

Return of Organization Exempt from Income Tax

OMB No 1545-0047

2002

Department of the Treasury
Internal Revenue ServiceUnder section 501(c), 527, or 4947(a)(1) of the Internal Revenue Code
(except black lung benefit trust or private foundation)Open to Public
Inspection

The organization may have to use a copy of this return to satisfy state reporting requirements

A For the 2002 calendar year, or tax year beginning 2002, and ending

B Check if applicable

- ☐ Address change
☐ Name change
☐ Initial return
☐ Final return
☐ Amended return
☐ Application pending

Please use
IRS label
or print
or type
See
specific
instruc-
tions.Vatican Observatory Foundation
2017 East Lee Street
Tucson, AZ 85719

D Employer Identification Number

86-0559994

E Telephone number

(520) 795-9866

F Accounting method

☐ Cash☒ Accrual☐ Other (specify) _____Section 501(c)(3) organizations and 4947(a)(1) nonexempt
charitable trusts must attach a completed Schedule A
(Form 990 or 990-EZ)

H and I are not applicable to section 527 organizations

H (a) Is this a group return for affiliates? ☐ Yes ☒ No

H (b) If Yes enter number of affiliates _____

H (c) Are all affiliates included? ☐ Yes ☐ No

(If No attach a list See instructions)

H (d) Is this a separate return filed by an

organization covered by a group ruling? ☐ Yes ☒ No

I Enter 4 digit GEN _____

M Check ☐ if the organization is not required
to attach Schedule B (Form 990, 990-EZ, or 990-PF)G Web site <http://clavius.as.arizona.edu/vo/>J Organization type
(check only one)☒ 501(c) 3 (insert no) ☐ 4947(a)(1) or ☐ 527K Check here ☐ if the organization's gross receipts are normally not more than
\$25,000. The organization need not file a return with the IRS but if the organization
received a Form 990 Package in the mail it should file a return without financial data.
Some states require a complete return.

L Gross receipts Add lines 6b, 8b, 9b and 10b to line 12 1,697,879

Part I Revenue, Expenses, and Changes in Net Assets or Fund Balances (See Instructions)

1 Contributions gifts, grants, and similar amounts received

a Direct public support

1a 284,074

b Indirect public support

1b

c Government contributions (grants)

1c

d Total (add lines 1a through 1c) (cash \$ 284,074 noncash \$ _____)

1d 284,074

2 Program service revenue including government fees and contracts (from Part VII line 93)

2 13,029

3 Membership dues and assessments

3

4 Interest on savings and temporary cash investments

4 27,080

5 Dividends and interest from securities

5 28,831

6a Gross rents

6a

b Less rental expenses

6b

c Net rental income or (loss) (subtract line 6b from line 6a)

6c

7 Other investment income (describe _____)

7

8a Gross amount from sales of assets other
than inventory

(A) Securities

(B) Other

1,344,865

8a

b Less cost or other basis and sales expenses

1,660,222

8b

c Gain or (loss) (attach schedule) Statement 1

-315,357

8c

d Net gain or (loss) (combine line 8c, columns (A) and (B))

8d -315,357

9 Special events and activities (attach schedule)

a Gross revenue (not including \$ _____ of contributions
reported on line 1a)

9a

b Less direct expenses other than fundraising expenses

9b

c Net income or (loss) from special events (subtract line 9b from line 9a)

9c

10a Gross sales of inventory, less returns and allowances

10a

b Less cost of goods sold

c Gross profit or (loss) from sales of inventory (attach schedule) (subtract line 10b from line 10a)

10c

11 Other revenue (from Part VII, line 103)

11

12 Total revenue (add lines 1d, 2, 3, 4, 5, 6c, 7, 8d, 9c, 10c, and 11)

12 37,657

13 Program services (from line 44, column (B))

13 411,115

14 Management and general (from line 44, column (C))

14 73,940

15 Fundraising (from line 44, column (D))

15 92,424

16 Payments to affiliates (attach schedule)

16

17 Total expenses (add lines 16 and 44, column (A))

17 577,479

18 Excess or (deficit) for the year (subtract line 17 from line 12)

18 -539,822

19 Net assets or fund balances at beginning of year (from line 73, column (A))

19 6,774,606

20 Other changes in net assets or fund balances (attach explanation)

See Statement 2

20 -514,784

21 Net assets or fund balances at end of year (combine lines 18, 19, and 20)

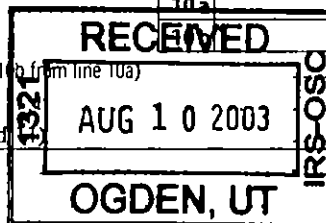
21 5,720,000

BAA For Paperwork Reduction Act Notice, see the separate instructions

TEEA0107L 09/04/02

Form 990 (2002)

SCANNED AUG 14 '03



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Part II Statement of Functional Expenses All organizations must complete column (A). Columns (B), (C), and (D) are required for section 501(c)(3) and (4) organizations and section 4947(a)(1) nonexempt charitable trusts but optional for others.

Do not include amounts reported on line 6b, 8b, 9b, 10b, or 16 of Part I		(A) Total	(B) Program services	(C) Management and general	(D) Fundraising
22	Grants and allocations (att sch) (cash \$ _____ non cash \$ _____)	22			
23	Specific assistance to individuals (att sch)	23			
24	Benefits paid to or for members (att sch)	24			
25	Compensation of officers, directors, etc	25			
26	Other salaries and wages	26	170,247	119,787	50,460
27	Pension plan contributions	27			
28	Other employee benefits	28	1,489		1,489
29	Payroll taxes	29	3,860		3,860
30	Professional fundraising fees	30			
31	Accounting fees	31	29,365	29,365	
32	Legal fees	32	3,450	3,450	
33	Supplies	33	3,864	3,790	74
34	Telephone	34	271	271	
35	Postage and shipping	35			
36	Occupancy	36			
37	Equipment rental and maintenance	37	17,361	17,361	
38	Printing and publications	38	3,239		3,239
39	Travel	39	3,042	3,042	
40	Conferences, conventions, and meetings	40			
41	Interest	41			
42	Depreciation, depletion, etc (attach schedule)	42	98,732	98,732	
43	Other expenses not covered above (itemize)				
a	See Statement 3	43a	242,559	171,174	38,083
b		43b			
c		43c			
d		43d			
e		43e			
44	Total functional expenses (add lines 22-43). Organizations completing columns (B) - (D), carry these totals to lines 13 - 15.	44	577,479	411,115	73,940
					92,424

