HAROLD E. EDGERTON

PAPERS

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Series III

Laboratory Notebooks

Number 32

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COOP COMPUTATION BOOK 152 NUMBERED PAGES / 1134 x 936 INCHES

HAROLD FOGER TON MITH-405 32

Course

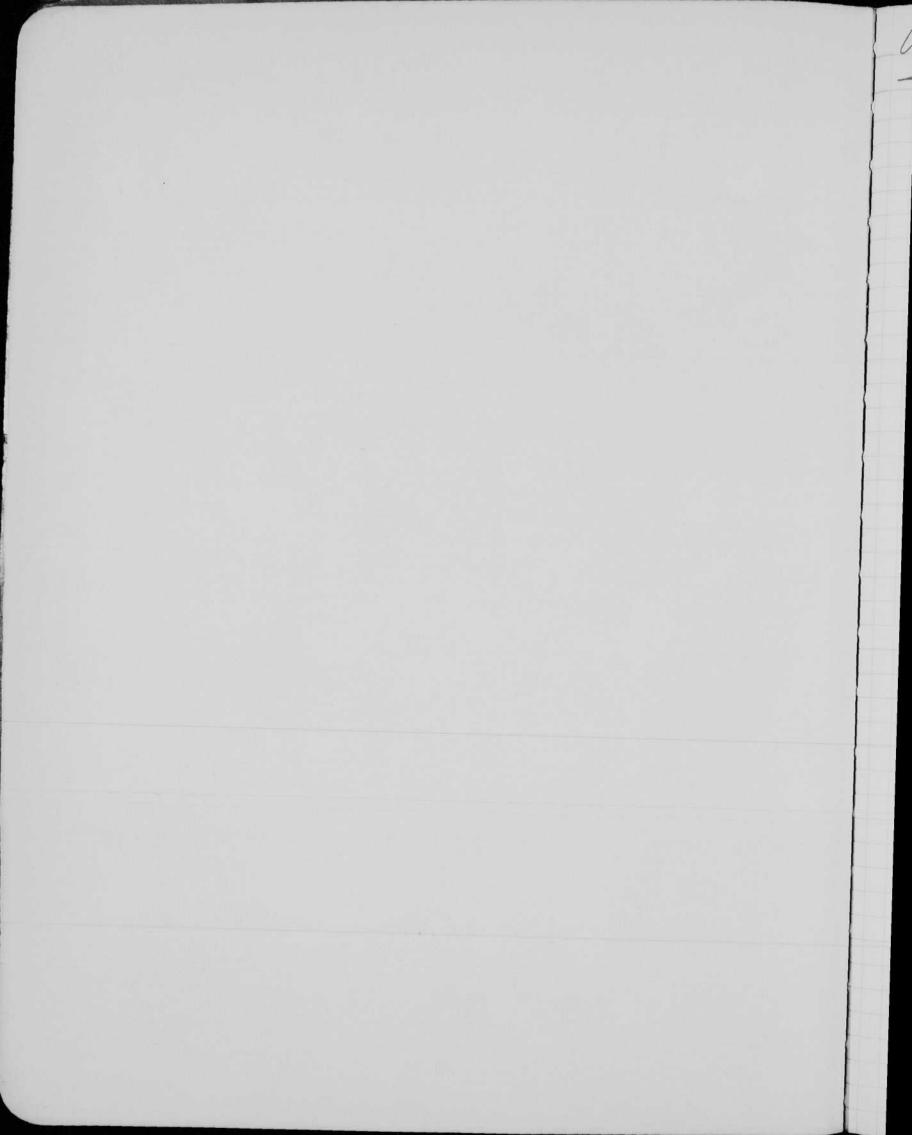
Used from Au6 18 1925, to JAN 31 1978

RVARD COOPERATIVE SOCIETY

TECH. COOP 84 MASS. AVE. CAMBRIDGE, MASS. 02139 Jun 14, 76 & 4. pm story 10 20 ... DURATION June? ? In England. aug 6 1976 9am . 0 ang 9 76 10 might of DROAM? ang 9 76 10 might of Small bil sold. 7.15 am camb. 3 sung. Set 25 76 12.15 " Ostrong. Lard S. Edge for 12.15" " Ostrong. Lard S. Edge for 12.15" " Ostrong. Lard S. Edge for 1975 " 12.15" " Ostrong. Lard S. Edge for 1975 " Ostrong. Lard Street moon at ren. " Strong when the plant 1.1. H-405 " O2139 " O2139 " O2139 " Cambridge " O2139 " O2139" Cambridge " O2139" " O213 4.30cm " (story. Nov 15 76 NOV 2976 6 m " ? " 253.4629 494.8783

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222 285 286 322 332 631 08927 - 04937 inc Earlie EGh Brooks are stoved at Inster Inc 49 clinton malkin moss 2 Welnesjur John Heffernan.



2 aug 21 1975 William Bascome called. He is billing on a study Haved Engston. of the sewage outflow. I referred him to Bob Ward \$4.84. He won'ts tide reanded penetration. ang 25 1975 The elifned line camera came out of the sea ofter 2 days on the bottom. It of enter al a 2 minute ogale, out on thursday about noon? there were 10 ft of film unexposed - d rantleis will fall and took to the coop for processing. Esther and Ellen Dixon went an Sat. 23 Swent to Westford unter a trainil and set stupon Barbers beach on this trif. near abolis stone. The telesape is great. & could see the Vinyand light tower very scenly. the water was so clear. chech clear for Betrevto spindle. 194° magnetic " Latand 133° 45' Bunker position. " " Water-lower 278.30". We plan & make a lot of somar measurements off west port to find the atlanter Sword. This fishing alup went down in the duter with 3 near. Where looked for it wang lives will out Quesers weather by John Dolar, Ras I might obsert & pru. 3pm. Project for Westportagain good poned for tweeday. Will try for Wednesday. Project for Sonar panetration.

