

53.21. 5 3, 33, 30 90. 3 6 30 53 33 36.66 30 3 26 39.54.30 238 45013 12/344 (28 365 46 60/296 (4.56 1562/ Ec 30 18/10 (g

Buck 76. 3 1880 USS. Fish Humb. Uf Fish Communion Heordquarte, e.i. R.L. All bearings mognetic in Foranglick 11.20

All bearings in this book mynetice.

Checken Lake Ludge -

Instrument used, 22
Current number of observation. 859
Date. Riph- 8
Locality. Attacker account
Bearings, Outty house Light - 11/2 m
7 miles
Time of day, //, 20 acc ; of tide.
State of sky. Ula 10 -
Temperature of air. 68
" surface of water, 66 (464 or 1)
" at depth of 5 fathous, 65
" of bottom. 63 (40007
Depth, in fathoms. 17/2
Nature of bottom, Aungl
Direction of surface current, 1 mol 2 m
Force of surface entreme, do 2
Direction of hostom current, With
Furce of Intime convent. 1/4 Mile
Name of vessel, Fish Lunk
To what service attached. W. S. 7 C
Name and rank of commanding officer,
Link 3 L Lamen
Name and position of observer,
Un Fil Van Which

water houl- nothing in the rate francis hauf a few freier of Laminaria hanging to the Rake also mine trigitals. Phaseolasma. Hereoto,

Cheater Rake Horolge -

TEMPERATURE RECORD.

Instrument used, 71 7
Current number of observation. 860
Date. Lefs 35
Locality. allaw tie Cheen.
Bearings, Getty with 1/2 m
miles.
Time of day, H. 5 3 am; of tide.
State of sky, Clean
Temperature of air. 70
surface of water, 56 (464)
" at depth of 5 fathous, 65
" of bottom. 64 (4277)
Depth, in fathoms, /7/2
Nature of bottom, much.
Direction of surface current from A W
Force of mertare ourself. No 2
Direction of bottom current, Light
Form of bottom correct. do /4
Name of vessel, Jack hourk
To what service attached. W. S. Hick Com
Name and rank of commanding officer,
Name and position of observer,

Do F.C. Van Blick -

860

REMARKS.

Rich in amelide + amphi-

Frank

Instrument used. R 3
Current number of observation. F6 /.
Date, defet 2 d
Locality. Thatter was.
Bearings, Suttype & ught N 1/4 m
3 1/4 : wites
Time of day. / 2 , 2 0 : of fide.
State of sky, Lland
Temperature of air. 69
" surface of water, 66 (46400)
" at depth of 5 futhous. 65 (10f-65)
" of bottom. 61. (45727)
Depth, in fathors, 17.
Nature of bottom, Aund_
Direction of surface warrent. much & m
Force of service current. Mrnd 2
Direction of bottom correction, Life
Force of hostern current, do 1/4 timber
Name of vessel. Fish Hands
To what service attached, If L
Name and rank of commanding officer,
Lt. 3. L. Larmen
Name and position of observer,
An & C. bun Which

REMARKS. Subsine Compacta Homans americanus arterias vulgario Empoqueus Benhandes Matiforiens outlaters. Cauten Breakis Renno Vine muculatus

pomer L

Instrument used, 70 3-
Current number of observation. FER
Dates Sept 30
Locality, Olivan the Channel
Bearings 2 1 -y . a
4 miles
Time of day, /2, 55 — ; of tide,
State of sky, Offer
Temperature of air, ξ ξ'
" surface of water, 66 (464-5)
at depth of 5 fathours, 65
" of bottom, GA , (4 cont)
Depth, in fathoms, 17
Nature of bottom, Jan L
Direction of sarine convent. 2, 5, L 2 W
Force of surface corresponds - 125 - 25
Portor of Surface controller 22 2
Francis battom comment. So is 15 150.
Nation of vessel.
To what service attached. To I for 2
Vame and rank of commanding officer,
243 2 Zanna
Name and position of abserver,
and the second second
11 42 1- 125 1

REMARKS. Plationi chas crettalus Embragarus Bin handus Curred berealis Hymanic dinerica mes taking Peaking Civilla Ang undenta artina brillan Subsides conferred