Joint Costs Check ☐ if you are following SOP 98-2Are any joint costs from a combined educational campaign and fundraising solicitation reported in (B) Program services? ☐ Yes ☒ No

If 'Yes,' enter (i) the aggregate amount of these joint costs \$ _____ (ii) the amount allocated to program services \$ _____ (iii) the amount allocated to management and general \$ _____, and (iv) the amount allocated to fundraising \$ _____

Part III Statement of Program Service AccomplishmentsWhat is the organization's primary exempt purpose? Astronomical research

All organizations must describe their exempt purpose achievements in a clear and concise manner. State the number of clients served, publications issued, etc. Discuss achievements that are not measurable. (Section 501(c)(3) & (4) organizations and 4947(a)(1) nonexempt charitable trusts must also enter the amount of grants & allocations to others.)

Program Service Expenses
(Required for 501(c)(3) and (4) organizations and 4947(a)(1) trusts but optional for others.)

a	The foundation operates telescope and observatory facilities in conjunction with the University of Arizona, Steward Observatory for scientific and educational purposes	(Grants and allocations \$ _____)	411,115
b		(Grants and allocations \$ _____)	
c		(Grants and allocations \$ _____)	
d		(Grants and allocations \$ _____)	
e	Other program services	(Grants and allocations \$ _____)	
f	Total of Program Service Expenses (should equal line 44, column (B), program services)		411,115

Part IV Balance Sheets (See Instructions)

Note		(A) Beginning of year		(B) End of year
ASSETS	45 Cash – non interest bearing	75,991	45	17,903
	46 Savings and temporary cash investments	335,039	46	41,498
	47a Accounts receivable	47a		
	b Less allowance for doubtful accounts	47b	47c	
	48a Pledges receivable	48a 96,581		
	b Less allowance for doubtful accounts	48b	48c	96,581
	49 Grants receivable		49	
	50 Receivables from officers, directors, trustees, and key employees (attach schedule)		50	
	51a Other notes & loans receivable (attach sch)	51a		
	b Less allowance for doubtful accounts	51b	51c	
	52 Inventories for sale or use		52	
	53 Prepaid expenses and deferred charges		53	
	54 Investments – securities (attach schedule) See St 4 <input type="checkbox"/> Cost <input checked="" type="checkbox"/> FMV	3,827,569	54	3,160,819
	55a Investments – land, buildings, & equipment basis	55a		
	b Less accumulated depreciation (attach schedule)	55b	55c	
56 Investments – other (attach schedule)		56		
57a Land, buildings, and equipment basis	57a 3,315,381			
b Less accumulated depreciation (attach schedule) Statement 5	57b 885,068	2,526,109	57c	2,430,313
58 Other assets (describe ▶ See Statement 6)	43,183	58	22,672	
59 Total assets (add lines 45 through 58) (must equal line 74)	6,836,638	59	5,769,786	
LIABILITIES	60 Accounts payable and accrued expenses	1,638	60	1,522
	61 Grants payable		61	
	62 Deferred revenue		62	
	63 Loans from officers, directors, trustees, and key employees (attach schedule)		63	
	64a Tax exempt bond liabilities (attach schedule)		64a	
	b Mortgages and other notes payable (attach schedule)		64b	
	65 Other liabilities (describe ▶ See Statement 7)	60,394	65	48,264
	66 Total liabilities (add lines 60 through 65)	62,032	66	49,786
NET ASSETS OR FUND BALANCES	Organizations that follow SFAS 117, check here <input checked="" type="checkbox"/> and complete lines 67 through 69 and lines 73 and 74			
	67 Unrestricted	2,715,512	67	1,610,756.
	68 Temporarily restricted	21,013	68	21,013
	69 Permanently restricted	4,038,081	69	4,088,231.
	Organizations that do not follow SFAS 117, check here <input type="checkbox"/> and complete lines 70 through 74			
	70 Capital stock, trust principal, or current funds		70	
	71 Paid in or capital surplus, or land, building, and equipment fund		71	
	72 Retained earnings, endowment, accumulated income, or other funds		72	
	73 Total net assets or fund balances (add lines 67 through 69 or lines 70 through 72, column (A) must equal line 19, column (B) must equal line 21)	6,774,606	73	5,720,000
	74 Total liabilities and net assets/fund balances (add lines 66 and 73)	6,836,638	74	5,769,786

Form 990 is available for public inspection and, for some people, serves as the primary or sole source of information about a particular organization. How the public perceives an organization in such cases may be determined by the information presented on its return. Therefore, please make sure the return is complete and accurate and fully describes, in Part III, the organization's programs and accomplishments.

