (continued)

Section D - Distributions		Current Year
1	Amounts paid to supported organizations to accomplish exempt purposes	1
2	Amounts paid to perform activity that directly furthers exempt purposes of supported organizations, in excess of income from activity	2
3	Administrative expenses paid to accomplish exempt purposes of supported organizations	3
4	Amounts paid to acquire exempt-use assets	4
5	Qualified set-aside amounts (prior IRS approval required - <i>provide details in Part VI</i>)	5
6	Other distributions (<i>describe in Part VI</i>). See instructions.	6
7	Total annual distributions. Add lines 1 through 6.	7
8	Distributions to attentive supported organizations to which the organization is responsive (<i>provide details in Part VI</i>). See instructions.	8
9	Distributable amount for 2022 from Section C, line 6	9
10	Line 8 amount divided by line 9 amount	10

Section E - Distribution Allocations (see instructions)	(i) Excess Distributions	(ii) Underdistributions Pre-2022	(iii) Distributable Amount for 2022
1 Distributable amount for 2022 from Section C, line 6			
2 Underdistributions, if any, for years prior to 2022 (reasonable cause required - <i>explain in Part VI</i>). See instructions.			
3 Excess distributions carryover, if any, to 2022			
a From 2017			
b From 2018			
c From 2019			
d From 2020			
e From 2021			
f Total of lines 3a through 3e			
g Applied to underdistributions of prior years			
h Applied to 2022 distributable amount			
i Carryover from 2017 not applied (see instructions)			
j Remainder. Subtract lines 3g, 3h, and 3i from line 3f.			
4 Distributions for 2022 from Section D, line 7: \$			
a Applied to underdistributions of prior years			
b Applied to 2022 distributable amount			
c Remainder. Subtract lines 4a and 4b from line 4.			
5 Remaining underdistributions for years prior to 2022, if any. Subtract lines 3g and 4a from line 2. For result greater than zero, <i>explain in Part VI</i> . See instructions.			
6 Remaining underdistributions for 2022. Subtract lines 3h and 4b from line 1. For result greater than zero, <i>explain in Part VI</i> . See instructions.			
7 Excess distributions carryover to 2023. Add lines 3j and 4c.			
8 Breakdown of line 7:			
a Excess from 2018			
b Excess from 2019			
c Excess from 2020			
d Excess from 2021			
e Excess from 2022			

Schedule A (Form 990) 2022

Part VI

Supplemental Information. Provide the explanations required by Part II, line 10; Part II, line 17a or 17b; Part III, line 12; Part IV, Section A, lines 1, 2, 3b, 3c, 4b, 4c, 5a, 6, 9a, 9b, 9c, 11a, 11b, and 11c; Part IV, Section B, lines 1 and 2; Part IV, Section C, line 1; Part IV, Section D, lines 2 and 3; Part IV, Section E, lines 1c, 2a, 2b, 3a, and 3b; Part V, line 1; Part V, Section B, line 1e; Part V, Section D, lines 5, 6, and 8; and Part V, Section E, lines 2, 5, and 6. Also complete this part for any additional information.
(See instructions.)

Multiple horizontal lines for supplemental information.

Schedule B
(Form 990)

Department of the Treasury
Internal Revenue Service

Schedule of Contributors

Attach to Form 990 or Form 990-PF.
Go to www.irs.gov/Form990 for the latest information.

OMB No. 1545-0047

2022

Name of the organization

LOWELL OBSERVATORY

Employer identification number

86-0098918

Organization type (check one):

Filers of:

Section:

Form 990 or 990-EZ

501(c)(3) (enter number) organization

4947(a)(1) nonexempt charitable trust **not** treated as a private foundation

527 political organization

Form 990-PF

501(c)(3) exempt private foundation

4947(a)(1) nonexempt charitable trust treated as a private foundation

501(c)(3) taxable private foundation

Check if your organization is covered by the **General Rule** or a **Special Rule**.

Note: Only a section 501(c)(7), (8), or (10) organization can check boxes for both the General Rule and a Special Rule. See instructions.

General Rule

For an organization filing Form 990, 990-EZ, or 990-PF that received, during the year, contributions totaling \$5,000 or more (in money or property) from any one contributor. Complete Parts I and II. See instructions for determining a contributor's total contributions.

Special Rules

For an organization described in section 501(c)(3) filing Form 990 or 990-EZ that met the 33 1/3% support test of the regulations under sections 509(a)(1) and 170(b)(1)(A)(vi), that checked Schedule A (Form 990), Part II, line 13, 16a, or 16b, and that received from any one contributor, during the year, total contributions of the greater of **(1)** \$5,000; or **(2)** 2% of the amount on (i) Form 990, Part VIII, line 1h; or (ii) Form 990-EZ, line 1. Complete Parts I and II.

For an organization described in section 501(c)(7), (8), or (10) filing Form 990 or 990-EZ that received from any one contributor, during the year, total contributions of more than \$1,000 exclusively for religious, charitable, scientific, literary, or educational purposes, or for the prevention of cruelty to children or animals. Complete Parts I (entering "N/A" in column (b) instead of the contributor name and address), II, and III.

For an organization described in section 501(c)(7), (8), or (10) filing Form 990 or 990-EZ that received from any one contributor, during the year, contributions *exclusively* for religious, charitable, etc., purposes, but no such contributions totaled more than \$1,000. If this box is checked, enter here the total contributions that were received during the year for an *exclusively* religious, charitable, etc., purpose. Don't complete any of the parts unless the **General Rule** applies to this organization because it received *nonexclusively* religious, charitable, etc., contributions totaling \$5,000 or more during the year \$ _____

Caution: An organization that isn't covered by the General Rule and/or the Special Rules doesn't file Schedule B (Form 990), but it **must** answer "No" on Part IV, line 2, of its Form 990; or check the box on line H of its Form 990-EZ or on its Form 990-PF, Part I, line 2, to certify that it doesn't meet the filing requirements of Schedule B (Form 990).

Name of organization LOWELL OBSERVATORY	Employer identification number 86-0098918
---	---

Part I Contributors (see instructions). Use duplicate copies of Part I if additional space is needed.

(a) No.	(b) Name, address, and ZIP + 4	(c) Total contributions	(d) Type of contribution
1	 <hr/> <hr/> <hr/>	\$ <u>1,283,400.</u>	Person <input checked="" type="checkbox"/> Payroll <input type="checkbox"/> Noncash <input type="checkbox"/> (Complete Part II for noncash contributions.)
2	 <hr/> <hr/> <hr/>	\$ <u>5,000,000.</u>	Person <input checked="" type="checkbox"/> Payroll <input type="checkbox"/> Noncash <input type="checkbox"/> (Complete Part II for noncash contributions.)
3	 <hr/> <hr/> <hr/>	\$ <u>950,000.</u>	Person <input checked="" type="checkbox"/> Payroll <input type="checkbox"/> Noncash <input type="checkbox"/> (Complete Part II for noncash contributions.)
4	 <hr/> <hr/> <hr/>	\$ <u>350,000.</u>	Person <input checked="" type="checkbox"/> Payroll <input type="checkbox"/> Noncash <input type="checkbox"/> (Complete Part II for noncash contributions.)
5	 <hr/> <hr/> <hr/>	\$ <u>1,335,924.</u>	Person <input checked="" type="checkbox"/> Payroll <input type="checkbox"/> Noncash <input type="checkbox"/> (Complete Part II for noncash contributions.)
6	 <hr/> <hr/> <hr/>	\$ <u>517,714.</u>	Person <input checked="" type="checkbox"/> Payroll <input type="checkbox"/> Noncash <input type="checkbox"/> (Complete Part II for noncash contributions.)

