ORIGINAL LOG BOOK OF THE "FISH HAWK"

ORIGINAL LOG BOOK OF THE "FISH HAWK"

UNITED STATES FISH COMMISSION

STATION NUMBERS

Numbers 1196 to 1235





Specemens Obtained Squiel Hornders crabs King Corah

Instrument used, Beam Frank (11 feet)
Current number of observation, 1197
Date, Aug gite 1887
Locality, Off Falomouth
Bearings, Arbska bon S. H. Ly 7- 14 9.
Chop light SE 145.
Time of day, 10.00 auc; of tide, Flore
State of sky, 2-c
Temperature of air, 72°
surface of water, 72
" at depth of fathoms,
" of bottom, 71,5
Depth, in fathoms, 34 1/2
Nature of bottom, Shell sand
Direction of surface current, SSH
Force of surface convent,  Direction of bottom current,  Ext # 46
Direction of bottom current; Ent 16
Force of bottom current,
Name of vessel, H & & Fish Hawk
To what service attached, 26 8 7 6
Name and rank of commanding officer, James of Smile
Chale 26 SA
Name and position of observer,
In Conghition
7 - 02

1198 REMARKS. Specimens daken. Spiller Crabs Sea Robbins Squist Hermit Conte Scup Lea Urchin Star Jish Clairs

Instrument used, Beam Trawl, 111 Jul
Current number of observation, 1198
Date, Off Jalane to auf 9 1887
Locality, Off Falmonth
Bearings, Arbelea Light 4/2 & 2"
almonto AELE 1'
Time of day, //. OJan; of tide, Hove
State of sky, 2—e
Temperature of air, 70
surface of water, 72°
" at depth of fathoms,
of bottom, 7/15
Depth, in fathoms, 44 3/4
Nature of bottom, Shell gras Sand
Direction of surface current, S3 W
Force of surface current, 2
Direction of bottom current & ast 1/4
Force of bottom current,
Name of vessel, 26 & & Fish Haroles
To what service attached, 26 8 7 6
Name and rank of commanding officer, Jane A Amile
Grate 26 St
Name and position of observer,
- Im lenightin
mate 268 hl

1199 REMARKS. Sea Robbins Scotlop araba Sea Unchin Squid Seu Bass

Instrument used, Mean Land 111 feet ?
Current number of observation, 1199
Date, auf 9 to
Locality, Off Falmonto
Bearings, Arbaka Light SHXXX 1/2
Bearings, Attaka Light SHXX/2 W 1/2
Time of day, //, 280m; of tide, Florid
State of sky,
Temperature of air, 70
" surface of water, 72
" at depth of fathoms,
" of bottom, 71, 5
Depth, in fathoms,
Nature of bottom, Shall sand gravel grass
Direction of surface current SSW
Force of surface current, 2
Direction of bottom current, & & & & 1/4
Force of bottom current,
Name of vessel, 26 & & Fish Hawke
To what service attached, 26 & F 6
Name and rank of commanding officer, James & Smitte
male 26 St
Name and position of observer,  Amlenighton  mate uf uf
mate uf 2

12-00 REMARKS. Specimens Oblained Sea Robbins Spider Crabo Hormel Grabo Seoffops Star Jish Sea revolue

Instrument used, Beam Irand (11 feet
Current number of observation, /2 00
Date, Aria 9 th 1887
Locality, Of Falmonte
Bearings, Artaka light W X & 2'
almost or 8 x 6/2 Chop light & EX
Time of day, 11. 44 ; of tide,
State of sky, 2-C-
Temperature of air, 70
" surface of water, 7/
" at depth of fathoms,
" of bottom, 72
Depth, in fathoms, J. /4
Nature of bottom, Sand Shell much
Direction of surface current, 85 W
Farre at surface courses. 2
Direction of bottom subseq. S X & /2
Force of bottom current,
Name of vessel. It SS Fiele Hante
To what service attached, 26 & 7 6
Name and rank of commanding officer, farmer of country
mati No & de
Name and position of observer,
Mehmodelan

REMARKS.