BAA

Part IV-A Reconciliation of Revenue per Audited Financial Statements with Revenue per Return (See instructions)

a	Total revenue, gains, and other support per audited financial statements	a	N/A
b	Amounts included on line a but not on line 12, Form 990		
(1)	Net unrealized gains on investments \$		
(2)	Donated services and use of facilities \$		
(3)	Recoveries of prior year grants \$		
(4)	Other (specify) \$		
	Add amounts on lines (1) through (4)	b	
c	Line a minus line b	c	
d	Amounts included on line 12, Form 990 but not on line a		
(1)	Investment expenses not included on line 6b, Form 990 \$		
(2)	Other (specify) \$		
	Add amounts on lines (1) and (2)	d	
e	Total revenue per line 12, Form 990 (line c plus line d)	e	

Part IV-B Reconciliation of Expenses per Audited Financial Statements with Expenses per Return

a	Total expenses and losses per audited financial statements	a	N/A
b	Amounts included on line a but not on line 17, Form 990		
(1)	Donated services and use of facilities \$		
(2)	Prior year adjustments reported on line 20, Form 990 \$		
(3)	Losses reported on line 20, Form 990 \$		
(4)	Other (specify) \$		
	Add amounts on lines (1) through (4)	b	
c	Line a minus line b	c	
d	Amounts included on line 17, Form 990 but not on line a		
(1)	Investment expenses not included on line 6b, Form 990 \$		
(2)	Other (specify) \$		
	Add amounts on lines (1) and (2)	d	
e	Total expenses per line 17, Form 990 (line c plus line d)	e	

Part V List of Officers, Directors, Trustees, and Key Employees (List each one even if not compensated; see instructions)

(A) Name and address	(B) Title and average hours per week devoted to position	(C) Compensation (if not paid, enter -0-)	(D) Contributions to employee benefit plans and deferred compensation	(E) Expense account and other allowances
See Statement 8		0	0	0

75 Did any officer, director, trustee, or key employee receive aggregate compensation of more than \$100,000 from your organization and all related organizations of which more than \$10,000 was provided by the related organizations?

If Yes, attach schedule — see instructions

☐ Yes ☒ No

Part VI Other Information (See instructions)

Yes No

76	Did the organization engage in any activity not previously reported to the IRS? If 'Yes' attach a detailed description of each activity	76		X
77	Were any changes made in the organizing or governing documents but not reported to the IRS? If 'Yes' attach a conformed copy of the changes	77		X
78a	Did the organization have unrelated business gross income of \$1 000 or more during the year covered by this return?	78a		X
b	If 'Yes,' has it filed a tax return on Form 990-T for this year?	78b	N/A	
79	Was there a liquidation, dissolution, termination, or substantial contraction during the year? If 'Yes,' attach a statement	79		X
80a	Is the organization related (other than by association with a statewide or nationwide organization) through common membership, governing bodies, trustees, officers, etc., to any other exempt or nonexempt organization?	80a	X	
b	If 'Yes,' enter the name of the organization <u>Vatican Observatory Research Group</u> and check whether it is <input checked="" type="checkbox"/> exempt or <input type="checkbox"/> nonexempt			
81a	Enter direct or indirect political expenditures. See line 81 instructions	81a	0	
b	Did the organization file Form 1120-POL for this year?	81b		X
82a	Did the organization receive donated services or the use of materials, equipment, or facilities at no charge or at substantially less than fair rental value?	82a		X
b	If 'Yes,' you may indicate the value of these items here. Do not include this amount as revenue in Part I or as an expense in Part II. (See instructions in Part III.)	82b	N/A	
83a	Did the organization comply with the public inspection requirements for returns and exemption applications?	83a	X	
b	Did the organization comply with the disclosure requirements relating to quid pro quo contributions?	83b	X	
84a	Did the organization solicit any contributions or gifts that were not tax deductible?	84a		X
b	If 'Yes,' did the organization include with every solicitation an express statement that such contributions or gifts were not tax deductible?	84b	N/A	
85	501(c)(4), (5), or (6) organizations. a Were substantially all dues nondeductible by members?	85a	N/A	
b	Did the organization make only in-house lobbying expenditures of \$2 000 or less?	85b	N/A	
	If 'Yes' was answered to either 85a or 85b, do not complete 85c through 85h below unless the organization received a waiver for proxy tax owed for the prior year.			
c	Dues, assessments, and similar amounts from members	85c	N/A	
d	Section 162(e) lobbying and political expenditures	85d	N/A	
e	Aggregate nondeductible amount of section 6033(e)(1)(A) dues notices	85e	N/A	
f	Taxable amount of lobbying and political expenditures (line 85d less 85e)	85f	N/A	
g	Does the organization elect to pay the section 6033(e) tax on the amount on line 85f?	85g	N/A	
h	If section 6033(e)(1)(A) dues notices were sent, does the organization agree to add the amount on line 85f to its reasonable estimate of dues allocable to nondeductible lobbying and political expenditures for the following tax year?	85h	N/A	
86	501(c)(7) organizations. Enter: a Initiation fees and capital contributions included on line 12	86a	N/A	
b	Gross receipts, included on line 12, for public use of club facilities	86b	N/A	
87	501(c)(12) organizations. Enter: a Gross income from members or shareholders	87a	N/A	
b	Gross income from other sources. (Do not net amounts due or paid to other sources against amounts due or received from them.)	87b	N/A	
88	At any time during the year, did the organization own a 50% or greater interest in a taxable corporation or partnership or an entity disregarded as separate from the organization under Regulations sections 301.7701-2 and 301.7701-3? If 'Yes,' complete Part IX	88		X
89a	501(c)(3) organizations. Enter: Amount of tax imposed on the organization during the year under section 4911 <u>0</u> , section 4912 <u>0</u> , section 4955 <u>0</u>			
b	501(c)(3) and 501(c)(4) organizations. Did the organization engage in any section 4958 excess benefit transaction during the year or did it become aware of an excess benefit transaction from a prior year? If 'Yes,' attach a statement explaining each transaction	89b		X
c	Enter: Amount of tax imposed on the organization managers or disqualified persons during the year under sections 4912, 4955, and 4958		0	
d	Enter: Amount of tax on line 89c, above, reimbursed by the organization		0	
90a	List the states with which a copy of this return is filed <u>Arizona</u>			
b	Number of employees employed in the pay period that includes March 12, 2002 (See instructions)	90b	1	
91	The books are in care of <u>Keegan, Linscott, & Kenon, P</u> . Telephone number <u>(520) 884-0176</u> . Located at <u>33 N Stone Ave, Suite 101 Tucson, AZ</u> . ZIP + 4 <u>85701</u>			
92	Section 4947(a)(1) nonexempt charitable trusts filing Form 990 in lieu of Form 1041 - Check here <input type="checkbox"/> and enter the amount of tax exempt interest received or accrued during the tax year	92	N/A	