Instrument used. 71 3
Current number of observation. FE3
Date Light 3 - Vineyand Preside
Locality, Attanto
Bearings, active hunk Light Ir 1/8 6-
3/4 miles
Time of day, 1. 40 ; of tide, florid
State of sky, Clare
Temperature of air, 70
surface of water, 67 (42600)
" at depth of 10 lathoras \$\$ (5 fate is)
" of hostom, 65" (4000 7)
Depth, in fathems, 18
Nature of bottom, Mul
Direction of section transact, 12: 1-1 2 17
Force of statement, in
Direction of Lacous Comments, Seath &
Force of Statement. do 1/4 mile
Name of vosel. Fish Frank
To what service attached, Uf FC
Name and rank of commanding officer.
43 L Zumen
Name and position of observer.
Do FE wan Which

Lame a 2 860 Faldia dimatria may

Llredge -

Instrument used.
Current number of observation. 264
Date. January 3
Bearings May Ment Diglik - REW 18
Bearings May West Dig to - REW /4
5% miles
Time of day, 3 pm and title frame
State of sky. Alay
Temperature of air. 70
surface of water, 67 (-16300)
at depth of 3 fathous, 66
· harrish 65
Depth, in fathous, /3
Nature of Instinue. Sand
Direction of our consent. Two de Dr
Force of station current. als 2
This office of Commencer to
From of hoston correct. dis 1/4 722
Same of vessel. Bish Hand
To what service attached. W. A. F. C.
Name and rank of commanding officer,
It of L Landon
Name and position of observer,
Mr 40 mo thick

SGY REMARKS. hand

Instrument used, 72 3
Current number of observation,
Date. 21/21-4
Locality.
Bearings, Let 40. X.05 N.
Time of day, 5- 40 : of ride.
State of sky. Elson
Temperature of air. '//
surface of water, 73
at depth of \$\frac{1}{2}\$ fathous, 75
of horton, to be the first first
Depth, in fathers. 65
Name of Formers Local Local
Direction of section aurena, 924 rest 1887
Force of suffice entreed. In
Direction of horton correct. Merell- & Th &
Direction of horton current. Herell- & Th &
Name of vessel. 2. 1/2 Land
To what service attached, LD FC
Same and rank of commanding officer,
D. 9 5 - Care 21
Name and position of observer,
Dr Fo gan blick
the same

He design or you sound to the server of the

freecon.

Instrument used. 20 3
Current number of observation, 566
Date. Dickt 4
Locality.
Bearings for 40.0518 long - 70. 22.18 2
Time of day. 6 7 O Chan; of ride.
State of sky, elsa,
Temperature of air, 23.
" surface of water. > 3. 19660
" at depth of 3" Eithorns, 74.5"
" of bottom, 68.57(2) (45401
Depth, in fathous, 65
Nature of bottom, Sand theret -
Direction of surface much freed for
Force of surface current. do 1-0
Direction of bottom streat, 1/2 // 2 2 d
Form of bottom whent. It 1/2 with
Name of vessel. Buch land
To what service attached, If F. E.
Name and rank of commanding officer.
24 7 2 Lam -
Name and position of Asserver.
11 1/2

the streety

TEMPERATURE RECORD.

Instrument used,

Current number of observation,

Date. Silah 4

Locality, well asset

Bearings 121-413 65 42 4 521. 70.22,0 64

461013

Time of day, 7, 64 ; of fide.

State of sky. Char-

Temperature of air, 75

" surface of water, 73.

" at depth of 3 - fathers, 75

of bottom, とう。

Depth, in fathous. 64.

Nature of bottom. Sand bloomed

Dipartion of surner current level Colar.

Force of sands e current.

Historia Minister Comments of the 10 %

Karagas Indian cultural.

Name of vessel.

To what service attached.

Name and rank of commanding officer,

Name and position of observer,

1. T.T.

م المعالم
Instrument used. In accel
Current number of observation. 468
Date. Fift 4.
Locality, alledis
Bearings, Le 1- 40.01. 42 1. Long. 70.22 3.
Time of day, Fall 3 de, of tide.
State of sky, Elec-
Temperature of air. 7 5
" surface of water. 75°
" at depth of I fathous, To 45-1
of bottom, 47.
Depth, in fathoms. 162,
Nature of bottom for same & black of the
Direction of wine worth, are il
Force of antico entrolit,
Direction of Section correction clarify 1. 16
Parce of Landon current, and for the offence of
Name of vessel,
To what service attached.