Specimens Oblains

Frich Florenders Dea Robbins

Lautog leurmens

Instrument used Beam Land (11) feet
Current number of observation, /2 0 /
Date, Aug 9 th 1887
Locality, Off Falmonto
Bearings, Asteka light SWXW/2V1/4
letop light SE X8 9 4 8. 2. 1. 1. 1. 1.
Time of day, 12 20; of tide, Flord
State of sky,
Temperature of air, 7/
" surface of water, 7/
·· at depth of fathoms,
" of bottom, 142
Depth, in fathoms, 2/1_
Nature of bottom, Land good
Direction of surface current, SSM
Force of surface current,
Direction of Instantant authority No. 5 24
Force of bottom current,
Name of vessel, Ob / Frale Harris
Fo what service attached,
Name and rank of communiting officer, have at the
mate 26 & N
Name and position of observer,
Adula Late

1202 REMARKS. Spelemen Oblamed Hounders Crabe Leobelens Lea Robbins Skales Eggs agniel Star fish

Instrument used Bearing Lose (11 feet)
Current number of observation, 120 2
Date, And get 1887
Locality. menersha Bythe
Bearings. En 12 6 1 1/4 8 4
In Linde to to by H/4 H. Landanding To. To. 6/4
Time of day, 350 Man; of tide, all
State of sky, 2-E
Temperature of air, 69
" surface of water, 67
" at depth of fathoms,
of bottom, 6
Depth, in fathoms,
Nature of bettom, Sand (Land)
Direction of surface current, & &
Force of surface current,
Direction Charles CAN 3/4 70 /27
Force of bottom current,
Name of vessel, Es & Fish Hartel
To what service attached, by & Fish Lo
Name and rank of commanding officer,
mate 26 1 to
Name and position of observer,

REMARKS.

Description Oblained

Linear Skate Egyof Said

Housen Plan June Sea Period

Instrument used Bear Ingut Cliftet
Current number of observation, 1200
Date, Ang 9 1887
Locality, Menensha Right
Bearings, Courter Such Hold To by Will my Head Hily
arkendin Com Lot n n 6. 3/8 6.
Time of day, 410 7 ; of tide, Est
State of sky, 2-E
Temperature of air, 70
surface of water, 69
at depth of fathoms,
" of bottom, 67
Depth, in fathoms,
Nature of bottom, Agrica Same
Direction of Section 1
Force of surface ourrent, 3
Direction of hostom corners A 4 3/4 Will mile
Force of bottom current,
Name of vessel, It & Str Frahotherwhe
To what service attached, 26 & 7 6
Name and rank of communcting officer.
Name and position of observer,

1204 REMARKS.

Akelis lobeters squiet Houseline Clame + Shells

n 4 , (117 -1
Instrument used Blam Frank (1) feet)
Current number of observation, /2 0 4
Date. Aug 9 1887
Locality. Menerchen Birt
Bearings Lay Head WS W Larpaulin Con 10 8 VA)
enter Quide 1 rde 1-XN /42K3/
Time of day, 24, 25 Rea ; of tide, Elle
State of sky, 2-c
Temperature of air, 70
surface of water, 69
" at depth of fathoms,
of bottom, 68
Depth, in fathoms, 9
Nature of Landing, Asset Rand
Direction of Surface current, & &
Force of surface property, 3
Direction of Section of the state 3/4 W /2
Force of bottom current,
Name of vessel, & & & Fish Hawk
To what service attached,
Name and rank of commanding officer, letter of the many of the second
Name and position of observer.
Dalenghen
muste 20 S.h.

REMARKS.

Specimens Obtained Solo

Instrument used, & Magh
Current number of observation, /2 45
Dave Aug //th/817
Locality, East chape light
Bearings, Trobaka Now HyW Wo Colony WX N/4 dr.
lehop my this
Time of day, 10.42 class; of tide;
State of sky, 2-2
Temperature of air,
" surface of water, "//
· at depth of fathoms,
" of bottom, ) Z
Depth, in fathoms,
Nature of bottom, Sand & Shell + nock
Direction of multi-gurrent, SSM
Force destruction of the
Direction of the state of the No. 1/4 mile
Force of bottom current,
Name of word, Ob Stale Hawke
To what service attached, 26 \$ 7 6
Name and rank of commanding officer, Janua A formeile
Name and position of observer,
mate 26 8 St

1206

REMARKS.

It starfish clams speker costs

/
Instrument used, Trapl
Current number of observation, /206
Date, Aug // 1887
Locality, Off & letrope Light lange & Somo
Bearings. Nobska light Nr 17 /2 W 5/2
but Chop WX 12/4 ckm & and It 5/2 NC
Time of day, 16.55 Men : of tide. He
State of sky,
Temperature of air, 70
surface of water, 70,5
· at depth of fathoms,
of bottom, 72
Depth, in fathous, //
Nature of bottom, , band hell Frank Sund
Direction of arts out at SSW
Force of authorizant,
Direction of Section of reference & X 6/48 /2 Miles
Force of bottom current,
Name of word, Cold Fish Hawk
To what service attached,
Name and rank of communiting officer,
Reste Hold
Name and position of observer,
Melenghion
male Us-6 -

/2 07 REMARKS.

