

SCRIPPS INSTITUTION OF OCEANOGRAPHY

Budget 1927-1928

ASSETS

Balance brought forward		
1926-1927 to 1927-1928	\$7,050.47	
Less liens incurred prior to		
June 30, 1927	<u>4,530.42</u>	
Net Balance available for		\$2,520.05
1927-1928		
Revenue from property and supply dept.		
(estimated)		7,500.00
State, regular appropriation		22,500.00
State, supplemental		7,500.00
Miss E.B. Scripps, annual donation from endowment		9,000.00
Miss E.B. Scripps, supplemental donation		7,500.00
Mr. R.P. Scripps		5,000.00
T.W. Vaughan		600.00
		<u>\$62,120.05</u>

SPECIAL FUNDS

Scripps Special Publication

Balance, July 1, 1927 \$1,382.67

Agassiz Boat Fund

Balance, July 1, 1927 \$ 735.00

Planting Fund

BUDGET

Salaries - Group A.

T.W. Vaughan	\$ 7,000.00	
F.B. Sumner	4,000.00	
G.F. McEwen	3,600.00	
W.E. Allen	3,000.00	
P.S. Barnhart	<u>2,500.00</u>	\$20,100.00

Salaries - Group B.

E.G. Moberg	\$ 2,400.00	
C.O. Esterly (on leave)		
J. Ross	2,400.00	
S.W. Chambers	1,800.00	
Tillie Center	1,800.00	
M. Ross	1,500.00	
Marion W. Moberg	1,200.00	
Maurine Leslie	1,200.00	
Horace Buley	1,200.00	
A.B. Keys	1,100.00	
Dorothy Curtis	1,200.00	
T.F. Riche	1,320.00	
A. Bornowski	1,680.00	
F.S. Fuller	1,500.00	
B. Romero	1,200.00	
Collectors and observers		
Anter Deraga	\$180.00	
Glen Dewar	180.00	
John Kunder	120.00	
C.B. Lekken	180.00	
H. Miller	60.00	
J. Neilsen	90.00	
H.W. Rhodes	120.00	
	<u>930.00</u>	22,430.00

Unspecified assistance

1,250.00
43,780.00

Expense and equipment

Laboratory, equipment for physics, chemistry, bacteriology, sediments	\$3,000.00	
<u>1/</u> Boat, operation and maintenance	2,000.00	
Summer, researches on fishes	700.00	
Travel and field expenses	1,200.00	
Library	1,266.92	
Automobiles, repairs and operation	600.00	
Telephone and telegrams	250.00	
Gas and electricity	1,200.00	
Water	1,000.00	
Office supplies	370.00	
Express	300.00	
Cottage supplies	600.00	
Unbudgeted	700.00	
Grounds, plants and fertilizer	600.00	
Paint	300.00	
Insurance - cottages	250.00	
<u>2/</u> Emergency and contingent	4,003.15	
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	\$18,340.05	

1/May have to be increased

2/Sections of book-stacks for library will be purchased
if other expenditures are not great.

Salaries and wages

Group A	\$20,100.00	
Group B	22,430.00	
Unspecified	1,250.00	\$43,780.00
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Expense and equipment		18,340.05
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		62,120.05

INTERRELATIONS BETWEEN THE SEA AND THE ATMOSPHERE AND THE EFFECT
OF THESE RELATIONS ON WEATHER AND CLIMATE.

I. Problems related to solar radiation.

- (1) Variation of solar radiation. C.G. Abbot.
- (2) Amount of solar radiation that reaches the surface of the earth on the land and on the sea, and methods by which it is measured. H.H. Kimball.
- (3) Amount of solar radiation that reaches lake surfaces, the proportion penetrating the surfaces, the loss of heat by evaporation and back radiation, and the relation of evaporation to meteorological conditions. N.W. Cummings, Bert Richardson, I.S. Bowen.
- (4) The rate at which solar radiation penetrates the surface of lakes and oceans, and the rate at which the surface loses heat as deduced from serial temperature observations. G.F. McEwen.
- (5) The penetration of solar radiation into lakes. E.A. Birge and Chancey Juday.
- (6) The penetration of light in the sea. E.O. Hulburt.

II. Problems related to surface water temperature.

- (7) Reliability of different methods of taking sea surface temperature. C.F. Brooks.
- (8) A thermograph designed for recording sea surface temperature. Harvey C. Hayes.
- (9) (a) Significance of temperature measurements not made exactly at the sea surface.
(b) Time required for temperature departures to cross from the western to the eastern side of the ocean, and the changes in their departures during the crossing. G.F. McEwen.
- (10) Relation of high and low pressure areas over the ocean to ocean surface temperature distribution. Sir Frederic Stupart, J. Patterson, T. Okada, J. Boerema.
- (11) Monsoon forecasts of the Indian Meteorological Service. R.H. Weightman.

III. Problems related to atmospheric circulation.

- (12) The General Circulation of the Atmosphere. C.G. Rossby.
- (13) The effect of surface winds upon ocean drift. G.W. Littlehales.
- (14) The Northern Hemisphere weather map and its relation to weather forecasting. C.F. Marvin.
- (15) The effect of ocean currents upon the climate of continents. A.J. Henry.

SCRIPPS INSTITUTION OF OCEANOGRAPHY

1928-1929.