Name and position of observer,

Name and rank of commanding officer,

Tomana way young the said

Constant of the second	
Instrument used, / here were	
Current number of observation, 865	
Date. Safet 4	
Locality. Collection	
Bearings, Last 4002, 14 2 Long 70.23.	. 3
, , , , , , , , , , , , , , , , , , , ,	
Time of day, 9, 2, 76 of tide.	
State of sky. Clear	
Temperature of air, 80	
" surface of water, 76, 4682	j-
" at depth of 3 - fathoms. 75. 12600	-
" of hottom, S. C (2)	
Deptir, in fathoms. 192	
Nature of bottom, Fire Second	
Direction of the court Ineff	
Francisco money to proper the	
Direction of bottom cores. Wind _ calare.	
Force of Lattern surrents.	
Name of vessel,	
To what service attached,	
Name and rank of communiting officer,	
Name and resident of absence	

Instrument used, / ?
Current number of observation, 3.70.
Date. Left 4.
Locality. allerte z
Bearings. Let 40.02.26 Fran 06,225 4
Time of day, 16,5 Dani of tide.
State of sky, Clean
Temperature of air, 50
" surface of water, 5 5
" at depth of 5" fathous, 55"
" of bottom, new also -
Depth, in fathons, / 5 5,
Nature of bottom, Annal & Love Stock
Direction of orthonorms. Here and
Finne of suchassement,
Direction of Later market maple with the
Borrows Latings cornelle. It is for
Name of vessel,
To what service attached,
Name and rank of commanding officer,

Name and position of observer,

Δ.
Instrument used, France -
Current number of observation, \$ 7 /1
Date. Sept H
Locality, attenuties
Bearings Lar 40,02,54 1 Ly 202 3. 40
p Newest des. 40.04-57. m?
Time of day, 11.40 lear of tide,
State of sky,
Temperature of air, 8 4
" surface of water, 76.5
at depth of \$ tathour. 25. 16-75
" of bottom, 45-
Depth, in fathoms. // 87
Nature of horrow, Arend of Land is and
Direction of suring confront, wind Calon
Form of much
Direction Sinter and Description 2. 2. 24
Force at letter current. Roll 1. 14 mile.
Same of vessel,
Fo what service attached.
tame and rank of commanding officer.

Name and position of observer,

JAY.

~
Instrument used. Frank
Current number of observation, 872
Date. Seps 47
Locality. attantic
Bearings of 5 40.05 35 h. Je , 20.23.52
Time of day, 12.45 ; of tide.
State of sky, Partially clear
Temperature of air, 8/
surface of water. 77,
at depth of 5 fathoms, 75
" of bottom, 50, 5
Depth, in fathoms, 86
Nature of bottom, Geard & Shells . Who
Direction of mile mont, Comment Strain
Force of anti-consecut.
Direction of Land & Ze Xh
Former Francis Sich 1/2 with,
Name of versel. First Harrie
To what service attached. U.S. F. C.
Name and rank of communiting officer. Level Z. Z. Jasses

Name and position of observer,

J. a. Smith

REMARKS,

much

Instrument used. 21 3
Current number of observation. 873
Date, Sept 13
Locality. allantic.
Bearings. Lat - 40.02 N
Long- 70 57 27
Time of day, 3, 36 and ; of tide.
State of sky, Clare
Temperature of air. 68
" surface of water. 69.5"
" at depth of S fathous, 70, 10/70
" of hottons, 57/
Depth. in fathoms. /00
Nature of bottom. mud.
Direction of strike coment. Thened 2 m
Force of surfaceourrent, Ala 3
Direction of bottom corners Left NWXN
Force of bottom course do 12 m.
Name of vessel,
To what service attached,
Name and rank of commanding officer,
Name and position of observer,

11. auchmodes asotifores. (Sorde mes) o merchioses bilinearis (yg)

Instrument used, 77
Current number of observation, 574

Date. Feld 13

Locality, Feld number

Bearings, Lake 40

For-g 70 57

77

Time of day, 6, 76 pm : of tide.

State of sky, Ulan

Temperature of sir, 70

Depth, in fathous, 83

Nature of bottom, Bud.

Direction of surface oursent, rank A TY

Force of surfacement. do 7

Direction of bottom varion, 1644 Nm

Force of bottom cont. No /2 Male

Name of vessel,

To what service attached.

Name and rank of commanding officer, .