Same as 1206

Instrument used, Stadev.
Current number of observation, 1207
Date, Ang 11 th 1887
Locality, Off East chop Light
Bearings, Articlea of Yo X W /4W
Californix soffet 3 6 lange that 28 N
Time of day, /// / D ; of tide,
State of sky,
Temperature of air, 73
" surface of water. 7/
at depth of fathoms,
of bottom, 72
Depth, in fathoms,
Nature of bottom, Laged + fraul
Direction of making current S&W
Wind.
Force of surface current,
Direction of Latin Comment & x & /4 8 1/2 mile
Force of bottom current,
Name of vessel, ISSS Fish Hawle
To what service attached, 26 A 7 6
Name and rank of commanding officer.
That Hope
Name and position of observer,
Juleushien
mater 26 1 de
receive to o

REMARKS.

Apelinens Oblained

James and 120 6

Instrument used, Andyl
Current number of observation, 1207
Date, Ang 11th 1887
Locality. Off East Shop Light
Bearings, Nobeka NW /4 W &
cantown 3 5/2 W & letofo n X My N
Time of day, 11,29; of tide, 7
State of sky, be
Temperature of air, 73
" surface of water, "YO. 5"
at depth of fathoms,
of bottom, 72
Depth, in fathoms, //
Nature of hottom, again the world the
Direction of surface arrange, SSW
Force of surface current,
Direction of Intimum & X 6/48, /2 miles
Force of bottom current,
Name of ressel, Ilo & Fish Hawk
To what service attached, & & 7
Name and rank of communiting officer, Successful Son
Name and position of observer,
mate 20 8 h

1209 REMARKS. Spider crab soup 866636

	2 1 1 1 2 2 2
	Instrument used. Bean Linvollifeet
	Current number of observation, /209
	Date, Ang 11 th 1887.
	Locality, Gluskepit Chamel
	Bearings DE Ind Prantie Vingot SN /2 3
24	pe log 0 15 8, S & & m dele & 8 3/4 8
	Time of day. 12,50 Rec: of tide. Flood
	State of sky, Q-e-
	Temperature of air, 70
	" surface of water, 69
	" at depth of fathoms,
	" of bottom, 69, 5
	Depth, in fathoms,
	Nature of hottom,
	Direction of section 35 77
	Force of surface outpent, 3
	Direction of Land carrier EVI Jes. 14 mole
	Force of bottom current,
	Name of vessel, 26 & S Fish Hawte
	To what service attached. 26 5 7 6
	Name and rank of commanding officer, June 18 1
	Name and position of observer,
	Anlem flow
	mate to bet

12/1 REMARKS. Specimen Official Sculpin, Crabbathemit Crabo

Instrument used, Ream Frank (11 Just)	
Current number of observation, /2 /	
Date, Ang 11th 1887.	
Locality, Escept Channel	1
Bearings, & Level Marches Janier & SWX 8/43	8
whist dale & 6/2 & spe Pord it & W 2	4
Time of day, 1. 13 Plu; of tide,	
State of sky,	
Temperature of air, 70,3	
" surface of water, 70	
" at depth of fathoms,	
" of bottom, "	
Depth, in fathoms,	
Nature of bottom, & and	
Direction of salamenty SSM	
Former of State 3	
Direction of Landscape Extrapolation of Landscap	d
Force of bottom current,	
Name of word, Ho & & Fish Hawle	
To what service attached,	2
Name and rank of communiting officer,	6
Name and position of observer	
Millerightens	
Gudte 26 8 Je	-

REMARKS. Specimeno ablainedo onice & A Rim

Plant

Grate 16 14

Instrument used, Andgel
Current number of observation, 12/1
Date, Ang 15 1887
Locality, all West Stand Regges They
Brazings, Szeneptiens Light W/2 S
Lee PENY ATT /4 WALLE PE AXE/4 &
Time of day, 10-18 am; of tide, Shocke
State of sky, 2-
Temperature of air, 70
" surface of water, 69,5
" at depth of fathoms,
of bottom, 7/
Depth, in fathoms, 6
Nature of bottom, Blacke mul
Direction of Wind SIW
Force of surface surrent, 4
Direction of Southern Seat. SE 1/4 mile
Force of bottom current,
Name of vessel, Low Low Hawke
To what service attached. 44576
Name and rank of commanding officer,
mate to be
Name and position of observer,
1111111

