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Part III

Statement of Program Service Accomplishments

Check if Schedule O contains a response to any question in this Part III

1

Briefly describe the organization's mission

To advance the frontiers of astronomy and share our discoveries with the world The two 10-meter telescopes of the Keck Observatory are the world's largest optical and infrared telescopes With their suite of highly sensitive instrumentation, time on the Keck telescopes is one of the most sought after resources in astronomical and planetary science research CARA was formed by The Regents of the University of California, a state institution of higher education and California Institute of Technology, a Section 501(c)3 institution of higher education, to operate two 10-meter optical/infrared telescopes on the summit of Mauna Kea on the island of Hawai'i, one of the world's premier sites for astronomy

2

Did the organization undertake any significant program services during the year which were not listed on the prior Form 990 or 990-EZ?

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?

If "Yes," describe these changes on Schedule O

4

Describe the exempt purpose achievements for each of the organization's three largest program services by expenses Section 501(c)(3) and 501(c)(4) organizations and section 4947(a)(1) trusts 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 \$ 15,990,821 including grants of \$ 172,741) (Revenue \$ 5,619,882)
	Higher Education The twin telescopes are dedicated to astronomical research 365 days/nights per year and feature a suite of advanced instrumentation including imagers, multi-object spectrographs, high-resolution spectrographs, and integral-field spectroscopy Keck has developed and operates a sophisticated natural and laser guide star adaptive optics system and also operates the only large-aperture infrared interferometer in the United States Observing time on the Keck telescopes is divided each year among its partner institutions the California Institute of Technology, University of California, and NASA as well as the University of Hawai'i The broader observing community has access to the telescopes through partnerships with the National Science Foundation and NASA CARA's activities include entering into grants and contracts to carry out research and instrumentation development Keck's legacy of exploration includes the discovery of exoplanets, the study of how planets, stars and galaxies form, the nature of black holes, and the chemical composition and evolution of the Universe
4b	(Code) (Expenses \$ 124,962 including grants of \$ 0) (Revenue \$ 49,104)
	Public Information Each year, Keck Observatory sponsors dozens of educational programs for Hawai'i Island families, educators, students, and international enthusiasts to foster a greater appreciation of science and its many contributions to society On a global level, the Observatory sponsors Keck Nation, a growing on-line community whose members are the first to receive science news and discoveries
4c	(Code) (Expenses \$ 5,161 including grants of \$ 0) (Revenue \$ 5,161)
	Research Keck Observatory's activities include submitting grant proposals to carry out small research projects
4d	Other program services (Describe in Schedule O)
	(Expenses \$ 0 including grants of \$ 0) (Revenue \$ 0)
4e	Total program service expenses \$ 16,120,944

Part IV

Checklist of Required Schedules

		Yes	No
1	Is the organization described in section 501(c)(3) or 4947(a)(1) (other than a private foundation)? <i>If "Yes," complete Schedule A.</i> 	Yes	
2	Is the organization required to complete Schedule B, Schedule of Contributors (see instruction)? 	Yes	
3	Did the organization engage in direct or indirect political campaign activities on behalf of or in opposition to candidates for public office? <i>If "Yes," complete Schedule C, Part I.</i>		No
4	Section 501(c)(3) organizations. Did the organization engage in lobbying activities, or have a section 501(h) election in effect during the tax year? <i>If "Yes," complete Schedule C, Part II.</i>		No
5	Is the organization a section 501(c)(4), 501(c)(5), or 501(c)(6) organization that receives membership dues, assessments, or similar amounts as defined in Revenue Procedure 98-19? <i>If "Yes," complete Schedule C, Part III.</i>		No
6	Did the organization maintain any donor advised funds or any similar funds or accounts where donors have the right to provide advice on the distribution or investment of amounts in such funds or accounts? <i>If "Yes," complete Schedule D, Part I.</i>		No
7	Did the organization receive or hold a conservation easement, including easements to preserve open space, the environment, historic land areas or historic structures? <i>If "Yes," complete Schedule D, Part II.</i>		No
8	Did the organization maintain collections of works of art, historical treasures, or other similar assets? <i>If "Yes," complete Schedule D, Part III.</i>		No
9	Did the organization report an amount in Part X, line 21, serve as a custodian for amounts not listed in Part X, or provide credit counseling, debt management, credit repair, or debt negotiation services? <i>If "Yes," complete Schedule D, Part IV.</i>		No
10	Did the organization, directly or through a related organization, hold assets in term, permanent, or quasi-endowments? <i>If "Yes," complete Schedule D, Part V.</i>		No
11	If the organization's answer to any of the following questions is 'Yes,' then complete Schedule D, Parts VI, VII, VIII, IX, or X as applicable		
a	Did the organization report an amount for land, buildings, and equipment in Part X, line 10? <i>If "Yes," complete Schedule D, Part VI.</i> 	Yes	
b	Did the organization report an amount for investments—other securities in Part X, line 12 that is 5% or more of its total assets reported in Part X, line 16? <i>If "Yes," complete Schedule D, Part VII.</i>		No
c	Did the organization report an amount for investments—program related in Part X, line 13 that is 5% or more of its total assets reported in Part X, line 16? <i>If "Yes," complete Schedule D, Part VIII.</i>		No
d	Did the organization report an amount for other assets in Part X, line 15 that is 5% or more of its total assets reported in Part X, line 16? <i>If "Yes," complete Schedule D, Part IX.</i>		No
e	Did the organization report an amount for other liabilities in Part X, line 25? <i>If "Yes," complete Schedule D, Part X.</i>		No
f	Did the organization's separate or consolidated financial statements for the tax year include a footnote that addresses the organization's liability for uncertain tax positions under FIN 48 (ASC 740)? <i>If "Yes," complete Schedule D, Part X.</i>		No
12a	Did the organization obtain separate, independent audited financial statements for the tax year? <i>If "Yes," complete Schedule D, Parts XI, XII, and XIII.</i> 	Yes	
b	Was the organization included in consolidated, independent audited financial statements for the tax year? <i>If "Yes," and if the organization answered 'No' to line 12a, then completing Schedule D, Parts XI, XII, and XIII is optional.</i> 		No
13	Is the organization a school described in section 170(b)(1)(A)(ii)? <i>If "Yes," complete Schedule E.</i>		No
14a	Did the organization maintain an office, employees, or agents outside of the United States?		No
b	Did the organization have aggregate revenues or expenses of more than \$10,000 from grantmaking, fundraising, business, and program service activities outside the United States? <i>If "Yes," complete Schedule F, Parts I and IV.</i> 	Yes	
15	Did the organization report on Part IX, column (A), line 3, more than \$5,000 of grants or assistance to any organization or entity located outside the U S ? <i>If "Yes," complete Schedule F, Parts II and IV.</i>		No
16	Did the organization report on Part IX, column (A), line 3, more than \$5,000 of aggregate grants or assistance to individuals located outside the U S ? <i>If "Yes," complete Schedule F, Parts III and IV.</i>		No
17	Did the organization report a total of more than \$15,000, of expenses for professional fundraising services on Part IX, column (A), lines 6 and 11e? <i>If "Yes," complete Schedule G, Part I (see instructions).</i>		No
18	Did the organization report more than \$15,000 total of fundraising event gross income and contributions on Part VIII, lines 1c and 8a? <i>If "Yes," complete Schedule G, Part II.</i>		No
19	Did the organization report more than \$15,000 of gross income from gaming activities on Part VIII, line 9a? <i>If "Yes," complete Schedule G, Part III.</i>		No
20a	Did the organization operate one or more hospitals? <i>If "Yes," complete Schedule H.</i>		No
b	If "Yes" to line 20a, did the organization attach its audited financial statement to this return? Note. Some Form 990 filers that operate one or more hospitals must attach audited financial statements (see instructions).		

