

Return of Organization Exempt From Income Tax
 Under section 501(c), 527, or 4947(a)(1) of the Internal Revenue Code (except private foundations)
 ▶ Do not enter Social Security numbers on this form as it may be made public.
 ▶ Information about Form 990 and its instructions is at www.irs.gov/form990.

2013

Open to Public Inspection

Department of the Treasury
Internal Revenue Service

A For the 2013 calendar year, or tax year beginning 2013, and ending 2013

B Check if applicable: <input type="checkbox"/> Address change <input type="checkbox"/> Name change <input type="checkbox"/> Initial return <input type="checkbox"/> Terminated <input type="checkbox"/> Amended return <input type="checkbox"/> Application pending	C Name of organization <u>Rare Species Conservatory Foundation</u>		D Employer identification number <u>65-0560456</u>
	Doing Business As		E Telephone number <u>(561) 790-5864</u>
	Number and street (or P.O. box if mail is not delivered to street address) Room/suite <u>1222 E Road</u>		G Gross receipts \$ <u>321,155.</u>
	City or town, state or province, country, and ZIP or foreign postal code <u>Loxahatchee FL 33470</u>		
F Name and address of principal officer: <u>Paul R Reillo 1222 E Road Loxahatchee FL 33470</u>		H(a) Is this a group return for subordinates? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
		H(b) Are all subordinates included? <input type="checkbox"/> Yes <input type="checkbox"/> No If 'No,' attach a list. (see instructions)	
I Tax-exempt status <input checked="" type="checkbox"/> 501(c)(3) <input type="checkbox"/> 501(c) () (Insert no.) <input type="checkbox"/> 4947(a)(1) or <input type="checkbox"/> 527		J Website: ▶ <u>Rarespecies.org</u>	
K Form of organization: <input checked="" type="checkbox"/> Corporation <input type="checkbox"/> Trust <input type="checkbox"/> Association <input type="checkbox"/> Other ▶		L Year of formation: <u>1994</u>	M State of legal domicile: <u>FL</u>

Part I Summary		Prior Year	Current Year
Activities & Governance	1 Briefly describe the organization's mission or most significant activities: <u>International wildlife conservation Biodiversity and habitat protection; endangered and threatened species propagation, management and recovery programs; capacity building and outreach.</u>		
	2 Check this box <input type="checkbox"/> if the organization discontinued its operations or disposed of more than 25% of its net assets.		
	3 Number of voting members of the governing body (Part VI, line 1a)	3	5
	4 Number of independent voting members of the governing body (Part VI, line 1b)	4	5
	5 Total number of individuals employed in calendar year 2013 (Part V, line 2a)	5	9
	6 Total number of volunteers (estimate if necessary)	6	0
	7a Total unrelated business revenue from Part VIII, column (C), line 12	7a	0.
b Net unrelated business taxable income from Form 990-T, line 34	7b		
Revenue	8 Contributions and grants (Part VIII, line 1h)	453,748.	320,408.
	9 Program service revenue (Part VIII, line 2g)		
	10 Investment income (Part VIII, column (A), lines 3, 4, and 7d)	1,037.	747.
	11 Other revenue (Part VIII, column (A), lines 5, 6d, 8c, 9c, 10c, and 11e)		
	12 Total revenue — add lines 8 through 11 (must equal Part VIII, column (A), line 12)	454,785.	321,155.
Expenses	13 Grants and similar amounts paid (Part IX, column (A), lines 1-3)	11,700.	34,600.
	14 Benefits paid to or for members (Part IX, column (A), line 4)		
	15 Salaries, other compensation, employee benefits (Part IX, column (A), lines 5-10)	107,392.	150,690.
	16a Professional fundraising fees (Part IX, column (A), line 11e)		
	b Total fundraising expenses (Part IX, column (D), line 25) ▶ <u>0.</u>		
17 Other expenses (Part IX, column (A), lines 11a-11d, 11f-24e)	280,565.	120,692.	
18 Total expenses. Add lines 13-17 (must equal Part IX, column (A), line 25)	399,657.	305,982.	
19 Revenue less expenses. Subtract line 18 from line 12	55,128.	15,173.	
Net Assets or Fund Balances	20 Total assets (Part X, line 16)	Beginning of Current Year 1,529,223.	End of Year 1,550,054.
	21 Total liabilities (Part X, line 26)	0.	0.
	22 Net assets or fund balances. Subtract line 21 from line 20	1,529,223.	1,550,054.

Part II Signature Block

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

Sign Here	<u>Paul R. Reillo, Ph.D.</u> Signature of officer	<u>7 May 2014</u> Date
	<u>Paul R. REILLO, Ph.D., FOUNDATION PRESIDENT</u> Type or print name and title.	

Paid Preparer Use Only	Print/Type preparer's name <u>Robert J Thomas</u>	Preparer's signature <u>Robert J Thomas</u>	Date <u>05/07/14</u>	Check <input type="checkbox"/> if self-employed	PTIN <u>P00337434</u>
	Firm's name ▶ <u>Anchor Financial Services, CPA, PA</u>	Firm's EIN ▶ <u>65-0953538</u>		Phone no. <u>(772) 287-8964</u>	
	Firm's address <u>215 S Federal Hwy, Ste 100</u> <u>Stuart FL 34994</u>				

May the IRS discuss this return with the preparer shown above? (see instructions) Yes No

Part III Statement of Program Service Accomplishments

☐

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

1 Briefly describe the organization's mission:

International wildlife conservation, Biodiversity and habitat protection; endangered and threatened species propagation, management and recovery programs; capacity building and outreach

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

☐ Yes No

If 'Yes,' describe these new services on Schedule O.

3 Did the organization cease conducting, or make significant changes in how it conducts, any program services?

☐ Yes No

If 'Yes,' describe these changes on Schedule O.

4 Describe the organization's program service accomplishments for each of its three largest program services, as measured by expenses. Section 501(c)(3) and 501(c)(4) organizations 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 \$ 257,466. including grants of \$ 0.) (Revenue \$ 0.)

Endangered species propagation and management programs - Rare Species Conservatory in Loxahatchee, FL See Statement of Program Service Accomplishments attached

4b (Code:) (Expenses \$ 49,094. including grants of \$ 34,600.) (Revenue \$ 0.)

International (in Situ) wildlife/biodiversity conservation Programs See Statement of Program Service Accomplishments attached

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

4d Other program services. (Describe in Schedule O.)

(Expenses \$ including grants of \$) (Revenue \$)

4e Total program service expenses 306,560.

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)? If 'Yes,' complete Schedule A	X	
2 Is the organization required to complete Schedule B, Schedule of Contributors (see instructions)?	X	
3 Did the organization engage in direct or indirect political campaign activities on behalf of or in opposition to candidates for public office? If 'Yes,' complete Schedule C, Part I		X
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? If 'Yes,' complete Schedule C, Part II		X
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? If 'Yes,' complete Schedule C, Part III		X
6 Did the organization maintain any donor advised funds or any similar funds or accounts for which donors have the right to provide advice on the distribution or investment of amounts in such funds or accounts? If 'Yes,' complete Schedule D, Part I		X
7 Did the organization receive or hold a conservation easement, including easements to preserve open space, the environment, historic land areas, or historic structures? If 'Yes,' complete Schedule D, Part II		X
8 Did the organization maintain collections of works of art, historical treasures, or other similar assets? If 'Yes,' complete Schedule D, Part III		X
9 Did the organization report an amount in Part X, line 21, for escrow or custodial account liability; serve as a custodian for amounts not listed in Part X; or provide credit counseling, debt management, credit repair, or debt negotiation services? If 'Yes,' complete Schedule D, Part IV		X
10 Did the organization, directly or through a related organization, hold assets in temporarily restricted endowments, permanent endowments, or quasi-endowments? If 'Yes,' complete Schedule D, Part V		X
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? If 'Yes,' complete Schedule D, Part VI	X	
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? If 'Yes,' complete Schedule D, Part VII		X
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? If 'Yes,' complete Schedule D, Part VIII	X	
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? If 'Yes,' complete Schedule D, Part IX		X
e Did the organization report an amount for other liabilities in Part X, line 25? If 'Yes,' complete Schedule D, Part X		X
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)? If 'Yes,' complete Schedule D, Part X		X
12a Did the organization obtain separate, independent audited financial statements for the tax year? If 'Yes,' complete Schedule D, Parts XI, and XII		X
b Was the organization included in consolidated, independent audited financial statements for the tax year? If 'Yes,' and if the organization answered 'No' to line 12a, then completing Schedule D, Parts XI and XII is optional		X
13 Is the organization a school described in section 170(b)(1)(A)(ii)? If 'Yes,' complete Schedule E		X
14a Did the organization maintain an office, employees, or agents outside of the United States?		X
b Did the organization have aggregate revenues or expenses of more than \$10,000 from grantmaking, fundraising, business, investment, and program service activities outside the United States, or aggregate foreign investments valued at \$100,000 or more? If 'Yes,' complete Schedule F, Parts I and IV	X	
15 Did the organization report on Part IX, column (A), line 3, more than \$5,000 of grants or other assistance to or for any foreign organization? If 'Yes,' complete Schedule F, Parts II and IV	X	
16 Did the organization report on Part IX, column (A), line 3, more than \$5,000 of aggregate grants or other assistance to or for foreign individuals? If 'Yes,' complete Schedule F, Parts III and IV		X
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? If 'Yes,' complete Schedule G, Part I (see instructions)		X
18 Did the organization report more than \$15,000 total of fundraising event gross income and contributions on Part VIII, lines 1c and 8a? If 'Yes,' complete Schedule G, Part II		X
19 Did the organization report more than \$15,000 of gross income from gaming activities on Part VIII, line 9a? If 'Yes,' complete Schedule G, Part III		X
20 a Did the organization operate one or more hospital facilities? If 'Yes,' complete Schedule H		X
b If 'Yes' to line 20a, did the organization attach a copy of its audited financial statements to this return?		

Part IV Checklist of Required Schedules (continued)

	Yes	No
21 Did the organization report more than \$5,000 of grants or other assistance to any domestic organizations or government on Part IX, column (A), line 1? <i>If 'Yes,' complete Schedule I, Parts I and II</i>		X
22 Did the organization report more than \$5,000 of grants or 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>		X
23 Did the organization answer 'Yes' to Part VII, Section A, line 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>		X
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 through 24d and complete Schedule K. If 'No,' go to line 25a</i>		X
b Did the organization invest any proceeds of tax-exempt bonds beyond a temporary period exception?		
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?		
d Did the organization act as an 'on behalf of' issuer for bonds outstanding at any time during the year?		
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>		X
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>		X
26 Did the organization report any amount on Part X, line 5, 6, or 22 for receivables from or payables to any current or former officers, directors, trustees, key employees, highest compensated employees, or disqualified persons? <i>If so, complete Schedule L, Part II</i>		X
27 Did the organization provide a grant or other assistance to an officer, director, trustee, key employee, substantial contributor or employee thereof, a grant selection committee member, or to a 35% controlled entity or family member of any of these persons? <i>If 'Yes,' complete Schedule L, Part III</i>		X
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>		X
b A family member of a current or former officer, director, trustee, or key employee? <i>If 'Yes,' complete Schedule L, Part IV</i>		X
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>		X
29 Did the organization receive more than \$25,000 in non-cash contributions? <i>If 'Yes,' complete Schedule M</i>		X
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>		X
31 Did the organization liquidate, terminate, or dissolve and cease operations? <i>If 'Yes,' complete Schedule N, Part I</i>		X
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>		X
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>		X
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>		X
35a Did the organization have a controlled entity within the meaning of section 512(b)(13)?		X
b If 'Yes' to line 35a, 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>		X
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>		X
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>		X
38 Did the organization complete Schedule O and provide explanations in Schedule O for Part VI, lines 11b and 19? Note. All Form 990 filers are required to complete Schedule O	X	

Part V Statements Regarding Other IRS Filings and Tax Compliance

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

		Yes	No
1 a	Enter the number reported in Box 3 of Form 1096. Enter -0- if not applicable		
1 a	0		
b	Enter the number of Forms W-2G included in line 1a. Enter -0- if not applicable		
1 b	0		
c	Did the organization comply with backup withholding rules for reportable payments to vendors and reportable gaming (gambling) winnings to prize winners?		
1 c			
2 a	Enter the number of employees reported on Form W-3, Transmittal of Wage and Tax Statements, filed for the calendar year ending with or within the year covered by this return		
2 a	9		
b	If at least one is reported on line 2a, did the organization file all required federal employment tax returns?	X	
2 b			
Note. If the sum of lines 1a and 2a is greater than 250, you may be required to e-file (see instructions)			
3 a	Did the organization have unrelated business gross income of \$1,000 or more during the year?		X
3 a			
b	If 'Yes' has it filed a Form 990-T for this year? If 'No' to line 3b, provide an explanation in Schedule O		
3 b			
4 a	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)?		X
4 a			
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.		
5 a	Was the organization a party to a prohibited tax shelter transaction at any time during the tax year?		X
5 a			
b	Did any taxable party notify the organization that it was or is a party to a prohibited tax shelter transaction?		X
5 b			
c	If 'Yes,' to line 5a or 5b, did the organization file Form 8886-T?		
5 c			
6 a	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 as charitable contributions?		X
6 a			
b	If 'Yes,' did the organization include with every solicitation an express statement that such contributions or gifts were not tax deductible?		
6 b			
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?		X
7 a			
b	If 'Yes,' did the organization notify the donor of the value of the goods or services provided?		
7 b			
c	Did the organization sell, exchange, or otherwise dispose of tangible personal property for which it was required to file Form 8282?		X
7 c			
d	If 'Yes,' indicate the number of Forms 8282 filed during the year		
7 d			
e	Did the organization receive any funds, directly or indirectly, to pay premiums on a personal benefit contract?		X
7 e			
f	Did the organization, during the year, pay premiums, directly or indirectly, on a personal benefit contract?		X
7 f			
g	If the organization received a contribution of qualified intellectual property, did the organization file Form 8899 as required?		
7 g			
h	If the organization received a contribution of cars, boats, airplanes, or other vehicles, did the organization file a Form 1098-C?		X
7 h			
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?		X
8			
9	Sponsoring organizations maintaining donor advised funds.		
a	Did the organization make any taxable distributions under section 4966?		X
9 a			
b	Did the organization make a distribution to a donor, donor advisor, or related person?		X
9 b			
10	Section 501(c)(7) organizations. Enter:		
a	Initiation fees and capital contributions included on Part VIII, line 12.	10 a	
10 a			
b	Gross receipts, included on Form 990, Part VIII, line 12, for public use of club facilities	10 b	
10 b			
11	Section 501(c)(12) organizations. Enter:		
a	Gross income from members or shareholders.	11 a	
11 a			
b	Gross income from other sources (Do not net amounts due or paid to other sources against amounts due or received from them.)	11 b	
11 b			
12 a	Section 4947(a)(1) non-exempt charitable trusts. Is the organization filing Form 990 in lieu of Form 1041?	12 a	
12 a			
b	If 'Yes,' enter the amount of tax-exempt interest received or accrued during the year	12 b	
12 b			
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?	13 a	
13 a			
Note. See the instructions for additional information the organization must report on Schedule O.			
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	13 b	
13 b			
c	Enter the amount of reserves on hand	13 c	
13 c			
14 a	Did the organization receive any payments for indoor tanning services during the tax year?	14 a	X
14 a			
b	If 'Yes,' has it filed a Form 720 to report these payments? If 'No,' provide an explanation in Schedule O	14 b	
14 b			

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

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

Section A. Governing Body and Management

Table with 3 columns: Question, Yes, No. Rows include: 1a (Voting members), 1b (Independent members), 2 (Family/Business relationships), 3 (Management delegation), 4 (Governing documents), 5 (Asset diversion), 6 (Members/stockholders), 7a (Power to elect/appoint), 7b (Reserved decisions), 8 (Meeting documentation), 8a (Governing body), 8b (Committee), 9 (Mailing address).