1212 REMARKS. Spider and costele see Rossi Hondon Spilla

# . ISEX & Die Dripe-

Instrument used. Beau Frank (1) feet)
Current number of observation, /2/2
Date, Aug 15 1887
Locality, Of thest deland Burn and Bay
Bearings, Dunisland Leight 1/ S
he PEST AND Asch PSE AXE
Time of day, 10.25; of tide, Floor
State of sky, V-2
Temperature of air,
" surface of water,
at depth of fathoms,
of bottom, 7/
Depth, in fathoms,
Nature of bottom, Shell Grass
Direction of Hand SSY
Force of surface current,
Direction of Latina Acres, & 6 5/4
Force of bottom current,
Name of vessel, & S J Fish Faute
To what service attached,
Name and rank of communicing officer, James Along III
Name and position of observer.
Stulmich In
Geralu Et & it

REMARKS. Specimens ablained Sound Eggs Spider crafe Soupe Hounder conche shell

Being

## TEMPERATURE RECORD.

Instrument used, Bearn Frank 111 July
Current number of observation, 1213
Dain Aug 18th 1887
Locality, The part Level T Burger 1/2 and
Bearing Durnfiling Light West
who Met AMAW JUN Asse Majle A /2 &
Time of day, 10-55 ; of tide, Hor
State of sky, Le
Temperature of air, 78
·· surface of water, 70
at depth of fathoms,
" of bottom, # 70,5
Depth, in fathoms, 7/
Nature of bottom, The Shell grand
Direction of sandament.
Form of Strand Strain
Direction of hollow sevent, 46 /4 mile
Force of bottom current,
Nature of vessel, Ilo & & Fiele Hawle
To what service attached, & & 76
Name and rank of commanding officer.
Marte 26 d A
Name and position of observer,
Quelin 15

Guate 20 dir

1214 REMARKS. Specimens Oblained Arie 888

13in

Instrument used, Rean France 01 Just
Current number of observation, 1214
Dan. Azes 15th 1887
Locality, The Frent General Belly
Bearings, De Miles St- 71-145
du PE St Am Mil W Ands Pest Another
Time of day, 11, 20 ; of tide, 72
State of sky, 2-c
Temperature of air, 69.4
surface of water, ~0
at depth of fathous,
" of bottom, 7/
Depth, in fathoms, 7/4
Nature of bottom, Sull -
Force of survey of the survey
Direction of Indian Course
Force of bottom current, Name of vessel,
To what service attached, \$6546
Name and rank of commanding officer,
Mate 26 d
Name and position of observer,
Ila Last

Apriles months ablances

Drife - 8 8 8 6/2 8 SSE1/2 & Stand

#### TEMPERATURE RECORD.

Instrument used, And the Current number of observation, /2 /6 Date Acco 15 1887 Bearings, Durfling ST W/8 & Clarke PSt Anxw/2m Nede Of Let site n Time of day, /1.44 ; of tide, 7 State of sky, Le Temperature of air, 69.5 surface of water, 70.6 at depth of fathoms, " of bottom, 7/ Depth, in fathoms, 7/1 Nature of bottom, Black Free Force of bottom current, Name of vossel, God Jish Harve To what service attached, & & F & Name and rank of commanding officer, Laures A Smith Tate 26 SA Name and position of observer, Anding hear

mate 26 6 1-

1216 REMARKS.

Specimens Oblained Shell groved morn + worm lutre

Instrument used,
Current number of observation, 12/6
Date, 15 1887
Locality, Heredle fort Buggarte Bay
Bearings Deem ling LEW/2 A
Su Ot Scarker Just orise PLE AXW
Time of day, /2,0 3 1%; of tide, prod
State of sky, bc
Temperature of air, 69
·· surface of water, 70
" at depth of fathoms,
of bottom, 7/
Depth, in fathoms, 7/2.
Nature of bottom, Black mand
Direction of suchrection
Force of surface current
Direction of boliman forces 16 14
Force of bottom current,
Name of vessel, Stold Field Harvel
To what service attached, H & 76
Name and rank of commanding officer, Marie of Omerica
Mate 26 Ser
Name and position of observer,
(Markey of T

mate 26 S. F

8 pecimens Oblained Same as 1216

Instrument used, drill
Current number of observation, /2/)
Date: 15 1 1887
Locality, Middle part Buyan IT Buy
Bearings. Deem leng It Wyst
he PICANINIA While Althoughn
Time of day, /2,20; of tide, torv
State of sky,
Temperature of air, 69
" surface of water. "
" at depth of fathoms,
" of bottom. 7/
Depth, in fathoms.
Nature of Lenton, Blucker much
Direction of Syn
Force of satisfactions 4
Direction of Laboratories, LE 14
Force of bottom current,
Name of val 26 & Fish Hawk
To what service attached, 26 & 7 6
Name and rank of communiting officer, Leaves Amuelle Maile 26 & A
Name and position of observér,

1218

REMARKS.