Part VII Analysis of Income-Producing Activities (See instructions)**Note** Enter gross amounts unless otherwise indicated

	Unrelated business income		Excluded by section 512, 513, or 514		(E) Related or exempt function income
	(A) Business code	(B) Amount	(C) Exclusion code	(D) Amount	
93 Program service revenue					
a Book Royalties					13,029
b					
c					
d					
e					
f Medicare/Medicaid payments					
g Fees & contracts from government agencies					
94 Membership dues and assessments					
95 Interest on savings & temporary cash investments			14	27,080	
96 Dividends & interest from securities			14	28,831	
97 Net rental income or (loss) from real estate					
a debt-financed property					
b not debt-financed property					
98 Net rental income or (loss) from personal property					
99 Other investment income					
100 Gain or (loss) from sales of assets other than inventory					-315,357
101 Net income or (loss) from special events					
102 Gross profit or (loss) from sales of inventory					
103 Other revenue					
a					
b					
c					
d					
e					
104 Subtotal (add columns (B), (D), and (E))				55,911	-302,328
105 Total (add line 104, columns (B), (D), and (E))					-246,417

Note Line 105 plus line 1d, Part I, should equal the amount on line 12, Part I.**Part VIII Relationship of Activities to the Accomplishment of Exempt Purposes** (See instructions)

Line No.	Explain how each activity for which income is reported in column (E) of Part VII contributed importantly to the accomplishment of the organization's exempt purposes (other than by providing funds for such purposes)
1	See Statement 9
2	
3	
4	

Part IX Information Regarding Taxable Subsidiaries and Disregarded Entities (See instructions)

(A) Name, address, and EIN of corporation, partnership, or disregarded entity	(B) Percentage of ownership interest	(C) Nature of activities	(D) Total income	(E) End of year assets
N/A	0			
	0			
	0			
	0			

Part X Information Regarding Transfers Associated with Personal Benefit Contracts (See instructions)

a Did the organization, during the year, receive any funds, directly or indirectly, to pay premiums on a personal benefit contract?

☐ Yes ☒ No

b Did the organization, during the year, pay premiums directly or indirectly, on a personal benefit contract?

☐ Yes ☒ No**Note** If 'Yes' to (b), file Form 8870 and Form 4720 (see instructions)

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.

Please



Date

8/08/03

VICE - PRESIDENT

Date

Check if

Preparer's SSN or PTIN (see General Instruction W)

SCHEDULE A
(Form 990 or 990-EZ)Department of the Treasury
Internal Revenue Service**Organization Exempt Under
Section 501(c)(3)**(Except Private Foundation) and Section 501(e), 501(f), 501(k),
501(n), or Section 4947(a)(1) Nonexempt Charitable Trust

Supplementary Information — (See separate instructions)

▶ **MUST be completed by the above organizations and attached to their Form 990 or 990-EZ.**

OMB No 1545-0047

2002

Name of the organization

Vatican Observatory Foundation

Employer identification number

86-0559994

Part I Compensation of the Five Highest Paid Employees Other Than Officers, Directors, and Trustees

(See instructions. List each one. If there are none, enter 'None'.)

(a) Name and address of each employee paid more than \$50,000	(b) Title and average hours per week devoted to position	(c) Compensation	(d) Contributions to employee benefit plans and deferred compensation	(e) Expense account and other allowances
Nancy Knoche 2017 E Lee St , Tucson, AZ	Development Off 40	50,460	1,489	0
Total number of other employees paid over \$50,000 ▶	0			

Part II Compensation of the Five Highest Paid Independent Contractors for Professional Services

(See instructions. List each one (whether individuals or firms). If there are none, enter 'None'.)

(a) Name and address of each independent contractor paid more than \$50,000	(b) Type of service	(c) Compensation
None		
Total number of others receiving over \$50,000 for professional services ▶	0	

BAA For Paperwork Reduction Act Notice, see the Instructions for Form 990 and Form 990-EZ

Schedule A (Form 990 or 990-EZ) 2002

Part III Statements About Activities (See instructions)

Yes No

- 1 During the year, has the organization attempted to influence national, state, or local legislation including any attempt to influence public opinion on a legislative matter or referendum? If 'Yes,' enter the total expenses paid or incurred in connection with the lobbying activities ▶ \$ N/A

(Must equal amounts on line 38, Part VI A or line 1 of Part VI B)

1 X

Organizations that made an election under section 501(h) by filing Form 5768 must complete Part VI A. Other organizations checking 'Yes,' must complete Part VI B AND attach a statement giving a detailed description of the lobbying activities

- 2 During the year, has the organization, either directly or indirectly, engaged in any of the following acts with any substantial contributors, trustees, directors, officers, creators, key employees, or members of their families, or with any taxable organization with which any such person is affiliated as an officer, director, trustee, majority owner, or principal beneficiary? (If the answer to any question is 'Yes,' attach a detailed statement explaining the transactions.)

a Sale, exchange, or leasing of property?

2a X

b Lending of money or other extension of credit?

2b X

c Furnishing of goods, services, or facilities?

2c X

d Payment of compensation (or payment or reimbursement of expenses if more than \$1,000)?

2d X

e Transfer of any part of its income or assets?

2e X

- 3 Does the organization make grants for scholarships, fellowships, student loans, etc? (See Note below.)

3 X

- 4 Do you have a section 403(b) annuity plan for your employees?

4 X

Note. Attach a statement to explain how the organization determines that individuals or organizations receiving grants or loans from it in furtherance of its charitable programs qualify to receive payments.

Part IV Reason for Non-Private Foundation Status (See instructions)

The organization is not a private foundation because it is. (Please check only **ONE** applicable box.)