Name of organization LOWELL OBSERVATORY	Employer identification number 86-0098918
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Part I Contributors (see instructions). Use duplicate copies of Part I if additional space is needed.

(a) No.	(b) Name, address, and ZIP + 4	(c) Total contributions	(d) Type of contribution
7	<hr/> <hr/> <hr/>	\$ <u>310,812.</u>	Person <input checked="" type="checkbox"/> Payroll <input type="checkbox"/> Noncash <input type="checkbox"/> (Complete Part II for noncash contributions.)
_____	<hr/> <hr/> <hr/>	\$ _____	Person <input type="checkbox"/> Payroll <input type="checkbox"/> Noncash <input type="checkbox"/> (Complete Part II for noncash contributions.)
_____	<hr/> <hr/> <hr/>	\$ _____	Person <input type="checkbox"/> Payroll <input type="checkbox"/> Noncash <input type="checkbox"/> (Complete Part II for noncash contributions.)
_____	<hr/> <hr/> <hr/>	\$ _____	Person <input type="checkbox"/> Payroll <input type="checkbox"/> Noncash <input type="checkbox"/> (Complete Part II for noncash contributions.)
_____	<hr/> <hr/> <hr/>	\$ _____	Person <input type="checkbox"/> Payroll <input type="checkbox"/> Noncash <input type="checkbox"/> (Complete Part II for noncash contributions.)
_____	<hr/> <hr/> <hr/>	\$ _____	Person <input type="checkbox"/> Payroll <input type="checkbox"/> Noncash <input type="checkbox"/> (Complete Part II for noncash contributions.)
_____	<hr/> <hr/> <hr/>	\$ _____	Person <input type="checkbox"/> Payroll <input type="checkbox"/> Noncash <input type="checkbox"/> (Complete Part II for noncash contributions.)

Name of organization LOWELL OBSERVATORY	Employer identification number 86-0098918
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Part II Noncash Property (see instructions). Use duplicate copies of Part II if additional space is needed.

(a) No. from Part I	(b) Description of noncash property given	(c) FMV (or estimate) (See instructions.)	(d) Date received
		\$ _____	
		\$ _____	
		\$ _____	
		\$ _____	
		\$ _____	
		\$ _____	
		\$ _____	

Name of organization LOWELL OBSERVATORY	Employer identification number 86-0098918
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Part III Exclusively religious, charitable, etc., contributions to organizations described in section 501(c)(7), (8), or (10) that total more than \$1,000 for the year from any one contributor. Complete columns (a) through (e) and the following line entry. For organizations completing Part III, enter the total of exclusively religious, charitable, etc., contributions of \$1,000 or less for the year. (Enter this info. once.) \$ _____
Use duplicate copies of Part III if additional space is needed.

(a) No. from Part I	(b) Purpose of gift	(c) Use of gift	(d) Description of how gift is held
(e) Transfer of gift			
Transferee's name, address, and ZIP + 4		Relationship of transferor to transferee	
(a) No. from Part I	(b) Purpose of gift	(c) Use of gift	(d) Description of how gift is held
(e) Transfer of gift			
Transferee's name, address, and ZIP + 4		Relationship of transferor to transferee	
(a) No. from Part I	(b) Purpose of gift	(c) Use of gift	(d) Description of how gift is held
(e) Transfer of gift			
Transferee's name, address, and ZIP + 4		Relationship of transferor to transferee	
(a) No. from Part I	(b) Purpose of gift	(c) Use of gift	(d) Description of how gift is held
(e) Transfer of gift			
Transferee's name, address, and ZIP + 4		Relationship of transferor to transferee	

SCHEDULE D
(Form 990)

Department of the Treasury
Internal Revenue Service

Supplemental Financial Statements

Complete if the organization answered "Yes" on Form 990,
Part IV, line 6, 7, 8, 9, 10, 11a, 11b, 11c, 11d, 11e, 11f, 12a, or 12b.
Attach to Form 990.

Go to www.irs.gov/Form990 for instructions and the latest information.

OMB No. 1545-0047

2022

Open to Public
Inspection

Name of the organization **LOWELL OBSERVATORY** Employer identification number **86-0098918**

Part I Organizations Maintaining Donor Advised Funds or Other Similar Funds or Accounts. Complete if the organization answered "Yes" on Form 990, Part IV, line 6.

	(a) Donor advised funds	(b) Funds and other accounts
1 Total number at end of year		
2 Aggregate value of contributions to (during year)		
3 Aggregate value of grants from (during year)		
4 Aggregate value at end of year		
5 Did the organization inform all donors and donor advisors in writing that the assets held in donor advised funds are the organization's property, subject to the organization's exclusive legal control?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
6 Did the organization inform all grantees, donors, and donor advisors in writing that grant funds can be used only for charitable purposes and not for the benefit of the donor or donor advisor, or for any other purpose conferring impermissible private benefit?	<input type="checkbox"/> Yes	<input type="checkbox"/> No

Part II Conservation Easements. Complete if the organization answered "Yes" on Form 990, Part IV, line 7.

1 Purpose(s) of conservation easements held by the organization (check all that apply).
 Preservation of land for public use (for example, recreation or education) Preservation of a historically important land area
 Protection of natural habitat Preservation of a certified historic structure
 Preservation of open space

2 Complete lines 2a through 2d if the organization held a qualified conservation contribution in the form of a conservation easement on the last day of the tax year.

	Held at the End of the Tax Year
a Total number of conservation easements	2a
b Total acreage restricted by conservation easements	2b
c Number of conservation easements on a certified historic structure included in (a)	2c
d Number of conservation easements included in (c) acquired after July 25, 2006, and not on a historic structure listed in the National Register	2d

3 Number of conservation easements modified, transferred, released, extinguished, or terminated by the organization during the tax year _____

4 Number of states where property subject to conservation easement is located _____

5 Does the organization have a written policy regarding the periodic monitoring, inspection, handling of violations, and enforcement of the conservation easements it holds?

6 Staff and volunteer hours devoted to monitoring, inspecting, handling of violations, and enforcing conservation easements during the year _____

7 Amount of expenses incurred in monitoring, inspecting, handling of violations, and enforcing conservation easements during the year _____

8 Does each conservation easement reported on line 2(d) above satisfy the requirements of section 170(h)(4)(B)(i) and section 170(h)(4)(B)(ii)?

9 In Part XIII, describe how the organization reports conservation easements in its revenue and expense statement and balance sheet, and include, if applicable, the text of the footnote to the organization's financial statements that describes the organization's accounting for conservation easements.

Part III Organizations Maintaining Collections of Art, Historical Treasures, or Other Similar Assets.

Complete if the organization answered "Yes" on Form 990, Part IV, line 8.