Assets

Balance Brought forward from 1927-28		2,536.83
Revenue from property and supply dept. (estimated)		7,500.00
State, regular appropriation		22,500.00
State, supplemental		10,000.00
Miss E.B. Scripps, annual donation		9,000.00
Miss E.B. Scripps, supplemental donation		10,000.00
Mr. R.P. Scripps		5,000.00
Fund for grounds		
T.W. Vaughan	600.00	
Miss E.B. Scripps	450.00	
State	300.00	1,350.00
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	Total	\$ 67,886.83

Special Funds

Agassiz boat fund, Bal. July 1, 1928 12.57

Scripps Special Publication Fund, Bal. July 1, 1928 565.17

Meteorological Investigations

Balance July 1, 1928	5839.12	
Receipts	<u>250.00</u>	6,089.12

Clerical and library	
Tillie Center	1800.
, assistant	600.
- (\$600 to be paid out of Special Fund)	
Buildings and Grounds, Boat	
J. Ross, Superintendent and Captain of the boat "Scripps"	2600.
G. Baker, Gardener	1680.
R. S. Fuller, Janitor	1560.
T. F. Riche, General Assistant	1440.
M. Ross, Engineer	1500.
A. Winner, assistant gardener	1320.

Total salaries as given above \$ 48,335.00

Additional assistance (reserve) 775.00

Total \$ 49,130.00

EXPENSE AND EQUIPMENT

Laboratory, equipment, etc.	\$3,000.00	
Boat	2,200.00	
Summer, researches on fishes	700.00	
Travel and field expenses	600.00	
Library	1,200.00	1800.
Automobiles, repairs and operation	600.00	
Telephone and telegrams	250.00	
Gas and Electricity	1,200.00	
Water	1,000.00	
Office supplies	370.00	
Express	300.00	
Cottage supplies and maintenance	600.00	
Unbudgeted	700.00	
Grounds, plants and fertilizer, Scripps Inst. regular funds	600.00	
Grounds, Special fund ⁿ	750.00	
Paint	300.00	
Insurance - cottages	416.64	
Emergency and contingent	<u>3,370.19</u>	

18,756.83

Total salaries	\$48,355.00	
Additional services	<u>775.00</u>	49,130.00

Expense and equipment		18,756.83
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\$67,886.83

Special Fund for Meteorological Research
contributed by Power and Light Organizations.

Total fund		6250
N.W.Cummings, 2 mos. at \$225	450.	
A.T.Gorton, 1 year	3465.	
B.Richardson, 3 mos. at \$150	450.	
Clerk, salary for half year	600.	
Equipment and incidentals	<u>1285.</u>	6250.

SCRIPPS INSTITUTION OF OCEANOGRAPHY

1927-1928

ASSETS

Balance brought forward from 1927-27 (including amounts set aside for liens against 1926-27)		7050.47
Revenue from property and supply dept.		7837.62
State, regular appropriation		22500.00
State, supplemental		7500.00
Miss E.B. Scripps, annual donation		9000.00
Miss E.B. Scripps, supplemental		7500.00
Mr. R.P. Scripps		5000.00
Fund for grounds		
	T.W. Vaughan	600.00
	Miss E.B. Scripps	450.00
	State	300.00
		<u>1350.00</u>
		\$67,738.09
Dr. Frank for boat work to be carried forward to 1928-29		200.00
		<u>\$ 67,938.09</u>

EXPENDITURES

Staff salary

Group A

T. W. Vaughan	6999.96	
F. B. Sumner	3999.96	
G. F. McEwen	3600.00	
W. E. Allen	3000.00	
P. S. Barnhart	<u>2500.00</u>	20,099.88

Group B

E. G. Moberg	2400.00	
S. W. Chambers	1800.00	
Marion Moberg	1153.38	
H. Bailey	1096.67	
Dorothy Curtis	900.00	
Maurine Leslie	1200.00	
A. B. Keys	<u>1086.67</u>	9,686.72

J. M. Ross	2400.00	
T. Center	1800.00	
R. S. Fuller	1500.00	
A. Bornowski	1563.33	
E. F. Riche	1320.00	
M. Ross	1453.17	
Len Romero	<u>1026.67</u>	11,064.17

Glen Dewar	180.00	
J. Kunder	120.00	
O. B. Lokken	180.00	
H. Miller	60.00	
J. Neilsen	90.00	
H. W. Rhodes	120.00	
A. J. Ineson	<u>20.00</u>	<u>770.00</u>

41,570.77

Unspecified assistance - scientific and labor 2,522.50

Total for salaries \$44,093.27

EXPENDITURES

Expense and equipment:

Laboratory supplies and equipment	3241.05	
Boat, operation and maintenance	2029.68	
Summer, fish work and field expenses	849.64	
Travel	1204.19	
Library	1953.42	
Automobiles, operation and maintenance	1005.11	
Telephone	333.57	
Gas and Electricity	1815.08	
Water	754.15	
Office supplies	357.68	
Express	307.68	
Cottage/supplies and maintenance	545.48	
Unbudgeted	411.04	
Insurance on cottages	128.00	
Grounds, improvement and plants	790.96	
Paint	119.79	
Liens against 1926-27		
Shell and map cases and pipe	564.02	
Emergency and contingent	<u>886.95</u>	17,381.45
	Credit	<u>10.00</u>
		17,371.45

Amount transferred from Scripps	
Inst. funds to roads	3936.54
Salaries	44093.27
Expense and equipment	<u>17371.45</u>
Total disbursements	65401.26

Assets	67,938.09
Disbursements	<u>65,401.26</u>
Balance June 30, 1928	\$ 2,536.83

SPECIAL FUNDS

Roads

State balance July 1, 1927
Expended 1927-28

1802.24

1802.24

Agassiz boat fund

Balance July 1, 1927
Interest

735.00

55.18

790.18

Expended 1927-28

777.61

Balance June 30, 1928

12.57

Scripps Special Publication Fund

Balance July 1, 1927
Income from bulletins

1732.67

6.50

1738.17

Expended 1927-28

1173.00

Balance June 30, 1928

565.17

Meteorological Investigations

Income 1927-28

6000.00

Disbursements 1927-28

160.88

Balance June 30, 1928

5839.12