Use 4 massa transducers spaced

on botto sides of the survey skip.

Wave lingth of 5 kh.= 0,84 ft.

Dian - 6 ft Learn = 6 = 8. A A (77.0) angle should be about 100

Chery 26 1975 West port trip concelled again. Hoperphones agrant be result at exact center.

Significant of the propeller turbulance.

First try the self generaled voltage in the

Transducents. Transducert ?. suid pouts between the trans du cars. comest in perallel. evangement of & trans ducers.

Mig 29 1975. I went to Westgort on the 27 at Fam when John Dolan called.

atrawit station was put at Baker's beads near the east life quarks stank, 900' intervals were meade

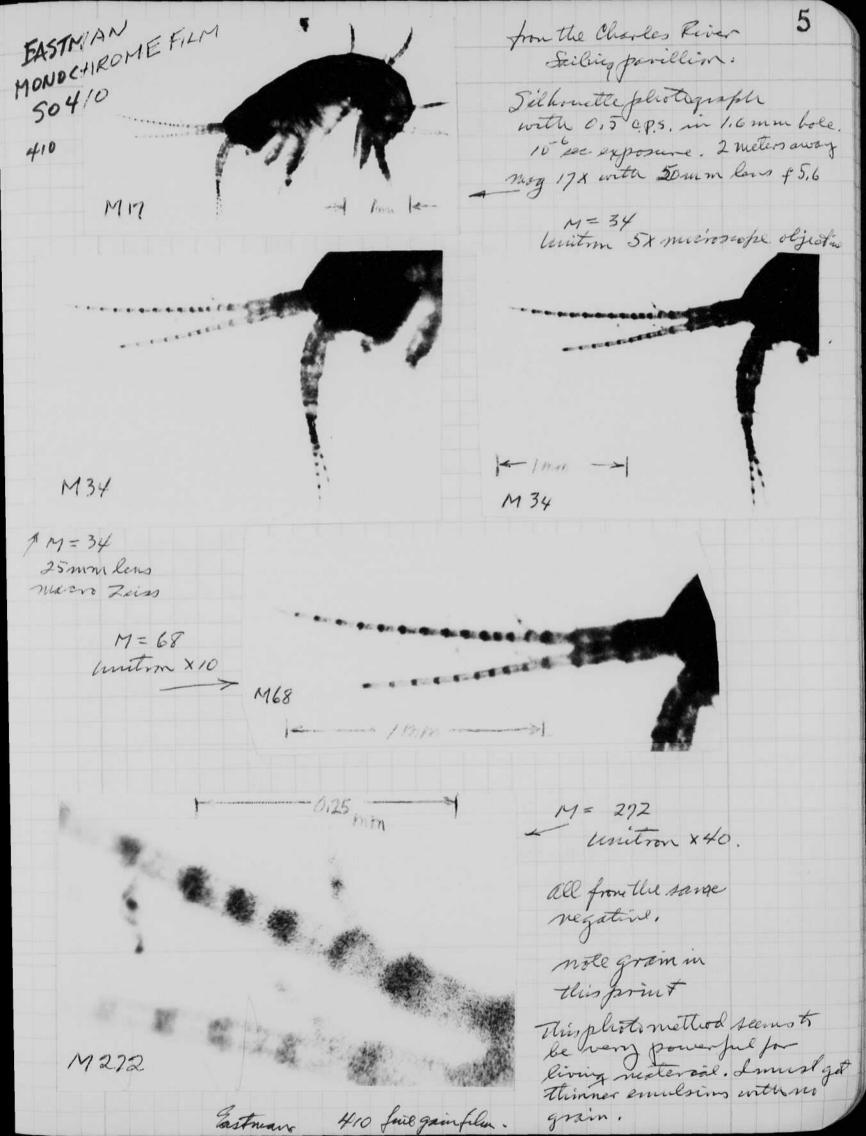
botto kart and west.

Course of 200° were held by the transit. Tolavand John Griggs (16) mariand to traveit. Palmer operated a 22 ft febergan boat with Claude Lebour and me with the 259 Ed 84 Side Sean. runs. Tom Foley operated the 22ft Boat with me. John Briggs and Fiz Dolan operated the transit. We burged several targets. The magnet did not show iron. I bury was left on one toget due west of the spindle. Bury I. this is shown as a 4' rock (mean loss tide) on the chart at the 2 mile ledge. I toel folio D -draft dwas relatively sure that it was not