1a If the organization elected, as permitted under FASB ASC 958, not to report in its revenue statement and balance sheet works of art, historical treasures, or other similar assets held for public exhibition, education, or research in furtherance of public service, provide in Part XIII the text of the footnote to its financial statements that describes these items.

b If the organization elected, as permitted under FASB ASC 958, to report in its revenue statement and balance sheet works of art, historical treasures, or other similar assets held for public exhibition, education, or research in furtherance of public service, provide the following amounts relating to these items:

(i) Revenue included on Form 990, Part VIII, line 1

(ii) Assets included in Form 990, Part X

2 If the organization received or held works of art, historical treasures, or other similar assets for financial gain, provide the following amounts required to be reported under FASB ASC 958 relating to these items:

a Revenue included on Form 990, Part VIII, line 1

b Assets included in Form 990, Part X

LHA For Paperwork Reduction Act Notice, see the Instructions for Form 990.

Schedule D (Form 990) 2022

Part III Organizations Maintaining Collections of Art, Historical Treasures, or Other Similar Assets (continued)

- 3 Using the organization's acquisition, accession, and other records, check any of the following that make significant use of its collection items (check all that apply):
- a Public exhibition
 - b Scholarly research
 - c Preservation for future generations
 - d Loan or exchange program
 - e Other _____
- 4 Provide a description of the organization's collections and explain how they further the organization's exempt purpose in Part XIII.
- 5 During the year, did the organization solicit or receive donations of art, historical treasures, or other similar assets to be sold to raise funds rather than to be maintained as part of the organization's collection? Yes No

Part IV Escrow and Custodial Arrangements. Complete if the organization answered "Yes" on Form 990, Part IV, line 9, or reported an amount on Form 990, Part X, line 21.

- 1a Is the organization an agent, trustee, custodian or other intermediary for contributions or other assets not included on Form 990, Part X? Yes No
- b If "Yes," explain the arrangement in Part XIII and complete the following table:
- | | Amount |
|---------------------------------|--------|
| c Beginning balance | 1c |
| d Additions during the year | 1d |
| e Distributions during the year | 1e |
| f Ending balance | 1f |
- 2a Did the organization include an amount on Form 990, Part X, line 21, for escrow or custodial account liability? Yes No
- b If "Yes," explain the arrangement in Part XIII. Check here if the explanation has been provided on Part XIII

Part V Endowment Funds. Complete if the organization answered "Yes" on Form 990, Part IV, line 10.

	(a) Current year	(b) Prior year	(c) Two years back	(d) Three years back	(e) Four years back
1a Beginning of year balance	44,179,628.	36,315,509.	30,997,339.	26,558,269.	33,571,683.
b Contributions	1,024,292.	4,366,064.	2,278,596.	709,421.	467,872.
c Net investment earnings, gains, and losses	-4,704,207.	3,881,793.	3,333,162.	4,013,194.	-1,781,866.
d Grants or scholarships	294,403.	259,809.	175,186.	163,237.	5,566,105.
e Other expenditures for facilities and programs					
f Administrative expenses	146,259.	123,929.	118,402.	120,308.	133,315.
g End of year balance	40,059,052.	44,179,628.	36,315,509.	30,997,339.	26,558,269.

- 2 Provide the estimated percentage of the current year end balance (line 1g, column (a)) held as:
- a Board designated or quasi-endowment 1.0240 %
 - b Permanent endowment 18.5100 %
 - c Term endowment 80.4670 %
- The percentages on lines 2a, 2b, and 2c should equal 100%.
- 3a Are there endowment funds not in the possession of the organization that are held and administered for the organization by:
- | | Yes | No |
|-----------------------------|-----|----|
| (i) Unrelated organizations | | X |
| (ii) Related organizations | X | |
- b If "Yes" on line 3a(ii), are the related organizations listed as required on Schedule R?
- 4 Describe in Part XIII the intended uses of the organization's endowment funds.

Part VI Land, Buildings, and Equipment.

Complete if the organization answered "Yes" on Form 990, Part IV, line 11a. See Form 990, Part X, line 10.

Description of property	(a) Cost or other basis (investment)	(b) Cost or other basis (other)	(c) Accumulated depreciation	(d) Book value
1a Land		445,917.		445,917.
b Buildings		23,619,209.	7,618,758.	16,000,451.
c Leasehold improvements		3,946,012.	3,176,739.	769,273.
d Equipment		40,829,302.	17,237,182.	23,592,120.
e Other		16,599,313.	520,968.	16,078,345.
Total. Add lines 1a through 1e. (Column (d) must equal Form 990, Part X, column (B), line 10c.)				56,886,106.

Part VII Investments - Other Securities.

Complete if the organization answered "Yes" on Form 990, Part IV, line 11b. See Form 990, Part X, line 12.

(a) Description of security or category (including name of security)	(b) Book value	(c) Method of valuation: Cost or end-of-year market value
(1) Financial derivatives		
(2) Closely held equity interests		
(3) Other		
(A)		
(B)		
(C)		
(D)		
(E)		
(F)		
(G)		
(H)		
Total. (Col. (b) must equal Form 990, Part X, col. (B) line 12.)		

Part VIII Investments - Program Related.

Complete if the organization answered "Yes" on Form 990, Part IV, line 11c. See Form 990, Part X, line 13.

(a) Description of investment	(b) Book value	(c) Method of valuation: Cost or end-of-year market value
(1)		
(2)		
(3)		
(4)		
(5)		
(6)		
(7)		
(8)		
(9)		
Total. (Col. (b) must equal Form 990, Part X, col. (B) line 13.)		

Part IX Other Assets.

Complete if the organization answered "Yes" on Form 990, Part IV, line 11d. See Form 990, Part X, line 15.

(a) Description	(b) Book value
(1)	
(2)	
(3)	
(4)	
(5)	
(6)	
(7)	
(8)	
(9)	
Total. (Column (b) must equal Form 990, Part X, col. (B) line 15.)	

Part X Other Liabilities.

Complete if the organization answered "Yes" on Form 990, Part IV, line 11e or 11f. See Form 990, Part X, line 25.

1. (a) Description of liability	(b) Book value
(1) Federal income taxes	
(2) DUE TO PERCIVAL LOWELL TRUST UW	13,542,420.
(3) DUE TO/FROM OTHER FUNDS	4,962.
(4)	
(5)	
(6)	
(7)	
(8)	
(9)	
Total. (Column (b) must equal Form 990, Part X, col. (B) line 25.)	

2. Liability for uncertain tax positions. In Part XIII, provide the text of the footnote to the organization's financial statements that reports the organization's liability for uncertain tax positions under FASB ASC 740. Check here if the text of the footnote has been provided in Part XIII ...

Part XI Reconciliation of Revenue per Audited Financial Statements With Revenue per Return.

Complete if the organization answered "Yes" on Form 990, Part IV, line 12a.