Part IV

Checklist of Required Schedules (continued)

21	Did the organization report more than \$5,000 of grants and other assistance to governments and organizations in the United States on Part IX, column (A), line 1? <i>If "Yes," complete Schedule I, Parts I and II</i>	21	Yes	
22	Did the organization report more than \$5,000 of grants and other assistance to individuals in the United States on Part IX, column (A), line 2? <i>If "Yes," complete Schedule I, Parts I and III</i>	22		No
23	Did the organization answer "Yes" to Part VII, Section A, questions 3, 4, or 5, about compensation of the organization's current and former officers, directors, trustees, key employees, and highest compensated employees? <i>If "Yes," complete Schedule J</i>	23	Yes	
24a	Did the organization have a tax-exempt bond issue with an outstanding principal amount of more than \$100,000 as of the last day of the year, that was issued after December 31, 2002? <i>If "Yes," answer lines 24b–24d and complete Schedule K. If "No," go to line 25</i>	24a		No
b	Did the organization invest any proceeds of tax-exempt bonds beyond a temporary period exception?	24b		
c	Did the organization maintain an escrow account other than a refunding escrow at any time during the year to defease any tax-exempt bonds?	24c		
d	Did the organization act as an "on behalf of" issuer for bonds outstanding at any time during the year?	24d		
25a	Section 501(c)(3) and 501(c)(4) organizations. Did the organization engage in an excess benefit transaction with a disqualified person during the year? <i>If "Yes," complete Schedule L, Part I</i>	25a		No
b	Is the organization aware that it engaged in an excess benefit transaction with a disqualified person in a prior year, and that the transaction has not been reported on any of the organization's prior Forms 990 or 990-EZ? <i>If "Yes," complete Schedule L, Part I</i>	25b		No
26	Was a loan to or by a current or former officer, director, trustee, key employee, highly compensated employee, or disqualified person outstanding as of the end of the organization's tax year? <i>If "Yes," complete Schedule L, Part II</i>	26		No
27	Did the organization provide a grant or other assistance to an officer, director, trustee, key employee, substantial contributor, or a grant selection committee member, or to a person related to such an individual? <i>If "Yes," complete Schedule L, Part III</i>	27		No
28	Was the organization a party to a business transaction with one of the following parties? (see Schedule L, Part IV instructions for applicable filing thresholds, conditions, and exceptions)			
a	A current or former officer, director, trustee, or key employee? <i>If "Yes," complete Schedule L, Part IV</i>	28a		No
b	A family member of a current or former officer, director, trustee, or key employee? <i>If "Yes," complete Schedule L, Part IV</i>	28b		No
c	An entity of which a current or former officer, director, trustee, or key employee (or a family member thereof) was an officer, director, trustee, or direct or indirect owner? <i>If "Yes," complete Schedule L, Part IV</i>	28c		No
29	Did the organization receive more than \$25,000 in non-cash contributions? <i>If "Yes," complete Schedule M</i>	29		No
30	Did the organization receive contributions of art, historical treasures, or other similar assets, or qualified conservation contributions? <i>If "Yes," complete Schedule M</i>	30		No
31	Did the organization liquidate, terminate, or dissolve and cease operations? <i>If "Yes," complete Schedule N, Part I</i>	31		No
32	Did the organization sell, exchange, dispose of, or transfer more than 25% of its net assets? <i>If "Yes," complete Schedule N, Part II</i>	32		No
33	Did the organization own 100% of an entity disregarded as separate from the organization under Regulations sections 301.7701-2 and 301.7701-3? <i>If "Yes," complete Schedule R, Part I</i>	33		No
34	Was the organization related to any tax-exempt or taxable entity? <i>If "Yes," complete Schedule R, Parts II, III, IV, and V, line 1</i>	34		No
35	Is any related organization a controlled entity within the meaning of section 512(b)(13)?	35		No
a	Did the organization receive any payment from or engage in any transaction with a controlled entity within the meaning of section 512(b)(13)? <i>If "Yes," complete Schedule R, Part V, line 2</i> ☐ Yes ☒ No			
36	Section 501(c)(3) organizations. Did the organization make any transfers to an exempt non-charitable related organization? <i>If "Yes," complete Schedule R, Part V, line 2</i>	36		No
37	Did the organization conduct more than 5% of its activities through an entity that is not a related organization and that is treated as a partnership for federal income tax purposes? <i>If "Yes," complete Schedule R, Part VI</i>	37		No
38	Did the organization complete Schedule O and provide explanations in Schedule O for Part VI, lines 11 and 19? Note. All Form 990 filers are required to complete Schedule O	38	Yes	

Part V Statements Regarding Other IRS Filings and Tax Compliance			
Check if Schedule O contains a response to any question in this Part V ☐			
		Yes	No
1a	Enter the number reported in Box 3 of Form 1096. Enter -0- if not applicable.	1a	37
b	Enter the number of Forms W-2G included in line 1a. Enter -0- if not applicable.	1b	0
c	Did the organization comply with backup withholding rules for reportable payments to vendors and reportable gaming (gambling) winnings to prize winners?	1c	Yes
2a	Enter the number of employees reported on Form W-3, <i>Transmittal of Wage and Tax Statements</i> filed for the calendar year ending with or within the year covered by this return.	2a	144
b	If at least one is reported on line 2a, did the organization file all required federal employment tax returns? Note. If the sum of lines 1a and 2a is greater than 250, you may be required to e-file (see instructions).	2b	Yes
3a	Did the organization have unrelated business gross income of \$1,000 or more during the year?	3a	No
b	If "Yes," has it filed a Form 990-T for this year? If "No," provide an explanation in Schedule O.	3b	
4a	At any time during the calendar year, did the organization have an interest in, or a signature or other authority over, a financial account in a foreign country (such as a bank account, securities account, or other financial account)?	4a	No
b	If "Yes," enter the name of the foreign country: _____ See instructions for filing requirements for Form TD F 90-22.1, Report of Foreign Bank and Financial Accounts.		
5a	Was the organization a party to a prohibited tax shelter transaction at any time during the tax year?	5a	No
b	Did any taxable party notify the organization that it was or is a party to a prohibited tax shelter transaction?	5b	No
c	If "Yes" to line 5a or 5b, did the organization file Form 8886-T?	5c	
6a	Does the organization have annual gross receipts that are normally greater than \$100,000, and did the organization solicit any contributions that were not tax deductible?	6a	No
b	If "Yes," did the organization include with every solicitation an express statement that such contributions or gifts were not tax deductible?	6b	
7	Organizations that may receive deductible contributions under section 170(c).		
a	Did the organization receive a payment in excess of \$75 made partly as a contribution and partly for goods and services provided to the payor?	7a	No
b	If "Yes," did the organization notify the donor of the value of the goods or services provided?	7b	
c	Did the organization sell, exchange, or otherwise dispose of tangible personal property for which it was required to file Form 8282?	7c	No
d	If "Yes," indicate the number of Forms 8282 filed during the year.	7d	
e	Did the organization receive any funds, directly or indirectly, to pay premiums on a personal benefit contract?	7e	No
f	Did the organization, during the year, pay premiums, directly or indirectly, on a personal benefit contract?	7f	No
g	If the organization received a contribution of qualified intellectual property, did the organization file Form 8899 as required?	7g	
h	If the organization received a contribution of cars, boats, airplanes, or other vehicles, did the organization file a Form 1098-C?	7h	
8	Sponsoring organizations maintaining donor advised funds and section 509(a)(3) supporting organizations. Did the supporting organization, or a donor advised fund maintained by a sponsoring organization, have excess business holdings at any time during the year?	8	
9	Sponsoring organizations maintaining donor advised funds.		
a	Did the organization make any taxable distributions under section 4966?	9a	
b	Did the organization make a distribution to a donor, donor advisor, or related person?	9b	
10	Section 501(c)(7) organizations. Enter		
a	Initiation fees and capital contributions included on Part VIII, line 12.	10a	
b	Gross receipts, included on Form 990, Part VIII, line 12, for public use of club facilities.	10b	
11	Section 501(c)(12) organizations. Enter		
a	Gross income from members or shareholders.	11a	
b	Gross income from other sources (Do not net amounts due or paid to other sources against amounts due or received from them).	11b	
12a	Section 4947(a)(1) non-exempt charitable trusts. Is the organization filing Form 990 in lieu of Form 1041?	12a	
b	If "Yes," enter the amount of tax-exempt interest received or accrued during the year.	12b	
13	Section 501(c)(29) qualified nonprofit health insurance issuers.		
a	Is the organization licensed to issue qualified health plans in more than one state? Note. See the instructions for additional information the organization must report on Schedule O.	13a	
b	Enter the amount of reserves the organization is required to maintain by the states in which the organization is licensed to issue qualified health plans.	13b	
c	Enter the amount of reserves on hand.	13c	
14a	Did the organization receive any payments for indoor tanning services during the tax year?	14a	No
b	If "Yes," has it filed a Form 720 to report these payments? If "No," provide an explanation in Schedule O.	14b	