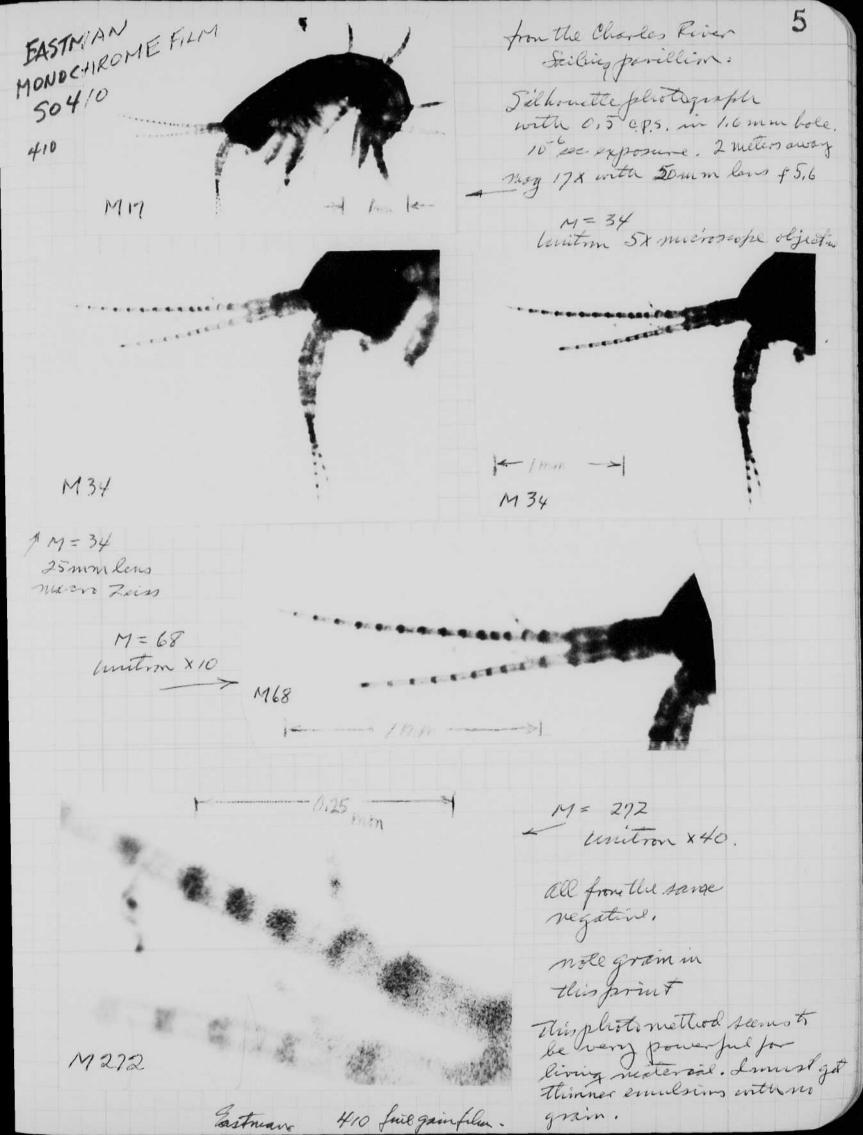
the atlantic Swort! mos of plants plot upthe areas list we have covered. The slip does not seem to be in these areas. Where can it be????

Krebs of techtronic came in this morning Chas miller and I spent a lot of time will live testing the 700 series memory scope It is my hope that dies instrument will be usaful for stredging flash lamps.

ling 30 1975 930 pm. I spent the morning studying the sonar records of the 27, 28 any then I hade a map of the Westport area off Horsenech beach with the several targets on it. there are two avers that should be unoestigated due is a target on the south east of the bell"whi." target shows a loube patch of highly refective material, one part seems to be circular and slight of away from the rest. I did trya magneton it at 37 - to feet deep. Adid not fell a pull, may be I muisestly Target, may be it was somered will growth. seemed to show a target. I must get the sonar closer to a 16 ft hale just west of Impropose that we rejusted the transition The shore and own two more lines to the west, this will close in on the Knubble. MILE ROCK. BAKEIS SHORSEINECK BEACH SPINDLE Sectroning of C & GS 213 Sparten. chart for Toget accuratedata. TARGET Buby I 37 deeps Losller John Dolan about Busselem 5'high the tizes today, We hope to get action nextweels, WREEK.



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6 dept. 1,1975. Harrel Edgerton Jamp on Voudential out. The capacition 28 mid 16 in garallel. I returned to M. IT. to find another capacitar. 1. Y. Constean arrived on the 12 mon plane from 21.4. city. I took limets 100 mem Dr. where Esther had a very nice lunch. Constean is going to make two I how movies in Druce with the backing of the Greek government. He wants to use a side scan sonar for search and his soucoupe for exploration. a Texail in godinate (wester) from Iran Parving Boba, is to come to Cambridge to learn how to service and aperate the 259 sonar. I will get information from \$4 86 to constean in n.y. next wer (this week!). He wants delivery by Oct 1925. in athers, Constean plans & survey much of the coast line for interesting wreches etc. He has asked me to come if I can, sind he trown of my interest in Walid . Laparto, etc. more experiments were mude with a glass tal lanter stikes which have or very slow emolsin on them today. 1. Photo of the torn paper edge and frastured glass 2 meters from 0.3 cp2 This was thin 2. Photo of Water Jean (Chas Kine) in water emp. 1.6 meters. 3. Photo of water flea in water drop 1.3 meters. all above were thin. Try fresh new developer next time New York City lel= 371-4000 -Side horling Some who and bushpine Hear, like Sept. 7 at PARK LANE Hotel Equip! in green for October 20 =-Central Park South

Worm from net auburn poud.