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

Table with 3 columns: Question, Yes, No. Rows include: 10a (Local chapters), 10b (Written policies), 11a (Form 990 distribution), 12a (Conflict of interest policy), 12b (Disclosure requirements), 12c (Monitoring compliance), 13 (Whistleblower policy), 14 (Document retention), 15a/b (Compensation review), 16a (Joint ventures), 16b (Safeguarding participation).

Section C. Disclosure

- 17 List the states with which a copy of this Form 990 is required to be filed - Florida
18 Section 6104 requires an organization to make its Forms 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. [X] 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 during the tax year.
20 State the name, physical address, and telephone number of the person who possesses the books and records of the organization: Paul R Reillo Ph.D., 1222 E Road, Loxahatchee, FL 33470, (561) 790-5864

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

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

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

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

- List all of the organization's **current** officers, directors, trustees (whether individuals or organizations), regardless of amount of compensation. Enter -0- in columns (D), (E), and (F) if no compensation was paid.
- List all of the organization's **current** key employees, if any. See 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 (list any hours for related organizations below dotted line)	(C) Position (do not check more than one box, unless person is both an officer and a director/trustee)						(D) Reportable compensation from the organization (W-2/1099-MISC)	(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) <u>Paul R Reillo Ph.D.</u> President/Secretary	60.00	X		X				0.	0.	0.
(2) <u>George Amato Ph.D.</u> Director	10.00	X						0.	0.	0.
(3) <u>Richard G Estes Ph.D.</u> Director	10.00	X						0.	0.	0.
(4) <u>Mark P Davis DVM</u> Director	10.00	X						0.	0.	0.
(5) <u>Christopher Langen Esq.</u> Director	10.00	X						0.	0.	0.
(6) -----										
(7) -----										
(8) -----										
(9) -----										
(10) -----										
(11) -----										
(12) -----										
(13) -----										
(14) -----										

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

(A) Name and title	(B) Average hours per week (list any hours for related organizations below dotted line)	(C) Position (do not check more than one box, unless person is both an officer and a director/trustee)					(D) Reportable compensation from the organization (W-2/1099-MISC)	(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			
(15) -----	-----								
(16) -----	-----								
(17) -----	-----								
(18) -----	-----								
(19) -----	-----								
(20) -----	-----								
(21) -----	-----								
(22) -----	-----								
(23) -----	-----								
(24) -----	-----								
(25) -----	-----								
1 b Sub-total						0.	0.	0.	
c Total from continuation sheets to Part VII, Section A									
d Total (add lines 1b and 1c)						0.	0.	0.	

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

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

Section B. Independent Contractors

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

(A) Name and business address	(B) Description of services	(C) Compensation

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

Part VIII Statement of Revenue

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

		(A) Total revenue	(B) Related or exempt function revenue	(C) Unrelated business revenue	(D) Revenue excluded from tax under sections 512-514	
CONTRIBUTIONS, GIFTS, GRANTS AND OTHER SIMILAR AMOUNTS	1 a Federated campaigns	1 a				
	b Membership dues	1 b				
	c Fundraising events	1 c				
	d Related organizations	1 d				
	e Government grants (contributions) . .	1 e				
	f All other contributions, gifts, grants, and similar amounts not included above . .	1 f 320,408.				
	g Noncash contributions included in lines 1a-1f: \$	200.				
	h Total. Add lines 1a-1f ▶	320,408.				
PROGRAM SERVICE REVENUE	Business Code					
	2 a -----					
	b -----					
	c -----					
	d -----					
	e -----					
	f All other program service revenue . . .					
g Total. Add lines 2a-2f ▶						
OTHER REVENUE	3 Investment income (including dividends, interest and other similar amounts) ▶		747.	0.	0.	747.
	4 Income from investment of tax-exempt bond proceeds . . ▶					
	5 Royalties ▶					
	6 a Gross rents	(i) Real				
		(ii) Personal				
		b Less: rental expenses				
		c Rental income or (loss)				
	d Net rental income or (loss) ▶					
	7 a Gross amount from sales of assets other than inventory	(i) Securities				
		(ii) Other				
		b Less: cost or other basis and sales expenses				
		c Gain or (loss)				
	d Net gain or (loss) ▶					
	8 a Gross income from fundraising events (not including . . \$ _____ of contributions reported on line 1c). See Part IV, line 18.	a				
		b Less: direct expenses	b			
		c Net income or (loss) from fundraising events ▶				
	9 a Gross income from gaming activities. See Part IV, line 19.	a				
		b Less: direct expenses	b			
		c Net income or (loss) from gaming activities ▶				
	10 a Gross sales of inventory, less returns and allowances	a				
b Less: cost of goods sold		b				
c Net income or (loss) from sales of inventory ▶						
Miscellaneous Revenue						
Business Code						
11 a -----						
b -----						
c -----						
d All other revenue						
e Total. Add lines 11a-11d ▶						
12 Total revenue. See instructions ▶		321,155.	0.	0.	747.	

Part IX Statement of Functional Expenses

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

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

Do not include amounts reported on lines 6b, 7b, 8b, 9b, and 10b of Part VIII.	(A) Total expenses	(B) Program service expenses	(C) Management and general expenses	(D) Fundraising expenses
1 Grants and other assistance to governments and organizations in the United States. See Part IV, line 21	800.	800.		
2 Grants and other assistance to individuals in the United States. See Part IV, line 22				
3 Grants and other assistance to governments, organizations, and individuals outside the United States. See Part IV, lines 15 and 16	34,600.	34,600.		
4 Benefits paid to or for members				
5 Compensation of current officers, directors, trustees, and key employees				
6 Compensation not included above, to disqualified persons (as defined under section 4958(f)(1)) and persons described in section 4958(c)(3)(B)				
7 Other salaries and wages	138,930.	138,930.	0.	0.
8 Pension plan accruals and contributions (include section 401(k) and 403(b) employer contributions)				
9 Other employee benefits				
10 Payroll taxes	11,760.	11,760.	0.	0.
11 Fees for services (non-employees):				
a Management				
b Legal				
c Accounting	2,020.	0.	2,020.	0.
d Lobbying				
e Professional fundraising services. See Part IV, line 17				
f Investment management fees				
g Other. (If line 11g amt exceeds 10% of line 25, column (A) amount, list line 11g expenses on Schedule O)				
12 Advertising and promotion				
13 Office expenses	984.	424.	560.	0.
14 Information technology				
15 Royalties				
16 Occupancy				
17 Travel				
18 Payments of travel or entertainment expenses for any federal, state, or local public officials				
19 Conferences, conventions, and meetings				
20 Interest				
21 Payments to affiliates				
22 Depreciation, depletion, and amortization	13,721.	13,721.	0.	0.
23 Insurance	2,779.	2,779.	0.	0.
24 Other expenses. Itemize expenses not covered above (List miscellaneous expenses in line 24e. If line 24e amount exceeds 10% of line 25, column (A) amount, list line 24e expenses on Schedule O.)				
a <u>Feed and Supplies</u>	59,433.	59,433.	0.	0.
b <u>Utilities and Fuel</u>	7,062.	7,062.	0.	0.
c <u>Development and Education</u>	2,486.	2,486.	0.	0.
d <u>Communications</u>	2,671.	2,671.	0.	0.
e All other expenses	28,736.	28,675.	61.	0.
25 Total functional expenses. Add lines 1 through 24e.	305,982.	303,341.	2,641.	0.
26 Joint costs. Complete this line only if the organization reported in column (B) joint costs from a combined educational campaign and fundraising solicitation. Check here <input type="checkbox"/> if following SOP 98-2 (ASC 958-720)				

Schedule O (Form 990 or 990-EZ), Supplemental Information to Form 990 or 990-EZ
Form 990, Page 10, Line 24e All Other Expenses (continued)

Description	(A) Total	(B) Program services	(C) Management and general	(D) Fundraising
Equipment	4,772.	4,772.	0.	0.
Postage and printing	1,130.	1,130.	0.	0.
Veterarian	1,812.	1,812.	0.	0.
License	240.	240.	0.	0.
Dues and Subscription	120.	120.	0.	0.
Real estate taxes	4,258.	4,258.	0.	0.
Other Conservation Program support	16,343.	16,343.	0.	0.
Annual Filing Fee	61.	0.	61.	0.

Part X Balance Sheet

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

		(A) Beginning of year		(B) End of year
ASSETS	1	Cash — non-interest-bearing	173,905.	1 233,824.
	2	Savings and temporary cash investments	375,508.	2 341,274.
	3	Pledges and grants receivable, net		3
	4	Accounts receivable, net		4
	5	Loans and other receivables from current and former officers, directors, trustees, key employees, and highest compensated employees. Complete Part II of Schedule L		5
	6	Loans and other 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). Complete Part II of Schedule L		6
	7	Notes and loans receivable, net		7
	8	Inventories for sale or use		8
	9	Prepaid expenses and deferred charges		9
	10a	Land, buildings, and equipment: cost or other basis. Complete Part VI of Schedule D	10a 996,636.	
	10b	Less: accumulated depreciation	10b 54,897.	
	10c		955,460.	10c 941,739.
	11	Investments — publicly traded securities	23,850.	11 29,508.
	12	Investments — other securities. See Part IV, line 11		12
	13	Investments — program-related. See Part IV, line 11		13
	14	Intangible assets		14
15	Other assets. See Part IV, line 11	500.	15 3,709.	
16	Total assets. Add lines 1 through 15 (must equal line 34)	1,529,223.	16 1,550,054.	
LIABILITIES	17	Accounts payable and accrued expenses	0.	17 0.
	18	Grants payable		18
	19	Deferred revenue		19
	20	Tax-exempt bond liabilities		20
	21	Escrow or custodial account liability. Complete Part IV of Schedule D		21
	22	Loans and other payables to current and former officers, directors, trustees, key employees, highest compensated employees, and disqualified persons. Complete Part II of Schedule L		22
	23	Secured mortgages and notes payable to unrelated third parties		23
	24	Unsecured notes and loans payable to unrelated third parties		24
	25	Other liabilities (including federal income tax, payables to related third parties, and other liabilities not included on lines 17-24). Complete Part X of Schedule D		25
	26	Total liabilities. Add lines 17 through 25	0.	26 0.
NET ASSETS OR FUND BALANCES	Organizations that follow SFAS 117 (ASC 958), check here <input checked="" type="checkbox"/> and complete lines 27 through 29, and lines 33 and 34.			
	27	Unrestricted net assets	1,529,223.	27 1,550,054.
	28	Temporarily restricted net assets		28
	29	Permanently restricted net assets		29
	Organizations that do not follow SFAS 117 (ASC 958), check here <input type="checkbox"/> 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.	1,529,223.	33 1,550,054.	
34	Total liabilities and net assets/fund balances.	1,529,223.	34 1,550,054.	

Part XI Reconciliation of Net Assets

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

1	Total revenue (must equal Part VIII, column (A), line 12)	1	321,155.
2	Total expenses (must equal Part IX, column (A), line 25)	2	305,982.
3	Revenue less expenses. Subtract line 2 from line 1	3	15,173.
4	Net assets or fund balances at beginning of year (must equal Part X, line 33, column (A))	4	1,529,223.
5	Net unrealized gains (losses) on investments	5	5,658.
6	Donated services and use of facilities	6	
7	Investment expenses	7	
8	Prior period adjustments	8	
9	Other changes in net assets or fund balances (explain in Schedule O)	9	
10	Net assets or fund balances at end of year. Combine lines 3 through 9 (must equal Part X, line 33, column (B))	10	1,550,054.

Part XII Financial Statements and Reporting

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

1 Accounting method used to prepare the Form 990: Cash Accrual Other _____

If the organization changed its method of accounting from a prior year or checked 'Other,' explain in Schedule O.

2 a Were the organization's financial statements compiled or reviewed by an independent accountant? Yes No

If 'Yes,' check a box below to indicate whether the financial statements for the year were compiled or reviewed on a separate basis, consolidated basis, or both:

Separate basis Consolidated basis Both consolidated and separate basis

b Were the organization's financial statements audited by an independent accountant? Yes No

If 'Yes,' check a box below to indicate whether the financial statements for the year were audited on a separate basis, consolidated basis, or both:

Separate basis Consolidated basis Both consolidated and separate basis

c If 'Yes' to line 2a or 2b, does the organization have a committee that assumes responsibility for oversight of the audit, review, or compilation of its financial statements and selection of an independent accountant? Yes No

If the organization changed either its oversight process or selection process during the tax year, explain in Schedule O.

3 a 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 No

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 No

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

BAA

SCHEDULE A
(Form 990 or 990-EZ)

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.

▶ Information about Schedule A (Form 990 or 990-EZ) and its instructions is at www.irs.gov/form990.

OMB No. 1545-0047

2013

Open to Public Inspection

Name of the organization

Rare Species Conservatory Foundation

Employer identification number

65-0560456

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 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 – Non-functionally integrated
- 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 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?

	Yes	No
(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 supported organization?	11 g (i)	
(ii) A family member of a person described in (i) above?	11 g (ii)	
(iii) A 35% controlled entity of a person described in (i) or (ii) above?	11 g (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 column (i) listed in your governing document?		(v) Did you notify the organization in column (i) of your support?		(vi) Is the organization in column (i) organized in the U.S.?		(vii) Amount of monetary support
			Yes	No	Yes	No	Yes	No	
(A)									
(B)									
(C)									
(D)									
(E)									
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) 2009	(b) 2010	(c) 2011	(d) 2012	(e) 2013	(f) Total
1 Gifts, grants, contributions, and membership fees received. (Do not include any 'unusual grants.')	149,709.	264,635.	207,101.	453,248.	320,408.	1,395,101.
2 Tax revenues levied for the organization's benefit and either paid to or expended on its behalf						
3 The value of services or facilities furnished by a governmental unit to the organization without charge.						
4 Total. Add lines 1 through 3	149,709.	264,635.	207,101.	453,248.	320,408.	1,395,101.
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)						58,420.
6 Public support. Subtract line 5 from line 4						1,336,681.