Part VI

Governance, Management, and Disclosure For each "Yes" response to lines 2 through 7b below, and for a "No" response to lines 8a, 8b, or 10b below, describe the circumstances, processes, or changes in Schedule O. See instructions.
Check if Schedule O contains a response to any question 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		
1a	6		
b	Enter the number of voting members included in line 1a, above, who are independent		
1b	6		
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?	2	Yes
3	Did the organization delegate control over management duties customarily performed by or under the direct supervision of officers, directors or trustees, or key employees to a management company or other person?	3	No
4	Did the organization make any significant changes to its governing documents since the prior Form 990 was filed?	4	No
5	Did the organization become aware during the year of a significant diversion of the organization's assets?	5	No
6	Does the organization have members or stockholders?	6	No
7a	Does the organization have members, stockholders, or other persons who may elect one or more members of the governing body?	7a	Yes
b	Are any decisions of the governing body subject to approval by members, stockholders, or other persons?	7b	No
8	Did the organization contemporaneously document the meetings held or written actions undertaken during the year by the following		
a	The governing body?	8a	Yes
b	Each committee with authority to act on behalf of the governing body?	8b	Yes
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 in Schedule O	9	No

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

		Yes	No
10a	Does the organization have local chapters, branches, or affiliates?	10a	No
b	If "Yes," does the organization have written policies and procedures governing the activities of such chapters, affiliates, and branches to ensure their operations are consistent with those of the organization?	10b	
11a	Has the organization provided a copy of this Form 990 to all members of its governing body before filing the form?	11a	Yes
b	Describe in Schedule O the process, if any, used by the organization to review this Form 990		
12a	Does the organization have a written conflict of interest policy? If "No," go to line 13	12a	Yes
b	Are officers, directors or trustees, and key employees required to disclose annually interests that could give rise to conflicts?	12b	Yes
c	Does the organization regularly and consistently monitor and enforce compliance with the policy? If "Yes," describe in Schedule O how this is done	12c	Yes
13	Does the organization have a written whistleblower policy?	13	No
14	Does the organization have a written document retention and destruction policy?	14	No
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?		
a	The organization's CEO, Executive Director, or top management official	15a	No
b	Other officers or key employees of the organization	15b	No
	If "Yes" to line 15a or 15b, describe the process in Schedule O (See instructions)		
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?	16a	No
b	If "Yes," has the organization adopted a written policy or procedure requiring the organization to evaluate its participation in joint venture arrangements under applicable federal tax law, and taken steps to safeguard the organization's exempt status with respect to such arrangements?	16b	

Section C. Disclosure

17	List the States with which a copy of this Form 990 is required to be filed CA , HI
18	Section 6104 requires an organization to make its Form 1023 (or 1024 if applicable), 990, and 990-T (501(c) (3)s only) available for public inspection. Indicate how you make these available. Check all that apply. ☐ Own website ☐ Another's website ☒ Upon request
19	Describe in Schedule O whether (and if so, how), the organization makes its governing documents, conflict of interest policy, and financial statements available to the public. See Additional Data Table.
20	State the name, physical address, and telephone number of the person who possesses the books and records of the organization. California Association for Research in Astronomy 65-1120 Mamalahoa Hwy Kamuela, HI 96743 (808) 885-7887

Part VII

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

Check if Schedule O contains a response to any question 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, and **current** key employees. 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 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 and/or Box 7 of Form 1099-MISC) 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.

List persons in the following order: individual trustees or directors; institutional trustees; officers; key employees; highest compensated employees; and former such persons.

☐ 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 (describe hours for related organizations in Schedule O)	(C) Position (check all that apply)						(D) Reportable compensation from the organization (W-2/1099-MISC)	(E) Reportable compensation from related organizations (W-2/1099-MISC)	(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) Dr George Blumenthal Chairman	5	X		X				0	0	0
(2) Dr Ed Stolper Vice-Chairman	5	X		X				0	0	0
(3) Mr Peter J Taylor Chief Financial Officer	5	X		X				0	0	0
(4) Dr Michael Bolte Board Member	5	X						0	0	0
(5) Dr B Thomas Soifer Board Member	5	X						0	0	0
(6) Dr Shrinivas Kulkarni Board Member	5	X						0	0	0
(7) Ms Elaine Stamman Secretary	5			X				0	0	0
(8) Dr Taft Armandroff Observatory Director	50				X			254,866	0	45,673
(9) Mr Hilton Lewis Observatory Deputy Director	50				X			206,086	0	42,256
(10) Mr Richard Matsuda Operations and Infrastructure Manager	50				X			180,267	0	36,288
(11) Dr Peter Wizinowich Optics Engineering Manager	50				X			165,065	0	38,012
(12) Mr Kevin McCann Software Engineering Manager	50					X		162,718	0	36,643
(13) Ms Marganta Scheffel Observatory CFO	50					X		143,529	0	31,630
(14) Mr Dennis McBnde OID Principal Engineer	50					X		135,442	0	34,675
(15) Mr Kyle Kinoshita Technical Services Manager	50					X		135,872	0	34,005
(16) Mr Sean Adkins Instruments Manager	50					X		135,421	0	30,362

Part VII

2 Total number of individuals (including but not limited to those listed above) who received more than \$100,000 in reportable compensation from the organization: 30

Section B. Independent Contractors

2	Total number of independent contractors (including but not limited to those listed above) who received more than \$100,000 in compensation from the organization ▶7	
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Part VIII