Jul Grain Positive 7302 7



×17 Somm



× 34 × 5 MICROSCOPE or 25 mm. Jeiso



This fine gain position objective 7302 is just a little better Than 50 410. Sup 5



x 272

mierro for

6 defet.1,1975. Harrel Edgerton Jamp on Prendential out. The capacitive 28 mtd 4000 or Sprague had blown out. There was a 16 in parallel. I returned to 17.17. to find another capacitar. 1. Y. Constean arrived on the 12 mon plane from is 4. city. I took hims to 100 men Dr. where Esther had a very nice lunch. Constian is going to make two I how anonies in Dreece with the backing of the Greek govern went. He wants to use a side ocar sonar for search and his soucoupe for exploration. a Texail in graduate (master) from Iran Parving Bobo, is to come & Cambridge to learn how to service and aperate the 259 mar. I will get information for 54 & 6 to constean in U.y. next wer (this week!). He wants delivery by Oct 1925, in athers, Consteam plans & survey much of the coast line for interesting wreches ets. He has asked me to come if I can, sind he knows of my interest in Holid. Lepanto, etc. more experiments were mude with a glass tot lantem stikes which have or very slow emolsin or them today. 1. Photo of the torn paper edge and frastured glass 2 meters from 0.3 cp2 2. Thats of Water Jean (Char Kine) in water drop. 1.6 metes. 3. Photo of water flea in water drop 1.3 meters. all about were thin. Try fresh new developer next time New York City 1el= 371-6000 -Site Looking Sonar into and leastprine their like Sept 7 at PARK LANE Hotel Equip! in green for October 20: -Central Porch South

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x 34

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x 272

mierroupe objective 8 Sept 21975 Havel Exeter Marigation methods to consider for Thran sorretys. It is simportant to peop the data current. Every effort should be made to produce a plat of the ships position as a function of time as the data is being gathered. much less than with penetration somer. also penetration sonor requires a ship to go much slower. apparently foran A and Bane not accountle evough for most surveys. In any case the lovar readings showed be recorded sing They will be an aid. next comestador as a navigation (3) systema. Instante to and angle can be head direxty to shore points on to Burys. This system is usually about should be used. Septant position weasing is a readings take time to secompaint or a small boat. Thewise the entering on the chart regimes a special 3 ann portractor I thoughters found that seldom there are facilities on the ship to plat the information on a chart. Textent operation regumes too much time, waybe there are ways & speed clis up. del norte, Honey well Cubic to are all great but . 1. Require land based stations (or burys) with formers

2. There is considerable enfense involved. 3. Trantin e of the stations is required.

Transit station. I have found that a (E) transit statum on the slive is a very effective method of holding a surfoy ship on a line with great accuracy cannows given with significan valio to the helms were gund the slip rings to brongs or land stations to the side Relf to know where the ship is along the line, Anary case the line an occurring if a triget is to be relocated. Transit lines should have 50% over Cap so that souble coverage will be ascampeished. Why? Well sometimes the torget way be shielded by the geology directions. The sonar may not be as sen situal at all distances due to the settings of the instruent, adouble look man be helpful. The records showed all be organized for reexamination at a later time. Ofter the largers one not recognized to the data is flowing into the neuroles.

E Compan bearing.

Os a last method which is

fast, simple, but not very occarele is the

nexsurement of magnitic leavings to

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come must be used to keep the compass

away from iron on the slip since the realing way be

effected.

Tertical depth. The depth of water is often a very important bit of suformation and should be recorded. must ships have recording fathrometers

A). There should be the factor to interconnect all the data, a log sheet is one way to record every but of in formallin that come in.

If at all possible, there should be a facility on the ship where a drawl with the ship position is continuously beep up to date on an overlay.

The for plates

Made on plates

Stars Stides

which are

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the grain is worse than 7302 or So 401.

Sept. 5,1975

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Wyclsoff's labinin

Wentation see the

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Rine strobe camera

which Bob Rines took

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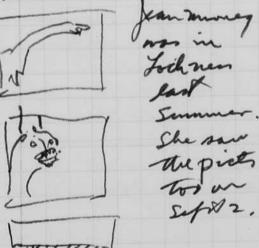
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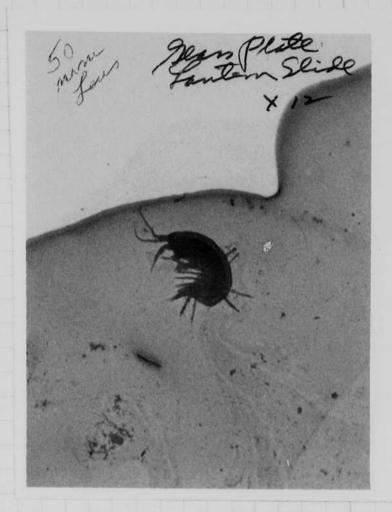
There were 3

excellent pictures!

Chas made 35 mm

frames.







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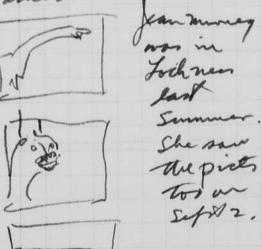
excellent pictures!

Chas made 35 mm

slides from the 16 mm

frames.

Jean mon







12 Dept. 5, 1975 Haved Edgestor Towert to Westport again on Sept. 3 annel atout 7.30 am. We went on Bearled Taly. operated by Paul Brogton. Claude Ledous and John Dolan & a crew member. We sportled a trught found on any 28 at 1000' Rast and south. Divers were put outsit-Roder again. I mow haven map with many rolls? We do not terrow where that weed atlantic Sword is located! mon neuros will be make in the Two mile ledge, Reports of oil have been Left 7 1975 Belbert Brosvenor Nat. Des. Sug, called one Spot 5 Dashabout the Rine photos which Insurar and hamen planed to did annex see Bot Rines on Sept 6. Sat. Rines Told me shout the meeting yesterday when I returned from the Phymonthe meetings of the Bradford Society. There was a plan for energe enhancement by this group at cal tech. Then if possibles a very short story with a cone shot on the not. See snag for fan Renewed ast mity with planting ruphy is contemplated on the camera or near the camera. This is because the camera is aused to sving about when the subject is near funtine will be developed. Coved it be possible that the annual subject is currou about all carriera The plats of the box was excellent Distance obsed the same = ? I propose that the carriera be and way. all of the time. The taking rate showed be close tommal = 30 per seand? fullway Sept. 9,1975

Herrel Degeton.