Name and position of observer,

1. Anarhiolas Repus (49.)
1. Pseuderhom tus offorges
Auchmotes aretificas/Sook ms)
4. Raia ep. 16)
7. " 59.38.

Arrivis 🔃

Instrument used. 72 3
Corrent number of observation, 8 73
Date, Mipt 3
Locality,
Bearings. Lat :- \$ 39.67
Forgs - 41. 57. 30 1.
Time of day, 7, 57 and ; of tide.
State of sky, Clean
Temperature of air, 70
surface of water, 70
" at depth of 5" fathours, \$1. (10.70) 20 = 33
of bottom, §3
Depth, in fathom-, 126
Nature of bottom, Trank.
Direction of authoromount, mand AN
Forces of surfacementation, A5 2
Direction of housen morent, Acres 5 75
Force of bottom corpust, do 1/2 mile
Name of vessel,
So what pervice attached.
fame and rank of companding officer,
fatue and position of abserver,

" Auchenobes arctifiores 1. new genes flowder. 1. merticin, bilinouse (49.) 1. Setacti, marines (49.) France

Instrument used, 2
Current number of observation. § 78
Date, 12/1/13
Locality, Allines Le
Bearings, Lat 39.57 - 1
Long - 70, 56 m
Time of day, 8, 45 and 1 of tide.
State of sky. Clean
Temperature of sir, 63
surface of water. 70
" at depth of 3" fatholis, 7/, 15-70, 20-84 25=
" of bottom, 5 3
Depth, in fathors. 120
Nature of bottom, 27
Direction of surface surrent, 20 miles A m
Force of surface entross. 660 2
Direction of Button comment. Whenthe I
Force of bottom wereast to 34 m.
fatue of vessel,
o what service attached.
came and rank of commanding officer,
-112 + 12 m
fame and position of observer.

Lophius piscatorius

Thomoterie serilisanda (Svodemis)

Leptocephalus reproglosares 1999

Quelemoles aretifores

Lewymes founds

Mexturius belinearis (1991

Lebastis sp. nov.

Frank !

Instrument used, //	
Current number of observation. 877	
Date, Supt 13	
Locality, Stant	
Bearings La 37.5-6	
very 70.54.18 m	
Time of day, 9, 40 and : of tide.	
State of sky, Clay	
Temperature of air, 71	
surface of water. 7/	J
at depth of 5 fathour 18. 10-18. 20 - 65	٠
" of hortons, 57°	
Depth, in fatherns, 126	
Nature of bottom, much	
Direction of surface ellerent. grad . 4 W	
Force of surface entront. in the 2	
Direction of bottom current. May W	
Direction of surface current. And 2 Direction of bottom current. Alas 3/4 M Force of bottom current. Legs 3/4 M	
Same of vessel,	
o what service attached,	
fame and rank of commanding officer,	
lame and position of observer.	

d. Chres Cumbrius

J. Monstine desilicanda (Lorde mes)

merhicus felinearis (yg.)

auchrodes arctifored (Forde mes.)

1. Pristhers miniatum (yg.)

Salminoid ep. nov.

near (y. north tralve booth from
Sarah Fri. Sophalatibes chaem.

Instrument used.
Current number of observation.
Date, Life / 12
Locality,
Bearings. 2 4 5-5
1-1-9- 70.64.15 78
Time of dat 11 am - ; of tide,
State of sky,
Temperature of air, 72
" surface of water, 7/
at depth of 5 Inthones. 75 10-75 20-37
" of hornor, 52", " (6.1 75)
Depth, in fathoms, 142/2
Nature of Isotrom, Therefore
Direction of supposed to the Large
Form of surface surrown, olg 2
Direction of hattam guerrant have been good for
Potre of batterment
Name of vessel. # AL
For what service attached.
Same and rank of commanding officer,
1/2 2 Lance
Same and position of observer,

1. Lophius picatories
meslecius bilinearis ygrad.
ripe a pawn.
1. Plugeis temis (?)
14. Physics Chesteri ygrad.
3. Muhim guttowa oc.
6. Auchine guttowa oc.
6. Auchine du towa oc.
6. Alcherobe a rotipous (book me.
1. Flyptocephalus ciproglossus. (yg.)
2. Albaelt, marines (yg.)
6. Salmanoriol sh nov.

J. Ames Cimbones.

Truck

TEMPERATURE RECORD.

Instrument used,
Current number of observation,
Date, Legal 12
Locality,
Bearings. Sail - 38 yally 3
Time of day, 120 11 12 12 of tide,
Time of day, frage / Pro : of tide,
State of sky, Un dy
Temperature of air, 72
" surface of water, 7/, 2
of hoston : 424 C-58 10-78 20-70
Depth, in fathous. 225
Nature of bottom, " Server of their work
Direction of surface comment; 1, L . R m
Force of Furface oursell
Direction of bostom current, In 14 Ny W
Direction of bottom current, 12 ff N+W Force of hottom current, 15 ff N+W
Name of vessel,
To what service attached,
Name and rank of commanding officer,

Name and position of observer,

Plujeis Chesteri y g. rad.