- 5 ☐ A church, convention of churches, or association of churches. Section 170(b)(1)(A)(i).
- 6 ☐ A school. Section 170(b)(1)(A)(ii). (Also complete Part V.)
- 7 ☐ A hospital or a cooperative hospital service organization. Section 170(b)(1)(A)(iii).
- 8 ☐ A Federal, state, or local government or governmental unit. Section 170(b)(1)(A)(v).
- 9 ☐ A medical research organization operated in conjunction with a hospital. Section 170(b)(1)(A)(iii). Enter the hospital's name, city, and state ▶ _____
- 10 ☐ An organization operated for the benefit of a college or university owned or operated by a governmental unit. Section 170(b)(1)(A)(iv). (Also complete the **Support Schedule** in Part IV A.)
- 11a ☒ An organization that normally receives a substantial part of its support from a governmental unit or from the general public. Section 170(b)(1)(A)(vi). (Also complete the **Support Schedule** in Part IV A.)
- 11b ☐ A community trust. Section 170(b)(1)(A)(vi). (Also complete the **Support Schedule** in Part IV A.)
- 12 ☐ 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 charitable, etc., functions — subject to certain exceptions — and (2) no more than 33-1/3% of its support from gross investment income and unrelated business taxable income (less section 511 tax) from businesses acquired by the organization after June 30, 1975. See section 509(a)(2). (Also complete the **Support Schedule** in Part IV A.)
- 13 ☐ An organization that is not controlled by any disqualified persons (other than foundation managers) and supports organizations described in (1) lines 5 through 12 above, or (2) section 501(c)(4), (5), or (6), if they meet the test of section 509(a)(2). (See section 509(a)(3).)

Provide the following information about the supported organizations. (See instructions.)

(a) Name(s) of supported organization(s)	(b) Line number from above

- 14 ☐ An organization organized and operated to test for public safety. Section 509(a)(4). (See instructions.)

Part IV-A Support Schedule (Complete only if you checked a box on line 10, 11, or 12) *Use cash method of accounting***Note** You may use the worksheet in the instructions for converting from the accrual to the cash method of accounting

Calendar year (or fiscal year beginning in)	(a) 2001	(b) 2000	(c) 1999	(d) 1998	(e) Total
15 Gifts, grants, and contributions received (Do not include unusual grants. See line 28.)	532,816	445,481	1,792,304	1,038,984	3,809,585
16 Membership fees received					
17 Gross receipts from admissions, merchandise sold or services performed, or furnishing of facilities in any activity that is related to the organization's charitable, etc., purpose	33,314	17,257	34,208	15,387	100,166
18 Gross income from interest, dividends amounts received from payments on securities loans (section 512(a)(5)), rents, royalties, and unrelated business taxable income (less section 511 taxes) from businesses acquired by the organization after June 30, 1975	89,890	285,593	179,352	1,887	556,722
19 Net income from unrelated business activities not included in line 18					
20 Tax revenues levied for the organization's benefit and either paid to it or expended on its behalf					
21 The value of services or facilities furnished to the organization by a governmental unit without charge. Do not include the value of services or facilities generally furnished to the public without charge.					
22 Other income. Attach a schedule. Do not include gain or (loss) from sale of capital assets. See Stmt 10.	15,750	15,000	202		30,952
23 Total of lines 15 through 22	671,770	763,331	2,006,066	1,056,258	4,497,425
24 Line 23 minus line 17	638,456	746,074	1,971,858	1,040,871	4,397,259
25 Enter 1% of line 23	6,718	7,633	20,061	10,563	

26 Organizations described on lines 10 or 11	a Enter 2% of amount in column (e), line 24	26a	87,945
b Prepare a list for your records to show the name of and amount contributed by each person (other than a governmental unit or publicly supported organization) whose total gifts for 1998 through 2001 exceeded the amount shown in line 26a. Do not file this list with your return. Enter the total of all these excess amounts.		26b	1,463,827
c Total support for section 509(a)(1) test. Enter line 24, column (e).		26c	4,397,259
d Add: Amounts from column (e) for lines	18 556,722 19		
	22 30,952 26b 1,463,827	26d	2,051,501
e Public support (line 26c minus line 26d total)		26e	2,345,758
f Public support percentage (line 26e (numerator) divided by line 26c (denominator))		26f	53.35 %

27 Organizations described on line 12	N/A
a For amounts included in lines 15, 16, and 17 that were received from a 'disqualified person,' prepare a list for your records to show the name of, and total amounts received in each year from, each 'disqualified person.' Do not file this list with your return. Enter the sum of such amounts for each year: (2001) _____ (2000) _____ (1999) _____ (1998) _____	
b For any amount included in line 17 that was received from each person (other than 'disqualified persons') prepare a list for your records to show the name of, and amount received for each year, that was more than the larger of (1) the amount on line 25 for the year or (2) \$5,000. (Include in the list organizations described in lines 5 through 11, as well as individuals.) Do not file this list with your return. After computing the difference between the amount received and the larger amount described in (1) or (2), enter the sum of these differences (the excess amounts) for each year: (2001) _____ (2000) _____ (1999) _____ (1998) _____	
c Add: Amounts from column (e) for lines	15 _____ 16 _____
	17 _____ 20 _____ 21 _____
d Add: Line 27a total _____ and line 27b total _____	27c _____
e Public support (line 27c total minus line 27d total)	27d _____
f Total support for section 509(a)(2) test. Enter amount from line 23, column (e).	27e _____
g Public support percentage (line 27e (numerator) divided by line 27f (denominator))	27f _____
h Investment income percentage (line 18, column (e) (numerator) divided by line 27f (denominator))	27g _____ %
	27h _____ %

28 Unusual Grants For an organization described in line 10, 11, or 12 that received any unusual grants during 1998 through 2001, prepare a list for your records to show, for each year, the name of the contributor, the date and amount of the grant, and a brief description of the nature of the grant. Do not file this list with your return. Do not include these grants in line 15.