1	Total revenue, gains, and other support per audited financial statements		1
2	Amounts included on line 1 but not on Form 990, Part VIII, line 12:		
a	Net unrealized gains (losses) on investments	2a	
b	Donated services and use of facilities	2b	
c	Recoveries of prior year grants	2c	
d	Other (Describe in Part XIII.)	2d	
e	Add lines 2a through 2d		2e
3	Subtract line 2e from line 1		3
4	Amounts included on Form 990, Part VIII, line 12, but not on line 1:		
a	Investment expenses not included on Form 990, Part VIII, line 7b	4a	
b	Other (Describe in Part XIII.)	4b	
c	Add lines 4a and 4b		4c
5	Total revenue. Add lines 3 and 4c . (This must equal Form 990, Part I, line 12.)		5

Part XII Reconciliation of Expenses per Audited Financial Statements With Expenses per Return.

Complete if the organization answered "Yes" on Form 990, Part IV, line 12a.

1	Total expenses and losses per audited financial statements		1
2	Amounts included on line 1 but not on Form 990, Part IX, line 25:		
a	Donated services and use of facilities	2a	
b	Prior year adjustments	2b	
c	Other losses	2c	
d	Other (Describe in Part XIII.)	2d	
e	Add lines 2a through 2d		2e
3	Subtract line 2e from line 1		3
4	Amounts included on Form 990, Part IX, line 25, but not on line 1:		
a	Investment expenses not included on Form 990, Part VIII, line 7b	4a	
b	Other (Describe in Part XIII.)	4b	
c	Add lines 4a and 4b		4c
5	Total expenses. Add lines 3 and 4c . (This must equal Form 990, Part I, line 18.)		5

Part XIII Supplemental Information.

Provide the descriptions required for Part II, lines 3, 5, and 9; Part III, lines 1a and 4; Part IV, lines 1b and 2b; Part V, line 4; Part X, line 2; Part XI, lines 2d and 4b; and Part XII, lines 2d and 4b. Also complete this part to provide any additional information.

PART V, LINE 4:

THE ENDOWMENT FUNDS ARE USED FOR SUPPORT OF LOWELL OBSERVATORY AND FOR REINVESTMENT.

PART X, LINE 2:

THE FOLLOWING DISCLOSURE IS RELATED TO THE COMBINED FINANCIAL STATEMENTS OF THE LOWELL OBSERVATORY, TRUST U/W OF PERCIVAL LOWELL, AND THE LOWELL OBSERVATORY FOUNDATION:

THE OBSERVATORY, THE FOUNDATION, AND THE TRUST ARE EXEMPT FROM INCOME TAXES UNDER BOTH INTERNAL REVENUE CODE (IRC) SECTION 501(C)(3) AND ARIZONA INCOME TAX LAWS. THE OBSERVATORY IS CLASSIFIED AS OTHER THAN A PRIVATE

Part XIII Supplemental Information (continued)

FOUNDATION UNDER IRC SECTION 509(A)(1). THE FOUNDATION AND THE TRUST ARE EACH CLASSIFIED AS OTHER THAN A PRIVATE FOUNDATION UNDER IRC SECTION 509(A)(3) AS A SUPPORTING ORGANIZATION OF THE OBSERVATORY. INCOME FROM CERTAIN ACTIVITIES NOT DIRECTLY RELATED TO THE ORGANIZATION'S TAX-EXEMPT PURPOSE, HOWEVER, MAY BE SUBJECT TO TAXATION AS UNRELATED BUSINESS TAXABLE INCOME.

FROM TIME TO TIME, THE ORGANIZATION MAY BE SUBJECT TO PENALTIES AND INTEREST ASSESSED BY VARIOUS TAXING AUTHORITIES, WHICH ARE CLASSIFIED AS GENERAL AND ADMINISTRATIVE EXPENSES IF THEY OCCUR.

**SCHEDULE I
(Form 990)**

Department of the Treasury
Internal Revenue Service

**Grants and Other Assistance to Organizations,
Governments, and Individuals in the United States**
Complete if the organization answered "Yes" on Form 990, Part IV, line 21 or 22.

Attach to Form 990.

Go to www.irs.gov/Form990 for the latest information.

OMB No. 1545-0047

2022

Open to Public
Inspection

Name of the organization

LOWELL OBSERVATORY

Employer identification number
86-0098918

Part I General Information on Grants and Assistance

1 Does the organization maintain records to substantiate the amount of the grants or assistance, the grantees' eligibility for the grants or assistance, and the selection criteria used to award the grants or assistance? Yes No

2 Describe in Part IV the organization's procedures for monitoring the use of grant funds in the United States.

Part II Grants and Other Assistance to Domestic Organizations and Domestic Governments. Complete if the organization answered "Yes" on Form 990, Part IV, line 21, for any recipient that received more than \$5,000. Part II can be duplicated if additional space is needed.

1 (a) Name and address of organization or government	(b) EIN	(c) IRC section (if applicable)	(d) Amount of cash grant	(e) Amount of noncash assistance	(f) Method of valuation (book, FMV, appraisal, other)	(g) Description of noncash assistance	(h) Purpose of grant or assistance
LOWELL OBSERVATORY FOUNDATION 1400 W. MARS HILL ROAD FLAGSTAFF, AZ 86001	47-2052113	501(C)(3)	38,164.	0.			TO FUND AN ENDOWMENT
NORTHERN ARIZONA UNIVERSITY P.O. BOX 4070 FLAGSTAFF, AZ 86011	74-2579628	STATE OF ARIZONA	328,074.	0.			NASA GRANT - SUBAWARD COLLABORATION RESEARCH
PLANETARY SCIENCE INSTITUTE 1700 E. FORT LOWELL, SUITE 106 TUCSON, AZ 85719	33-0175263	501(C)(3)	49,906.	0.			NASA GRANT - SUBAWARD COLLABORATION RESEARCH
UNIVERSITY OF PITTSBURGH 123 UNIVERSITY PLACE, B21 PITTSBURGH, PA 15213	25-0965591	501(C)(3)	24,451.	0.			NASA GRANT - SUBAWARD COLLABORATION RESEARCH
ARIZONA STATE UNIVERSITY P.O. BOX 876011 TEMPE, AZ 85287	86-0196696	STATE OF ARIZONA	72,817.	0.			NSF GRANT - SUBAWARD COLLABORATION RESEARCH
UNIVERSITY OF CENTRAL FLORIDA 12201 RESEARCH PARKWAY, SUITE 501 ORLANDO, FL 32826	59-2924021	STATE OF FLORIDA	18,779.	0.			NASA GRANT - SUBAWARD COLLABORATION RESEARCH

2 Enter total number of section 501(c)(3) and government organizations listed in the line 1 table **7**

3 Enter total number of other organizations listed in the line 1 table **0**

LHA For Paperwork Reduction Act Notice, see the Instructions for Form 990.

Schedule I (Form 990) 2022

Part II Continuation of Grants and Other Assistance to Domestic Organizations and Domestic Governments (Schedule I (Form 990), Part II.)

(a) Name and address of organization or government	(b) EIN	(c) IRC section if applicable	(d) Amount of cash grant	(e) Amount of non-cash assistance	(f) Method of valuation (book, FMV, appraisal, other)	(g) Description of non-cash assistance	(h) Purpose of grant or assistance
UNIVERSITY OF MARYLAND - COLLEGE PARK - 3112 LEE BUILDING, 7809 REGENTS DRIVE - COLLEGE PARK, MD 20742	52-6002033	STATE OF MARYLAN	6,387.	0.			NASA GRANT - SUBAWARD COLLABORATION RESEARCH

Part III

Grants and Other Assistance to Domestic Individuals. Complete if the organization answered "Yes" on Form 990, Part IV, line 22. Part III can be duplicated if additional space is needed.