Section B. Total Support

Calendar year (or fiscal year beginning in) ▶	(a) 2009	(b) 2010	(c) 2011	(d) 2012	(e) 2013	(f) Total
7 Amounts from line 4	149,709.	264,635.	207,101.	453,248.	320,408.	1,395,101.
8 Gross income from interest, dividends, payments received on securities loans, rents, royalties and income from similar sources	1,327.	2,242.	1,788.	1,038.	747.	7,142.
9 Net income from unrelated business activities, whether or not the business is regularly carried on						
10 Other income. Do not include gain or loss from the sale of capital assets (Explain in Part IV.)						
11 Total support. Add lines 7 through 10						1,402,243.
12 Gross receipts from related activities, etc (see instructions)					12	
13 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 ▶ <input type="checkbox"/>						

Section C. Computation of Public Support Percentage

14 Public support percentage for 2013 (line 6, column (f) divided by line 11, column (f))	14	95.32 %
15 Public support percentage from 2012 Schedule A, Part II, line 14	15	78.60 %
16a 33-1/3% support test – 2013. If the organization did not check the box on line 13, and the line 14 is 33-1/3% or more, check this box and stop here. The organization qualifies as a publicly supported organization ▶ <input checked="" type="checkbox"/>		
b 33-1/3% support test – 2012. If the organization did not check a box on line 13 or 16a, and line 15 is 33-1/3% or more, check this box and stop here. The organization qualifies as a publicly supported organization ▶ <input type="checkbox"/>		
17a 10%-facts-and-circumstances test – 2013. 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 ▶ <input type="checkbox"/>		
b 10%-facts-and-circumstances test – 2012. 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 ▶ <input type="checkbox"/>		
18 Private foundation. If the organization did not check a box on line 13, 16a, 16b, 17a, or 17b, check this box and see instructions ▶ <input type="checkbox"/>		

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

(Complete only if you checked the box on line 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 yr beginning in) ▶	(a) 2009	(b) 2010	(c) 2011	(d) 2012	(e) 2013	(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 yr beginning in) ▶	(a) 2009	(b) 2010	(c) 2011	(d) 2012	(e) 2013	(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 lns 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 2013 (line 8, column (f) divided by line 13, column (f))	15	%
16 Public support percentage from 2012 Schedule A, Part III, line 15.	16	%

Section D. Computation of Investment Income Percentage

17 Investment income percentage for 2013 (line 10c, column (f) divided by line 13, column (f))	17	%
18 Investment income percentage from 2012 Schedule A, Part III, line 17	18	%

19a **33-1/3% support tests – 2013.** 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 – 2012.** 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.** 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).

Other Addl Info: Organization receiving any unusual grants in 2011

Bachelor Foundation

Date: 11/19/2011

Amount: \$ 54,000

Explanation: 100% restricted for purchase of digital radiography system to be shared equally, and at no charge by, local community non-profit organizations working with wildlife.

See Statement of Program Service Accomplishments.

Schedule B
(Form 990, 990-EZ,
or 990-PF)

Department of the Treasury
Internal Revenue Service

Schedule of Contributors

▶ Attach to Form 990, Form 990-EZ, or Form 990-PF

▶ Information about Schedule B (Form 990, 990-EZ, 990-PF) and its instructions is at www.irs.gov/form990.

OMB No. 1545-0047

2013

Name of the organization Rare Species Conservatory Foundation	Employer identification number 65-0560456
--	--

Organization type (check one):

Filers of:

Form 990 or 990-EZ

Section:

- 501(c)(3) (enter number) organization
- 4947(a)(1) nonexempt charitable trust **not** treated as a private foundation
- 527 political organization

Form 990-PF

- 501(c)(3) exempt private foundation
- 4947(a)(1) nonexempt charitable trust treated as a private foundation
- 501(c)(3) taxable private foundation

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

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

General Rule

- For an organization filing Form 990, 990-EZ, or 990-PF that received, during the year, \$5,000 or more (in money or property) from any one contributor. (Complete Parts I and II.)

Special Rules

- For a section 501(c)(3) organization filing Form 990 or 990-EZ that met the 33-1/3% support test of the regulations under sections 509(a)(1) and 170(b)(1)(A)(vi) and received from any one contributor, during the year, a contribution of the greater of (1) \$5,000 or (2) 2% of the amount on (i) Form 990, Part VIII, line 1h, or (ii) Form 990-EZ, line 1. Complete Parts I and II.
- For a section 501(c)(7), (8), or (10) organization filing Form 990 or 990-EZ that received from any one contributor, during the year, total contributions of more than \$1,000 for use *exclusively* for religious, charitable, scientific, literary, or educational purposes, or the prevention of cruelty to children or animals. Complete Parts I, II, and III.
- For a section 501(c)(7), (8), or (10) organization filing Form 990 or 990-EZ that received from any one contributor, during the year, contributions for use *exclusively* for religious, charitable, etc, purposes, but these contributions did not total to more than \$1,000. If this box is checked, enter here the total contributions that were received during the year for an *exclusively* religious, charitable, etc, purpose. Do not complete any of the parts unless the **General Rule** applies to this organization because it received nonexclusively religious, charitable, etc, contributions of \$5,000 or more during the year ▶ \$ _____

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

BAA For Paperwork Reduction Act Notice, see the Instructions for Form 990, 990EZ, or 990-PF. Schedule B (Form 990, 990-EZ, or 990-PF) (2013)

Name of organization

Rare Species Conservatory Foundation

Employer identification number

65-0560456

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

(a) Number	(b) Name, address, and ZIP + 4	(c) Total contributions	(d) Type of contribution
1	Victoria Castegren 4997 Sandy Branch Road Barboursville VA 22933	\$ 10,000.	Person <input checked="" type="checkbox"/> Payroll <input type="checkbox"/> Noncash <input type="checkbox"/> (Complete Part II for noncash contributions.)
2	The Miami Foundation 200 South Biscayne Blvd, Suite 505 Miami FL 33131-5330	\$ 150,000.	Person <input checked="" type="checkbox"/> Payroll <input type="checkbox"/> Noncash <input type="checkbox"/> (Complete Part II for noncash contributions.)
3	The Bachelor Foundation 1680 Michigan Avenue PH1 Miami Beach FL 33139	\$ 70,000.	Person <input checked="" type="checkbox"/> Payroll <input type="checkbox"/> Noncash <input type="checkbox"/> (Complete Part II for noncash contributions.)
4	Hufty Foundation 982 S Patrick Circle West Palm Beach FL 33406	\$ 14,000.	Person <input checked="" type="checkbox"/> Payroll <input type="checkbox"/> Noncash <input type="checkbox"/> (Complete Part II for noncash contributions.)
5	Ms. Tami Hoag 11812 San Vicente Blvd 4th Floor Los Angeles CA 90049	\$ 5,000.	Person <input checked="" type="checkbox"/> Payroll <input type="checkbox"/> Noncash <input type="checkbox"/> (Complete Part II for noncash contributions.)
6	Mr. Sean Elliott 15661 Rawls Road Sarasota FL 34240	\$ 5,000.	Person <input checked="" type="checkbox"/> Payroll <input type="checkbox"/> Noncash <input type="checkbox"/> (Complete Part II for noncash contributions.)

Name of organization Rare Species Conservatory Foundation	Employer identification number 65-0560456
--	--

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

(a) Number	(b) Name, address, and ZIP + 4	(c) Total contributions	(d) Type of contribution
7	Morris Animal Foundation ----- 10200 East Girard Avenue, Suite B430 ----- Denver CO 80231 -----	\$ 17,902.	Person <input checked="" type="checkbox"/> Payroll <input type="checkbox"/> Noncash <input type="checkbox"/> (Complete Part II for noncash contributions.)
8	International Elephant Foundation ----- PO Box 366 ----- Azle TX 76098 -----	\$ 9,900.	Person <input checked="" type="checkbox"/> Payroll <input type="checkbox"/> Noncash <input type="checkbox"/> (Complete Part II for noncash contributions.)
---	----- ----- ----- -----	\$ -----	Person <input type="checkbox"/> Payroll <input type="checkbox"/> Noncash <input type="checkbox"/> (Complete Part II for noncash contributions.)
---	----- ----- ----- -----	\$ -----	Person <input type="checkbox"/> Payroll <input type="checkbox"/> Noncash <input type="checkbox"/> (Complete Part II for noncash contributions.)
---	----- ----- ----- -----	\$ -----	Person <input type="checkbox"/> Payroll <input type="checkbox"/> Noncash <input type="checkbox"/> (Complete Part II for noncash contributions.)
---	----- ----- ----- -----	\$ -----	Person <input type="checkbox"/> Payroll <input type="checkbox"/> Noncash <input type="checkbox"/> (Complete Part II for noncash contributions.)

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, lines 6, 7, 8, 9, 10, 11a, 11b, 11c, 11d, 11e, 11f, 12a, or 12b. Attach to Form 990.

Information about Schedule D (Form 990) and its instructions is at www.irs.gov/form990.

OMB No. 1545-0047

2013

Open to Public Inspection

Name of the organization

Employer identification number

Rare Species Conservatory Foundation

65-0560456

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.

Table with 2 columns: (a) Donor advised funds, (b) Funds and other accounts. Rows include: 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... Yes No, 6 Did the organization inform all grantees... Yes No.

Part II Conservation Easements.

Complete if the organization answered 'Yes' to Form 990, Part IV, line 7.

Table with 2 columns: Held at the End of the Tax Year. Rows include: 1 Purpose(s) of conservation easements, 2 Complete lines 2a through 2d if the organization held a qualified conservation contribution, 3 Number of conservation easements modified, 4 Number of states where property subject to conservation easement is located, 5 Does the organization have a written policy..., 6 Staff and volunteer hours..., 7 Amount of expenses..., 8 Does each conservation easement..., 9 In Part XIII, describe how the organization reports...

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.

Table with 2 columns: Revenues included in Form 990, Part VIII, line 1; Assets included in Form 990, Part X. Rows include: 1 a If the organization elected, as permitted under SFAS 116 (ASC 958), not to report... b If the organization elected, as permitted under SFAS 116 (ASC 958), to report... 2 If the organization received or held works of art, historical treasures, or other similar assets for financial gain...

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

3 Using the organization's acquisition, accession, and other records, check any of the following that 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 XIII.

5 During the year, did the organization solicit or receive donations of art, historical treasures, or other similar assets to be sold to raise funds rather than to be maintained as part of the organization's collection? Yes No

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

1 a Is the organization an agent, trustee, custodian, or other intermediary for contributions or other assets not included on Form 990, Part X? Yes No

b If 'Yes,' explain the arrangement in Part XIII and complete the following table:

	Amount
c Beginning balance	1 c
d Additions during the year	1 d
e Distributions during the year	1 e
f Ending balance	1 f

2 a Did the organization include an amount on Form 990, Part X, line 21? Yes No

b If 'Yes,' explain the arrangement in Part XIII. Check here if the explanation has been provided in Part XIII Yes No

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
1 a Beginning of year balance					
b Contributions					
c Net investment earnings, gains, and 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 current year end balance (line 1g, column (a)) held as:

- a Board designated or quasi-endowment _____ %
 - b Permanent endowment _____ %
 - c Temporarily restricted endowment _____ %
- The percentages in lines 2a, 2b, and 2c should equal 100%.

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

	Yes	No
(i) unrelated organizations	3a(i)	
(ii) related organizations	3a(ii)	
b If 'Yes' to 3a(ii), are the related organizations listed as required on Schedule R?	3b	

4 Describe in Part XIII the intended uses of the organization's endowment funds.

Part VI Land, Buildings, and Equipment.

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

Description of property	(a) Cost or other basis (investment)	(b) Cost or other basis (other)	(c) Accumulated depreciation	(d) Book value
1 a Land	905,208.			905,208.
b Buildings	15,000.		7,216.	7,784.
c Leasehold improvements				
d Equipment	68,853.		40,525.	28,328.
e Other	7,575.		7,156.	419.
Total. Add lines 1a through 1e. (Column (d) must equal Form 990, Part X, column (B), line 10(c).)				941,739.

Part VII Investments – Other Securities.

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

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

Part VIII Investments – Program Related.

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

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

Part IX Other Assets.

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

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

Part X Other Liabilities.

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

(a) Description of liability	(b) Book value
(1) Federal income taxes	
(2) _____	
(3) _____	
(4) _____	
(5) _____	
(6) _____	
(7) _____	
(8) _____	
(9) _____	
(10) _____	
(11) _____	
Total. (Column (b) must equal Form 990, Part X, column (B) line 25.) . . . ▶	

2. Liability for uncertain tax positions. In Part XIII, provide the text of the footnote to the organization's financial statements that reports the organization's liability for uncertain tax positions under FIN 48 (ASC 740). Check here if the text of the footnote has been provided in Part XIII

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

Complete if the organization answered 'Yes' to Form 990, Part IV, line 12a.

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

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

Complete if the organization answered 'Yes' to Form 990, Part IV, line 12a.

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

Part XIII Supplemental Information.

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

Schedule F
(Form 990)

Statement of Activities Outside the United States

OMB No. 1545-0047

- ▶ Complete if the organization answered 'Yes' on Form 990, Part IV, line 14b, 15, or 16.
 - ▶ Attach to Form 990. ▶ See separate instructions.
 - ▶ Information about Schedule F (Form 990) and its instructions is at www.irs.gov/form990.

2013

Open to Public Inspection

Department of the Treasury
Internal Revenue Service

Name of the organization

Employer identification number

Rare Species Conservatory Foundation

65-0560456

Part I General Information on Activities Outside the United States. Complete if the organization answered 'Yes' on Form 990, Part IV, line 14b.

- 1 For grantmakers. Does the organization maintain records to substantiate the amount of its grants and other assistance, the grantees' eligibility for the grants or assistance, and the selection criteria used to award the grants or assistance? Yes No
- 2 For grantmakers. Describe in Part V the organization's procedures for monitoring the use of its grants and other assistance outside the United States.
- 3 Activities per Region. (The following Part I, line 3 table can be duplicated if additional space is needed.)

(a) Region	(b) Number of offices in the region	(c) Number of employees, agents, and independent contractors in region	(d) Activities conducted in region (by type) (e.g., fundraising, program services, investments, grants to recipients located in the region)	(e) If activity listed in (d) is a program service, describe specific type of service(s) in region	(f) Total expenditures for and investments in region
(1) Central America	0	0	Program Service	See Schedule F - Part V	5,937.
(2) Sub-Saharan Africa	0	0	Program Service	See Schedule F- Part V	38,213.
(3) South America	0	0	Program Service	see Schedule F - Part V	1,100.
(4)					
(5)					
(6)					
(7)					
(8)					
(9)					
(10)					
(11)					
(12)					
(13)					
(14)					
(15)					
(16)					
(17)					
3 a Sub-total	0	0			45,250.
b Total from continuation sheets to Part I					
c Totals (add lines 3a and 3b) .	0	0			45,250.

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

Schedule F (Form 990) 2013

Part II Grants and Other Assistance to Organizations or Entities Outside the United States. Complete if the organization answered 'Yes' on Form 990, Part IV, line 15, for any recipient who received more than \$5,000. Part II can be duplicated if additional space is needed.

1	(a) Name of organization	(b) IRS code section and EIN (if applicable)	(c) Region	(d) Purpose of grant	(e) Amount of cash grant	(f) Manner of cash disbursement	(g) Amount of non-cash assistance	(h) Description of non-cash assistance	(i) Method of valuation (book, FMV, appraisal, other)
(1)			Sub-Saharan Africa	Wildlife Research	35,213	Wire Transfer/check			
(2)									
(3)									
(4)									
(5)									
(6)									
(7)									
(8)									
(9)									
(10)									
(11)									
(12)									
(13)									
(14)									
(15)									
(16)									

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 2

3 Enter total number of other organizations or entities 1

Part III Grants and Other Assistance to Individuals Outside the United States. Complete if the organization answered 'Yes' on Form 990, Part IV, line 16. Part III can be duplicated if additional space is needed.