Part V Private School Questionnaire (See instructions)
(To be completed ONLY by schools that checked the box on line 6 in Part IV)

N/A

	Yes	No
29 Does the organization have a racially nondiscriminatory policy toward students by statement in its charter, bylaws, other governing instrument, or in a resolution of its governing body?	29	
30 Does the organization include a statement of its racially nondiscriminatory policy toward students in all its brochures, catalogues, and other written communications with the public dealing with student admissions, programs, and scholarships?	30	
31 Has the organization publicized its racially nondiscriminatory policy through newspaper or broadcast media during the period of solicitation for students or during the registration period if it has no solicitation program, in a way that makes the policy known to all parts of the general community it serves? If 'Yes,' please describe, if 'No,' please explain (If you need more space attach a separate statement)	31	

32 Does the organization maintain the following		
a Records indicating the racial composition of the student body, faculty, and administrative staff?	32a	
b Records documenting that scholarships and other financial assistance are awarded on a racially nondiscriminatory basis?	32b	
c Copies of all catalogues, brochures, announcements, and other written communications to the public dealing with student admissions, programs, and scholarships?	32c	
d Copies of all material used by the organization or on its behalf to solicit contributions?	32d	
If you answered 'No' to any of the above please explain (If you need more space attach a separate statement)		

33 Does the organization discriminate by race in any way with respect to		
a Students' rights or privileges?	33a	
b Admissions policies?	33b	
c Employment of faculty or administrative staff?	33c	
d Scholarships or other financial assistance?	33d	
e Educational policies?	33e	
f Use of facilities?	33f	
g Athletic programs?	33g	
h Other extracurricular activities?	33h	
If you answered 'Yes' to any of the above please explain (If you need more space, attach a separate statement)		

34a Does the organization receive any financial aid or assistance from a governmental agency?	34a	
b Has the organization's right to such aid ever been revoked or suspended?	34b	
If you answered 'Yes' to either 34a or b please explain using an attached statement		
35 Does the organization certify that it has complied with the applicable requirements of sections 4 01 through 4 05 of Rev Proc 75 50, 1975 2 C B 587, covering racial nondiscrimination? If 'No,' attach an explanation	35	

Part VI-A Lobbying Expenditures by Electing Public Charities (See instructions)
(To be completed **ONLY** by an eligible organization that filed Form 5768)

N/A

Check ☐ **a** if the organization belongs to an affiliated group Check ☐ **b** if you checked 'a' and limited control provisions apply**Limits on Lobbying Expenditures**

(The term 'expenditures' means amounts paid or incurred)

	(a) Affiliated group totals	(b) To be completed for ALL electing organizations
36 Total lobbying expenditures to influence public opinion (grassroots lobbying)	36	
37 Total lobbying expenditures to influence a legislative body (direct lobbying)	37	
38 Total lobbying expenditures (add lines 36 and 37)	38	
39 Other exempt purpose expenditures	39	
40 Total exempt purpose expenditures (add lines 38 and 39)	40	
41 Lobbying nontaxable amount Enter the amount from the following table -		
If the amount on line 40 is -		
Not over \$500,000		
Over \$500,000 but not over \$1,000,000		
Over \$1,000,000 but not over \$1,500,000		
Over \$1,500,000 but not over \$17,000,000		
Over \$17,000,000		
The lobbying nontaxable amount is -		
20% of the amount on line 40		
\$100,000 plus 15% of the excess over \$500,000		
\$175,000 plus 10% of the excess over \$1,000,000		
\$225,000 plus 5% of the excess over \$1,500,000		
\$1,000,000		
42 Grassroots nontaxable amount (enter 25% of line 41)	42	
43 Subtract line 42 from line 36 Enter 0 if line 42 is more than line 36	43	
44 Subtract line 41 from line 38 Enter 0 if line 41 is more than line 38	44	

Caution If there is an amount on either line 43 or line 44 you must file Form 4720**4-Year Averaging Period Under Section 501(h)**(Some organizations that made a section 501(h) election do not have to complete all of the five columns below
See the instructions for lines 45 through 50)

Lobbying Expenditures During 4-Year Averaging Period					
Calendar year (or fiscal year beginning in) ▶	(a) 2002	(b) 2001	(c) 2000	(d) 1999	(e) Total
45 Lobbying nontaxable amount					
46 Lobbying ceiling amount (150% of line 45(e))					
47 Total lobbying expenditures					
48 Grassroots non taxable amount					
49 Grassroots ceiling amount (150% of line 48(e))					
50 Grassroots lobbying expenditures					

Part VI-B Lobbying Activity by Nonelecting Public Charities

(For reporting only by organizations that did not complete Part VI-A) (See instructions)

N/A

During the year, did the organization attempt to influence national, state or local legislation, including any attempt to influence public opinion on a legislative matter or referendum, through the use of

Yes	No	Amount

a Volunteers**b** Paid staff or management (Include compensation in expenses reported on lines c through h)**c** Media advertisements**d** Mailings to members, legislators, or the public**e** Publications, or published or broadcast statements**f** Grants to other organizations for lobbying purposes**g** Direct contact with legislators, their staffs, government officials, or a legislative body**h** Rallies demonstrations, seminars conventions, speeches lectures, or any other means**i** Total lobbying expenditures (add lines c through h)

If 'Yes' to any of the above also attach a statement giving a detailed description of the lobbying activities

BAA

Schedule A (Form 990 or 990-EZ) 2002

Part VII	Information Regarding Transfers To and Transactions and Relationships With Noncharitable Exempt Organizations (See instructions)
-----------------	---

51 Did the reporting organization directly or indirectly engage in any of the following with any other organization described in section 501(c) of the Code (other than section 501(c)(3) organizations) or in section 527 relating to political organizations?

a Transfers from the reporting organization to a noncharitable exempt organization of

(i) Cash

(ii) Other assets

b Other transactions

(i) Sales or exchanges of assets with a noncharitable exempt organization.