(a) Type of grant or assistance	(b) Number of recipients	(c) Amount of cash grant	(d) Amount of non-cash assistance	(e) Method of valuation (book, FMV, appraisal, other)	(f) Description of noncash assistance

Part IV Supplemental Information. Provide the information required in Part I, line 2; Part III, column (b); and any other additional information.

PART I, LINE 2:

ALL GRANT RECIPIENTS ARE MAJOR UNIVERSITIES, WITH SOPHISTICATED SYSTEMS FOR ADMINISTERING GRANTS. OBSERVATORY GRANTS TO THE UNIVERSITIES ARE PAID ON A COST REIMBURSEMENT BASIS. THE OBSERVATORY PRINCIPAL INVESTIGATOR UNDER EACH AWARD CLOSELY COORDINATES RESEARCH EFFORTS WITH THE UNIVERSITY RECEIVING THE SUB AWARD AND REVIEWS EACH INVOICE SUBMITTED BY THE UNIVERSITY PRIOR TO PAYMENT.

**SCHEDULE J
(Form 990)**

Department of the Treasury
Internal Revenue Service

Compensation Information

For certain Officers, Directors, Trustees, Key Employees, and Highest
Compensated Employees
Complete if the organization answered "Yes" on Form 990, Part IV, line 23.
Attach to Form 990.
Go to www.irs.gov/Form990 for instructions and the latest information.

OMB No. 1545-0047

2022

Open to Public
Inspection

Name of the organization

LOWELL OBSERVATORY

Employer identification number

86-0098918

Part I Questions Regarding Compensation

1a Check the appropriate box(es) if the organization provided any of the following to or for a person listed on Form 990, Part VII, Section A, line 1a. Complete Part III to provide any relevant information regarding these items.

- | | |
|--|--|
| <input type="checkbox"/> First-class or charter travel | <input type="checkbox"/> Housing allowance or residence for personal use |
| <input type="checkbox"/> Travel for companions | <input type="checkbox"/> Payments for business use of personal residence |
| <input type="checkbox"/> Tax indemnification and gross-up payments | <input type="checkbox"/> Health or social club dues or initiation fees |
| <input type="checkbox"/> Discretionary spending account | <input type="checkbox"/> Personal services (such as maid, chauffeur, chef) |

b If any of the boxes on line 1a are checked, did the organization follow a written policy regarding payment or reimbursement or provision of all of the expenses described above? If "No," complete Part III to explain

2 Did the organization require substantiation prior to reimbursing or allowing expenses incurred by all directors, trustees, and officers, including the CEO/Executive Director, regarding the items checked on line 1a?

3 Indicate which, if any, of the following the organization used to establish the compensation of the organization's CEO/Executive Director. Check all that apply. Do not check any boxes for methods used by a related organization to establish compensation of the CEO/Executive Director, but explain in Part III.

- | | |
|---|---|
| <input type="checkbox"/> Compensation committee | <input type="checkbox"/> Written employment contract |
| <input type="checkbox"/> Independent compensation consultant | <input checked="" type="checkbox"/> Compensation survey or study |
| <input checked="" type="checkbox"/> Form 990 of other organizations | <input checked="" type="checkbox"/> Approval by the board or compensation committee |

4 During the year, did any person listed on Form 990, Part VII, Section A, line 1a, with respect to the filing organization or a related organization:

- a** Receive a severance payment or change-of-control payment?
- b** Participate in or receive payment from a supplemental nonqualified retirement plan?
- c** Participate in or receive payment from an equity-based compensation arrangement?
- If "Yes" to any of lines 4a-c, list the persons and provide the applicable amounts for each item in Part III.

Only section 501(c)(3), 501(c)(4), and 501(c)(29) organizations must complete lines 5-9.

5 For persons listed on Form 990, Part VII, Section A, line 1a, did the organization pay or accrue any compensation contingent on the revenues of:

- a** The organization?
- b** Any related organization?
- If "Yes" on line 5a or 5b, describe in Part III.

6 For persons listed on Form 990, Part VII, Section A, line 1a, did the organization pay or accrue any compensation contingent on the net earnings of:

- a** The organization?
- b** Any related organization?
- If "Yes" on line 6a or 6b, describe in Part III.

7 For persons listed on Form 990, Part VII, Section A, line 1a, did the organization provide any nonfixed payments not described on lines 5 and 6? If "Yes," describe in Part III

8 Were any amounts reported on Form 990, Part VII, paid or accrued pursuant to a contract that was subject to the initial contract exception described in Regulations section 53.4958-4(a)(3)? If "Yes," describe in Part III

9 If "Yes" on line 8, did the organization also follow the rebuttable presumption procedure described in Regulations section 53.4958-6(c)?

	Yes	No
1b		
2		
4a		X
4b		X
4c		X
5a		X
5b		X
6a		X
6b		X
7		X
8		X
9		

LHA For Paperwork Reduction Act Notice, see the Instructions for Form 990.

Schedule J (Form 990) 2022

Part II Officers, Directors, Trustees, Key Employees, and Highest Compensated Employees. Use duplicate copies if additional space is needed.

For each individual whose compensation must be reported on Schedule J, report compensation from the organization on row (i) and from related organizations, described in the instructions, on row (ii). Do not list any individuals that aren't listed on Form 990, Part VII.

Note: The sum of columns (B)(i)-(iii) for each listed individual must equal the total amount of Form 990, Part VII, Section A, line 1a, applicable column (D) and (E) amounts for that individual.

(A) Name and Title	(B) Breakdown of W-2 and/or 1099-MISC and/or 1099-NEC compensation			(C) Retirement and other deferred compensation	(D) Nontaxable benefits	(E) Total of columns (B)(i)-(D)	(F) Compensation in column (B) reported as deferred on prior Form 990
	(i) Base compensation	(ii) Bonus & incentive compensation	(iii) Other reportable compensation				
(1) HALL, JEFFREY EXECUTIVE DIRECTOR	(i)	189,691.	0.	10,000.	14,136.	213,827.	0.
	(ii)	0.	0.	0.	0.	0.	0.
(2) KELLER, CHRISTOPH DIRECTOR OF SCIENCE	(i)	183,459.	0.	4,375.	16,116.	203,950.	0.
	(ii)	0.	0.	0.	0.	0.	0.
(3) MASSEY, PHILIP ASTRONOMER	(i)	171,961.	0.	8,450.	8,184.	188,595.	0.
	(ii)	0.	0.	0.	0.	0.	0.
(4) HUNTER, DEIDRE ASTRONOMER	(i)	166,871.	0.	8,350.	12,213.	187,434.	0.
	(ii)	0.	0.	0.	0.	0.	0.
(5) ACTOR, ANN CHIEF PHILANTHROPY OFFICER	(i)	166,065.	0.	8,350.	9,226.	183,641.	0.
	(ii)	0.	0.	0.	0.	0.	0.
(6) LABRUZZO, ANNE CHIEF FINANCIAL OFFICER	(i)	156,024.	0.	8,200.	13,643.	177,867.	0.
	(ii)	0.	0.	0.	0.	0.	0.
(7) WEST, MICHAEL ASTRONOMER	(i)	167,600.	0.	8,350.	1,268.	177,218.	0.
	(ii)	0.	0.	0.	0.	0.	0.
(8) LEVINE, STEPHEN ASTRONOMER	(i)	158,502.	0.	8,050.	9,336.	175,888.	0.
	(ii)	0.	0.	0.	0.	0.	0.
(9) BOSH, AMANDA CHIEF OPERATIONS OFFICER	(i)	151,518.	0.	7,787.	13,349.	172,654.	0.
	(ii)	0.	0.	0.	0.	0.	0.
(10) SAWYER, DAVID TECHNICAL PROJECT MANAGER	(i)	151,340.	0.	6,775.	9,180.	167,295.	0.
	(ii)	0.	0.	0.	0.	0.	0.
(i)							
(ii)							
(i)							
(ii)							
(i)							
(ii)							
(i)							
(ii)							
(i)							
(ii)							