(a) Type of grant or assistance	(b) Region	(c) Number of recipients	(d) Amount of cash grant	(e) Manner of cash disbursement	(f) Amount of non-cash assistance	(g) Description of non-cash assistance	(h) Method of valuation (book, FMV, appraisal, other)
(1)							
(2)							
(3)							
(4)							
(5)							
(6)							
(7)							
(8)							
(9)							
(10)							
(11)							
(12)							
(13)							
(14)							
(15)							
(16)							
(17)							
(18)							

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, Return by a U.S. Transferor of Property to a Foreign Corporation (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, Annual Return To Report Transactions with Foreign Trusts and Receipt of Certain Foreign Gifts, and/or Form 3520-A Annual Information Return of Foreign Trust With a U.S. Owner (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, Information 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

Part V Supplemental Information

Provide the information required by Part I, line 2 (monitoring of funds); Part I, line 3, column (f) (accounting method; amounts of investments vs expenditures per region); Part II, line 1 (accounting method); Part III (accounting method); and Part III, column (c) (estimated number of recipients), as applicable. Also complete this part to provide any additional information (see instructions).

Schedule F, Parts I

Pt I Line 2 Grant Monitoring: All grants are require a budget, expense tracking and follow-up report. In addition to reporting requirements by original granting agency.

Schedule F, Parts I and II

Central America/Caribbean

Dominica: Expended \$2437 (direct expenses by Reillo via credit card, cash and checks) in field running/travel costs, personnel support, supplies for the Parrot Conservation and Research Centre and equipment to conduct wildlife conservation, research and recovery programs in-country and collaboratively with Dominica's Forestry, Wildlife and Parks Division, Ministry of Agriculture and the Environment.

Grant support comprised:

- (1) \$3500 (wire transfers) to Dominica's Forestry, Wildlife and Parks Division for: (1) implementation of the 2013 Caribbean Endemic Birds Festival (an annual, community-based outreach program to educate children and the general public about avian conservation, ecology, and natural resource protection); (2) to conduct Imperial parrot surveys under a grant agreement with the Loro Parque Fundacion; and (3) for aviary and general field-support operations during 2013.

South America

Brazil: \$1100 grant (via wire transfer) to Brazilian NGO Associação de Pesquisa e Conservação da Vida Silvestre for expansion of the Red-browed parrot aviary at Curitiba Zoo; RSCF is partnered with both organizations to help conserve priority Brazilian wildlife species. This expansion is part of the long-term, *in situ* breeding and recovery effort for *Amazona rhodocorytha*, South America's most endangered Amazon parrot.

Sub-Saharan Africa

Kenya: \$15,000 grant (via wire transfer) to Rhino Ark Charitable Trust for field operations, wildlife protection and surveillance and community outreach under the Bongo Surveillance Programme (BSP). This program coordinates bongo antelope population management, field monitoring, community education and awareness, wildlife clubs, antelope surveillance, population surveys, and data/sample collection. All field bongo research is coordinated between the Bongo Surveillance Programme, Rhino Ark Charitable Trust and the Kenya Wildlife Service.

Cote d'Ivoire: \$3000 (via check) was dispersed on behalf of the Toledo Zoo, AZA Crocodylian Advisory Group, and the San Diego Zoo for RSCF Research Associate Dr. Matthew Shirley to sponsor a field trip to Cote d'Ivoire in February 2013 to liaise with the Abidjan National Zoo and the Ivorian national parks service (OIPR) in order to initiate the project "*Captive Breeding for the Conservation of West African Slender-snouted Crocodiles in the Upper Guinea Forests.*"

South Africa: \$15,000 (wire transfer) to Stellenbosch University and \$4213 dispersed by check directly to RSCF Conservation Veterinarian and Research Associate Dr. Michele Miller for research expenses related to lion tuberculosis in South Africa on behalf of Morris Animal Foundation grant. \$1000 dispersed by check on behalf of American Association of Zoo Veterinarians Research Grant to Miller/RSCF, conducting conservation research on rhinoceros diseases in South Africa. Dr. Miller's research program was conducted in collaboration with South African National Parks (South Africa), Stellenbosch University (South Africa), Department of Agriculture, Forests, and Fisheries/DAFF (South Africa), and Colorado State University (USA).

SCHEDULE O
(Form 990 or 990-EZ)

Supplemental Information to Form 990 or 990-EZ

OMB No. 1545-0047

Complete to provide information for responses to specific questions on
Form 990 or 990-EZ or to provide any additional information.

2013

▶ Attach to Form 990 or 990-EZ.

▶ Information about Schedule O (Form 990 or 990-EZ) and its instructions is
at www.irs.gov/form990.

**Open to Public
Inspection**

Department of the Treasury
Internal Revenue Service

Name of the organization

Employer identification number

Rare Species Conservatory Foundation

65-0560456

Pt VI, Line 11b A copy of the 990 is provided to the Directors before filing.

The 990 with backup is prepared with, and reviewed by a tax
accounting professional and sent back to RSCF for corrections.

After all corrections are made and the return is reviewed by
the accountant, a clean copy is prepared for signing,
converted to PDF format, and distributed to the directors
for approval. The final copy is signed, updated to PDF for
redistribution to the directors, and filed with the IRS.

Pt VI, Line 12c Directors are asked to disclose any conflicting interest

annually. All are required to sign the Conflict of Interest
Disclosure Form, and this policy is monitored by the Program's
Director and/or Foundation President.

Full disclosure, by notice in writing, shall be made by the
interested parties to the full board of directors in all
conflicts of interest including but not limited to the
following:

A board member's relationship to other members.

A board member or their organization stands to benefit from
a transaction.

A board member's organization receives grant funding.

A board member or staff member is a member of the governing
body of a contributor to RSCF.

A volunteer working on behalf of RSCF who meets any of the

Name of the organization

Employer identification number

Rare Species Conservatory Foundation

65-0560456

situations or criteria listed above.

In the event that a conflict of interest arises, a disclosure form must be resubmitted

Pt VI, Line 19 Financial Statements, Conflict of Interest Policy, Code of Ethics, Document Retention, Destruction Policy, Whistleblower Policy and other policies are available upon request.

Depreciation and Amortization (Including Information on Listed Property)

2013

Department of the Treasury Internal Revenue Service (99)

See separate instructions. Attach to your tax return.

Attachment Sequence No. 179

Name(s) shown on return: Rare Species Conservatory Foundation

Identifying number: 65-0560456

Form 990 / Form 990EZ

Part I Election To Expense Certain Property Under Section 179

Note: If you have any listed property, complete Part V before you complete Part I.

Table with 13 rows for Section 179 election. Includes fields for maximum amount, total cost, threshold cost, reduction in limitation, dollar limitation, and carryover amounts.

Note: Do not use Part II or Part III below for listed property. Instead, use Part V.

Part II Special Depreciation Allowance and Other Depreciation (Do not include listed property.) (See instructions.)

Table with 3 rows for Special Depreciation Allowance and Other Depreciation. Includes fields for qualified property, section 168(f)(1) election, and other depreciation.

Part III MACRS Depreciation (Do not include listed property.) (See instructions.)

Section A

Table with 2 rows for Section A. Includes MACRS deductions for assets placed in service before 2013 and a checkbox for grouping assets.

Section B - Assets Placed in Service During 2013 Tax Year Using the General Depreciation System

Table with 7 columns: Classification of property, Month and year placed in service, Basis for depreciation, Recovery period, Convention, Method, and Depreciation deduction. Lists property types like 3-year, 5-year, 7-year, 10-year, 15-year, 20-year, 25-year, Residential rental, and Nonresidential real property.

Section C - Assets Placed in Service During 2013 Tax Year Using the Alternative Depreciation System

Table with 6 columns: Class life, Month and year placed in service, Basis for depreciation, Recovery period, Convention, and Depreciation deduction. Lists class life options: 12-year and 40-year.

Part IV Summary (See instructions.)

Table with 3 rows for Summary. Includes fields for listed property amount, total amount from lines 12, 14, 19, 20, and 21, and the portion of basis attributable to section 263A costs.

Part V Listed Property (Include automobiles, certain other vehicles, certain computers, and property used for entertainment, recreation, or amusement.)

Note: For any vehicle for which you are using the standard mileage rate or deducting lease expense, complete **only** 24a, 24b, columns (a) through (c) of Section A, all of Section B, and Section C if applicable.

Section A – Depreciation and Other Information (Caution: See the instructions for limits for passenger automobiles.)

24 a Do you have evidence to support the business/investment use claimed? Yes No **24b** If 'Yes,' is the evidence written? Yes No

(a) Type of property (list vehicles first)	(b) Date placed in service	(c) Business/ investment use percentage	(d) Cost or other basis	(e) Basis for depreciation (business/investment use only)	(f) Recovery period	(g) Method/ Convention	(h) Depreciation deduction	(i) Elected section 179 cost
25 Special depreciation allowance for qualified listed property placed in service during the tax year and used more than 50% in a qualified business use (see instructions)							25	
26 Property used more than 50% in a qualified business use:								
27 Property used 50% or less in a qualified business use:								
28 Add amounts in column (h), lines 25 through 27. Enter here and on line 21, page 1							28	
29 Add amounts in column (i), line 26. Enter here and on line 7, page 1								29

Section B – Information on Use of Vehicles

Complete this section for vehicles used by a sole proprietor, partner, or other 'more than 5% owner,' or related person. If you provided vehicles to your employees, first answer the questions in Section C to see if you meet an exception to completing this section for those vehicles.

	(a) Vehicle 1		(b) Vehicle 2		(c) Vehicle 3		(d) Vehicle 4		(e) Vehicle 5		(f) Vehicle 6	
	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
30 Total business/investment miles driven during the year (do not include commuting miles)												
31 Total commuting miles driven during the year												
32 Total other personal (noncommuting) miles driven												
33 Total miles driven during the year. Add lines 30 through 32												
34 Was the vehicle available for personal use during off-duty hours?												
35 Was the vehicle used primarily by a more than 5% owner or related person?												
36 Is another vehicle available for personal use?												

Section C – Questions for Employers Who Provide Vehicles for Use by Their Employees

Answer these questions to determine if you meet an exception to completing Section B for vehicles used by employees who are not more than 5% owners or related persons (see instructions).

	Yes	No
37 Do you maintain a written policy statement that prohibits all personal use of vehicles, including commuting, by your employees?		
38 Do you maintain a written policy statement that prohibits personal use of vehicles, except commuting, by your employees? See the instructions for vehicles used by corporate officers, directors, or 1% or more owners		
39 Do you treat all use of vehicles by employees as personal use?		
40 Do you provide more than five vehicles to your employees, obtain information from your employees about the use of the vehicles, and retain the information received?		
41 Do you meet the requirements concerning qualified automobile demonstration use? (See instructions.) Note: If your answer to 37, 38, 39, 40, or 41 is 'Yes,' do not complete Section B for the covered vehicles.		

Part VI Amortization

(a) Description of costs	(b) Date amortization begins	(c) Amortizable amount	(d) Code section	(e) Amortization period or percentage	(f) Amortization for this year
42 Amortization of costs that begins during your 2013 tax year (see instructions):					
43 Amortization of costs that began before your 2013 tax year					43
44 Total. Add amounts in column (f). See the instructions for where to report					44

RARE SPECIES CONSERVATORY FOUNDATION, INC.

EIN: 65-0560456

FORM: 990

TAX YEAR: 2013

PART III: STATEMENT OF PROGRAM SERVICE ACCOMPLISHMENTS

Mission and Scope: RSCF is a 501(c)(3), non-profit organization dedicated to preserving biodiversity through hands-on conservation programs rooted in sound science. RSCF employs the "flagship species" concept to identify and conserve high profile, priority species in order to leverage protection for the ecosystems they represent. Flagship species breeding and conservation efforts, along with field-based research, habitat protection and local capacity building, are directed toward long-term, regional-scale biodiversity preservation. RSCF designs sustainable recovery, reintroduction and protection programs for endangered species in the wild, and works collaboratively with governments and other conservation/research organizations to restore target species and protect critical habitats. RSCF also provides consulting and technical services to conservation teams, and forms educational, political and economic partnerships to expedite specific habitat and species conservation projects.

Please also see detailed descriptions of program activities at www.rarespecies.org.

I. 2013 Breeding and research activities

The Red-browed Amazon parrot: The endangered Amazon parrot *Amazona rhodocorytha* is a top priority for long-term captive breeding and management, from which a sustainable, *in situ* recovery effort is evolving. RSCF holds the only known breeding group in North America. The captive effort serves as a program platform to facilitate global management of the species and *in situ* conservation investment in Brazil. The Red-brow is a parrot of highest conservation priority, as identified in the 2000-2001 Status Survey and Conservation Action Plan for Parrots, published in 2000 by the IUCN (World Conservation Union) in coordination with the World Parrot Trust. In conjunction with IBAMA/ICMBIO (the Brazilian government wildlife authority), RSCF and partnering NGO's (Zoo Curitiba, Ideia Ambiental, Associação de Pesquisa e Conservação da Vida Silvestre) seek to repatriate confiscated *in situ* and captive-bred *ex situ* Red-brows, and transfer title for all *ex situ* Red-brows to the Brazilian government in recognition of Brazil's governing authority and progressive conservation and law enforcement efforts. RSCF aims to return a core population of Red-brows to Brazil as necessary to complement an existing breeding-and-rehabilitation program. During 2013, RSCF Director Reillo continued to coordinate program elements with Pedro Scherer Neto, point person for the Red-brow effort in Curitiba, Brazil. Program development during 2013 included an aviary expansion at Curitiba Zoo (partially funded by RSCF) and the completion of new on-exhibit and off-exhibit aviaries at Tampa's Lowry Park Zoo. The Zoo is engaging in a progressive collaboration with RSCF on behalf of Red-brows, helping manage the North American population, promoting conservation education and outreach, and assisting with *in situ* program development. Ultimately, the RSCF-TLPZ-Brazil collaboration will coordinate husbandry and captive-breeding methods, prepare field recovery strategies, and implement international governmental regulations to thwart trade in the species and reinforce species-level authority and sovereignty by the Brazilian government. During 2013, RSCF artificially incubated and hand-reared nine Red-brows from four unrelated breeding pairs, an all-time record.

The Vinaceous Amazon parrot: In 2013 RSCF continued to help coordinate long-term captive management of *Amazona vinacea* with helper aviaries, as it also began phasing out the species at the Conservatory. RSCF's conservation agenda for the species includes recruiting additional institutional support for long-term species recovery, especially investment for *in situ* efforts. Recovery and conservation efforts for *A. vinacea* run parallel to those for *A. rhodocorytha* (above) and engage the same governmental and NGO participants.