(ii) Purchases of assets from a noncharitable exempt organization

(iii) Rental of facilities, equipment, or other assets

(iv) Reimbursement arrangements

(v) Loans or loan guarantees

(vi) Performance of services or membership or fundraising solicitations

c Sharing of facilities, equipment, mailing lists, other assets, or paid employees

d. If the answer to any of the above is 'Yes,' complete the following schedule. Column (b) should always show the fair market value of the goods, other assets, or services given by the reporting organization. If the organization received less than fair market value in any transaction or sharing arrangement, show in column (d) the value of the goods, other assets, or services received.

	Yes	No
51 a (i)		X
a (ii)		X
b (i)		X
b (ii)		X
b (iii)		X
b (iv)		X
b (v)		X
b (vi)		X
c		X

[illegible]

52 a Is the organization directly or indirectly affiliated with or related to, one or more tax exempt organizations described in section 501(c) of the Code (other than section 501(c)(3)) or in section 527?

► ☐ Yes ☒ No

b If 'Yes, complete the following schedule

[illegible]

Vatican Observatory Foundation

86-0559994

Statement 1
Form 990, Part I, Line 8
Net Gain (Loss) from Noninventory Sales

Publicly Traded Securities

Gross Sales Price 1,344,865
 Cost or Other Basis 1,660,222

Total Gain (Loss) Publicly Traded Securities \$ -315,357

Total Net Gain (Loss) From Noninventory Sales \$ -315,357

Statement 2
Form 990, Part I, Line 20
Other Changes in Net Assets or Fund Balances

Net Unrealized Loss on Securities Total \$ -514,784

Statement 3
Form 990, Part II, Line 43
Other Expenses

	(A) Total	(B) Program Services	(C) Management & General	(D) Fundraising
Auto, Fuel & Lubricant	2,241	2,241		
Fundraising	26,773			26,773
Indirect Charges	41,574	41,574		
Insurance	17,828	9,662	3,850	4,316
Investment Fees	33,758		33,758	
MGIO expenses	98,155	98,155		
Miscellaneous	3,179	1,329	475	1,375
Newsletter	838			838
Outside Services	3,600.	3,600		
Utilities	14,613	14,613.		
Total	\$ <u>242,559</u>	\$ <u>171,174</u>	\$ <u>38,083</u>	\$ <u>33,302</u>

Statement 4
Form 990, Part IV, Line 54
Investments - Securities

<u>Corporate Stocks</u>	<u>Valuation Method</u>	<u>Amount</u>
Common equity securities	Market Value	\$ 2,165,099
	Total	\$ <u>2,165,099</u>

Statement 4 (continued)
Form 990, Part IV, Line 54
Investments - Securities

<u>Other Securities</u>	<u>Valuation Method</u>	<u>Amount</u>
Mutual funds	Market Value	\$ 995,720
	Total	\$ 995,720
Total Investments - Securities		<u>\$ 3,160,819</u>

Statement 5
Form 990, Part IV, Line 57
Land, Buildings, and Equipment

<u>Category</u>	<u>Basis</u>	<u>Accum Deprec</u>	<u>Book Value</u>
Automobiles / Transportation Equipment	\$ 24,278	\$ 24,278	\$ 0
Furniture and Fixtures	89,753	59,113	30,640
Machinery and Equipment	1,559,796	295,928	1,263,868
Buildings	1,641,554	505,749	1,135,805
Total	<u>\$ 3,315,381</u>	<u>\$ 885,068</u>	<u>\$ 2,430,313</u>

Statement 6
Form 990, Part IV, Line 58
Other Assets

Deposits	\$ 126
Noncurrent pledges receivable	19,821
Prepaid insurance	2,725
Total	<u>\$ 22,672</u>

Statement 7
Form 990, Part IV, Line 65
Other Liabilities

Commissioning liability	\$ 48,264
Total	<u>\$ 48,264</u>

Vatican Observatory Foundation

86-0559994

Statement 8
Form 990, Part V
List of Officers, Directors, Trustees, and Key Employees

Name and Address	Title and Average Hours Per Week Devoted	Compen- sation	Contri- bution to EBP & DC	Expense Account/ Other
Dr George V Coyne, S J 2017 E Lee Street Tucson, AZ 85716	President 20	\$ 0	\$ 0	\$ 0
Dr Christopher J Corbally 2844 E First Street Tucson, AZ 85716	1st Vice-Pres As needed	0	0	0
Dr Richard P Boyle, S J 2017 E Lee Street Tucson, AZ 85719	2nd Vice-Pres As needed	0	0	0
Charles S. Currie One Dupont Circle NW Suite 405 Washington, DC 20036	Director As needed	0	0	0
Dr William R Stoeger, S J 2017 East Lee Street Tucson, AZ 85719	Secretary As needed	0	0	0
Ms Sheila Grinell 600 East Washington Street Phoenix, AZ 85004	Director As needed	0	0	0
Mr Michael A Cronin 3200 N Central Ave , #1800 Phoenix, AZ 85012	Director As needed	0	0	0
Mrs Karen Dalby 353 N Gunston Drive Los Angeles, CA 90049	Director As needed	0	0	0
Mr Paul M Henkels 985 Jolly Road Blue Bell, PA 19422	Treasurer As needed	0	0	0
Bro John B Hollywood, S J 5704 Roland Dr Baltimore, MD, 21210	Director As needed	0	0	0
Mrs Paula O D'Angelo 700A South Laflin Street Chicago, IL 60607	Director As needed	0	0	0
Mr Ben Dalby 353 N Gunston Drive Los Angeles, CA 90049	Director As needed	0	0	0

Vatican Observatory Foundation

86-0559994

Statement 8 (continued)