Part III Supplemental Information

Provide the information, explanation, or descriptions required for Part I, lines 1a, 1b, 3, 4a, 4b, 4c, 5a, 5b, 6a, 6b, 7, and 8, and for Part II. Also complete this part for any additional information.

Multiple horizontal lines provided for supplemental information.

**SCHEDULE M
(Form 990)**

Noncash Contributions

OMB No. 1545-0047

2022

Open to Public Inspection

Complete if the organizations answered "Yes" on Form 990, Part IV, lines 29 or 30.
Attach to Form 990.

Go to www.irs.gov/Form990 for instructions and the latest information.

Department of the Treasury
Internal Revenue Service

Name of the organization **LOWELL OBSERVATORY** Employer identification number **86-0098918**

Part I Types of Property

	(a) Check if applicable	(b) Number of contributions or items contributed	(c) Noncash contribution amounts reported on Form 990, Part VIII, line 1g	(d) Method of determining noncash contribution amounts
1 Art - Works of art				
2 Art - Historical treasures				
3 Art - Fractional interests				
4 Books and publications				
5 Clothing and household goods				
6 Cars and other vehicles				
7 Boats and planes				
8 Intellectual property				
9 Securities - Publicly traded	X	6	34,557.	TRANSACTION VALUE
10 Securities - Closely held stock				
11 Securities - Partnership, LLC, or trust interests				
12 Securities - Miscellaneous				
13 Qualified conservation contribution - Historic structures				
14 Qualified conservation contribution - Other				
15 Real estate - Residential				
16 Real estate - Commercial				
17 Real estate - Other				
18 Collectibles				
19 Food inventory				
20 Drugs and medical supplies				
21 Taxidermy				
22 Historical artifacts				
23 Scientific specimens				
24 Archeological artifacts				
25 Other (MATERIAL PRINTI)	X	1	2,000.	FAIR MARKET VALUE
26 Other (PAINTINGS)	X	2	200.	FAIR MARKET VALUE
27 Other ()				
28 Other ()				

29 Number of Forms 8283 received by the organization during the tax year for contributions for which the organization completed Form 8283, Part V, Donee Acknowledgement **29**

	Yes	No
30a During the year, did the organization receive by contribution any property reported in Part I, lines 1 through 28, that it must hold for at least 3 years from the date of the initial contribution, and which isn't required to be used for exempt purposes for the entire holding period?		X
b If "Yes," describe the arrangement in Part II.		
31 Does the organization have a gift acceptance policy that requires the review of any nonstandard contributions?	X	
32a Does the organization hire or use third parties or related organizations to solicit, process, or sell noncash contributions?	X	
b If "Yes," describe in Part II.		
33 If the organization didn't report an amount in column (c) for a type of property for which column (a) is checked, describe in Part II.		

LHA For Paperwork Reduction Act Notice, see the Instructions for Form 990. Schedule M (Form 990) 2022

Part II Supplemental Information. Provide the information required by Part I, lines 30b, 32b, and 33, and whether the organization is reporting in Part I, column (b), the number of contributions, the number of items received, or a combination of both. Also complete this part for any additional information.

SCHEDULE M, PART I, COLUMN (B):

THE AMOUNT IN COLUMN B REPRESENTS THE NUMBER OF INSTANCES THAT A DONATION OCCURRED.

SCHEDULE M, LINE 32B:

PUBLICLY TRADED SECURITIES ARE DEPOSITED INTO AN INVESTMENT ACCOUNT OWNED BY THE OBSERVATORY. THE SECURITIES ARE SOLD BY A BROKER SHORTLY AFTER.

**SCHEDULE O
(Form 990)**

Department of the Treasury
Internal Revenue Service

Supplemental Information to Form 990 or 990-EZ

Complete to provide information for responses to specific questions on
Form 990 or 990-EZ or to provide any additional information.
Attach to Form 990 or Form 990-EZ.
Go to www.irs.gov/Form990 for the latest information.

OMB No. 1545-0047

2022

Open to Public
Inspection

Name of the organization

LOWELL OBSERVATORY

Employer identification number

86-0098918

FORM 990, PART III, LINE 4A, PROGRAM SERVICE ACCOMPLISHMENTS:

TELESCOPE (LDT) DELIVERED APPROXIMATELY 277 SCIENCE NIGHTS USED BY

LOWELL STAFF, AS WELL AS ASTRONOMERS AT OUR PARTNER INSTITUTIONS:

BOSTON UNIVERSITY, NORTHERN ARIZONA UNIVERSITY, UNIVERSITY OF MARYLAND,

UNIVERSITY OF TOLEDO, AND YALE UNIVERSITY. IN TOTAL, THE LDT FEATURED

PROMINENTLY IN 59 SCIENTIFIC OR TECHNICAL PUBLICATIONS. THE LDT'S

GROWING SUITE OF STATE-OF-THE-ART INSTRUMENTS, SUCH AS THE

HIGH-PRECISION SPECTROGRAPH EXPRES, ENABLE CUTTING EDGE RESEARCH ACROSS

MULTIPLE FIELDS, INCLUDING THE SEARCH FOR EXOPLANETS. LOWELL

OBSERVATORY ALSO CONTINUED TO OPERATE OTHER SMALLER TELESCOPES AT ITS

ANDERSON MESA SITE AND HAS BEGUN THE PROCESS OF REPLACING ITS

ANTIQUATED 31" TELESCOPE WITH A MODERN 1-METER TELESCOPE. ACCESS TO

LOCAL TELESCOPES EQUIPPED WITH WORLD-CLASS INSTRUMENTS HAS ENABLED

SCIENCE THAT COULD NOT BE DONE ELSEWHERE. IN ADDITION, THE OBSERVATORY

IS UNDERTAKING A DRAMATIC EXPANSION OF ITS MAIN CAMPUS ON MARS HILL,

INCLUDING PRELIMINARY DESIGN WORK FOR A NEW TECHNICAL SERVICES BUILDING

THAT WILL GREATLY INCREASE THE INSTRUMENTATION AND ENGINEERING

CAPABILITIES OF ITS TECHNICAL STAFF. FINALLY, LOWELL OBSERVATORY ALSO

ENGAGED IN A STRONG PROGRAM OF RESEARCH AND DEVELOPMENT AIMED AT NEW

TECHNOLOGIES TO BENEFIT ITS OBSERVING FACILITIES AND THE LARGER

ASTRONOMICAL COMMUNITY.