Statement of Revenue

					(A) Total revenue	(B) Related or exempt function revenue	(C) Unrelated business revenue	(D) Revenue excluded from tax under sections 512, 513, or 514			
Contributions, gifts, grants and other similar amounts	1a	Federated campaigns . . .	1a	0	15,242,873						
	b	Membership dues	1b	0							
	c	Fundraising events	1c	0							
	d	Related organizations	1d	0							
	e	Government grants (contributions)	1e	14,768,691							
	f	All other contributions, gifts, grants, and similar amounts not included above	1f	474,182							
	g	Noncash contributions included in lines 1a-1f \$		5,020							
	h	Total. Add lines 1a-1f									
	Program Service Revenue								Business Code		
2a		Visiting Scientists Lodging Fees		900099	144,135	0	0	144,135			
b		Jet Propulsion Lab Subcontract		900099	1,189,002	1,189,002	0	0			
c		NASA Operations Support Cooperative Agreement		900099	4,289,544	4,289,544	0	0			
d		JPL SRA Research Grants		900099	5,161	5,161	0	0			
e		Keck Logo Merchandise		900099	32,571	0	0	32,571			
f		All other program service revenue			16,533	0	0	16,533			
g		Total. Add lines 2a-2f			5,676,946						
Other Revenue		3	Investment income (including dividends, interest and other similar amounts)								
					294,238	294,238	0	0			
	4	Income from investment of tax-exempt bond proceeds . .				0	0	0			
					0	0	0	0			
	5	Royalties				0	0	0			
	6a	Gross Rents	(i) Real	(ii) Personal	0	0	0	0			
		0		0							
	b	Less rental expenses		0							
	c	Rental income or (loss)		0							
	d	Net rental income or (loss)			0	0	0	0			
	7a	Gross amount from sales of assets other than inventory	(i) Securities		(ii) Other	33,768	0	0	33,768		
			4,950		33,838						
			5,020		0						
			-70		33,838						
	d	Net gain or (loss)									
	8a	Gross income from fundraising events (not including \$ 0 of contributions reported on line 1c) See Part IV, line 18	a		0	0	0	0			
0											
0											
b	Less direct expenses	b									
c	Net income or (loss) from fundraising events . .			0		0	0				
9a	Gross income from gaming activities See Part IV, line 19 . .	a		0	0	0	0				
		0									
		0									
b	Less direct expenses	b									
c	Net income or (loss) from gaming activities . .			0	0	0	0				
10a	Gross sales of inventory, less returns and allowances	a		0	0	0	0				
		0									
		0									
b	Less cost of goods sold	b									
c	Net income or (loss) from sales of inventory . .			0	0	0	0				
Miscellaneous Revenue				Business Code							
11a											
d	All other revenue										
e	Total. Add lines 11a-11d			0							
12	Total revenue. See Instructions			21,247,825	5,777,945	0	227,007				

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) but are not required to complete columns (B), (C), and (D).

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 governments and organizations in the U S See Part IV, line 21	172,741	172,741		
2	Grants and other assistance to individuals in the U S See Part IV, line 22	0	0		
3	Grants and other assistance to governments, organizations, and individuals outside the U S See Part IV, lines 15 and 16	0	0		
4	Benefits paid to or for members	0	0		
5	Compensation of current officers, directors, trustees, and key employees	968,532	480,184	434,171	54,177
6	Compensation not included above, to disqualified persons (as defined under section 4958(f)(1)) and persons described in section 4958(c)(3)(B)	0	0	0	0
7	Other salaries and wages	7,411,921	5,573,482	1,629,199	209,240
8	Pension plan contributions (include section 401(k) and section 403(b) employer contributions)	665,228	484,845	163,215	17,168
9	Other employee benefits	948,301	691,453	232,402	24,446
10	Payroll taxes	690,221	512,703	160,622	16,896
a	Fees for services (non-employees) Management	0	0	0	0
b	Legal	20,681	0	20,681	0
c	Accounting	79,135	0	79,135	0
d	Lobbying	0	0	0	0
e	Professional fundraising services See Part IV, line 17	0			0
f	Investment management fees	0	0	0	0
g	Other	439,724	203,972	195,324	40,428
12	Advertising and promotion	30,476	0	30,476	0
13	Office expenses	141,918	13,912	120,800	7,206
14	Information technology	397,239	19,947	371,651	5,641
15	Royalties	0	0	0	0
16	Occupancy	1,565,242	1,235,570	329,672	0
17	Travel	400,964	185,489	182,760	32,715
18	Payments of travel or entertainment expenses for any federal, state, or local public officials	0	0	0	0
19	Conferences, conventions, and meetings	204,054	2,419	187,038	14,597
20	Interest	0	0	0	0
21	Payments to affiliates	0	0	0	0
22	Depreciation, depletion, and amortization	4,867,304	4,702,127	163,581	1,596
23	Insurance	34,188	0	34,188	
24	Other expenses Itemize expenses not covered above (List miscellaneous expenses in line 24f If line 24f amount exceeds 10% of line 25, column (A) amount, list line 24f expenses on Schedule O)				
a	EQUIPMENT	212,748	181,799	30,949	0
b	EQUIPMENT RENTAL AND MAINTENANCE	486,116	361,188	124,678	250
c	INDIRECT COST CHARGES OR RECOVERY	-744,318	1,299,113	-2,043,431	0
d					
e					
f	All other expenses				
25	Total functional expenses. Add lines 1 through 24f	18,992,415	16,120,944	2,447,111	424,360
26	Joint costs. Check here ☒ if following SOP 98-2 (ASC 958-720) Complete this line only if the organization reported in column (B) joint costs from a combined educational campaign and fundraising solicitation				

Part X

Balance Sheet

					(A)		(B)
					Beginning of year		End of year
Assets	1	Cash—non-interest-bearing			9,647	1	11,987
	2	Savings and temporary cash investments			13,512,675	2	12,802,851
	3	Pledges and grants receivable, net			399,122	3	760,099
	4	Accounts receivable, net			22,650	4	48,383
	5	Receivables from current and former officers, directors, trustees, key employees, and highest compensated employees. Complete Part II of Schedule L			0	5	0
	6	Receivables from other disqualified persons (as defined under section 4958(f)(1)), persons described in section 4958(c)(3)(B), and contributing employers, and sponsoring organizations of section 501(c)(9) voluntary employees' beneficiary organizations (see instructions). Schedule L			0	6	0
	7	Notes and loans receivable, net			0	7	0
	8	Inventories for sale or use			0	8	0
	9	Prepaid expenses and deferred charges			51,040	9	28,066
	10a	Land, buildings, and equipment: cost or other basis. Complete Part VI of Schedule D	10a	142,928,403			
	b	Less: accumulated depreciation	10b	51,122,109	89,514,284	10c	91,806,294
	11	Investments—publicly traded securities			0	11	0
	12	Investments—other securities. See Part IV, line 11			0	12	0
	13	Investments—program-related. See Part IV, line 11			0	13	0
	14	Intangible assets			0	14	0
	15	Other assets. See Part IV, line 11			0	15	0
16	Total assets. Add lines 1 through 15 (must equal line 34)			103,509,418	16	105,457,680	
Liabilities	17	Accounts payable and accrued expenses			2,266,595	17	2,267,846
	18	Grants payable			891,364	18	732,688
	19	Deferred revenue			10,277,850	19	10,128,127
	20	Tax-exempt bond liabilities			0	20	0
	21	Escrow or custodial account liability. Complete Part IV of Schedule D			0	21	0
	22	Payables to current and former officers, directors, trustees, key employees, highest compensated employees, and disqualified persons. Complete Part II of Schedule L			0	22	0
	23	Secured mortgages and notes payable to unrelated third parties			0	23	0
	24	Unsecured notes and loans payable to unrelated third parties			0	24	0
	25	Other liabilities. Complete Part X of Schedule D			0	25	
	26	Total liabilities. Add lines 17 through 25			13,435,809	26	13,128,661
Net Assets or Fund Balances	Organizations that follow SFAS 117, check here ☒ and complete lines 27 through 29, and lines 33 and 34.						
	27	Unrestricted net assets			89,698,733	27	92,066,490
	28	Temporarily restricted net assets			374,876	28	262,529
	29	Permanently restricted net assets			0	29	0
	Organizations that do not follow SFAS 117, check here ☐ and complete lines 30 through 34.						
	30	Capital stock or trust principal, or current funds				30	
	31	Paid-in or capital surplus, or land, building or equipment fund				31	
	32	Retained earnings, endowment, accumulated income, or other funds				32	
	33	Total net assets or fund balances			90,073,609	33	92,329,019
34	Total liabilities and net assets/fund balances			103,509,418	34	105,457,680	