Specimens abtained

Instrument used. Dredge
Current number of observation,
Dan Lug 15 1887.
Locality, Buzzardo Yday
Benrioss Gumpling Lt W/4+
the Pleamy W/ worlde At St AXW/2W
Time of day, 12, 55; of tide, 4 Kord,
State of sky, Clouch
Temperature of air, 69
surface of water, 70
at depth of fathoms,
of bottom, 7/
Depth, în fathoms,
Nature of bottom, Black mend
Direction of the threat V. M.
Force of sufficient,
Direction of Section Property 2 14
Force of bottom current,
Name of vessel,
To what service attached, 26 5 7 8
Name and rank of communiting officers arress of Smite
Name and position of observer,
Gulenia hitan
Course Men

Specimens ablained
Same 9/2/6

	1
	Instrument used. Alread
	Current number of observation, /2/
	Date, 15th 1869
	Locality, B. Buddle fort Buggarde Der
	Bearings Sunchling de my set
Ź	whe thrown for crede PIt Axmil n
	Time of day, 1, 18 perce; of tide, How
	State of sky,
	Temperature of air, 69.5
	" surface of water, 70
	at depth of fathous,
	" of bottom, "
	Depth, in fathous,
	Nature of bottom.
	Direction of Sw
	Force of successful correct.
	Direction of The & de /4 mile
	Force of bottom current,
	Name of round, USB & Fish Haute
	To what service attached, 20 4 7 6
	Name and rank of commanding officer famele Homele
	That 26 Side
	Name and position of observer,
	Interestition
	mate 26 SA

Spicineus Oblained Same as 1216

Instrument used,
Current number of observation, 1226
Date, Aug 18- 1887
Locality, Burga. A. Bay
Bearings, Deen fling St 77 XV
who PTO NYXW/4W Ands Not NXW /47
Time of day, 1:272 12; of tide, Herd
State of sky, Claudy
Temperature of air, 69.5
$\cdot \cdot \cdot$ surface of water, $\mathcal{P} \mathcal{D}$
" at depth of fathoms,
of bottom, 72
Depth, in fathoms, 8 1/2
Nature of bottom, Black Charle
Direction of author ourrent, S
Force of surface current,
Direction of South A6 1/4
Force of bottom current.
Name of vessel, & & & Fish Hawk
To what service attached, 26 5 7-6
Name and rank of communication officer faces Advanta
Name and position of observer,
Mulerightin

/22/ REMARKS.

Specimens attained

Instrument used, bridge
Current number of observation, /2 2 /
Date. Any 15 to 1887
Locality, Buzzand Bay
Bearings, Stenepling It It IL
who Plankmon Neces PSI AN
Time of day, 2, Pla ; of tide, Flory
State of sky, Classical
Temperature of air, 69,5
" surface of water, 70
" at depth of fathoms,
" of bottom, 72
Depth, in fathoms, 4//2
Nature of bottom, Black mund
Direction of surface current &
Force of surface current
Direction of Indian America.
Force of bottom current,
Name of vessel, It & & Frank
To what service attached, 26 8 7 6
Name and rank of communiting officer,
mate 26 & Ar
Name and position of observer,
(Mulion of I

1222 REMARKS. Spriger Sea Urchins Horms Inch! Ster Jish

Instrument used, And
Current number of observation, /2 2 2
Date, Aug 27 the 1887
Locality. Vincent South
Brazines La fracción Con VF3/88 A Cenop 36/2
the se 1 xxx /2 ON
Time of day, /1. D& Qui of tide,
State of sky, 2-c
Temperature of air, 6
" surface of water, 68
" at depth of fathoms,
" of bottom, 6.9
Depth, in fathoms, /2 /2
Nature of lattern, , It a count bhell
Direction of surface current, W & W
Force of surface current, 2
Direction of Laurin and Mest 3/4
Force of bottom current,
Name of vessel, It & Stable Harte
To what service attached, 26 8 7 6
Name and rank of communiting officer, a men's to
mate do & N
Name and position of observer,
Jonbrighton
Genet 26 S. V

REMARKS.