The white-bellied Caique parrot: RSCF's 2013 on-site population of *Pionites leucogaster xanthomeria* totaled six breeding pairs. In 1999, RSCF concluded the longest running (10 years) and most successful breeding and research program on the white-bellied caique parrot. After compiling five years of reproductive and genetic data from a founder breeding population into a husbandry manual and population management system, RSCF developed the breeding protocol for this species, which is now used in aviculture worldwide. In 2000, RSCF's focus turned to placing the remaining genetically important stock with zoological institutions in the U.S. and the Graeme Hall Nature Sanctuary in Barbados (birds delivered in early 2001), and continuing to support the genetic and husbandry database. During 2001, RSCF completed the reduction of the Conservatory's white-belly inventory, with the remaining birds to be maintained indefinitely at the Loxahatchee facility. Since early 2002, *Pionites* will only be reproduced by special request from wildlife parks, accredited aviaries, or avicultural centers.

The East African Bongo: One of the most spectacular mammals bred at the Conservatory is the Mountain (or East African) Bongo, a large antelope facing extinction in the wild. The vegetation and climate at the Conservatory have proven ideal for propagating and researching this shy, forest-dwelling bovid. In 2003, RSCF commenced an inter-institutional project with the U.N. Foundation and U.N. Development Programme to establish an *in situ* breeding program for bongo in Kenya at the Mt. Kenya Wildlife Conservancy. Entitled *Repatriation of Mountain Bongo Antelope to Mt. Kenya World Heritage Site*, this initiative represents the successful completion of the first of several conservation steps needed to reestablish a self-sustaining, wild population of bongo on Mt. Kenya and in the Aberdares and surrounding ecosystems, and stimulate a broad base of conservation program support for the Mt. Kenya World Heritage Site and Aberdares National Park and Conservation Area—both global-priority biodiversity areas.

RSCF coordinated the project as an NGO contractor to UNDP, was consignor for the bongo export (receiving legal title to all animals donated to the project and repatriated to Kenya), and also donated four bongo from the RSCF population to the effort. In 2009, RSCF Research Associate Lyndon Estes completed his Ph.D. at the University of Virginia, focusing on the ecology and habitat utilization of wild bongo in the Aberdares. This research complements other recovery efforts, both *ex situ* and *in situ*, by helping to identify appropriate habitat for sustainable reintroduction, train local guides and researchers, and bolster monitoring and protection of the remaining wild bongo population. Along with the United Nations Development Programme (Small Grants Programme) and partnering NGO's, RSCF helps sponsor the Aberdares bongo surveillance effort (BSP—Bongo Surveillance Programme, www.mountainbongo.org), coordinated with the local NGO Rhino Ark (www.rhinoark.org). On the *in situ* captive front, RSCF has provided technical and veterinary services to the Mt. Kenya Wildlife Conservancy and helped sponsor general husbandry and animal care for the repatriated bongo group. During 2007, RSCF completed formal collaborations with Dr. Michael Bruford, University of Cardiff, Wales, to genetically assess the wild Aberdares and Mt. Kenya populations via mtDNA and microsatellite analyses of field-collected dung samples. This program confirmed species identities and haplotype variation in wild populations, as it also trained a Kenyan graduate student in molecular genetics laboratory methodology. Co-sponsored by Rhino Ark, this trained technician has brought state-of-the-art molecular laboratory techniques and expertise back to Kenya. In addition to corroborating field teams' detection of bongo presence in the field, the analyses produced a microsatellite protocol (using bovid markers) for discriminating individual bongo genotypes from bongo dung. During 2007 RSCF donated an ELISA flourimeter to Analabs, Ltd. (Nairobi) to assist in the isolation and identification of bovine infectious diseases that impact both wild and agricultural bovine populations. Early detection and intervention is critical to thwart periodic outbreaks of *Theileriosis*, rinderpest, hoof-and-mouth disease, and other viral and parasite-borne infections that cross between domestic and wild bovinds.

A detailed summary of research findings and management recommendations can be found at www.rarespecies.org in the document entitled "Mountain Bongo Research Summary", compiled by former Research Associate Lyndon Estes. Current program expansion includes enhancing surveillance capacity for the BSP, providing direct support for the Bongo Program Coordinator position within Rhino Ark, and continuing a comprehensive genetic assessment of all living bongo (captive and wild) using micro-satellite DNA analysis (with RSCF trustee Dr. George Amato, Director of Conservation Genomics, American Museum of Natural History—see *Other African Wildlife Initiatives*, below). Program partners, including the White Oak Conservation Center and European EEP institutions, have

pledged matching support for capacity building, field logistics, and tangible conservation implementation in the Aberdares and on Mt. Kenya. During 2013, RSCF transferred \$15,000 (partially funded by philanthropy from the Bongo Ranching Program, below) to the Rhino Ark Charitable Trust for ongoing BSP surveillance, protection and research activities in the field. In May 2013, RSCF Directors Reillo and Davis participated in the first Inter-regional Eastern Bongo Collection Workshop in Dubai, coordinated by the Al Bustan Zoological Centre and IUCN. This workshop brought together bongo managers from zoological institutions across the Middle East, Europe, Africa and North America, and Dr. Charles Musyoki, Scientific Director for the Kenya Wildlife Service. Presentations and discussions spanned the entire spectrum of husbandry, veterinary care, repatriation and wild population recovery, inter-institutional species management, funding for in situ programs, and draft budgets and action plans for the next phase of bongo conservation in Kenya. A final report from the workshop is available in print and online from the Al Bustan Zoological Centre and IUCN (Dr. David Mallon, coordinator).

Florida Bongo Ranching Program: During 2013, RSCF expanded a Florida-based bongo management consortium, linking high-net-worth private ranches to help maintain a healthy *ex situ* bongo population and provide animals for repatriation and reintroduction in Kenya as necessary. This initiative was developed at the request of the Rhino Ark Charitable Trust and Bongo Surveillance Programme (working collaboratively with the Kenya Wildlife Service), which anticipate multiple *in situ* bongo management centers over the coming years (also presented in the 1st Inter-regional Bongo Workshop, above). The ranches coordinate long-term breeding, management and surplus with RSCF and the International Studbook and contribute to *in situ* conservation via philanthropic support. RSCF retains indefinite title to the composition of animal groups loaned to ranches in exchange for ranches managing offspring over the duration of the agreement. During 2013, 9 bongo were translocated to Florida bongo ranches to expand breeding efforts.

Other in-house projects: During 2013, RSCF began phasing out management efforts for Hawk-headed parrots (*Deropithecus accipitrinus accipitrinus* and *D. a. fuscifrons*), primarily due to aging animals and the death, from old age, of the last-known, male Brazilian hawk-head in North America. RSCF continues to maintain a small group of the nominate race of hawk-heads, along with Golden conures (*Guaruba guarouba*), Pygmy marmosets (*Cebuella pygmaea*), Golden Lion Tamarins (*Leontopithecus rosalia*) and Golden-headed Lion Tamarins (*Leontopithecus chrysomelas*). RSCF participates in AZA (American Zoo and Aquarium Association)-sanctioned Species Survival Plans, Population Management Plans and studbooks for all housed species, and voluntarily maintains its animal database with ISIS, the International Species Information System. During 2013, pygmy marmoset breeding was again expanded to help recover the dwindling AZA captive populations, although the demographics of the population continue to pose significant, long-term challenges to recovery. RSCF has established 13 family groups, and during 2013 successful reproduction was achieved in five families.

Tropical Conservation Institute at Florida Atlantic University (FIU): RSCF and FIU formally partnered during 2013 to help develop a novel, interdisciplinary and international conservation platform named the Tropical Conservation Institute. Reillo was appointed Senior Research Fellow in FIU's School of Environment, Arts and Society, and senior faculty and administration from FIU have been coordinating creating of the Institute with RSCF, co-funders and partners. A working prospectus follows:

FIU Tropical Conservation Institute

Background

Earth is in the midst of its 6th mass extinction event—the first in 65 million years. Current extinction rates outpace the natural, background rate by orders of magnitude. This biodiversity crisis presents one of the greatest challenges of our age.

Biodiversity is the key to Earth's sustainability—providing important food resources, detoxifying soils and waters, buffering the climate and serving as a storehouse for potentially life-saving compounds. The natural world is inextricably linked to the human condition, our ability to comprehend our impacts and our willingness to adapt. We are perched on a precipice that affords a long and sobering view of a very changed world unless we act swiftly and decisively. It is up to us to develop solutions that preserve species and their ecosystems while ensuring that human communities thrive.

Nature's plight demands new approaches to conservation, in particular those that focus on species survival and leveraging ecosystem protection. Innovation is key for implementing real-time conservation action and training the next generation of conservation professionals here and abroad. A novel academic architecture is needed to deliver effective conservation education, training and on-the-ground programs—a platform that links universities, *in situ* practitioners, and institutions dedicated to public awareness.

Florida International University has a broad portfolio of research, education, and outreach programs that connect people to tropical and sub-tropical ecosystems. FIU's geographic expertise in environmental conservation extends from South Florida to the Caribbean, Central and South America, Africa, and tropical Asia. These regions comprise the top global biodiversity hotspots—areas of extraordinary species richness facing extraordinary threat. FIU researchers are addressing climate change and tropical forests, freshwater needs of humans and ecosystems, amphibian decline, and coastal marine ecology and fisheries. Degree programs in Biological Sciences and Earth and Environment have trained hundreds of students for careers in environmental conservation. Our global collaborators in academic institutions, NGOs, governments, and the private sector have long recognized FIU's leadership and international influence.

FIU is poised to build upon its history of excellence in science and education to develop Worlds Ahead programs and partnerships in conservation action. This year, FIU's School of Environment, Arts and Society will formally partner with international organizations, especially the Rare Species Conservatory Foundation, to create the ***FIU Tropical Conservation Institute***. The Institute will have a broad, yet practical vision: developing research and education modules that prioritize species and ecosystem protection, while building capacity among FIU graduates and conservation practitioners to tangibly benefit ecosystems throughout the tropics and sub-tropics.

As a primary partner in FIU-TCI, the Rare Species Conservatory Foundation (RSCF) offers decades of experience in solving critical conservation problems *in situ* and a network of collaborating organizations in biodiversity hotspots. RSCF is a non-profit organization dedicated to preserving biodiversity through hands-on conservation programs rooted in sound science. RSCF employs the "flagship species" concept to identify and conserve high profile, priority species in order to leverage protection for the ecosystems they represent. This concept evolved from the sobering observation that historical conservation approaches often targeted only individual, high profile, and charismatic animals. Effective flagship species not only characterize diverse ecosystems, but also connect cultural, political and social value systems to nature. The golden lion tamarin in Brazil's Atlantic forest, the

mountain bongo antelope from east Africa, and the Indian tiger are striking, attractive flagships for imperiled forests with high diversity per unit area. Conservation strategies for these pinnacle species foster broad protected-area policies and protection for whole ecosystems, thereby benefiting a myriad of plants and animals.

RSCF designs sustainable recovery, reintroduction and protection programs for endangered species in the wild, and works collaboratively with governments and other conservation/research organizations to restore target species and protect critical habitats. RSCF also provides consulting and technical services to conservation teams, and forms educational, political and economic partnerships to expedite specific habitat and species conservation projects.

Specifically, the FIU Tropical Conservation Institute will help to:

- Establish partnerships and collaborations that provide *ex situ* and *in situ* conservation expertise to advance transformative conservation programs centered in biodiversity hotspots.
- Enhance student opportunities at FIU and abroad through a network of *Conservation Fellows*. These extraordinary conservation biologists will enhance research opportunities, real-world training for students, and innovative courses for undergraduate and graduate students. Students will be changing the world *as* they learn.
- Enhance student and faculty professional opportunities through a network of *Conservation Partners*. Students will gain access to specialized zoological facilities in South Florida and around the world and faculty will gain new collaborators that can open new funding opportunities.
- Establish FIU as *an international leader* in conservation training for local and international students. New professional MS programs will attract conservation practitioners and decision makers from around the world, enhancing in-country expertise and facilitating long-term program success .
- Provide a central point of congregation and networking for FIU faculty, students, and staff interested in applied conservation issues.
- Broaden FIU's influence locally and internationally through research and via outreach to non-scientific audiences.

To realize this vision, SEAS must:

- Expand current programs and initiate new ones for species of immediate conservation need.
- Formalize current *Conservation Partners* (including Rare Species Conservatory Foundation, Zoo Miami, and the National Tropical Botanic Garden) and extend this network, especially in focal regions.
- Identify and recruit the initial *Conservation Fellows*
- Organize and streamline existing FIU faculty, staff, and academic programs
- Design professional conservation action curriculum
- Integrate conservation education and training within existing courses and faculty interests
- Vigorously fundraise to deploy on-the-ground conservation programs, support the *Conservation Fellows*, and support student participation in academic and conservation research/action programs

Prospectus

Research

SEAS' multi-disciplinary structure enhances academic productivity and fosters effective research to address environmental and societal challenges. The FIU Conservation Institute will convene conservation professionals from many backgrounds and disciplines, create opportunities for research and afford access to field sites, and respond to critical conservation problems across diverse landscapes.

Immediate research plan:

With the Rare Species Conservatory Foundation, the FIU Tropical Conservation Institute will identify at least 3 biogeographic areas for regional flagship species conservation projects in areas of high conservation yield, in partnership with local organizations and local governments. Each in-country program will engage a government partner, which will promote local-project sustainability, local pride, sovereignty over wildlife protection policies and protected areas, ultimate transference of TCI techniques and support to local governing authorities/agencies, and true local ownership of programs. Projects will address real, timely conservation problems and will serve to tangibly benefit critical species and ecosystems. Activities will emphasize species-level conservation and population recovery. FIU students and faculty will have the opportunity to conduct and contribute to problem-solving and applied conservation research while helping build professional networks and honing skills for future research and employment. Projects under consideration include:

- *Caribbean Islands*. Potential flagship species: parrots; palms; cycads
- *Montane East Africa (Kenya/Tanzania)*. Potential flagship species: East African bongo; endemic cycads; dugong; freshwater fishes
- *South Pacific (New Caledonia)*. Potential flagship species: endemic palms; sharks
- *Andean Amazon (Colombia)*. Potential flagship species: migratory fishes; amphibians; river turtles

Future research growth:

The TCI will provide a broad platform for participants here and abroad to pursue extramural funding and explore new, thematic and bio-geographical areas for research.

We anticipate that a new conservation institute will enhance FIU's fundability in conservation science and practice. Some potential sources of funding could include:

- U.S. Agency for International Development (USAID) – regional and country-level biodiversity conservation programs
- U.S. Department of Interior's international technical assistance program
- NSF-funded research that requires a long-term and intensive field presence overseas
- USFWS. [e.g., Florida Grasshopper Sparrow Recovery Program w/RSCF, 2012-2015]
- Foundations and Funds: Moore, MacArthur, Blue Moon, Critical Ecosystem Partnership Fund of CI
- GEF

Teaching / Training

The FIU Conservation Institute will serve multiple audiences through a series of degree programs and training opportunities.