Doug Whitefis the

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Chas millers's

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Ull nest of the term.

photo of the stroke and T.V.

Stroke and T.V.

that is planned for

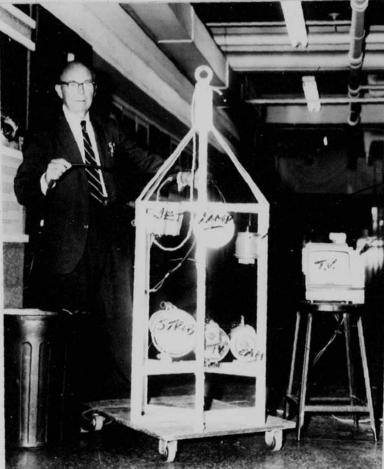
the moditor expedition

of 1996.

We need to test it in

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a som defer teen.



Tohenby Dong white Soft 9.

Bill machdest, helped to get our other Til, not slight with a 100 ft cable for use at West port.

Constante, who was in Cambridge on Jahr Day Soft!.

proposes to use side scan sonar in Greece in honorober
to look for deep weeds which con then be plestographed

lyttle diving sancer.

Information about the 56, 26, 259 was sent to him

on Seft 5 by Bill Reck.

I will nied to can cel my to be England in hor 10, 112,
tago to Greece, may be I can go after words. I plan to
the the roting job and a penetrator.

Janic Bablicanned Seft gat 756 on flyh 1876 Delta from miami. He is here to learn the 259 somer for the Greak Trip of the Coloppso. - dET

Control Box and T.V. & be on The ship.

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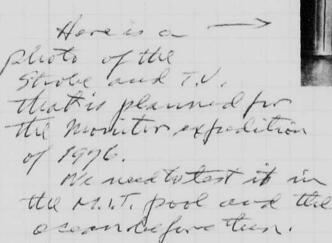
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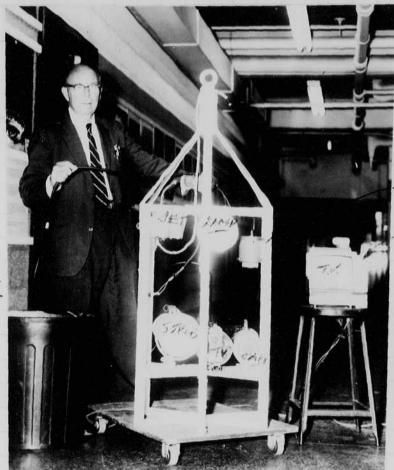
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Paris Bablicon read Seft gat 756 on flyh 876 Delta from miani. His here to learn the 259 somer for the Brech Trip of the colopper. 14 Sept 11 1975 Loch hers Inv. Committee and of Opplied Science 9pm Robot Rines Genning. Porvis at . Chas Wychoff Danel Styetin Dichsain of 7 photos made by Renes in 1975. These were out of 2 not frames of 16 mm Aight Speed Eleter damed. 50 wet are DA = 8 BCP5 = 1000 ? 40 85' 300 to -SONAR 1972 Experiend with our trages concept. Loss of comera. Could it be aused by nesse. Forzethas depth Fature Experiment. . 1. Deylight. Unfavorable augle (wycleoff). Vertical comerce. There mudel. -35 mm. (big format.), 16 ob mories. 30 photos, 15 rec aper sind T.V. comera. Silhowle Monter on Shore, 300 ft. 220V50A. Carriera & Fight on Josep. Solid.

Sept 16 1975 Tues Hirekoly, tri-I called Wychroft suggesting a lampatore if the cancers is coined up as before. The law pools le also closer to the subject. merian with to start carriera Merceny switch.

Operates when lipped Bustion? Does the stroke lamp attornet the mouster? Left 20, 1975 Thomeoules t Fines about out trip and 216. more made yester day. neginter (44) called. Plan - Hal Bobk to come to Washington witto behaved Photo for consideration as possible come for Net. Do May. Oct, till has nothing to do with the n.G. publisher. Thomas the perhaps of n. G. Photographer at Wash meeting. King reproduce the enhancement pleats

shows the complete nech and something below the head. , as wrong to JPL. I award this engarly. However Lam au viors Eigel on with the research. The question above is still forewast in my mine.

18 Sept. 19,1978 Harred Engorton Gesterday in Washington D.C. & attend awarding by Pres Fordand Stiever. talk by Rochafeller at the State Dept at mon. Peter Purpura (Exhibits). The Lock hers photos are to be discussed. Theldon Philips 716-724-4524 called today 5.0. 343 and says that some had been sent before. Dec Test 20 or previous page. meetoberts and I have been dongering a small strobe, 2 flashes /see, about I cps for use as a lune. System transider. 1 2 flashes/sec 1 cp.5. 350 h stone 10-20, 40 TO SURFACE Defficultto The Shore Holk m 151 2056COND INTERVALS position. BUOY

Plan for 35 mm carners set up for Tockness.

- 1. assume the xever fash will be a good lure.
- 2. Design for shore power with an exclation transformer
- 3. Puta Television omen near the camen so the operator our book.
- 4. But several inertia switches in the area to alort the personell when there is action.