1. Macrinis Carminatus (Sorde mas)

M. "Revision (2) ad ryg.

Legro des Vinillii.

Elisptociphalus reproglos sus.

1. Statientichthip a culeatus

merlucus biliniaris

Rosia roj g.

Trum (

Instrument used,
Current number of observation,
Date, Wish 13
Bearings, 20 A - 39. 48.30
Bearings, Joh - 39. 48.30
hary-71. 54 m
Time of day, 3.12,5 % ; of tide,
State of sky, Wardy -
Temperature of air, 74
surface of water, 77.4
" at depth of 5 fatherns, 74 10 72
of bottom, 43 C- 68 71 St. Depth, in fathome, 252 1/2.
Depth, in fathome, 252 1/2 .
Nature of bottom, Wille.
Direction of surface extremt, 1712 Il AW
Force of sundice surpost. Alo, 3
Direction of bottom comments, Asset my M
Force of bottom surrent, 10 3/ 20
Same of vessel, the L
'o what service attached.
lame and rank of commanding officer,
they be well and
Tune and position of observer.

Physics Chekteri (spawn)
Phaomines Baistii (?)
Lipertes Vinillii.
Lipanis vanula (49.)
4. Rejnaphobrandus pinnestu.
Salmonoid.

hunichthys salpaeaus
Cottoid up nov.
Raia sp. (3):
Raia sp. (3):

Instrument used,
Current number of observation, 5 5 /
Date, Style 13
Locality,
Bearings, Fat 39-46-30 1
10-58-5 m
Time of day, I for Ore ; of title,
State of sky, History
Temperature of air, "TD
surface of water, 7/
at depth of 5 fathous, 77, 5 - 71.5
of bottom, 42) 2.69 71
Liepath, in fatheans. 3 25
Nature of whom, I'm Levellow
Direction of Summer Direct, 2000 2 27
Force of surfaceurent, do 3
Direction of bottom correct, the fit with my
Force of bossess current to 1/2 me
Name of vessel, Fish flowly
To what service attached, U.J. J. C
Name and rank of commanding officer, /
My - Sunta.
Nume and racition of algueras

Physis Chrateri.

1. Macrum Bainri. (2)

6. Sev fallus ep nor.

4 Glifftocephalus cynoploseus. yg

6. Signaphobranchus pinnatus

Raia eg g.

Tourl

Instrument used, 213	
Current number of observation. 882	
Date. Nept 17/50	
Bearings, Here was reck. NYE/2 E.	
Bearings, Harly nay 12ck. N. YE/2 E.	
2% miles	
Time of day, 10.56 ; of title.	
State of sky, EULL	
Temperature of air, 6 Y	
surface of water, 65 (621/12)	
at depth of * fathous,	
" of bottom, 67)
Depth, in fathoms, 12/2	
Nature of bottom, Must	
Direction of minima direction, month S'W	
Force of suchan control do, 2	
Direction of latter works that A W	
A CONTRACTOR OF THE PROPERTY OF	
Name of vessel,	
In what service attached.	-
Name and rank of commanding officer.	
property of the second	
Name and position of observer,	
part	

Syngnathus fuscus.

Forhopetta maculata

Paludorhombusoblorgus (yarad.)

Prendoplusometti amerizalnes

Limanal fuscusivea.

Sitrodon turgiolus

Stenotomus argusops

Priorottus carolinus

Poronotus triacanthus

Ceproteion regalis

Plais minaela

"Espanteria

Physis tennis pyg.)

France

Instrument used, Ry
Current number of observation, 783
Date. Left 17
Locality, narroy ansett Buy
Bearings, Flore has been be ME ay
21/4 Wiles
Time of day, //.35 ; of tide,
State of sky, Clux
Temperature of air, 70
" surface of water, 63
at depth of fathons.
of bottom. 63/2
Depth, in fathoms, /3
Nature of bottom, Brand
Direction of suprace current, who 2
Direction of house contents. Such & W
force of bottles and 7/2 76
Same of vessel. Fish Here R
To what service attached, WIFC
Same and rank of commanding officer,
Ly L Luna
Sarra and recition of observer

Paristus organis. (ygrad)
Providus organis. (ygrad)
Providus triacautius (ygrad)
Physis tunis (yg)
Poronotus triacautius (ygrad)
Stendomus organopo. "
Caproccion rigalis.
Prionotus carolinus. (ygrad)
Raia larris.
" miracea.