Specemens Oblained Starfish Sea Unrehim Shells Stonge Worms

Instrument used, Andol
Current number of observation, /2 23
Dave. Aug 27th 1887
Locality, Vinesand Sound
Bearings, West teleph 38 /4 6
paulin Con M/2 3 Arbelsen N. W. X A 1/6.
Time of day. 1012 000 Worthe Elle
State of sky, 2-c-
Temperature of air, 67
" surface of water, 68
" at depth of fathoms,
of bottom, 68
Depth, in fathoms, /2/
Nature of luttom, Shell & Sauch
Direction of surface current, W. J.W.
Force of which 2
Direction of Institute Annual, March
Force of bottom current,
Name of vessel, 86 & S Fish Hantel
To what service attached, 26 876
Name and rank of commanding officer,
mate 26 & ex
Name and position of observer,
Gerate 26 SX

1224
REMARKS.

Many M.

Dame as 1223

Instrument used, bridge
Current number of observation, /2 2 4
Date, Auf 27 th 1887
Locality, Vingard Sound
Bearings Las paulin Core 7 78 &
t Colors \$8 x & 3/4 & Artika A186
Time of day, 10,36 dear : maile. Elle
State of sky, 2-c
Temperature of air, 67
" surface of water, 68
" at depth of fathoms,
" of bottom, 68
Depth, in fathoms, 11 1/2
Nature of Senion, Sand Ashell
Direction of auritan surross, N - 5 W
Force of surface current, 2
Direction of Lattern American Mest 1/2
Force of bottom current,
Name of very, It & Stish Hawle
Fo what service attached, 26 17 6
Name and rank of communiting officer, Line 18 5.
Matico gran
Name and position of observer,
Johnlenghton
material &
27 1

1225 REMARKS. Skegemen at 1223

Instrument used, & redge
Current number of observation, 12 25
Date, Auf 27 1687
Locality, Vinnand Sound
Bearings La paulin Con 4 /4 8
Idea AXE/US Multehope SEXE/48
Time of day, 10,530 and ride. Ebo
State of sky, 2-c
Temperature of air, 67
surface of water, 68
at depth of fathoms,
" of bottom, 68
Depth, in fathoms, /3
Nature of Lauren, , Sand front - Shell
Direction of March VI SW
Force of surface arrents 2.
Direction of Latin Mark
Force of bottom current,
Namont was 26 SS First Hawle
To what service attached, 26 5 7 6
Name and rank of communities officer, James Hometto
mate the & A
Name and position of observer,
Carl 12

1226 REMARKS. Specemens Obtained Sea born

Instrument used. Rearn Fred 111 feet
Current number of observation; /2 2 4
Date, Aug 2) to 1887
Locality, Very and Sound
Boarings, Mar lebyle & y 8/2 6.
ska ANE Tarpentincover W/88
Time of day. //_ 14 auc; of tide, 216
State of sky, 2-c
Temperature of air, 67
surface of water, 68
" at depth of fathous,
" of bottom, 68
Depth, in fathoms, 13
Nature of bottom, Saud Shell
Direction of Weigh HSV
Force of market current,
Direction of Drift West 1/4
Force of bottom current.
Name of road, Hos & Fish Hawle
To what service attached, 26 5 7 6
Name and rank of communiting officer, January
mate is & &
Name and position of observer,
11-1-

1227 REMARKS. Skelemen Oblainel Sand Storfiel

Instrument used, Bearn Frank (11 feet)
Current number of observation, /2 2 7
Date. Que 27 1887
Locality. Vinery Anna
Bearings Lankaulin Cord W/8 S
toka cr 29/4 or West lehop ENS/26
Time of day, //, 3 2. Rea; of tide, Cobb
State of sky,
Temperature of air, 67
" surface of water, 68
at depth of fathons,
of bottom, 68
Depth, in fathoms, /3
Nature of bottom, band thell
Direction of The Contract, WSW
Force of any and any any
Direction of Single West 1/4
Plane of Section current.
Name of read 26 & & Fish Hawle
To what service attached. 26 6 7 6
Name and rank of commanding officer, Samuel Arme
Name and position of observer,
Mileneghrow
mate H SCA-

/228 REMARKS.