Design. Tweet float from the carriers as in page 18.

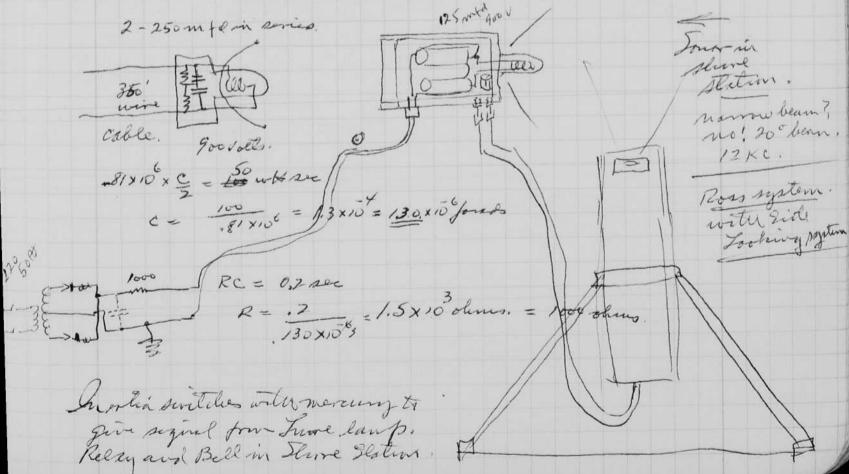
Install 1 or 2 carveres with 35 mm color frem in long rolls. High Speed Extra clerone.

Operate at 2 pictures / second for 20 exposures.

Then power into lamp = 100 walls.

Fx 109? 4 turn gently spiral.

100 wates x 10 seconds = 1000 waterseconds.



20 Dept 20 75 Sand Regester So wall seemed strokes 1000 olins olig. 2 per server for 10 seconds. 35 mm corners light speed eletra event How to firethe sequence?? Camera, floater B ouste Strale, floater Sept. 721975. Bib Rines L. Class Wycho H. Prof. Leem Head of MRZ Fishes no fish no Replike (unoun). Jin phato .comera Contin Short la unquient Bay

22 Test of 7302 film fout source. misouflagle = 0.5 aps. et 3 x 10 exp cen 95. 98.6 215 3mm . 555 9.359 - 641 higher 95 cm 95. .146 .14 -.86 3 .32 .57 chan 95+90 185. ,37 .0346 222 1,778 17.2 Floor +67 252 +5.1 Dounty 1.53 Cogisti mes Sefrt. 24,1975 Testomade astongut in Pool of the new camera furthy mountantests. f8 2 meters. T.V. mountin plus 2 saw I. note Bertinos oquerter is la Male 3D-12 NDVR carno Pump. Oblahomacity. This purp is Under water or posure a for the closerifts of Bob Rives called about J.P.L. enhancement of forthers photos. allan Hillispie says a sofofdetail not cooly seen before. then these come But and I got the natifies. to seabout a quich publication la coo plans In new a furmered and expensels.

Texts of film type. 30427 from Shellon Philips E.K. 23 aerial 1414 netrattii. microflesh formtsoone 0.5 cps at 1.85 meters Densty = 13 and 2414 thin Base Saucemulsin ao 193 meters levery = The film cases quislely in Hypo. Subject for 2nd plots. 93 zu was a piece of town paper welters weedles. there was an edge at. 67 meters which showed blur. The first negative showed paper also was very evident compared to the 2 nd exporm. Miliongeneent. Prints made with 50 mm at max enlargenes 25 mm × 10 mionsofe 55 202 33 times onlargement ealtyment Shows diffraction are to spring done the 50427 1 30 75 meeting of Therator at PEO, convertion. Concord minute warm out Francise haft

22 Test of 7302 film Point source. misroflage = 0.5 aps. at 3×10 exp on 1850/3 min Dedtor 1:2 IT 95 98.6 2.5 3 min . 355 9.359 -841 198,6 higher 95 cm 95. 3 .32 .146 .14 -.86 .57 cher 95+90 185. .0346 -222-1,778 -1.798 ,37 17.2 Floor +67 252 .07 15.1 .05 Dounty Cogniti mes Sefrt. 24,1975 Ustomade astongut in Pool of the new camera forthy mountantests. \$8 2 meters. T.V. moutin plus 2 sam I. note Berteros oquerter is la madel 3D-12 NDVR carno This purp is Pump. Oblahomacity. Under water or posure a for the closenifes of Bob Rives called about J.P.L. enhancement of forthers photos. allan Hillispie says a sof of detail not covery seen before. Men these some But and I got the natities. to sealant a quich publication la coo plans In new a supment and expensed.

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24 Oct. 1975 Florold Sogeton. Resling Hon meter Prolone -AFS - 8 AET - 2.5 Exposure 1/10 see at f 11 Developed 8 min in Dittol 1:1.

Density of stry 2,1.

Exposure For 16-5000 Guess.