Juster Rake Drive

Instrument used. N
Current number of observation. 884
Date. As feb 17
Locality, 7
Bearings / ge Poland NE/2E
200 Ade
Time of day 2 . /) ;
State of sky, Elect
Temperature of air, 72
surface of water. 65
or depaired factories.
" of bottom. 63.5
Depth, in fathoms, 4
Nature of bottom, Much
Direction of sorter comment, Trind 12 m
Force of surface current do 3
Direction of bottom correct Marks S W
Force of bottom corrent, all 1/4 3
Name of vessel, Fish Hank
To what service assuched, USFC
Name and rank of communiting officer,
Name and position of observer,

TEMPERATURE RECORD.

Instrument used. N 3
Current number of observation. 833
Date, Sept 17
Locality, narray arrest for
Bearings, Jours Island how 3/46
3/5 4. Mils
Time of day, 3, /5
State of sky, Clear
Temperature of air, //
" surface of water. 6 5
" at depth of & Indiana, & !!
" of bottom. 65
Depth, in fathoms, / j.
Nature of bottom, Freeze W.
Direction of sarios correct, Mind D W
Force of sarfage energy. alv 2
Direction of buttom correct.
Force of buttom corrent,
Name of vessel, Le viv
To what service attached, W. F. C.
Name and rank of commanding officer,
Hy L Lamen
Name and position of observer,

A Comer - Lyter Tour ports

Paendopleuroneetis americanus Lophopettei maculata Poronotus viacanthus Priviotus Carolinus Stut Suntomus argyrops. Roia larvis innaciae Eggs ayving. Moreon

TEMPERATURE RECORD.

Instrument used, 2 3
Current number of observation, 886
Date Rept 21
Locality, alteretie
Bearings, Str. Leveller Jeli N 1/2 72
5 3/4 Byles.
Time of day, 12.49 ; of tide,
State of sky, Olan
Temperature of sir, 67
· surface of water, 64
" at depth of 5 fathous 62.
" of bottom, 62
Depth, in fathoms, 19
Sature of bottom, Shella -
Direction of Harter correct, much nech
Force of surface corrects, do 2 -
Direction of bottom current, Wirth ## N Plant to bottom current, do to 14
refer of bottom correct.
varue of vessel. Fish Hank
'o what service attached, 2. A. X. C.
fatne and rank of commanding officer,
the J. L. Zamer
L'

Name and position of observer,

munt

Instrument used, 22
Current number of observation, 857
Date, Sept 21 Locality, alientic
Locality, Olivertie
Brarings, Sef- Let 2006 Hord Who
5-3 miles (?)
Time of day, 1.30 : of tide,
State of sky, Olar
Temperature of air, 67
" surface of water. 6 4
at depth of 3 fathous, 62
of bottom, 6 2
Depth, in fathous, / 9
Nature of bottom, sheer
Direction of souther correct, Inch
Force of surface entract, do 2
Direction of hotton current. Duth W Engl
From of buttom corners. do 34 h
Name of vessel, Fish Harrik
To what service attached, W. A. F. C.
Name and rank of commanding officer,
Sk. J. L. Zamen
Name and position of observer,

Tracel

Instrument used, R 3
Current number of observation, 888.
4
Date, Alph 721
Locality, Altantic.
Bearings, Just 1 ag & Place to the: N XE
6 males
Time of day, 2 p 2w ; of title.
State of sky, Oline
Temperature of air, 68
surface of water, 69
at depth of 4 fathoms, 52
" of bottom, & 2_
Depth, in fathoms, /9
Nature of bottom, Atella -
Direction of surface current, Zzz. L TV
Force of surface courses, So 3
Direction of bottom moren, Dright W
Force of hottom correct, de 11/2 22
Name of vessel, Link Harvite
To what service attached, W. A. H. C.
Name and rank of communiting officer,
L. g. L. Zumer
Name and position of observer.

directe TEMPERATURE RECORD.

na
Instrument used,
Current number of observation, 879
Date, Rept 21 Locality, attacte
Locality, alterette
Bearings, some St. St. W. M. M. M. J.
5 miles
Time of day, 3.50 ; of tide,
State of sky, Olive
Temperature of air, 6 8
" surface of water, 6 4
" at depth of 5 fathous, 62
" of bottom, 61.5
Depth, in fathoms, //
Nature of bottom, Prilip
Direction of surface come in Brand
Force of surface current, do 3
Direction of bottom correct, Lingh W. W. TV
Force of hottom comput, do 2 11
Name of vessel, Fish Hank
To what service attached, W. L. H.C.
Name and rank of commanding officer. L. J. L. Zarranese
Name and position of observer,