	Instrument used, Bearn Travel Office
	Current number of observation, 1228
	Date aug 29 1887,
	Locality, Vincey and Smith
	Bearings & Near S8788
L	Themborry or Vingond St Soch You
	Time of day, 10-42 aux; of tide. Hard
	State of sky, &-E
	Temperature of air,
	surface of water, & 4
	at depth of fathons,
	of bottom, 6/
	Depth, in fathoms, 18
	Nature of bottom,
	Direction of The Direction of The State of t
	Force of sufficients
	Unvestion of the 14
	Force of bottom current,
	Name of vessel, Ch & A Head Fearle
	To what service attached, & &
	Name and rank of communiting onion, frame of the the
	matrifre
	Name and position of observer.
	Smlenghlow
	Gm - 7 20 1/2

1229
REMARKS.

Letterens Obliging Downson Starfield

Letterens Frank Hounder Starfield

Letterens Crabe

Instrument west, Beaun Farel 111 Just
Current number of observation, 12 2 9
Date, (200 29 1817
Locality, Mury and Syrund
Bearings, Twee and S at Sleep W/ 5
ty himsker & W/ & A
Time of day, 11,12 alley of tide, Horry
State of sky,
Temperature of air, 66
" surface of water, 64
·· at depth of fathoms,
" of bottom, 62
Depth, in fathoms, /5//>
Nature of bottom,
Direction of March
Force of surface current,
Direction of Software 11 1/2
Force of bottom current.
Name of vessel, Co & & Hish Hautel
To what service attached, & & &
Name and rank of communiting officer,
Mate 26 S. N
Name and position of observer,

NZ 36 REMARKS.

Spelimens ablained

Instrument used Bearn Frank (113et)
Current number of observation, 1230
Date. Que 29 1887
Locality. Tenery & Dressel
Bearings. Vineyand Ild alt 1898 4
Tyhunde St Axxx 1/4W Lay Head Stip &
Time of day, 11,47 All of tide, Hord
State of sky,
Temperature of air,
" surface of water, 64
" at depth of fathoms,
" of bottom, L 1
Depth, in fathoms,
Nature of bottom, 1 Land
Direction of The August 18 18 18 18 18 18 18 18 18 18 18 18 18
Force of surface currents
Direction of Southern State 3/4
Force of bottom current,
Name of road, Clop & tack town
To what service attached,
Name and rank of commanding officer.

Name and position of observer,

/23/ REMARKS.

Lever Smell died sheels

Instrument used, Drady
Current number of observation, 12 3
Dair, aug 29 = 1887
Locality. Vingord Sound
Bearings, Vinezant Star WXW/LA
lay heard & E 14 & auty hunk 1xxx 1/4 V
Time of day, 12, 15 Plee; of tide. How
State of sky,
Temperature of air, 65
" surface of water, 64
" at depth of fathoms,
" of bottom, 62
Depth, in fathoms, /6
Nature of bottom, ( Daved
Diparting of March
Force of surface currents
prill
Direction of harmonical 1/2
Force of bottom current,
Name of commit. Colo Hesty Harte
To what service attached, 16 8 4 10
Name and rank of communiting officer. James Homele
grate u s. s-
Name and position of observer,
Interistion
grulenefolion

Instrument usual. Beam Iram (11 feet)
Current number of observation, 1232
Dain aug 29 " 1887
Locality, Viringard Tream
Bearing, Vinegan South St. Slip WX 4 /81
of head 66/48 butthende AWX 18 4
Time of day. 1 PM of tide Hord
State of sky,
Temperature of air, & 5
surface of water, 64
" at depth of 18 fathoms, 6 2
of bottom, 12-4n
Depth, in fathoms, /3
Nature of bottom, , mud & Sheels
Direction of March n n &
Force of surface current. 2
Direction of minimum West 3/4
Force of bottom current.
Name of vessel, US & Histo Hearth
To what service attached, 6 0 0 70
Name and rank of commanding officer. Juliment
mate lefor
Name and position of observer,
matilefin
//

1200 REMARKS. Specemens Oblained Lane dallas crobs des bell pormet Crobs elarfish

	Instrument used Pleaser Frank ( Their
	Current number of observation, 1233
	Date and 29 1867
	Locality, Viney and Sound
	Bearings Voney A St Ship WING &
6	Time of day, 1.27 1/2; of tile. Flore
	State of sky,
	Temperature of air, 65
	" surface of water, 64
	" at depth of 15/2 fathonis, 62
	of bottom, 62  Depth, in fathoms, 13/2
	Nature of bottom, Saul Shell
	Direction of Johnson AAE
	Force of the state
	Direction of South March 1/2
	Name of vessel. 26 55 4 Hawle
	To what service attached. Color 46
	Name and rank of commanding officer Street Street
	muit for
	Name and position of observer
	Mate u st