FORM 990, PART III, LINE 4B, PROGRAM SERVICE ACCOMPLISHMENTS:

TO THE 24INCH DYER TELESCOPE. WORKING IN COLLABORATION WITH THE

MARKETING AND COMMUNICATIONS DEPARTMENT, THE OUTREACH TEAM CONTINUED TO

PROVIDE ON-LINE EDUCATIONAL PROGRAMMING. REGULAR OFFERINGS INCLUDED

LHA For Paperwork Reduction Act Notice, see the Instructions for Form 990 or 990-EZ.

Schedule O (Form 990) 2022

232211 10-28-22

Name of the organization LOWELL OBSERVATORY	Employer identification number 86-0098918
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"STAR STUFF" PODCASTS, "INTERACTIVE STARGAZING", AND "MARS HILL ALMANAC," AS WELL AS A MONTHLY SERIES CELEBRATING THE 10TH ANNIVERSARY OF THE FIRST LIGHT OF THE 4.3-METER LOWELL DISCOVERY TELESCOPE. SPECIAL PROGRAMMING IN 2022 INCLUDED THE ANNUAL I HEART PLUTO FESTIVAL (IN HYBRID FORM), THE POPULAR MESSIER MARATHON, AND LIVESTREAMS HIGHLIGHTING LUNAR ECLIPSES, METEOR SHOWERS, AND NATIONAL ASTRONOMY DAY. THE NATIVE AMERICAN ASTRONOMY OUTREACH PROGRAM (NAAOP) TEAM CONDUCTED THEIR CLASSROOM VISITS THROUGHOUT THE SCHOOL YEAR AND HOSTED SUMMER AND WINTER CAMPS FOR STUDENTS. LOWELL EDUCATORS RETURNED TO THE FLAGSTAFF FAMILY FOOD CENTER (FFFC) TO LEAD SCIENCE ACTIVITIES FOR THE CHILDREN THAT FFC SERVES. THESE VISITS OCCURRED EVERY OTHER WEEK FROM JANUARY THROUGH DECEMBER. THE OBSERVATORY ALSO PARTICIPATED IN SEVERAL LOCAL OUTREACH EVENTS, INCLUDING THE FLAGSTAFF STAR PARTY AND SCIENCE IN THE PARK. PRIVATE EVENTS AND FACILITY RENTALS WERE HOSTED AT LOWELL, AND THE EVENTS TEAM PULLED OFF SEVERAL SUCCESSFUL EVENTS BOTH ON AND OFF-CAMPUS. THE KEMPER AND ETHEL MARLEY FOUNDATION ASTRONOMY DISCOVERY CENTER (ADC) AT LOWELL OBSERVATORY WILL BE A PLACE OF CURIOSITY AND DISCOVERY FOR VISITORS WORLDWIDE. AFTER THREE YEARS OF CONSTRUCTION AND RAISING \$53.6 MILLION DOLLARS FOR THE NEW BUILDING, LOWELL OBSERVATORY EXPECTS TO CELEBRATE A GRAND OPENING IN NOVEMBER 2024. THE THREE-STORY, 40,000-SQUARE-FOOT ADC WILL FEATURE A STATE-OF-THE-ART THEATER, EXHIBIT GALLERIES, AND A ROOFTOP AMPHITHEATER FOR EXPLORING FLAGSTAFF'S FAMOUSLY DARK SKIES. THE ENTIRETY OF THE BUILDING WAS FUNDED THROUGH THE SUPPORT OF DONORS AND STATE-FUNDED GRANTS A TESTAMENT TO THE INCREDIBLE AMOUNT OF SUPPORT FROM OUR COMMUNITIES AND A SHOW OF HOW MUCH SUCH A SCIENCE CENTER WAS NEEDED IN NORTHERN ARIZONA. IN PREPARATION FOR THE ADC, TEAMS ACROSS THE OBSERVATORY HAVE COME TOGETHER TO PLAN EVERYTHING FROM PROGRAMMING, EXHIBIT DESIGN,

Name of the organization LOWELL OBSERVATORY	Employer identification number 86-0098918
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INTERPRETIVE SIGNAGE NEEDS, BRANDING, AND GUEST TRAFFIC FLOW. MARKETING VIDEOS WERE RELEASED, GIVING VIEWERS AN ANIMATED TOUR AS A LOOK INTO THE BUILDING AHEAD OF ITS OPENING. THIS HAS BEEN A TRULY COLLABORATIVE EFFORT TO ENSURE ALL DEPARTMENT VOICES ARE REPRESENTED.

FORM 990, PART VI, SECTION B, LINE 11B:

THE FORM 990 DRAFT WILL BE FIRST REVIEWED BY THE CHIEF FINANCIAL OFFICER (CFO) FOR ACCURACY. ONCE IT HAS BEEN DEEMED ACCURATE BY THE CFO, IT WILL BE FORWARDED TO THE SOLE TRUSTEE, EXECUTIVE DIRECTOR AND AUDIT COMMITTEE FOR THEIR REVIEW AND COMMENTS. AFTER ANY QUESTIONS AND COMMENTS HAVE BEEN ADDRESSED, THE 990 WILL BE APPROVED AND A FINAL COPY WILL BE SIGNED AND FILED BY THE CFO.

FORM 990, PART VI, SECTION B, LINE 12C:

THE ORGANIZATION CONDUCTS WEEKLY REVIEWS OF PAYABLES INCLUDING POTENTIAL CONFLICTS OF INTEREST AND FOLLOW-UP OCCURS TO ENFORCE COMPLIANCE WITH THE COMPANY POLICY.

FORM 990, PART VI, SECTION B, LINE 15A:

COMPENSATION OF THE DIRECTOR FOR LOWELL OBSERVATORY IS DETERMINED BY THE SOLE TRUSTEE OF THE CORPORATION AFTER REVIEW OF INFORMATION PROVIDED BY THE HUMAN RESOURCE MANAGER AND MEMBERS OF THE ADVISORY BOARD AND LOWELL OBSERVATORY FOUNDATION WHO HAVE EXPERIENCE IN THE RESEARCH INDUSTRY OR COMPENSATION AT NON-PROFITS. THE HUMAN RESOURCE MANAGER REVIEWS THE TOTAL COMPENSATION OF THE DIRECTOR IN ACCORDANCE WITH REGULATIONS/GUIDELINES ESTABLISHED BY THE IRS AND INDUSTRY BEST PRACTICES. DATA REGARDING SALARIES OF OTHER DIRECTORS (CEOS) AT ORGANIZATIONS OF SIMILAR SIZE, INCLUDING BOTH NON-PROFIT AND FOR-PROFIT COMPANIES IS ALSO REVIEWED. THE SOLE TRUSTEE,

Name of the organization LOWELL OBSERVATORY	Employer identification number 86-0098918
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WITH ADVICE FROM THE ADVISORY BOARD, ALSO ESTABLISHES GOALS AND OBJECTIVES FOR THE DIRECTOR AND EVALUATES THE PERFORMANCE OF THE DIRECTOR BASED ON THE PRIOR YEAR'S GOALS AND OBJECTIVES.