Part XI Reconciliation of Net Assets

Check if Schedule O contains a response to any question in this Part XI

1	Total revenue (must equal Part VIII, column (A), line 12)	1	21,247,825
2	Total expenses (must equal Part IX, column (A), line 25)	2	18,992,415
3	Revenue less expenses Subtract line 2 from line 1	3	2,255,410
4	Net assets or fund balances at beginning of year (must equal Part X, line 33, column (A))	4	90,073,609
5	Other changes in net assets or fund balances (explain in Schedule O)	5	0
6	Net assets or fund balances at end of year Combine lines 3, 4, and 5 (must equal Part X, line 33, column (B))	6	92,329,019

Part XII Financial Statements and Reporting

Check if Schedule O contains a response to any question in this Part XII

		Yes	No
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 in Schedule O		
2a	Were the organization's financial statements compiled or reviewed by an independent accountant?		No
b	Were the organization's financial statements audited by an independent accountant?	Yes	
c	If "Yes," to 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 in Schedule O	Yes	
d	If "Yes" to line 2a or 2b, check a box below to indicate whether the financial statements for the year were issued on a separate basis, consolidated basis, or both ☒ Separate basis ☐ Consolidated basis ☐ Both consolidated and separated basis		
3a	As a result of a federal award, was the organization required to undergo an audit or audits as set forth in the Single Audit Act and OMB Circular A-133?	Yes	
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 in Schedule O and describe any steps taken to undergo such audits	Yes	

SCHEDULE A
(Form 990 or 990EZ)

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. ► See separate instructions.

OMB No 1545-0047

2010

Open to Public Inspection

Name of the organization
CALIFORNIA ASSOCIATION FOR RESEARCH IN ASTRONOMY

Employer identification number
95-3972799

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 11, 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).** (Attach Schedule E)

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).** Enter the hospital's name, city, and state

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).** (Complete Part II)

6

☐

A federal, state, or local government or governmental unit described in **section 170(b)(1)(A)(v).**

7

☒

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)** (Complete Part II)

8

☐

A community trust described in **section 170(b)(1)(A)(vi)** (Complete Part II)

9

☐

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—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).** (Complete Part III)

10

☐

An organization organized and operated exclusively to test for public safety See**section 509(a)(4).**

11

☐

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) See **section 509(a)(3).** Check the box that describes the type of supporting organization and complete lines 11e through 11h

a

☐

Type I

b

☐

Type II

c

☐

Type III - Functionally integrated

d

☐

Type III - Other

e

☐

By checking this box, I certify that the organization is not controlled directly or indirectly by one or more disqualified persons other than foundation managers and other than one or more publicly supported organizations described in section 509(a)(1) or section 509(a)(2)

f

☐

If the organization received a written determination from the IRS that it is a Type I, Type II or Type III supporting organization, check this box

g

☐

Since August 17, 2006, has the organization accepted any gift or contribution from any of the following persons?

(i)

a person who directly or indirectly controls, either alone or together with persons described in (ii) and (iii) below, the governing body of the the supported organization?

(ii)

a family member of a person described in (i) above?

(iii)

a 35% controlled entity of a person described in (i) or (ii) above?

h

☐

Provide the following information about the supported organization(s)

	Yes	No
11g(i)		
11g(ii)		
11g(iii)		

(i) Name of supported organization	(ii) EIN	(iii) Type of organization (described on lines 1- 9 above or IRC section (see instructions))	(iv) Is the organization in col (i) listed in your governing document?		(v) Did you notify the organization in col (i) of your support?		(vi) Is the organization in col (i) organized in the U S ?		(vii) Amount of support
			Yes	No	Yes	No	Yes	No	
Total									

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) 2006	(b) 2007	(c) 2008	(d) 2009	(e) 2010	(f) Total
1 Gifts, grants, contributions, and membership fees received (Do not include any "unusual grants.")	13,185,477	13,299,876	15,775,071	14,112,296	15,632,382	72,005,102
2 Tax revenues levied for the organization's benefit and either paid to or expended on its behalf	0	0	0	0	0	0
3 The value of services or facilities furnished by a governmental unit to the organization without charge	0	0	0	0	0	0
4 Total. Add lines 1 through 3	13,185,477	13,299,876	15,775,071	14,112,296	15,632,382	72,005,102
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)						0
6 Public Support. Subtract line 5 from line 4						72,005,102

Section B. Total Support						
Calendar year (or fiscal year beginning in) ▶	(a) 2006	(b) 2007	(c) 2008	(d) 2009	(e) 2010	(f) Total
7 Amounts from line 4	13,185,477	13,299,876	15,775,071	14,112,296	15,632,382	72,005,102
8 Gross income from interest, dividends, payments received on securities loans, rents, royalties and income from similar sources	612,538	509,707	333,422	317,600	294,238	2,067,505
9 Net income from unrelated business activities, whether or not the business is regularly carried on	0	0	0	0	0	0
10 Other income Do not include gain or loss from the sale of capital assets (Explain in Part IV.)	167,745	152,875	172,928	148,928	193,239	835,715
11 Total support (Add lines 7 through 10)						74,908,322
12 Gross receipts from related activities, etc. (See instructions.)					12	0
13 First Five Years If the Form 990 is for the organization's first, second, third, fourth, or fifth tax year as a 501(c)(3) organization, check this box and stop here ▶						

Section C. Computation of Public Support Percentage			
14	Public Support Percentage for 2010 (line 6 column (f) divided by line 11 column (f))	14	96 124 %
15	Public Support Percentage for 2009 Schedule A, Part II, line 14	15	95 821 %
16a	33 1/3% support test—2010. 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 		
b	33 1/3% support test—2009. If the organization did not check the 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 		
17a	10%-facts-and-circumstances test—2010. 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 IV how the organization meets the "facts and circumstances" test The organization qualifies as a publicly supported organization 		
b	10%-facts-and-circumstances test—2009. 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 IV how the organization meets the "facts and circumstances" test The organization qualifies as a publicly supported organization 		
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 		