ders date

Instrument used, $\mathcal{U}_{\frac{3}{2}}$
Instrument used. Current number of observation.
Date. Stept 21
Locality.
Bearings, State with Black princerty 5
43/4 mides
Time of day, 4.15 m : of tide.
State of sky. Clear
Temperature of air. 68
" surface of water, 54
" at depth of 3" fathoms, & 2
" of bottom, 6/, 5
Depth, in fathoms, //
Nature of bottom, Roz lag
Direction of surface courses 1, 2 ml
Force of surface correct. do 3
Direction of bottom carrent. Drift 725 72 Alei L Form of lattom second, do 12 M
Form of lattern seconds, als /2 m
Name of vessel, Fish Hank
To what service attached, w & XC
Name and rank of commanding officer,
The j. L. Lancon
Name and position of observer,

Instrument used, A
Current number of observation. 89/
Date, Uch 2
Locality, Allander
Bearings, 27 461 7/10
Time of day, 6 cers ; of tide,
State of sky, Claus
Temperature of air, 60
surface of water, 67
" at depth of fathous,
" of bottom,
Depth, in fathoms. Some of the day to a desire
Nature of bottom,
Direction of mail somet, 77 11 L N 2 &
Force of stafface varietis, slo
Direction of Lottome was
Parce of homeon corrections of 12
Name of vessel, Fish Hank
To what service attached, & & / C_
Name and rank of commanding officer,
Leg L Lanne
Name and position of observer,
o to to
the You & list

HEIMMINS.

Mount_

Instrument used, & 1
Current number of observation. 592
Date. Oct 2
Locality.
Bearings.
con 1
Time of day, & 46 : of tide.
State of sky. Classes
Temperature of air. 64
" surface of water, 65
" at depth of fathoms.
of hottom, be the hot have been
Depth, in fathems.
Nature of bottom, much transle with
Direction of mile contracts Prince No
Fares of surface entrols, to
Direction of better week. On the
From the formatter of the La Franchis
Name of versely there Hank
To what service attached, 20 1. 7. C.
Name and rank of commanding officer,
Hg L. Zamer
Name and position of observer,

Instrument used.

Current number of observation,

Oct 2 _ _

LOCALITY,
Bearings, Foll 39, 52, 20 W
Time of day, 11.23 ; of tide.
State of sky,i(
Temperature of air,
" surface of water,
" at depth of fathoms,
" of bottom, 40
Depth, in fathons, 372.
Nature of bottom,
Direction of surface servers. The servers
Force of surface content, do
Direction of bottom current, D
Fine of batters answer.
Name of vessel. Hick Hank
To what service attached, W. L. F. C.
Name and rank of commanding officer,
24 2 2 Lance
Name and position of observer,
13. 1 1 1 1 1 1 1 tom
46.46.30.33.52.55_

YACTIC C

Instrument used.
Correct number of observation,
Date.
Locality,
Bearings. N. 19, 53 N
12 July - 76.2530 W
Time of day, 1. (6) ; of tide,
State of sky, Ollecce
Temperature of air, (3
surface of water. 64
at depth of fathous.
" of bottom, 40
Depth, in fatherns, 3 65
Nature of bottom,
Direction of surface surrent, 72 and N
Force of saction out of
Direction of bottom carrent. Onthe
here of bottom energit. Ile
Name of vessel, Fish Hank
To what service attached, 72, 4, 7,
Name and rank of commanding officer.
the 3. L. Lames
Name and position of observer.
fly . r. r.

· ·
Instrument used.
Current number of observation,
Date. Children 2
Locality. Of the transfer of
Bearings. 214-34 54 30 /
p. M. S. 14. 5 74. 5 9. 43 - 70
Time of day, 3. / > : of tide.
State of sky, Clare
Temperature of air, 6 2
surface of water. (. 5
at depth of fathoms,
" of bottom, 47
Depth, in fathoms, 2 3
Nature of bottom, 1711
Direction of surface current, Zn - 177
Force of surface current, do
Direction of bottom oursel. Deff.
Form of bottom correct, do 1/2
Name of vessel, Fish Hand
To what service attached. W. A. H. C.
Name and rank of commanding officer,
It. J. L. Lannen
Name and position of observer,