For FIU undergraduate students:

- Elevate the Undergraduate Certificate in Conservation Biology to a Worlds Ahead program allowing in-person and online interaction with the world's top conservation practitioners, with the potential for study-abroad and internships.
- Create internship programs at collaborating institutions in South Florida (e.g., Rare Species Conservatory Foundation, Zoo Miami) or abroad
- Develop new course offerings and expand conservation-themed material in current course offerings

For FIU graduate students:

- Revise current graduate degree programs to include a more applied conservation focus to graduate curricula, for example:
 - More or new experiential education courses (field courses at conservation project locations, *in-situ* training)
 - Create courses that use a conservation issue to teach scientific concepts
 - Courses in monitoring and evaluating conservation projects that use regional flagship species conservation projects as sources of information.
 - Courses with international student audiences, where FIU students learn alongside students from host countries where conservation projects are located.
- Create new certificate programs or strengthen existing programs through course revision/replacement.
- Explore potential for dual degree programs with host country academic institutions that are partners on conservation projects.
- Create internship programs at collaborating institutions in South Florida (e.g., Zoo Miami, Rare Species Conservatory Foundation) or abroad
- Develop new workshop-type courses on conservation-oriented topics, in collaboration with Senior Conservation Fellows and collaborating institutions (e.g., Zoo Miami, Rare Species Conservatory Foundation)

For undergraduate and graduate students from outside of FIU:

- Develop partnerships with universities and colleges from around the world with interest in academic exchange programs. These courses could raise the profile of FIU and attract applicants for graduate and professional schools at FIU.
- Create opportunities for non-FIU students to participate in field courses at regional species conservation project locations

For international conservation professionals:

- Develop professional conservation-action diploma programs (onsite and online) and short training courses (1-2 weeks; at FIU) on specific topics to address background/training deficiencies for existing conservation professionals.

Funding Plan and Operations

The FIU Tropical Conservation Institute will be funded through a variety of mechanisms, without additional cost to other programs at FIU.

Development efforts

- Development efforts will seek an initial \$10,000,000 start-up gift (matching \$5M from TBF and Kenan), reserving up to 20% in a permanently restricted, special fund for long-term TCI administration. Seed monies will be used to fund partial salary for FIU Tropical Conservation Institute Directors (Technical and Administrative), educational programs, and regional species-conservation projects over the first three years of the TCI. The proposed per annum budget is based upon a minimum of \$1M/year revenue per biogeographic region, for the first three years:
 - 50% of annual revenue for international tropical conservation programs (3-4 initial); target = \$500K/region/year
 - 15% of annual revenue for administrative operations budget of FIU-TCI (min. \$150K/yr)
 - 20% of annual revenue for domestic programs, student support; to include annual regional meetings hosted by FIU
 - 10% for RSCF operations budget (~\$300K/yr)
 - 5% for capital expenses, excluding special land acquisitions (see below)

With a sufficient, segregated endowment, the annual administrative budget may be met by earned revenue after year three.

As part of its initial development, the TCI may consider acquiring a developed 5-acre property adjacent to RSCF in Loxahatchee to provide student and visitor housing, meeting and research space and a conservation-program headquarters. The property once served as an assisted-living facility, and includes a 5000 sq. ft. main structure (with 10 bedrooms, great room, large kitchen, meeting space, storage), a separate 2500 sq. ft. CBS guesthouse, and 10-stall barn. Estimated acquisition price, with necessary modifications: \$500-600K.

The TCI seeks to segregate all operational revenues and endowment funds in a special university funds-management package to ensure long-term university program commitment and financial yield restricted for the TCI's sustained growth. The structure, to be determined, will function as an independent, publicly supported non-profit entity under FIU's fiduciary umbrella. TCI operations, staffing and management will be autonomous under this special accounting system, enhancing real-time conservation program support with minimal bureaucracy. The minimum financial threshold to officially launch the TCI is \$500K in new funding, to be achieved within the first development year.

Competitive and Non-Competitive Research Grants

- Enhanced federal funding opportunities (NSF, USAID) on the basis of strong and formal collaborative networks and international field presence
- Enhanced ability to approach Foundations and Funds:
 - Moore, MacArthur, Mohammed Bin Zayed, Rufford, UNDP/UNEP SGP, Blue Moon, IUCN SOS, Critical Ecosystem Partnership Fund
- Pursue NSF opportunities that provide support for international collaborators:
 - Catalyzing New International Collaborations (NSF-CNIC) grant to support start up of regional species conservation projects.
 - NSF-PEER Science Program – support for international scientists who want to partner with FIU faculty with active NSF grants

Education Grants

- Cooperative grants pursued in collaboration with academic institutions in countries where conservation projects are operating
 - Potential NSF International Research Experiences for Students (IRES) grant to facilitate research opportunities overseas at regional species conservation projects
- Potential to apply for an NSF-IGERT award to support graduate education and research

Course fees

- Professional degrees and training courses
- Bring in students at low or no cost with financial aid and development opportunities

Outputs

- Real-time, tangible progress in species/ecosystem recovery (with monitoring and evaluation)
- *In situ/ex situ* capacity building, traditional education platforms, practitioner training, degree/certificate programs, project-specific personnel experience
- Traditional academic metrics (e.g., publications, presentations, program revenue)
- Outreach (e.g., professional media development, public awareness, conservation education, archival data and media materials)
- Job placement, employment enhancement for students

TCI structure

The FIU Tropical Conservation Institute will have a core leadership team that links to in-country program partners and other collaborators. TCI's administrative headquarters will reside at FIU's main campus, requiring several small offices and a shared meeting space. TCI's program headquarters will be based at RSCF in Loxahatchee, utilizing existing and expansion facilities (as described above). The main campus office will coordinate education and outreach activities, budgets, administrative functions, publications, meetings and fiduciary matters for the Institute. The RSCF program campus will provide facilities to integrate staff, researchers, visitors, donors and project personnel for training and technical conservation project activities (e.g., animal husbandry, veterinary, data management, equipment fabrication/testing, hands-on techniques and field courses). Roles and responsibilities of the respective positions/offices include:

1. FIU-TCI Administrative Director. Will be based at FIU's main campus and will provide administrative and budgetary oversight to TCI and will serve as FIU's primary point-of-contact. Responsibilities include coordinating faculty appointments, student involvement, scholarships/financial aid, outreach to FIU's public base, media relations, international program operations and liaising with university administration and funders.
2. FIU- TCI Technical Director. Will be based at RSCF/TCI headquarters in Loxahatchee and will provide technical and day-to-day operations management for conservation program activities, domestic and international. Duties will include coordinating and overseeing work plans for students, researchers and visitors; facilitating on-site projects and conservation activities at the Conservatory; developing and executing practitioner and student training (e.g., husbandry, veterinary, GIS, data management, equipment design, fabrication and deployment); coordinating *ex situ* recovery components (e.g., captive breeding) for bio-geographic-specific programs; facilitating TCI partner participation in field courses.
3. Financial Manager. Based at FIU's main campus, to assist the Administrative and Technical Directors in grants management, development and tracking, financial reporting and general accounting, restricted funds management and strategic investment/allocation decisions, liaising with donors, grantors and university administration.

4. Administrative Assistant. Initially, this position may be merged with #3 above. General administrative support position to include clerical/office duties, scheduling, correspondence and day-to-day administrative tasks as identified by Administrative and Technical Directors.
5. Academic Programs Coordinator. Based at FIU's main campus, this is a faculty position that will coordinate on-campus TCI academic programs for domestic and international students, develop curricula and courses, integrate TCI objectives and materials into existing courses and on-campus programs, oversee and coordinate faculty involvement in TCI activities.

Each in-country conservation project will have a supervisor based at one of the partnership institutions and/or governing agencies. For bio-geographic regions with multiple conservation programs, a regional program director will be selected from the in-country project supervisors to help coordinate and administer TCI functions regionally. Otherwise, each in-country project supervisor will report directly to the TCI Directors and support staff as needed. Since *in situ* programs will have unique grant requirements, reporting cycles, schedules and objectives, each project's administrative package, including grant agreements, MOU's and contracts between the TCI and its partners, will be tailored to expedite conservation activities with appropriate institutional oversight, financial vigilance, and accountability.

Feral parrot monitoring: During 2013, RSCF continued assessment and monitoring of a feral, Palm Beach population of Green-cheeked Amazon parrots (*Amazona viridigenalis*). Globally endangered and endemic to Mexico, the species has persisted on Palm Beach since the 1940's. RSCF has monitored the population for 20+ years, under an agreement with the Breakers Hotel and special permitting from the Florida Fish and Wildlife Conservation Commission. Activities include nest-site monitoring, intra-cavity inspections and video recording, banding/weighting of chicks, rehabilitation, public education and outreach (with The Breakers' education staff) and annual recruitment estimation.

Florida Grasshopper Sparrow:

[U.S. Fish and Wildlife Service Grant Agreement # F12AP01156, Captive Breeding, Grasshopper Sparrow]

This narrative will serve as the second interim report for the above referenced grant and its modification, originally executed on 12 September 2012 and subsequently modified on 7 August 2013.

Discussions and meetings addressing recovery strategies for the Florida Grasshopper Sparrow (*Ammodramus savannarum floridanus*, hereafter FGSP) between USFWS and the Rare Species Conservatory Foundation (hereafter RSCF) continued through 2013. As stipulated in the grant contract and earlier reports, RSCF was requested to provide technical assistance to a pilot captive-breeding effort for the Eastern Grasshopper Sparrow (*A. s. pratensis*) to be conducted by B. Lohr at UMBC, and to concurrently develop and integrate a captive breeding strategy for FGSP in Florida.

During the initial period from the execution of the grant agreement until now, RSCF, represented by P. Reillo, has engaged in discussions and workshops addressing wild population assessments and various recovery approaches. These include numerous discussions with USFWS staff and consultants and participation in all FGSP workshops—both by phone and in person. In addition, Reillo traveled to Maryland twice during 2013 to meet with Lohr to fine-tune husbandry techniques and to assess and interpret wild population field data. Reillo and Lohr also communicate frequently to discuss nutritional, developmental and veterinary issues with the *A. s. pratensis* in Lohr's lab.

Since the grant modification, Reillo and RSCF staff have redesigned the sparrow rearing lab at the Conservatory and are currently preparing new housing for birds anticipated to be collected during 2014. These upgrades include sealing and weatherproofing all contact surfaces, creating a neutral color scheme for the building's interior, new enclosure mesh and roofing, new lighting system, ventilation and ambient temperature control. In addition, all dedicated incubators and brooders have been overhauled, cleaned and recalibrated. Lohr is investigating the roles of photoperiod and light intensity upon the advancement of seasonal nesting activity, with the aim to accelerate nesting behavior for *A.s.pratensis* indoors in Maryland. Pending recommendations of the FGSP working group following the recent Structured Decision Making (SDM) workshop, Lohr's approach can be contrasted with the effects of the natural photoperiod shift in Florida, where *A.s. pratensis* could be collected during its winter migration. Theoretically, northern birds could commence nesting behaviors indoors in Florida earlier than their wild counterparts, post-migration. Results from these studies could have implications for adapting *A.s. floridanus* to captivity in Florida, and certainly bear upon efforts to stimulate *A.s. pratensis* reproduction in Maryland. However, discussions during the recent SDM workshop suggest limited practical yield to the FGSP effort from manipulating *A.s. pratensis* in Florida, as this surrogate is migratory and any results are necessarily confounded by contrasting ecologies and life histories. In addition, the use of surrogates in Florida, in general, duplicates Lohr's investigations for the most applicable, FGSP-parallel system for which husbandry and field protocols have long been established in Maryland. Any such investment in surrogate research in Florida comes at the cost of delaying direct intervention with the FGSP, which may impede recovery and/or prevent imminent extinction.

Next steps for the captive program hinge upon the working group's specific recommendations from the SDM workshop, which posited a decision algorithm for collecting wild, young birds and establishing a captive population. The SDM group recommended that any collection of FGSP for a captive effort in 2014 be triggered by a threshold estimate of wild adult breeding pairs pooled across all survey areas (i.e., point-count areas). If the minimum population threshold is met following repeated point-counts (usually completed by the end of May), up to 10 pairs of hatch-year (HY) birds would be collected in October 2014. This scheme affords the possibility that wild population recovery may be occurring and can be discerned during 2014, in which case the threshold would not be met, birds would not be collected, and intensive monitoring of the wild population would continue as in 2013. The threshold imposes a trigger for collection that prevents impacting a potentially recovering wild population by taking HY birds. Conversely, if the population is in discernable decline, the threshold triggers collecting for captive breeding because this may be the last opportunity to obtain sufficient, viable founders to commence the captive effort.

A potentially valuable byproduct of collection, should it occur, is the likely capture of surplus males (due to the strongly male-biased FGSP sex ratio at all potential collection sites). Any males collected in October and deemed surplus to the captive founder pool could overwinter in captivity and be released in the spring to evaluate the effects of decreased juvenile mortality. This study presumes that overwintering mortality is significant in FGSP and that keeping birds in captivity for several months does not reduce young birds' fitness or adaptability to the wild. Further, any measurable effect upon survivorship is largely dependent upon sample size. That is, the measurable benefit to the wild population by keeping HY males captive for several months can be estimated only if a sufficient number of marked, released males can be recaptured or observed in the field the following year. Theoretically, this manipulation could bolster wild male recruitment by minimizing overwintering losses for young birds; however, the overall population effect is predicted to be minimal since all populations are already strongly male-biased. The intervention strategy could be extended to HY females if the manipulation proved feasible and the survivorship effects significant.

To recap, the triggered-collection strategy emerges as the most parsimonious approach to commencing a captive population because it balances risks and unknowns while pinpointing the last, best opportunity to intervene before FGSP populations collapse. To date, the field data indicate that year-to-year fledgling survivorship is the most important demographic parameter for recruitment, population sustainability and eventual wild-population growth and recovery. Quantifying survivorship for this cohort has proven to be very challenging for field teams, and even with best monitoring efforts may incur large estimation error. As Lohr has well established that HY birds adapt to captivity far better than mature birds, the HY cohort is fundamental to any captive effort. Unless wild FGSP

populations trend positively this spring, commencing a captive-breeding program in 2014 may be the only practical hedge against imminent FGSP extinction.

Regarding finances, Reillo has drawn only a single \$10,000 ASAP payment to partially offset equipment and lab materials costs, travel and RSCF staff time for FGSP-related projects. As the working group sets the pace and scope of activities for 2014, expenditures are expected to increase dramatically, but Reillo and RSCF staff have aimed to minimize expenses until such time that wild birds are collected. Operating and support costs for the captive colony are detailed in the original and modification proposals.

II. 2013 Conservation and Research Program Field Projects

Dominica program:

Over the past half-century, Dominica's endemic Amazon parrots, the Sisserou and Jaco (*Amazona imperialis* and *A. arausiaca*, respectively), have proven to be effective conservation flagships for Dominica's diverse oceanic rainforest ecosystem. Continuous parrot-conservation and public-education efforts focusing on the Sisserou, Dominica's national bird and emblem, have achieved a broad base of public support and awareness, along with significant protection of Sisserou habitat, including the oldest forest stands on the island. Both parrot species' secretive natures and Dominica's difficult terrain often have impeded quantitative research into the parrots' ecologies, even as a comprehensive parrot-conservation program has evolved and yielded tangible results. Current field-research activities continue to quantify the parrots' distribution and abundance using GPS/GIS survey methods and direct counts. Research teams use new camera technologies to monitor and document reproduction and parental care, and are quantifying the botanical inventories of critical parrot nesting and foraging habitats. The Dominica parrot-conservation program has stimulated novel research and enhanced protected-area policies island-wide, ensuring a future for the Nature Island's vast montane forests and its winged ambassadors.