17/11,000 19+ f11 - 1/15 see. Shapel 1/10 sec. Denney 2.1 of stry. Try again with 1100 at f 5.6 Oct 6.75 may tour left for Hickory n.c. at 1046 on Pette. She was in Boston to attend the PEO Convertion of last wish. Oct 8,76 yesterlay nith Blen Reem at Magnolia & searly Glaves Pseade

Ju Oct 18 Boston - Covalin aa 91 315 - 5.04 pm Robert Edgerton Portice Mich 221 alland Dr. Portice Mich 221 alland Dr. Portice Mich 35053 48053 phone 313 332-5675 Tues Oct 21 Retroit - Omalia A4 553 527 - 530 Chi 625 7.47 oma U 299 Oranha motelatairport Wed out 22 Woodline Lowa in morning with Jersie Decon and orline Coe. 712 647-2015. Fincoln, nebr. Nat. Bank of commerce. Howard and 402 477-8911 Howard and 402-432-6767 402-362-3701 aurora Ken's motel 402-694-3141 fr. Get. 24. Ouralia - new Orleans Branif 141 1055-1120 155 230. 335 new orleans auto. Herty war greens, trip Sa oct 25 Frank Bennett 1042 Dean more are Baton Rouge La 70806 Ju Oct 26 504- Di-4-9195 Bill & Joan 7815 Willow St New Grleams 504.681-1856 University Central the Thus Oct 28 Evening Houston M.I.T. club Texas 498-0063 (warwich Hotel)
caption Joch Forks Uni of Houston 713-749-1349

licetive Joe Moore 713- 228-0371 (home 713-468-7521) Oct, 284 6:30 reception 7130 dinner Wed. out. 29 10 am. Shell Dev Co 3737 Bellaine Blod po Box 481 Leture. Houston Texas 17025 713-667. 5661. afternon - Discussions. (Emanuel Baskir) - Bruce. MIT A wd. of the Thun oct 30 Pallas evening feature Dallas mis of fine arts. Friend 214-748dinner 6: 30) Bell Hellitopter 817 250-2886 Home lecture 7:30 (October 30 night reception 8130 Bill Boogiotis (bus, \$214-521-2461) Tri Oct 31 Dallas - Chafael Hill M.C (Raleigh-Durham) & 598-1138 226 atlanta 564 3.06 4.11 Jem Nov. 2 Greensbora N.C. - Boston Predmont \$2 2.45 - 4.11 Wash AA 350 5,30 - 647 Bos every hr + (45 mins) (Possibility - Fly Houston to Dallas 10-30-75 via Southwest A.L. to Love Hobby Airport)

Harved & Esther Edgarter. AALI.2.6700

Mov. 5, 1975. Thered Edgerton

Lgo towomon to athers on AA to Kennely 24.

Oly 418th athers evine 10:35. Some 620 pour sof egupment left towight on the same fleger in 12 packages.

The Calypsoois in Athers and will realize two T.V. presentations for the Breek Go. V. Conteme will be the directing.

Share a list of things to do. We will see what happens.

- 1. Search for Heliel (ENKE) in the boy of Corinth.
- 2. Searth for Le Pants wreds in the bay of Patras.
- 3. Ulysses wordt im Cepholonica Istand mear Ithica.
 - 4. Greek words in "chalchis". boy north
 - 5. Marathon where stalues were found.
 - 6. Brithanin large stails in 80 meter of water 170 Km from athens.
 - 7. Thera Santireni. Istand.

8 crete

9. etc.

Elfands Expensents will moise etc. As showed a pendulum that "seemed" & grin a circle when one eye was covered with a 10 density filter.

Filming and Separation Record

 unmounted photograph(s)
 negative strip(s)
 unmounted page(s) (notes, drawings, letters, etc.)

was/were filmed where originally located between page 26 and 27.

Item(s) now housed in accompanying folder.

Septimber 21, 1975 C. Oh. Orychiff. 16 man High Speed Eletarhrume Algazine Lord

FRAME ·No

R. TO PRINTED TIME

STE = SCOTLIND TIME LOADING LEADIN CAMERA TRIALS INSIDE NOUSE - SCUTLAND CAMERA & STOOR TRILLS PRINT TO LOWERIUS THE LOCK WESS 平塔子(MA) 4130 PM SCATTLAND (S.T.) 115 19 JUNE 1975 3:45 PM SUBHERGED +120 PM RINES TIME SLIGHT DAYLIGHT SINGLE ERAME H [38 5:00 PM R.T. 41/5 PM S.T.) 6:20 PM 200 5:35 PM SLIGHT DAYLIGHT \$236 (7:05 PM T.T. G:20 PM S.T.) 8:25 PM 300 7240 PM 12 DICTURE # 3 98 (10: 30 PM RT. 9:45 PM S.T.) 9:45 PM 10:30 04 400 2rd PICTURE # 436 CYLINDER (1815 PM R.T. 10130PM S.T.) 12:35 AM 500 11:50 PM 1:55 AM 2:40 AM 600 4:45 AM 700 4:00 AM 32 PICTURE #726 BUDY FYBER (517AM R.T. 4832AM S.T.)
SURFACE 110 T F782 (5124AM R.T. 4839AM S.T.)
14 DOAT #741 (5135AM R.T. 9150AM S.T.)
D STANT 6:50 AM DAYLIGHT 900 6:05 AM 8: 55 AM 900 SILO AM 1 (200 AM 1000 10:15 AM PICTURE FEAD \$1071 (12:30 PM R.T. 11:45AM S.T.) 1:05 PM 1100 12:20 DM FOLLED OUT OF WATER # 1/94 SUBMERCED AGAIN # 1163 2:00 PM RINES TIME 20 SUNE 1975 ALLER PRINTS THE 3:10 2:25 PM RUBBER BOAT # 1169 5:15 PM 1308 4: 30 PM SIEHOUETTE # 1316 (5:35 FM V.T. 4:50 PM 8-T.) 7:20 FM 400 679 PM 9:25 50 1500 8:40 PM DAYLIGHT STOPS 辞/520(9:50PM P.T. 9:05PM ST.) 16 100 11:30 PM 10:45 PM 1:35 84 1700 12:50 AM 19 000 AM 2:55 AM