France

Instrument used, 71 3
Current number of observation, 576
Date 11/2 15/50
Locality, Il Cartie
Bearings, Lut 3726 /1.
14 15.00, Zu
Time of day, 120 aser, of ride.
State of sky.
Temperature of air, 5-20
" surface of water, 6Z (16491)
at depth of fathous,
" of bottom. F2 55 (46 463)
Depth, in fathoms, 5-6
Nature of bottom, Land I About -
Direction of purface charges, world Ny
Force of surface ourself. class 2
Direction of bollow-entreed.
Force of bottom current, als 1/2 712
Name of vessel, Frish Hunds
To what service attached, 24 2 7
Name and rank of commanding officer,
4 3 L Zamen
Name and position of observer,
11 40 11 4
Le Vin : 21-

Towns C-

Instrument used. 71 7
Current number of observation. 597
Date, 15,120 15 / 50
Locality, Alteretic
Bearings, Lan. 37. 25,000 1
rung - 74.18 W
Time of day, 19, 18 Drew ; of tide,
State of sky, L. C.
Temperature of air, 62
surface of water, 62 (46435)
at depth of fathous,
" of bottom, 48 (46423.
Depth, in fathoms, 157/2
Nature of bottom, Thurst of Areal
Direction of surface current, In 1
Force of surface current.
Direction of inston correct.
Force of bosonic correct. do 122
Name of vessel, Him House
To what service attached,
Name and rank of communiting officer,
Name and position of observer,
Her Yan Which

France

Instrument used,
Current number of observation, 5-9 8
Date, /5 / 50
Locality, Miller Tre
Bearings, Joh - 37, 24 4.
Time of day, 11, 25 and of ride.
State of sky, _i. C_
Temperature of air, 60
" surface of water. 62 (46 905)
" at depth of fathous.
of lossesses.
Depth, in fathous.
Nature of hottom,
Direction of samuer current. It. I 2 11
Force of surface entrent, As 2
Direction of bottom corrent. Light w
Force of Lottons courseut, 24 / 22
Name of vessel.
To what service attached, W.S. F.
Name and rank of commanding officer,
Name and position of observer,
Her Van Veret

DEBATURE DECORD

Instrument used,
Carrent number of observation. \$999
Date. 11552 16 7 30
Locality. It to the to
Bearings, Jak 37.22 2
Charles of the state of the sta
Time of day, 1 of face; of tide,
State of sky,
Temperature of air, 3-4
surface of water, 6/
" at depth of fatherns,
" of bottom, 574
Depth, in fathoms, 5 7 / 1_
Nature of bottom, Land
Direction of surface contact
Force of southerneuments.
Direction of instrum current.
Force of bottom our met. It 1/2 72
Name of vessel, Righ Hours
To what service attached, WS Z
Same and mark of manuscriping afficer.
Name and position of observer,

Have

C1 7
Instrument used.
Current number of observation. (107)
Date. 1507 16
Locality. A Carrey The
Bearings, Last 37 17 1.
Aug 14.41 200
Time of day, 4 pm ; of tide.
State of sky, Olecu
Temperature of air, 33
" surface of water, 57
at depth of fathous,
" of bottom, 5 %
Depth, in fathoms, 3/
Nature of bottom, Land
Direction of surface current, Proceed of W
Force of surface turrent. A 2
Direction of hottom current, All W
Force of bottom current, Ab /2
Name of vessel.
To what service attached, M. J. A.
Name and rank of commanding officer.
It 13 to Lumin
Name and position of observer,
July Yun Villat

Instrument used, 72 2
Current number of observation, 901
Date. 71102 16/80
Locality, defentie
Bearings, Lat 37-60 Th.
Lung 25.0 - 7-
Time of day, 7, 15- h ; of tide,
State of sky, Bright Trouslight
Temperature of air, 33
" surface of water () 0
" at depth of fathous,
of bottom,
Depth, in fathoms, / &
Nature of bottom, Aurd
Direction of surface current, mile Rm
Force of surface current, du 9
Direction of bottom-current, Duil
Force of bottom current;
Name of vessel, Fish Hank
To what service attached, WS 7 C
Name and rank of commanding officer,
It y L. Lannen
Name and position of observer,

Her Van Vliet

Instrument used, My
Current number of observation. 902
Date. Lleen 9 1880
Locality, Polomoco Ricen
Bearings, PA Lookand & E x & 3, 4 m
Time of day, 9. 53 lm; of tide,
State of sky, Ollen
Temperature of air, 3 0
" surface of water, 45 50 46405
" at depth of fathoms,
" of bottom. 46407
Depth, in fathoms,
Nature of bottom, Ofthe hank -
Direction of surface current Wille
Force of surface current,
Direction of bottom-corrent, Duff nm
Force of bottom energent, Is 5 Minutes
Name of vessel, Fish Hawk
To what service attached, WS 7
To what service attached, WS for Same and rank of commanding officer,