Since 1997, RSCF and Dominica's government have partnered to research and conserve Dominica's parrots. The program is multifaceted, and includes:

- extending formal, legal protection to all forests surrounding Morne Diablotin, nesting stronghold for the Sisserou, and expanding protected areas to augment the Morne Diablotin and Morne Trois Pitons National Parks
- developing management and conservation strategies for the Jaco and Sisserou with Dominica's Forestry, Wildlife and Parks Division, including new protected-areas policies (Morne Diablotin National Park and recent annexations, 1999-2005) and wildlife legislation (Wildlife Act, amended 2003-2007 and currently under Cabinet review for inclusion in a new National Parks system)
- coordinating support for ongoing research, staff capacity building and education programs with public zoological facilities, other non-profit organizations, UNDP/UNEP and local and international NGO's. Efforts include field training, delivering new research technologies and equipment, infrastructure enhancements (e.g., overhauling the Parrot Conservation and Research Centre), field vehicles, and funding outreach programs (e.g., continuous PSA's, annual Caribbean Endemic Bird Festival, trail and road signage, publications).

The broad-based conservation program has produced many significant results, including formative documentation of reproduction and bi-parental care in the Jaco and Sisserou, delineation of key parrot habitat, and the compilation of area-specific biological inventories. Most significantly, on January 21, 2000, culminating a two-year, \$1.086 million campaign spearheaded by RSCF and the Dominican government, Dominica formally declared the new Morne Diablotin National Park, encompassing ~8500 acres (3443 ha) of pristine rainforest and the principal nesting area for the Sisserou. Since then, RSCF funds have enabled seven additional, adjacent, private land parcels to be

annexed into the park, and the Morne Diablotin National Park Visitors Centre and Forestry field station to be completed and serve at a vital management outpost for the park.

Outreach, education: During 2013, in addition to assisting the parrot field conservation program, RSCF provided operational funding for the Parrot Conservation and Research Centre at the Botanical Gardens and continued its 12-year commitment to on-island environmental awareness efforts by sponsoring print and radio Public Service Announcements and special programming (e.g. Voice of Life Radio, DBS radio and television) and the 2013 Caribbean Endemic Birds Festival. In addition, RSCF secured a research grant from the Loro Parque Fundacion in Tenerife, Spain for the Dominican parrot team to conduct a comprehensive population survey of the Sisserou parrot. This survey, which will run through 2014, replicates the GPS/GIS parrot survey methodology co-developed by RSCF and Dominica's Forestry Division in 2001 to estimate current population size and distribution by estimating parrot densities across vast, montane forest habitat.

Mobile Wildlife Laboratory: During 2011, RSCF shipped a self-contained RV from Florida and equipped it to become a stand-alone, mobile wildlife laboratory, housed at the Parrot Conservation and Research Centre in Roseau. The laboratory sleeps six and provides a flexible, environmentally controlled facility for researchers and Forestry staff working on special wildlife cases (e.g., rearing/rehabilitation of wildlife, specialized veterinary care, extended stays in the field). During 2013, additional veterinary supplies, equipment and pharmaceuticals were added to the facility. Reillo and support staff used the mobile lab as a base of operation during visits in 2013.

Construction of a new parrot exhibit enclosure near the Parrot Conservation and Research Centre (PCRC), National Botanic Gardens: During 2008, RSCF designed, shipped and installed a new exhibit aviary for Jaco parrots and other representative wildlife at the Botanical Gardens in Roseau. This 15'x15'x40' enclosure, modeled after RSCF's Red-brow aviary in Loxahatchee, FL enables visitors to see Jaco parrots, agoutis, iguanas, and other representative fauna in a large, free-flight, landscaped enclosure. Previously, visitors intruded upon the PCRC to glimpse the only captive Jaco and Sisserou parrots in the world. Constructed in 1991 by the Jersey Wildlife Preservation Trust and overhauled by RSCF in 1999, the original PCRC complex is headquarters for the parrot conservation and research program, spearheaded by the Forestry, Wildlife and Parks Division. The PCRC provides safe harbor for non-releasable animals, a center for captive breeding and research for the Sisserou parrot, and laboratory and veterinary space for wildlife rehabilitation. RSCF has funded and provided all diets, consumables, equipment and supply costs for the PCRC since 1997, and in 2008 supplied renovation materials (e.g., paint, carpentry supplies and tools). During 2009, this enclosure was formally made accessible to the viewing public, as the main PCRC complex was taken off-line to again serve as a full-time, protected avian research and breeding facility. As a result, the world's only captive breeding pair of Sisserou parrots at the PCRC successfully hatched the first Sisserou chick in captivity, on 5 May 2010. During 2011, the PCRC was enhanced with new concrete sills for aviary enclosures, new wiring and plumbing, and site preparation for the mobile wildlife laboratory described above. During 2013, the exhibit enclosure was outfitted with new perimeter fencing and security measures.

Caribbean Endemic Birds Festival: Since its inception in 2002, RSCF has sponsored the Forestry, Wildlife and Parks Division's participation in the CEBF, the broadest annual environmental outreach program for children in the Lesser Antilles (>15,000 children in 2013). The program runs for one month in May, and enables children from across the island to celebrate the richness of Dominica's bird life, totaling 228 species. The program is a collective effort between Forestry, RSCF, local sponsors and the Society for the Conservation and Study of Caribbean Birds, the latter of which produces the *Journal of Caribbean Ornithology*. Each year, Forestry staff voluntarily lead presentations, tours, and media releases on the ecology and conservation of Dominica's avifauna, engaging all radio, television and print media outlets island-wide. Experienced Foresters accompany school groups on birding expeditions, seabird-watches and rainforest tours, and give illustrated presentations at the National Botanic Gardens—all on their own time. The Division also hosts a *BirdArt* contest and exhibition (370 entries last year), for children from pre-K to Seniors (IV Form). CEBF has grown each year since its inception. RSCF's annual contribution supports transportation, supplies for educational materials, field binoculars for students, field consumables, the *BirdArt* and *Radio Quiz* programs, and press-release materials.

Establishing agro-processing facility in village of Dublanc. This is an extension of the Morne Diablotin National Park/U.N. Cluster World Heritage Site program initiated by RSCF in 2000. RSCF engaged the United Nations Development Programme (UNDP) to solicit FAVACA (Florida volunteer corps.) to provide two citrus production and marketing specialists to assess citrus management in the Morne Diablotin area. The report, filed in 2006, indicates adequate acreage, production and suitable fruit quality for small-scale processing. The initiative aims to provide livelihood development for farmers and agricultural stakeholders adjacent to Morne Diablotin National Park who suffer significant crop losses to parrots and other protected wildlife. Current citrus-crop utilization is less than 40% in Dominica, largely due to on-the-tree fruit storage, and local, fresh-fruit market sales only. Micro-processing enables farmers to explore local fresh juice and extract-product markets and utilize a greater percentage of fruit set each year, thereby reducing wildlife-human conflicts. The Jaco parrot (*Amazona arausiaca*) exploits agriculture on Dominica, and while fully protected under law, the species is no longer considered imminently threatened. As opportunists, Jaco parrots supplement their food intake with readily available citrus (primarily to extract seeds), but do not rely on agriculture for adequate nutrition. The Sisserou parrot (*A. imperialis*) does not forage in agricultural areas. Smaller birds, such as bananaquits, tremblers and thrashers, also consume agriculture, along with agoutis, manicomu (opossum) and rats.

The Western Farmers Citrus Association is incorporated and fully registered as a Community Based Organization (NGO), and serves as the local consortium for agricultural stakeholders in the Morne Diablotin area. The Association has been recognized by both Dominica's Ministry of Agriculture and the Environment and UNDP as the appropriate entity to receive duty-free agricultural concessions consigned by NGO's to Government. During 2008, RSCF delivered two state-of-the-art fruit processors manufactured in Florida by FMC, the world's largest manufacturer of processing equipment (www.fmctechnologies.com):

- 1 Fresh 'n Squeeze Multi-fruit Juicer, 240VAC, with service parts
- 1 Produce Plus Juicer (for mangos, pineapple, guava, etc.)

The shipment also included spare and maintenance parts for the machines and a fully purchased, 20' shipping container for storage, with all items consigned to the Ministry of Agriculture and the Environment as duty-free. During 2012, the Ministry officially commissioned operations of the completed micro-processing facility to the Association, which began commercial processing under its own label in early 2013. The facility is located in Dublanc, a small, coastal village situated at the base of Morne Diablotin on Dominica's west coast, and has the potential to serve growers within a 10-mile radius. Processing operations are now fully functional, and the government and farmer's associations have implemented a business plan (under the product trade name "Jaco") for the processing enterprise. Processing will include juices and extracts of all types, with waste material suitable for industrial uses (e.g., organic solvents), organic compost and animal feeds.

Abaco Island, Bahamas:

During 2005, RSCF began collaborating with parrot specialists from the U.S. Fish and Wildlife Service, Puerto Rican Parrot Recovery Program, and researchers studying the Bahamian parrot, *Amazona leucocephala*, to develop a novel research and conservation strategy for the Abaco parrot population. During 2006, RSCF staff and colleagues constructed and installed ten artificial, tree-mounted nest cavities to supplement natural, subterranean nesting within Abaco National Park, on Great Abaco Island. Also during 2006, RSCF provided a field vehicle to the Bahamas National Trust (BNT), for use in parrot surveys and monitoring and other field conservation efforts on Great Abaco Island. As with all Amazon parrots, *A. leucocephala* once nested exclusively in natural tree hollows, but became a subterranean nester as Abaco's mature forest was cleared. Today, feral cats and introduced predators threaten the population's viability, devouring flightless young and nesting pairs as they enter and exit underground burrows. The project complements other, ongoing conservation measures (e.g., predator control, environmental education), and is a product of RSCF's recent partnership with the Bahamas National Trust, Department of Agriculture, and local Bahamian NGO's (e.g., Friends of the Environment). During 2007-08, the initial set of artificial nest cavities—each equipped with infrared cameras— was monitored, and birds' interest identified in several areas. Ongoing monitoring has revealed potential to expand the cavity supplementation effort, and

illustrated subtle design changes that may increase utilization. A primary objective is to evaluate nest-site use and recruitment over several years, from which a long-term nest-supplementation strategy and habitat restoration program can evolve. During 2008, RSCF Research Associate Caroline Stahala designed a new, simpler nest box to supplement parrot breeding in established areas. During 2009, these boxes were deployed in advance of the nesting season. Stahala's ongoing research includes documenting habitat use, quantifying parrot populations and distributions, evaluating predator-control and recovery measures, assessing group size as a function of cooperative behaviors, and developing a long-term protected-area policy for coppice, old growth and nesting habitat in the Bahamas. RSCF is a longstanding program partner, offering support services to the BNT and visiting ornithologists.

Other African wildlife initiatives:

RSCF Board member R.D. Estes was appointed Lifetime Member Emeritus to the IUCN Species Survival Commission, in recognition of chairmanship of the Antelope Specialist Group from 1978-2004. In addition to his pivotal role in the bongo antelope conservation program, Estes is actively involved in the conservation of the giant sable antelope, through RSCF and ASG support of an Angolan ecologist who recently obtained photographic proof that the species survives in the Cangandala National Park. In 2009, Estes assisted in an ambitious translocation effort for the giant sable in Angola and provided technical support, outreach and essential documentation for the project. He again served as Resident Naturalist in Kenya's Maasai Mara Reserve, Governors Camp, during 2013 and provided guide and guard training for wildlife teams from Mozambique, Tanzania (Gremeti Reserve), and South Africa. During 2013 he completed the most comprehensive treatise on wildebeest, *The Gnu's World*, drawing upon decades of research and historical population data compiled since 1967 (the book went to print in early 2014). During his regular field expeditions throughout the year, Estes monitors wildebeest, elephant and ungulate populations while offering outreach and interpretive services to park personnel and visitors.

Bongo antelope microsatellite analysis by RSCF trustee George Amato, Director, Sackler Institute for Comparative Genomics, American Museum of Natural History:

Microsatellite DNA analyses are used to differentiate sub-populations and estimate relatedness between individuals. Relatedness information is fundamental to the bongo recovery effort because the genetic variation across wild and captive bongo groups and the genetic similarity between fragmented wild sub-populations are presently unknown. Since bongo antelope have been maintained in captivity (with an international studbook) since the 1970's, there exists excellent pedigree information for captive animals, but no independent analysis to determine how much genetic variation exists. For convenience, studbook analyses assume that the initial founders are genetically unrelated—but this is almost never the case for any managed species. Captive bongo may comprise genes that have long disappeared from the wild or vice-versa—only a comparative genetics assessment can tell.

The bongo's sustainable recovery in the wild hinges upon practical management decisions that conserve both genetic diversity and integrity. Genetics can guide reintroductions and translocations designed to boost animal numbers and genetic diversity by helping determine which animals complement existing sub-populations, or which sub-populations can be mixed or integrated. Dr. George Amato, Director of the American Museum of Natural History's Conservation Genomics Department and RSCF trustee, recently has compiled a bongo genetic library and developed bongo-specific primers and markers to assess genetic variation, distance and relatedness among bongo populations, which will include samples from wild bongo across the Aberdares, Mau, Mt. Eburru, Salient and Mt. Kenya, the managed population at the Mt. Kenya Wildlife Conservancy (and their 2004 repatriated ancestors), and U.S. and European collections. DNA can be extracted from field-collected dung samples, or from hair and skin from live or deceased animals. Dr. Henrik Svengren, Department of Zoology, Uppsala University, Sweden, has committed to help process samples and compile a comprehensive population genetics analysis, using the protocols developed in Dr. Amato's laboratory.

An immediate goal is to assess which animals are of greatest genetic and demographic value to the overall recovery effort, and to prioritize actions that preserve existing diversity and maximize conservation yield across populations. The recovery strategy for bongo depends upon vigilance and protection of all remaining wild bongo and bongo habitat, and integrating multiple approaches— from environmental policy to reintroductions— into an effective, sustainable conservation fabric.

RSCF Research Associate Activities:

*Crocodilian research and conservation by Research Associate Matt Shirley (University of Florida)— Ecology and Conservation of the Slender-snouted Crocodile (*Mecistops cataphractus*) and recovery and re-population of dwarf (*Osteolaemus cf. tetraspis*) and Slender-snouted crocodiles.* This research program examines the taxonomy, phylogenetics, phylogeography, ecology, distribution and conservation status of a suite of west-African crocodilians (including the West African Nile crocodile, *Crocodylus niloticus*), and develops local and regional conservation and sustainable-use strategies. Matt Shirley successfully defended his Ph.D. at the University of Florida in January 2013.

Research activities were carried out both in Gabon and in the Democratic Republic of Congo during the year 2012. Nationwide surveys were carried out in two national parks and several unprotected sites in Gabon, as well as one protected and one future-protected area in DRC. These surveys facilitated the creation of distribution and habitat suitability models for the slender-snouted crocodile. Sampling efforts conducted as part of these surveys resulted in over 100 slender-snouted crocodile and nearly 50 dwarf crocodile samples. These samples form the basis for genetic analysis of population structure over multiple spatial and temporal scales for both the slender-snouted and dwarf crocodiles. Dr. Shirley's full dissertation was highlighted by the cover research article in the Proceedings of the Royal Society B (Dec. 2013), "*Rigorous approaches to species delimitation have significant implications for African crocodilian systematics and conservation,*" presenting cryptic crocodilian species, their history and ecology, and implications for regional species conservation.