Part IIIPart III

Support Schedule for Organizations Described in Section 509(a)(2)
(Complete only if you checked the box on line 9 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						
Calendar year (or fiscal year beginning in) 	(a) 2006	(b) 2007	(c) 2008	(d) 2009	(e) 2010	(f) Total
1 Gifts, grants, contributions, and membership fees received (Do not include any "unusual grants.")						
2 Gross receipts from admissions, merchandise sold or services performed, or facilities furnished in any activity that is related to the organization's tax-exempt purpose						
3 Gross receipts from activities that are not an unrelated trade or business under section 513						
4 Tax revenues levied for the organization's benefit and either paid to or expended on its behalf						
5 The value of services or facilities furnished by a governmental unit to the organization without charge						
6 Total. Add lines 1 through 5						
7a Amounts included on lines 1, 2, and 3 received from disqualified persons						
b Amounts included on lines 2 and 3 received from other than disqualified persons that exceed the greater of \$5,000 or 1% of the amount on line 13 for the year						
c Add lines 7a and 7b						
8 Public Support (Subtract line 7c from line 6)						

Section B. Total Support						
Calendar year (or fiscal year beginning in) 	(a) 2006	(b) 2007	(c) 2008	(d) 2009	(e) 2010	(f) Total
9 Amounts from line 6						
10a Gross income from interest, dividends, payments received on securities loans, rents, royalties and income from similar sources						
b Unrelated business taxable income (less section 511 taxes) from businesses acquired after June 30, 1975						
c Add lines 10a and 10b						
11 Net income from unrelated business activities not included in 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 IV)						
13 Total support (Add lines 9, 10c, 11 and 12)						
14 First Five 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		
15 Public Support Percentage for 2010 (line 8 column (f) divided by line 13 column (f))	15	
16 Public support percentage from 2009 Schedule A, Part III, line 15	16	

Section D. Computation of Investment Income Percentage		
17 Investment income percentage for 2010 (line 10c column (f) divided by line 13 column (f))	17	
18 Investment income percentage from 2009 Schedule A, Part III, line 17	18	
19a 33 1/3% support tests—2010. 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—2009. 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

Supplemental Information. Supplemental Information. Complete this part to provide the explanations required by Part II, line 10; Part II, line 17a or 17b; and Part III, line 12. Also complete this part for any additional information. (See instructions).

Explanation
Part II, line 10 Observing Scientists' fees to offset their lodging costs, and Keck logo merchandise sales

SCHEDULE D

(Form 990)

Department of the Treasury
Internal Revenue Service

Supplemental Financial Statements

- ▶ **Complete if the organization answered "Yes," to Form 990, Part IV, line 6, 7, 8, 9, 10, 11, or 12.**
▶ **Attach to Form 990. ▶ See separate instructions.**

OMB No 1545-0047

2010

Open to Public
Inspection

Name of the organization
CALIFORNIA ASSOCIATION FOR RESEARCH IN ASTRONOMY

Employer identification number
95-3972799

Part I

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

	(a) Donor advised funds	(b) Funds and other accounts
1	Total number at end of year	
2	Aggregate contributions to (during year)	
3	Aggregate 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? ☐ Yes☐ No	
6	Did the organization inform all grantees, donors, and donor advisors in writing that grant funds may 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? ☐ Yes☐ No	

Part II

Conservation Easements. Complete if the organization answered "Yes" to 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 (e g , recreation or pleasure)

☐ Preservation of an historically importantly land area

☐ Protection of natural habitat

☐ Preservation of a certified historic structure

☐ Preservation of open space

2

Complete lines 2a–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 Year
a	Total number of conservation easements
b	Total acreage restricted by conservation easements
c	Number of conservation easements on a certified historic structure included in (a)
d	Number of conservation easements included in (c) acquired after 8/17/06

3

Number of conservation easements modified, transferred, released, extinguished, or terminated by the organization during the taxable 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?

☐ Yes☐ No

6

Staff and volunteer hours devoted to monitoring, inspecting and enforcing conservation easements during the year ▶_____

7

Amount of expenses incurred in monitoring, inspecting, 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 170(h)(4)(B)(ii)?

☐ Yes☐ No

9

In Part XIV, 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" to Form 990, Part IV, line 8.

1a

If the organization elected, as permitted under SFAS 116, 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 XIV, the text of the footnote to its financial statements that describes these items

b

If the organization elected, as permitted under SFAS 116, 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) Revenues included in 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 SFAS 116 relating to these items

a

Revenues included in Form 990, Part VIII, line 1▶ \$ _____

b

Assets included in Form 990, Part X▶ \$ _____

Part III

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

3

Using the organization's accession and other records, check any of the following that are a 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 programs

e

☐ Other

4

Provide a description of the organization's collections and explain how they further the organization's exempt purpose in Part XIV

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" to 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 XIV and complete the following table

	Amount
1c	
1d	
1e	
1f	

2a

Did the organization include an amount on Form 990, Part X, line 21?

☐ Yes

☐ No

b

If "Yes," explain the arrangement in Part XIV

Part V

Endowment Funds. Complete if the organization answered "Yes" to 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				
b	Contributions				
c	Investment earnings or losses				
d	Grants or scholarships				
e	Other expenditures for facilities and programs				
f	Administrative expenses				
g	End of year balance				

2

Provide the estimated percentage of the year end balance held as

a

Board designated or quasi-endowment ▶

b

Permanent endowment ▶

c

Term endowment ▶

3a

Are there endowment funds not in the possession of the organization that are held and administered for the organization by

(i)

unrelated organizations

(ii)

related organizations

b

If "Yes" to 3a(ii), are the related organizations listed as required on Schedule R?

	Yes	No
3a(i)		
3a(ii)		
3b		

4

Describe in Part XIV the intended uses of the organization's endowment funds

Part VI

Investments—Land, Buildings, and Equipment. See Form 990, Part X, line 10.

Description of investment	(a) Cost or other basis (investment)	(b)Cost or other basis (other)	(c) Accumulated depreciation	(d) Book value
1a Land	0	0		0
b Buildings	0	0	0	0
c Leasehold improvements	0	0	0	0
d Equipment	0	142,928,403	51,122,109	91,806,294
e Other	0	0	0	0
Total. Add lines 1a-1e (Column (d) should equal Form 990, Part X, column (B), line 10(c).) ▶				91,806,294

Part XI Reconciliation of Change in Net Assets from Form 990 to Financial Statements			
1	Total revenue (Form 990, Part VIII, column (A), line 12)	1	21,247,825
2	Total expenses (Form 990, Part IX, column (A), line 25)	2	18,992,415
3	Excess or (deficit) for the year Subtract line 2 from line 1	3	2,255,410
4	Net unrealized gains (losses) on investments	4	0
5	Donated services and use of facilities	5	0
6	Investment expenses	6	0
7	Prior period adjustments	7	0
8	Other (Describe in Part XIV)	8	0
9	Total adjustments (net) Add lines 4 - 8	9	0
10	Excess or (deficit) for the year per financial statements Combine lines 3 and 9	10	2,255,410

Part XII Reconciliation of Revenue per Audited Financial Statements With Revenue per Return			
1	Total revenue, gains, and other support per audited financial statements	1	21,326,404
2	Amounts included on line 1 but not on Form 990, Part VIII, line 12		
a	Net unrealized gains on investments	2a	0
b	Donated services and use of facilities	2b	0
c	Recoveries of prior year grants	2c	0
d	Other (Describe in Part XIV)	2d	512,182
e	Add lines 2a through 2d	2e	512,182
3	Subtract line 2e from line 1	3	20,814,222
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	0
b	Other (Describe in Part XIV)	4b	433,603
c	Add lines 4a and 4b	4c	433,603
5	Total Revenue Add lines 3 and 4c. (This should equal Form 990, Part I, line 12)	5	21,247,825