Specimens abtained

Instrument used, And
Current number of observation, 123
Date. any 29 1887
Locality, Viney and Sound
Bearings Lay heart DEV/4 &
your Sound So W F/s & leastly hunch s mx 4/1
Time of day, 149 Pla; of tide, Hord
State of sky, Ve
Temperature of air, 65
" surface of water, 64
at depute of 13/2 fatheres, 62.5
of bottom. 62,5
Depth, in fathoms, /3/2
Nature of bottom, 1 Daniel shell
Direction of The State 1
Force of whome current.
Direction of Stiffe West 14
Force of bottom current,
Name of vessel. Stop & Hick & the
To what service attached, 4 6
Name and rank of commanding officer,
Name and position of observer,
Shelenghin
Whate U. O.

1335 Specimens ablained Sanfreh skongs lesates, Herenders

Instrument used, Beaun Frank 111 feet
Current number of observation, /2 3 J
Date, July 29" 1887
Locality, Venezand annal
Bearings Eng Heart & Ex 6/18
eyard It & William but but show Arrive A
Time of day, 2,10 Ple ; of tide, Hor
State of sky,
Temperature of air,
" surface of water, 64
at depth of fathoms,
" of bottom, 62,5
Depth, in fathoms, / 2
Nature of bottom, Soul Shile
Direction of surface contents 11 6
Force of surface current.
Direction of bottom current, W. 44
Force of bottom current,
Name of read, 26 & S Fish Hank
To what says in anached. & 6
Name and rank of communiting officer, Comment
Maties & N
Name and position of observer.
Melenighton
Guato Usha
and the same of th

Specemens attained

Instrument used,
Current number of observation, 1236
Date,
Locality,
Bearings,
Time of day, ; of tide,
State of sky,
Temperature of air,
" surface of water,
at depth of fathoms,
" of bottom.
Depth, in fathoms,
Nature of bottom,
Direction of surface outpent.
Force of surface current,
Direction of Latton correct
Force of bottom current,
Numeral read, 96 & S Fish Hawk
To what service attached, 2617-6
Name and rank of commanding officer, Januar Smitte
Name and rank of commanding officer, Janus & mills
Name and nosition of observer

Current number of observation, 7237

Instrument used,

Date,

Locality,
Bearings,
Time of day, ; of tide,
State of sky,
Temperature of air,
" surface of water.
·· at depth of fathoms,
of bottom.
Depth, in fathoms.
Nature of bottom,
Direction of surface currents
Force of surface corrects.
Direction of Lottom current,
Force of bottom current,
Name of vessel, It & Jish H note
To what service attached, 2176
Name and rank of commanding officer.
Name and position of observer,

Instrument used,
Current number of observation, $123$
Date.
Locality,
Bearings,
Time of day, ; of tide,
State of sky,
Temperature of air,
" surface of water,
" at depth of fathoms,
" of bottom,
Depth, in fathoms,
Nature of bottom,
Direction of surface current,
Force of surface current,
Direction of Letters Assets
Force of bottom current,
Name of vessel, 26 SS Fish Harle
To what service attached, & & 7 6
Name and rank of commanding officer,
Materiagn
Name and position of observer,

Instrument used,

Current number of observation. 123
Date.
Locality,
Bearings,
Time of day, ; of tide,
State of sky,
Temperature of air,
" surface of water,
" at depth of fathoms,
" of bottom,
Depth, in fathoms,
Nature of bottom, /
Direction of antitet, current,
Force of surface current,
Direction of international
Force of bottom current,
Name of vessel, 26 & Fish Hawles
To what service attached, 26 176
Name and rank of commanding officer,
Materifu
Name and position of observer,

Specimens Oftained

Instrument	used,				
Current nur	mber of observa	ation, 72 4	10		
Date,					
Locality,					
Bearings,					
Time of day	,	; of tide,			
State of sky	,				
Temperature	e of air,				
6.5	surface of wa	ter,			
4.4	at depth of	fathoms,			
44	of bottom,				
Depth, in fat	thoms,				
Nature of bo	0 /				
Direction of	Warface ourren	÷,			
Force of sur	face ourrents				
Direction of	bettom chiron	t,			
Force of bot	tom current,				
Name of ves	sel, 26 8	Fish )	Hawte	1	
To what serv	vice attached,	26 67	6	,	1
Name and ra	nk of comman	ding officer,	ames	Asm	rette
		ading officer,	yatt	26	2hoa
	sition of obser			#	

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4241

sift SE

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