Dr. Shirley continues as an RSCF Research Associate, currently based in Gabon and Cote d'Ivoire, developing conservation recovery strategies for the West African slender-snouted crocodile with Abidjan National Zoo and the Ivorian national parks service. A full project description, including comprehensive budget, objectives, timelines and partner responsibilities, is available from RSCF. The IUCN Save our Species program is a primary funder, with RSCF functioning as technical and administrative resource and zero-overhead fiduciary for Dr. Shirley's research, summarized below:

Project Title: *In- and Ex-Situ Conservation of *Mecistops* in the Upper Guinea Forest Region*

Executive Summary: This project aims to reverse the extinction trajectory of Africa's most Critically Endangered crocodilian (the West African slender-snouted crocodile *Mecistops cataphractus*) through captive breeding and reintroduction in the Upper Guinea forest region. The slender-snouted crocodile is a evolutionarily and ecologically unique crocodilian species endemic to the forested wetlands of the Upper Guinea and Congo biomes. Recent research has shown that the populations in these two regions have been isolated for > 7.5 million years and are readily distinguished morphologically and genetically. As a result, they are currently being split into two unique species. Crocodile surveys in West Africa over the past decade have detected < 50 individual *Mecistops*, of which only three were adults. Habitat loss and historic hunting have threatened this species and small, fragmented populations now impede recovery. To combat this, we are reviving captive breeding efforts for this species at the Abidjan National Zoo, evaluating reintroduction sites for ecological and socio-economic suitability, and reintroducing captive bred crocodiles for population reinforcement or revival in the case of local extinctions. By coordinating activities with national parks and protected areas development the project will be contributing to the burgeoning wildlife conservation efforts in Cote d'Ivoire. The long-term impacts will be further expanded through extensive capacity building with local stakeholders, national parks staff, students, community members and wildlife agents. This is the first ever project in Africa specifically designed to reinforce depleted and revive locally extinct

crocodile populations.

Research on Elephant, Rhinoceros and Lion Disease—Dr. Michele Miller: During 2013, an American Association of Zoo Veterinarians grant supported RSCF conservation veterinarian Dr. Michele Miller to conduct research on multiple health issues in black rhinoceros in South Africa. Funds were used to establish a regional laboratory in southern Africa that could perform the U.S. standardized rhino-specific ferritin assay to allow comparative studies. Serum ferritin and iron values were determined and demographic factors compared to establish reference ranges to study Iron Overload Disorder in black rhinoceros. Funds were distributed for project supplies (multichannel pipettes) and field support. Dr. Miller's research program was conducted in collaboration with South African National Parks (South Africa), Stellenbosch University (South Africa), Department of Agriculture, Forests, and Fisheries/DAFF (South Africa), and Colorado State University (USA).

Dr. Miller also is conducting research on the epidemiology of tuberculosis in the North American captive elephant population. Funds were used to develop, implement and conduct analyses using a web-based epidemiological survey of U.S.-based elephants to assess factors contributing to infection with tuberculosis. In addition, a questionnaire on diagnostic tests and treatments for TB in elephants was included to develop a database. Funds were distributed for project running costs and personnel support associated with work in the U.S.; Miller's research project was conducted in collaboration with University of Florida (USA), Colorado State University (USA) and University of Missouri (USA) co-investigators with endorsement by the American Zoo Veterinarians Association (AAZV), Association of Zoos and Aquariums (AZA) Elephant Taxon Advisory Group (TAG), and International Elephant Foundation (IEF) (all US-based organizations).

Finally, a Morris Animal Foundation Grant to Dr. Miller was administered by RSCF to support research on disease (primarily TB) in South African lions. Funds were used to evaluate commercially available rapid serological tests (Chembio STAT-PAK and DPP) as practical field screening tools to determine the status of lions infected with tuberculosis. Sample/data collection from multiple lion prides included skin tests, tracheal lavage for mycobacterial culture, and blood collection for serology and was conducted in Kruger National Park, South Africa. Grant funds supported travel/running costs associated with field work, conducted in collaboration with South African National Parks (South Africa), Stellenbosch University (South Africa), Department of Agriculture, Forests, and Fisheries (DAFF) (South Africa), and Colorado State University (USA).

III. Conservation Education Activities

In 2000, RSCF maintained relationships with domestic and international zoological institutions and agencies, and again overhauled its extensive, free-access web site (www.rarespecies.org). The site links to many conservation and environmental organizations, presents RSCF's mission and scope for all audiences, and discusses conservation initiatives in detail. The education section for children has been significantly expanded, and is now used by schoolteachers across the U.S. and internationally. The site is updated regularly, and provides access to in-house and published scientific papers and program documents. In addition, RSCF staff in 2013 presented lectures and seminars to scientific and lay audiences (e.g., Florida Audubon, local universities, nature centers, international conservation meetings and workshops), and RSCF's board members served as academic advisors for graduate-level university students. During 2013, RSCF continued its joint Public Service Announcement campaign with Dominica's Forestry and Wildlife Division, through which environmental education and conservation awareness is broadcast via radio and television both in English and Creole, as well as through print media, and sponsored the annual Caribbean Endemic Birds Festival (see above).

IV. Media Development

In the course of implementing its conservation programs, RSCF generates a large amount of data, video footage, photographs, and technical narrative. Integral to the research effort itself, these materials also provide the basis for information sharing with scientific and lay audiences. RSCF compiles media resources into comprehensive reference libraries of imperiled ecosystems and species, including images and event histories that document project timelines in their entirety. The more endangered the species, the more crucial the record. Project-site host governments are a further beneficiary of this media development initiative, many of them lacking the funds to document their own country's biological resources, and what is becoming of them.

RSCF partners draw upon raw material from RSCF's field research. Scientific media content is packaged for use by partners, and is seen in exhibits and educational materials suitable for diverse audiences (e.g., zoo visitors, students, professional educators, web site browsers, conservation organizations, governmental agencies). Findings are also shared with scientific colleagues through technical publications associated with *in situ* conservation initiatives, propagation and other activities. RSCF is also acutely aware of the need to expand media programs and adapt/translate materials for educators, students and researchers at field project sites. RSCF's programs and field material are featured regularly in popular print and film, in addition to scientific publications for professionals. For example, RSCF's instrumental role in creating the world's first new national park of the millennium was presented in *Wildlife Conservation*, *National Geographic*, and *Palm Beach Illustrated*. Similarly, RSCF's work has been highlighted on *CNN*, and *National Geographic Today*, and the Dominica Program was the feature story for *Jack Hanna's Animal Adventures* season premier entitled, "In Search of the Sisserou". RSCF regularly contributes feature articles and research papers to the American Federation of Aviculture's journal *Watchbird*, The World Parrot Trust's *Psittascene*, and the Loro Parque Fundacion's *Cyanopsitta*. The 2003-2004 bongo repatriation effort was featured on *CNN*, *BBC*, network television, the *New York Times*, multiple web news services (including *National Geographic* and *Time Magazine for Kids*), and over 30 newspapers across the U.S., Canada, Europe and Africa. During 2005, RSCF assisted the British Broadcasting Corporation while filming on Dominica, part of a multi-year, many-island documentary of the natural and geomorphological histories of the Caribbean; this series reached U.S. and European markets during 2010-2011. During 2006, RSCF participated in a novel, mini-documentary website campaign sponsored by Lincoln-Mercury and Amazon.com, entitled "My Dream". See www.mydream.tv and the submenu "Give Back" / "Conserve an Endangered Species" to view the film and profile about RSCF programs. RSCF trustee Mark Davis, DVM compiled, directed and produced a multi-cultural wildlife documentary film, "Horns of Hope," which debuted in 2012 and was shown at numerous public venues in 2013. The film highlights the poaching plight of black rhino in Zimbabwe and a diversity of conservation and recovery strategies for Africa's premier flagship mammal species, including rhinoceros and bongo antelope; in addition it inspires environmental awareness through cultural, spiritual and scientific messaging. RSCF staff also presented at several local educational venues (public libraries, Earth Day celebrations, Palm Beach Zoo support groups, Audubon Society meetings, zoological society meetings, university lectures) and participated in documentary filming for the PBS *Nature* series. RSCF staff, research associates and program partners published in technical peer-reviewed journals, popular magazines, local and regional newspapers, and in online forums. Please see RSCF's website for reprints and listings for the 2013 calendar year.

V. Facility Expansion

Thanks to a special grant from the Batchelor Foundation in Miami, in November 2007 RSCF formally expanded the Conservatory along its northwest boundary. The five-acre property includes a 2300 sq. ft. main structure, vehicle storage pole barn, and irrigation pond. As an expansion of the 20-acre Rare Species Conservatory, this addition enhances RSCF's wildlife conservation activities and facilities. During 2013, a number of construction and modification projects were completed, including:

- Re-design and completion of the breeding laboratory for the Florida Grasshopper Sparrow
- Expanded pygmy marmoset breeding enclosures and parrot fledgling enclosures
- Expanded workshop for construction projects, maintenance and equipment repair
- Expanded outreach and educational facilities for the students, interns, and the public
- Continuation of full-time, on-site veterinarian

Digital Imaging: Thanks to a special grant, RSCF purchased a fully portable, Sound Eklon 1109G Digital Radiography System, to be shared cooperatively among local wildlife non-profit centers. The system comprises a suitcase-based computer and control system coupled to a digital imaging plate that allows both clinical and field-based x-ray imaging of small and large animals. Under an agreement with the Rainforest Clinic, based in Loxahatchee, patients from all local wildlife non-profits can benefit from the latest in digital x-ray imaging at no cost. In addition, the clinic provides an annual stipend to RSCF in consideration for providing digital imaging services to regular clients. This technology provides limitless, film-free, fast, fine-detail, images that can be enhanced, saved and shared among researchers and veterinarians. Diagnostics are maximized while handling time is minimized, significantly reducing patient stress. During 2013, the digital radiography system was instrumental in guiding the full recovery of an orphaned bongo antelope calf, born with a broken distal metacarpal. The system has also been invaluable for diagnosing health issues in parrots.

As a 25-acre facility, the Rare Species Conservatory represents the organization's international headquarters for wildlife conservation, which focuses on global biodiversity preservation. RSCF's interdisciplinary programs integrate applied field and clinical research on endangered species, propagation and management of critical, flagship species for repatriation and reintroduction, developing husbandry protocols for critical taxa, and implementing protected-area policies and strategies for long-term ecosystem conservation. RSCF also collaborates with scientific and governing authorities for wildlife in conservation hotspot zones, primarily in the tropics and neo-tropics, to develop tangible conservation solutions for imperiled species and habitats.

The Conservatory in Loxahatchee serves as a captive-breeding center and research complex, as it also provides a hub for international exchange and outreach to students, interns, collegial scientists and the general public. Soon this role will expand as the Conservatory becomes the technical hub for FIU's Tropical Conservation Institute (see above). The expanded facilities significantly enhance RSCF's conservation mission both locally and internationally, and facilitate existing and future programs to protect and restore the world's highest priority wildlife and natural areas. Please see RSCF's website at [www.rscf.org](#) for a detailed discussion about specific projects, organizational structure, and conservation strategies.

APPENDIX A: Board of Directors

Paul R. Reillo, Ph.D., University of Maryland (Zoology). Field-oriented population biologist, ecological geneticist and environmental engineer. Rare Species Conservatory Foundation founder and president. Technical expertise in field ecology, demographic and genetic analysis of small populations and animal husbandry.

Richard D. Estes, Ph.D., Cornell University (Vertebrate Zoology). Behavioral zoologist and ecologist. Specialist in field studies of large African mammals. Species Survival Commission Chairman for Antelope Specialist Group of the World Conservation Union (IUCN); Earthwatch Scientific Advisor; Associate, Harvard Museum of Cultural and Natural History.

George Amato, Ph.D., Yale University (Biology). Director and Affiliated Professor, Sackler Institute of Comparative Genomics, American Museum of Natural History. Adjunct associate professor at Columbia and Fordham universities, research associate in the Ecology and Evolutionary Biology Department of Yale University. Conservation geneticist specializing in non-invasive sampling techniques for endangered species, and monitoring the trade in endangered species products using DNA-based forensic science.

Mark P. Davis, DVM, University of Georgia (Veterinary Medicine). Specializing in exotic large mammal/hoofstock medicine and husbandry. Raised in Congo, Africa, and dedicated to the conservation of large African mammals.

Christopher Langen, Esq. Attorney, parrot enthusiast and conservation devotee, having traveled to 26 countries to view parrots alone. Fluent in four languages, and provides both legal counsel to RSCF and international program perspective and expertise.

APPENDIX B: Year-end, 2013 Animal collection at RSCF, maintained under USDA, USFWS, and Florida FWC licenses

2 <i>Iguana iguana</i> (common green iguana)	
28 <i>Boocercus euryceros isaaci</i> (eastern bongo)	1 <i>Amazona imperialis</i> (Imperial parrot)
63 <i>Amazona rhodocorytha</i> (Red-browed Amazon parrot)	4 <i>Derophtus accipitrinus accipitrinus</i> (Guyana hawkheaded parrot)
2 <i>Amazona vinacea</i> (Vinaceous Amazon parrot)	2 <i>Pionites melanocephala</i> (Black-headed caique)
15 <i>Pionites leucogaster</i> (White-bellied caique parrot)	1 <i>Amazona brasiliensis</i> (Red-tailed Amazon parrot)
2 <i>Leontopithecus rosalia</i> (Golden Lion Tamarin)	
2 <i>Leontopithecus chrysomelas</i> (Golden-headed Lion Tamarin)	
42 <i>Cebuella pygmaea</i> (Pygmy marmoset)	
6 <i>Aratinga guarouba</i> (Golden conure)	

APPENDIX C: 2013 RSCF Physical Plant Inventory

- 25 landscaped acres, property and tangible-tax exempt (Palm Beach County, FL), fenced and cross-fenced (1.6 miles 8' fencing, mostly hi-tensile; .75 miles 4' fencing, hi-tensile)
- 10 interconnected hoofstock paddocks, with 8' gates, loading corrals, pole barns for feeding stations, troughs
- 1.5 acre mixed-species area, with 40 flights, including 13 walk-in, landscaped enclosures.
- 8 additional free-flight aviaries and stand-alone primate enclosures.
- 30'x12'x10' zoomesh primate enclosure
- 5 hurricane-proof bunkers (including, weaning, evacuation and workshop rooms)
- hurricane-proof small animal breeding laboratory (Florida Grasshopper Sparrow)
- aviary kitchen/ food prep room
- dishwashing building
- hay and grain storage buildings
- reverse-osmosis water purification system (separate building)
- Sound Eklin 1109G portable radiography system
- office/lab with nursery, veterinary clinic, surgery and quarantine (600 sq.ft.)
- personnel quarters, with separate intern/guest accommodation (1300 sq.ft.)
- meeting, staff-support and laboratory space (2000 sq. ft.), including rearing laboratory
- technical equipment (e.g., incubators, brooders, video, computers, tranquilizer equip., respirator, anesthesia)
- shop and tools (tractor, 2 all-terrain vehicles, bushhog, mower, trimmer, auger, sub-soiler, hand tools, welder, specialty fencing tools, plumbing, electrical supplies, rolling stock, 2 golf carts, etc.)