Part XIII Reconciliation of Expenses per Audited Financial Statements With Expenses per Return			
1	Total expenses and losses per audited financial statements	1	18,958,647
2	Amounts included on line 1 but not on Form 990, Part IX, line 25		
a	Donated services and use of facilities	2a	0
b	Prior year adjustments	2b	0
c	Other losses	2c	0
d	Other (Describe in Part XIV)	2d	0
e	Add lines 2a through 2d	2e	0
3	Subtract line 2e from line 1	3	18,958,647
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	0
b	Other (Describe in Part XIV)	4b	33,768
c	Add lines 4a and 4b	4c	33,768
5	Total expenses Add lines 3 and 4c. (This should equal Form 990, Part I, line 18)	5	18,992,415

Part XIV Supplemental Information

Complete this part to 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, Part XI, line 8, Part XII, lines 2d and 4b, and Part XIII, lines 2d and 4b Also complete this part to provide any additional information

Identifier	Return Reference	Explanation
SchD_P06_S00_L01a	Schedule D, Part VI, Line 1a	The land in Waimea is owned by the California Institute of Technology and is not listed as a CARA financial asset
SchD_P06_S00_L01b	Schedule D, Part VI, Line 1b	The headquarters building in Waimea and the observatories on the summit of Mauna Kea are owned by the California Institute of Technology and are not listed as CARA financial assets
SchD_P06_S00_L01d	Schedule D, Part VI, Line 1d	The telescopes on the summit of Mauna Kea are owned by the California Institute of Technology and are not listed as CARA financial assets CARA owns all focal-plane instruments, lasers and adaptive optics plus various other equipment not affixed to the facilities, computers and vehicles
SchD_P12_S00_L02d	Schedule D, Part XII, Line 2d	SATISFACTION OF TEMPORARY EQUIPMENT RESTRICTIONS OF 512,182
SchD_P12_S00_L04b	Schedule D, Part XII, Line 4b	TEMPORARILY RESTRICTED CONTRIBUTIONS AND INTEREST EARNINGS OF 399,835 AND GAIN ON SALE OF ASSETS OF 33,768
SchD_P13_S00_L04b	Schedule D, Part XIII, Line 4b	PROCEEDS FROM SALES OF FLEET VEHICLES OF 33,838 AND GAIN ON STOCK SALE OF 70

For Privacy Act and Paperwork Reduction Act Notice, see the Instructions for Form 990. Cat No 50082W Schedule F (Form 990) 2010

1

2 Enter total number of recipient organizations listed above that are recognized as charities by the foreign country, recognized as tax-exempt by the IRS, or for which the grantee or counsel has provided a section 501(c)(3) equivalency letter ► _____

3 Enter total number of other organizations or entities ► _____

Part III **Grants and Other Assistance to Individuals Outside the United States.** Complete if the organization answered "Yes" to Form 990, Part IV, line 16.
Use Part V if additional space is needed.

[illegible]

Part IV Foreign Forms

- 1

Was the organization a U S transferor of property to a foreign corporation during the tax year? *If "Yes," the organization may be required to file Form 926 (see instructions for Form 926)*

☐

Yes

☒

No
- 2

Did the organization have an interest in a foreign trust during the tax year? *If " Yes," the organization may be required to file Form 3520 and/or Form 3520-A. (see instructions for Forms 3520 and 3520-A)*

☐

Yes

☒

No
- 3

Did the organization have an ownership interest in a foreign corporation during the tax year? *If "Yes," the organization may be required to file Form 5471, Information Return of U.S. Persons with respect to Certain Foreign Corporations. (see instructions for Form 5471)*

☐

Yes

☒

No
- 4

Was the organization a direct or indirect shareholder of a passive foreign investment company or a qualified electing fund during the tax year? *If "Yes," the organization may be required to file Form 8621, Return by a Shareholder of a Passive Foreign Investment Company or Qualified Electing Fund. (see instructions for Form 8621)*

☐

Yes

☒

No
- 5

Did the organization have an ownership interest in a foreign partnership during the tax year? *If "Yes," the organization may be required to file Form 8865, Return of U.S. Persons with respect to Certain Foreign Partnerships. (see instructions for Form 8865)*

☐

Yes

☒

No
- 6

Did the organization have any operations in or related to any boycotting countries during the tax year? *If "Yes," the organization may be required to file Form 5713, International Boycott Report (see instructions for Form 5713).*

☐

Yes

☒

No

Additional Data

Software ID: 10000077
Software Version: v1.00
EIN: 95-3972799
Name: CALIFORNIA ASSOCIATION FOR RESEARCH IN ASTRONOMY

Part V **Supplemental Information**

Complete this part to provide the information (see instructions) required in Part I, line 2, and any additional information.

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

2010

Open to Public Inspection

Name of the organization
CALIFORNIA ASSOCIATION FOR RESEARCH IN ASTRONOMY

Employer identification number
95-3972799

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 Governments and Organizations in the United States.** Complete if the organization answered "Yes" to Form 990, Part IV, line 21 for any recipient that received more than \$5,000. Check this box if no one recipient received more than \$5,000. Part II can be duplicated if additional space is needed.

[illegible]

2	Enter total number of section 501(c)(3) and government organizations	1
3	Enter total number of other organizations	0

Part III

Grants and Other Assistance to Individuals in the United States. Complete if the organization answered "Yes" to Form 990, Part IV, line 22.
Use Schedule I-1 (Form 990) 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 non-cash assistance

Part IV

Supplemental Information. Complete this part to provide the information required in Part I, line 2, and any other additional information.

Identifier	Return Reference	Explanation
SchI_P01_S00_L02	Schedule I, Part I, Line 2	Keck Observatory monitors grantee's performance based on achievement of grant purpose according to federal, state and private foundation conditions in addition to WMKO internal procedures

Schedule J
(Form 990)

Compensation Information

OMB No 1545-0047

2010

Open to Public Inspection

Department of the Treasury
Internal Revenue Service

For certain Officers, Directors, Trustees, Key Employees, and Highest Compensated Employees
▶ Complete if the organization answered "Yes" to Form 990, Part IV, question 23.
▶ Attach to Form 990. ▶ See separate instructions.