Form 990, Part V

List of Officers, Directors, Trustees, and Key Employees

Name and Address	Title and Average Hours Per Week Devoted	Compen- sation	Contri- bution to EBP & DC	Expense Account/ Other
Mr Peter P Mullen 919 Third Avenue New York, NY 10022	Director As needed	\$ 0	\$ 0	\$ 0
Dr Faith Vilas NASA Headqtrrs , 300 E St Washington, DC 20546	Director As needed	0	0	0
Mr Richard J Friedrich 5622 Snowdown Place San Jose, CA 95138	Director As needed	0	0	0
Dr Brendan D Thomson, M D 325 W Lamar Dr Phoenix, AZ 85013	Director As needed	0	0	0
Mr Manuel J Espinoza 1465 Lakeridge Lane El Cajon, CA 92020	Director As needed	0	0	0
Mr James C McGee 5620 Softwind Drive Glendale, AZ 85310	Director As needed	0	0	0
Mr Christopher P Hitchcock 29500 Solon Road Solon, OH 44139	Director As needed	0	0	0
Mr John B Henkels 4226 Cumberland Road Salt Lake City, UT 84124	Director As needed	0	0	0
Dr Rocco L Martino 999 Old Eagle School Road #110 Wayne, PA 19087	Director As needed	0	0	0
Dr June Scobee Rodgers 1306 Sunset Drive Signal Mountain, TN 37377	Director As needed	0	0	0

Total \$ 0. \$ 0 \$ 0

Vatican Observatory Foundation

86-0559994

Statement 9
Form 990, Part VIII
Relationship of Activities to the Accomplishment of Exempt Purposes

Line #	Explanation of Activities
93A	The Vatican Observatory staff write scientific publications based on their research findings. The foundation administers these royalties in furtherance of its exempt purpose.
100	The Foundation uses proceeds from the sale of various investments, described in the balance sheet statements, to help further its exempt purpose of astronomical research and discovery.

Statement 10
Schedule A, Part IV-A, Line 22
Other Income

Description	(a) 2001	(b) 2000	(c) 1999	(d) 1998	(e) Total
Other Investment Income	\$ 0	\$ 0	\$ 202	\$ 0	\$ 202
Other Income	15,750	15,000	0	0	30,750
Total	<u>\$ 15,750</u>	<u>\$ 15,000</u>	<u>\$ 202</u>	<u>\$ 0</u>	<u>\$ 30,952</u>

Vatican Observatory Foundation

86-0559994

Part II, Statement of Functional Expenses, Line 26, Other Salaries and Wages

Please note that the Vatican Observatory Foundation has one employee. Except for \$50,460 paid to Nancy Knoche, the only organization's employee, salaries and wages are an allocation from the University of Arizona for the operation, upkeep and maintenance of the telescope.

**Application for Extension of Time to File an
Exempt Organization Return**

OMB No 1545 1709

Department of the Treasury
Internal Revenue Service

▶ File a separate application for each return

- If you are filing for an **Automatic 3-Month Extension**, complete only **Part I** and check this box ☒
- If you are filing for an **Additional (not automatic) 3-Month Extension**, complete only **Part II** (on page 2 of this form)

Note: Do not complete Part II unless you have already been granted an automatic 3-month extension on a previously filed Form 8868**Part I Automatic 3-Month Extension of Time** — Only submit original (no copies needed)**Note Form 990-T corporations** requesting an automatic 6 month extension — check this box and complete Part I only ☐

All other corporations (including Form 990 C filers) must use Form 7004 to request an extension of time to file income tax returns. Partnerships, REMICs and trusts must use Form 8736 to request an extension of time to file Form 1065, 1066, or 1041

Type or print File by the due date for filing your return. See instructions	Name of Exempt Organization	Employer identification number
	Vatican Observatory Foundation	86-0559994
	Number street and room or suite number. If a P.O. box, see instructions	
	2017 East Lee Street	
	City, town or post office. For a foreign address, see instructions	state ZIP code
	Tucson, AZ 85719	

Check type of return to be filed (file a separate application for each return)

<input checked="" type="checkbox"/> Form 990	<input type="checkbox"/> Form 990-T (corporation)	<input type="checkbox"/> Form 4720
<input type="checkbox"/> Form 990-BL	<input type="checkbox"/> Form 990-T (Section 401(a) or 408(a) trust)	<input type="checkbox"/> Form 5227
<input type="checkbox"/> Form 990-EZ	<input type="checkbox"/> Form 990-T (trust other than above)	<input type="checkbox"/> Form 6069
<input type="checkbox"/> Form 990-PF	<input type="checkbox"/> Form 1041-A	<input type="checkbox"/> Form 8870

- If the organization does **not** have an office or place of business in the United States, check this box ☐
- If this is for a **Group Return**, enter the organization's four digit Group Exemption Number (GEN) _____ If this is for the **whole** group, check this box ☐ If it is for part of the group, check this box ☐ and attach a list with the names and EINs of all members the extension will cover

1 I request an automatic 3 month (6-month, for **990-T corporation**) extension of time until 8/15, 20 03, to file the exempt organization return for the organization named above. The extension is for the organization's return for

▶ ☒ calendar year 20 02 or▶ ☐ tax year beginning _____, 20 _____, and ending _____, 20 _____

2 If this tax year is for less than 12 months, check reason ☐ Initial return ☐ Final return ☐ Change in accounting period

3a If this application is for Form 990-BL, 990-PF, 990-T, 4720, or 6069, enter the tentative tax, less any nonrefundable credits. See instructions.

\$ _____ 0.

b If this application is for Form 990-PF or 990-T, enter any refundable credits and estimated tax payments made. Include any prior year overpayment allowed as a credit.

\$ _____ 0.

c **Balance Due** Subtract line 3b from line 3a. Include your payment with this form, or, if required, deposit with FTD coupon or, if required, by using EFTPS (Electronic Federal Tax Payment System). See instructions.

\$ _____ 0.

Signature and Verification

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, and that I am authorized to prepare this form.

Signature ▶ Bradley R. [Signature]Title ▶ CRADate ▶ 5/12/03

BAA For Paperwork Reduction Act Notice, see instructions

Form **8868** (12 2000)