FORM 990, PART VI, SECTION C, LINE 19:

WHEN REQUESTED, DOCUMENTS REGARDING THE OBSERVATORY ARE PROVIDED BY THE BUSINESS OFFICE. THE 990 AND AUDITED FINANCIAL STATEMENTS ARE AVAILABLE ON THE LOWELL OBSERVATORY WEBSITE. THE 990 IS ALSO AVAILABLE ON GUIDESTAR AND CHARITY NAVIGATOR. A SUMMARY OF THE CONSOLIDATED FINANCIAL STATEMENTS IS PUBLISHED ANNUALLY IN AN ANNUAL REPORT.

**SCHEDULE R
(Form 990)**

Department of the Treasury
Internal Revenue Service

Related Organizations and Unrelated Partnerships

Complete if the organization answered "Yes" on Form 990, Part IV, line 33, 34, 35b, 36, or 37.
Attach to Form 990.

Name of the organization

LOWELL OBSERVATORY

Go to www.irs.gov/Form990 for instructions and the latest information.

OMB No. 1545-0047

2022

Open to Public
Inspection

Employer identification number
86-0098918

Part I Identification of Disregarded Entities. Complete if the organization answered "Yes" on Form 990, Part IV, line 33.

(a) Name, address, and EIN (if applicable) of disregarded entity	(b) Primary activity	(c) Legal domicile (state or foreign country)	(d) Total income	(e) End-of-year assets	(f) Direct controlling entity

Part II Identification of Related Tax-Exempt Organizations. Complete if the organization answered "Yes" on Form 990, Part IV, line 34, because it had one or more related tax-exempt organizations during the tax year.

(a) Name, address, and EIN of related organization	(b) Primary activity	(c) Legal domicile (state or foreign country)	(d) Exempt Code section	(e) Public charity status (if section 501(c)(3))	(f) Direct controlling entity	(g) Section 512(b)(13) controlled entity?	
						Yes	No
PERCIVAL LOWELL TRUST UW - 04-2007327 1400 W MARS HILL ROAD FLAGSTAFF, AZ 86001	TRUST F/B/O LOWELL OBSERVATORY	ARIZONA	501(C)(3)	LINE 12B, II	LOWELL OBSERVATORY		X
LOWELL OBSERVATORY FOUNDATION - 47-2052113 1400 W MARS HILL ROAD FLAGSTAFF, AZ 86001	FOUNDATION F/B/O LOWELL OBSERVATORY	ARIZONA	501(C)(3)	LINE 12B, II	N/A		X

For Paperwork Reduction Act Notice, see the Instructions for Form 990.

Schedule R (Form 990) 2022

Part III Identification of Related Organizations Taxable as a Partnership. Complete if the organization answered "Yes" on Form 990, Part IV, line 34, because it had one or more related organizations treated as a partnership during the tax year.

(a) Name, address, and EIN of related organization	(b) Primary activity	(c) Legal domicile (state or foreign country)	(d) Direct controlling entity	(e) Predominant income (related, unrelated, excluded from tax under sections 512-514)	(f) Share of total income	(g) Share of end-of-year assets	(h) Disproportionate allocations?		(i) Code V-UBI amount in box 20 of Schedule K-1 (Form 1065)	(j) General or managing partner?		(k) Percentage ownership
							Yes	No		Yes	No	

Part IV Identification of Related Organizations Taxable as a Corporation or Trust. Complete if the organization answered "Yes" on Form 990, Part IV, line 34, because it had one or more related organizations treated as a corporation or trust during the tax year.

(a) Name, address, and EIN of related organization	(b) Primary activity	(c) Legal domicile (state or foreign country)	(d) Direct controlling entity	(e) Type of entity (C corp, S corp, or trust)	(f) Share of total income	(g) Share of end-of-year assets	(h) Percentage ownership	(i) Section 512(b)(13) controlled entity?	
								Yes	No

Part V Transactions With Related Organizations. Complete if the organization answered "Yes" on Form 990, Part IV, line 34, 35b, or 36.

Note: Complete line 1 if any entity is listed in Parts II, III, or IV of this schedule.

1 During the tax year, did the organization engage in any of the following transactions with one or more related organizations listed in Parts II-IV?

	Yes	No
a Receipt of (i) interest, (ii) annuities, (iii) royalties, or (iv) rent from a controlled entity	X	
b Gift, grant, or capital contribution to related organization(s)	X	
c Gift, grant, or capital contribution from related organization(s)	X	
d Loans or loan guarantees to or for related organization(s)	X	
e Loans or loan guarantees by related organization(s)	X	
f Dividends from related organization(s)		X
g Sale of assets to related organization(s)		X
h Purchase of assets from related organization(s)		X
i Exchange of assets with related organization(s)		X
j Lease of facilities, equipment, or other assets to related organization(s)		X
k Lease of facilities, equipment, or other assets from related organization(s)		X
l Performance of services or membership or fundraising solicitations for related organization(s)	X	
m Performance of services or membership or fundraising solicitations by related organization(s)		X
n Sharing of facilities, equipment, mailing lists, or other assets with related organization(s)	X	
o Sharing of paid employees with related organization(s)	X	
p Reimbursement paid to related organization(s) for expenses	X	
q Reimbursement paid by related organization(s) for expenses	X	
r Other transfer of cash or property to related organization(s)		
s Other transfer of cash or property from related organization(s)		

2 If the answer to any of the above is "Yes," see the instructions for information on who must complete this line, including covered relationships and transaction thresholds.

(a) Name of related organization	(b) Transaction type (a-s)	(c) Amount involved	(d) Method of determining amount involved
(1) PERCIVAL LOWELL TRUST UW	E	13,542,420	END OF YEAR BALANCE
(2)			
(3)			
(4)			
(5)			
(6)			

Part VI **Unrelated Organizations Taxable as a Partnership.** Complete if the organization answered "Yes" on Form 990, Part IV, line 37.

Provide the following information for each entity taxed as a partnership through which the organization conducted more than five percent of its activities (measured by total assets or gross revenue) that was not a related organization. See instructions regarding exclusion for certain investment partnerships.

(a) Name, address, and EIN of entity	(b) Primary activity	(c) Legal domicile (state or foreign country)	(d) Predominant income (related, unrelated, excluded from tax under sections 512-514)	(e) <small>Are all partners sec. 501(c)(3) orgs.?</small>		(f) Share of total income	(g) Share of end-of-year assets	(h) <small>Dispropor- tionate allocations?</small>		(i) Code V-UBI amount in box 20 of Schedule K-1 (Form 1065)	(j) <small>General or managing partner?</small>		(k) Percentage ownership	
				Yes	No			Yes	No		Yes	No		

Part VII Supplemental Information

Provide additional information for responses to questions on Schedule R. See instructions.

Multiple horizontal lines for providing supplemental information.