Name of the organization CALIFORNIA ASSOCIATION FOR RESEARCH IN ASTRONOMY	Employer identification number 95-3972799
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Part I

Questions Regarding Compensation

	Yes	No
1a Check the appropriate box(es) if the organization provided any of the following to or for a person listed in Form 990, Part VII, Section A, line 1a Complete Part III to provide any relevant information regarding these items ☐ First-class or charter travel ☒ Housing allowance or residence for personal use ☐ Travel for companions ☐ Payments for business use of personal residence ☐ Tax idemnification and gross-up payments ☐ Health or social club dues or initiation fees ☐ Discretionary spending account ☐ Personal services (e g , maid, chauffeur, chef)		
b If any of the boxes in line 1a are checked, did the organization follow a written policy regarding payment or reimbursement or provision of all the expenses described above? If "No," complete Part III to explain	1b	No
2 Did the organization require substantiation prior to reimbursing or allowing expenses incurred by all officers, directors, trustees, and the CEO/Executive Director, regarding the items checked in line 1a?	2	Yes
3 Indicate which, if any, of the following the organization uses to establish the compensation of the organization's CEO/Executive Director Check all that apply ☐ Compensation committee ☒ Written employment contract ☐ Independent compensation consultant ☐ Compensation survey or study ☐ Form 990 of other organizations ☒ Approval by the board or compensation committee		
4 During the year, did any person listed in 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 from the organization or a related organization? 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 501(c)(3) and 501(c)(4) organizations only must complete lines 5-9.	4a	No
	4b	No
	4c	No
5 For persons listed in 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," to line 5a or 5b, describe in Part III	5a	No
	5b	No
6 For persons listed in 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," to line 6a or 6b, describe in Part III	6a	No
	6b	No
7 For persons listed in Form 990, Part VII, Section A, line 1a, did the organization provide any non-fixed payments not described in lines 5 and 6? If "Yes," describe in Part III	7	No
8 Were any amounts reported in Form 990, Part VII, paid or accrued pursuant to a contract that was subject to the initial contract exception described in Regs section 53 4958-4(a)(3)? If "Yes," describe in Part III	8	No
9 If "Yes" to line 8, did the organization also follow the rebuttable presumption procedure described in Regulations section 53 4958-6(c)?	9	

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 in 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 are not listed on Form 990, Part VII

Note. The sum of columns (B)(i)-(iii) must equal the applicable column (D) or column (E) amounts on Form 990, Part VII, line 1a

(A) Name		(B) Breakdown of W-2 and/or 1099-MISC compensation			(C) Retirement and other deferred compensation	(D) Nontaxable benefits	(E) Total of columns (B)(i)-(D)	(F) Compensation reported in prior Form 990 or Form 990-EZ
		(i) Base compensation	(ii) Bonus & incentive compensation	(iii) Other reportable compensation				
(1) Dr Taft Armandroff	(i) (ii)	223,730 0	1,781 0	29,375 0	22,373 0	23,300 0	300,559 0	 0
(2) Mr Hilton Lewis	(i) (ii)	204,459 0	1,627 0	0 0	20,446 0	21,810 0	248,342 0	 0
(3) Mr Richard Matsuda	(i) (ii)	154,017 0	500 0	25,750 0	15,402 0	20,887 0	216,556 0	 0
(4) Dr Peter Wizinowich	(i) (ii)	163,065 0	2,000 0	0 0	16,306 0	21,706 0	203,077 0	 0
(5) Mr Kevin McCann	(i) (ii)	153,343 0	0 0	9,375 0	15,334 0	21,309 0	199,361 0	 0
(6) Ms Margarita Scheffel	(i) (ii)	142,029 0	1,500 0	0 0	14,203 0	17,427 0	175,159 0	 0
(7) Mr Dennis McBride	(i) (ii)	135,442 0	0 0	0 0	18,962 0	15,713 0	170,117 0	 0
(8) Mr Kyle Kinoshita	(i) (ii)	135,372 0	500 0	0 0	13,537 0	20,468 0	169,877 0	 0
(9) Mr Sean Adkins	(i) (ii)	135,171 0	250 0	0 0	13,517 0	16,845 0	165,783 0	 0
(10)								
(11)								
(12)								
(13)								
(14)								
(15)								
(16)								

Part III

Supplemental Information

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

Identifier	Return Reference	Explanation
SchJ_P01_S00_L01a	Schedule J, Part I, Line 1a	Housing allowance granted to the Observatory Director
SchJ_P01_S00_L01b	Schedule J, Part I, Line 1b	(iii) Housing allowance granted to the Observatory Director. No CARA written policy was available at the time it was specified in the employment contract. Rather the University of California's housing policy was referenced by the CARA Board Chair and Vice-Chair for establishing the Director's housing allowance.

SCHEDULE O

(Form 990 or 990-EZ)

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 to provide any additional information.
▶ Attach to Form 990 or 990-EZ.

OMB No 1545-0047

2010

Open to Public
Inspection

Name of the organization
CALIFORNIA ASSOCIATION FOR RESEARCH IN ASTRONOMY

Employer identification number
95-3972799

Identifier	Return Reference	Explanation
F990_P01_S00_L19	Form 990, Part I, Line 19	NET ASSET CHANGE-Total revenue less expenses for CARA represents primarily the net change in its capitalized fixed assets each year

Identifier	Return Reference	Explanation
F990_P06_S0A_L02	Form 990, Part VI, Section A, Line 2	BOARD MEMBERS George Blumenthal, Michael Bolte, Elaine Stammen and Peter Taylor have a business relationship through The Regents of the University of California Edward Stolper, Shrinivas Kulkarni and Thomas Soifer have a business relationship through California Institute of Technology

Identifier	Return Reference	Explanation
F990_P06_S0A_L07a	Form 990, Part VI, Section A, Line 7a	BOARD MEMBER DESIGNATION Per the CARA by-laws, the President's at both institutions, University of California and California Institute of Technology, designate three board members each to serve on the CARA board

Identifier	Return Reference	Explanation
F990_P06_S0B_L11b	Form 990, Part VI, Section B, Line 11b	DISTRIBUTION OF THE 990 TO THE BOARD Staff prepart the Form 990 which is reviewed and approved by management A draft Form 990 is provided to the Audit Committee for review and comment After any required changes are made, prior to filing, management distributes a final copy to the Board indicating who prepared and reviewed the Form 990 and who will sign and file the Form

Identifier	Return Reference	Explanation
F990_P06_S0B_L12c	Form 990, Part VI, Section B, Line 12c	CONFLICT OF INTEREST DISCLOSURE. Annually each board member is required to disclose and sign a board governance document indicating any business, personal or family relationships to other board members, staff or major vendors for themselves and their family members. The signed disclosures are then reviewed by the audit committee and the Audit Committee Chair notifies the Board of any conflicts sufficient to warrant the attention of the Board. Key employees and the five highest compensation employees are required to disclose and sign an annual information request indicating any family or business relationships that may impact organizational governance.

Identifier	Return Reference	Explanation
F990_P06_S0B_L13	Form 990, Part VI, Section B, Line 13	WHISTLEBLOWER POLICY Hawaii state labor laws require posting of the Whistleblower Protection Law notice which outlines a standard whistleblower process in the Hawaii labor law posters posted for all employees to read within the workplace

Identifier	Return Reference	Explanation
F990_P06_S0B_L14	Form 990, Part VI, Section B, Line 14	RECORDS RETENTION Financial records follow both the IRS retention guidelines and the requirements of the federal government for federal awards issued under OMB Circular A-110

Identifier	Return Reference	Explanation
F990_P06_S0C_L19	Form 990, Part VI, Section C, Line 19	AVAILABLE TO THE PUBLIC Governance documents and conflict of interest are made available upon request Financial statements in the form of an annual audit are published on our website

Identifier	Return Reference	Explanation
F990_P08_S00_L01g	Form 990, Part VIII, Line 1g	NON-CASH CONTRIBUTIONS Donated securities

Identifier	Return Reference	Explanation
F990_P08_S00_L07a	Form 990, Part VIII, Line 7a	SALES OF ASSETS Sales of retired fleet vehicles

Identifier	Return Reference	Explanation
F990_P10_S00_L19	Form 990, Part X, Line 19	DEFERRED REVENUE Advances from the Regents of the University of California and the Association of Universities for Research in Astronomy for operations and instrument fabrication respectively