2053 MAOLIE END OF FILM; 8:55 AMI

5:00 AM

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September 21, 1925 C. Or Drychof. 16 mon High Speed Electrologine Augazein End

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END OF FILM;

R. T. e RINES 9 PME

STE = SCOTT TOT TIME LOADING LEADING INSUSE MODIE - SCOTLEND CAMERA TRIALS CAMERA & STROSE TRIALS DOIN TO LOWER US TOTO LOCK NESS 中境子以ME 4130 PM SCATILINO (S.T.) 115 19 JUNE 1974 3:45 PM SUBHERGED 1:20 PM RIVES TIME SUBHT DAYLIGHT SINGLE BEAME HIBS STOOPM R.T. 41/5 PM S.T.) 6:20 FM 200 5:35 PM SLIGHT DAYLIGHT \$236 (7:05 PM T.T. G:20 PM S.T.) 8:25 7240 PM 300 12 TICTURE # 3 98 (101 30 PM RT. 9:45 PM ST.) 9:45 PM 10:30 04 400 2rd PICTURE # 438 CYLINDER (1815 PH R.T. 1023-09M S.T.) 12:35 AM 500 11:50 PM 2:40 AM 1:55 AM 600 4:45 AM 700 4100 MA 325 PICTURE #726 BODY FYDOK (5.17AM R.T. 4232AM ST.)
SURFACE 110-7 F782 (5224AM R.T. 4238AM S.T.)
1120AT #741 (5135AM R.T. 4138AM S.T.)
D STANT -6:50 AM DAYLIGHT 900 6:05 AM 900 8". 5 5 AM SILO AV 11:00 AM 1000 10:15 AM PICTURE FEAD \$1071 (12:30 PM R.T. 11:45 AM S.T.) 1:05 PM 1100 12:20 DM FULLED OUT OF WATER \$1100 2:00PM RINES TIME 20 SUNE 1975 SUBMERCED AGAIN \$ 1163 - 2:25PM PILISS THAT 3:10 2125 PM RUBBER BOAT # 165 1300 5:15 PM 4: 30 PM SILHOUETTE # 1318 (5:35 FM 87. 4:50 PM 8-7.) 7:20 200 679 FPM 9:25 00 1500 8:40 PM DAYLIGHT STOPS 辞/520(9:50PM R.T. 9:05PM ST.) 11:30 PM 16 50 10:45 PM 1:35 14 1700 12:50 AM 19 000 2:55 AM AM

28 Dec 27 1975 Havel Elyston. new bach from the expedition on the Osey so with Jy Cousen, Mov. 6 (th) Oly 417 to athens with Courten nov. 19 artemission trickeri (Stop at Satamistatand and Holice) Storm nov. 24 " Search in 42 nations for ship. nov. 27 Calypso at Piracus Thanks giving day. Pylos search for wrechs of 1827 (Stop at Salomis and Nalice Storm) Dec #2 left for Tondon at 1010 am - Fresident Hotel Evening meeting at the House of Commons about toch wess Dir Teter Sooth, Sovid Rues etc. Igane a short talk about strobe plistigraphy. Dec 11 Oly plane to atheres at 12 non (eft 230) arrived attens of 830 pm. Oug to Kolometa in evening - Then texi to Pylos to gointly Calypso. Dez. 20 arrived in Piracus. Packed goar 8 boyes 500 for slupwert I mude a dive in the Toucompre on Dec 19 in Willie with albert Falco. The "bumps" consist of large hand sized rocks down to grand, The beings own be several meters high on the N.E. corner of the delta off Ergin Dez. 21. Left alliers 3 hours + late on dey 411 for new yorks with I. G. Guster Sum storm on Boston - all My, Boston planes cancelled. - Rivera Hotel :- aner plane et 1.10 pm Esther returned about 7 pm from Hickory U.C. Centy Robinityer 202 325-9275 (nov 14 75) please call - dist - He want to find the "litaric - in 12,000 ft of water . Photos, T. and dive by submarine. Bood idea! This subject cames up every so often, It would be a difficult test. Call John Titch. Tape lectures. 25 dept. Paul Penfield.

Haved Bart a meeting was half sat evening for 3 1976 at may beare 100 num Drine. Bob Rivs, Clas Wyclosoff, Chas Triller Bill Teac Roberts . Herred Edgerton from Morney Swivs. Duggestins. for plats graphy in both hers. 1. Daylight allumater comme vartical to the similight 2. Old Elapssellin camera. 16 mm colon. Big strole 38 mm camera color. Jant operation. some times? 4. Television and "slow take" and with "bish off" system for by strole. 5. Sover in various makes. 7. Jook down strale and camera. When subject is in the Querlin Firtherto Blant.

Merine Society metungest night with Dan Hom - Expedition to Breeze vatto Constear was discussed. Kennicol apper co in Lexington (?).

200 19,1976. Lecture tokayon underwater photography in 200m 4-402 at 12 pm 1. A.P. program for N. I.T.

> Bill Chas Timbelstein, and I unfrached the 12KC much penetrator that was locally the 10KAE ocemographic group in athens. a good survey was made of the sever-outlet area off Privacus.

> Elisha Linder has been here for a few days. Fastinight we had a small party. Martin and Ricera Klein, Bob & Carol Rives Josef throughworten, Jean money. Linder went to u.y. on the 9 pm plane Eastern.

I was in Philadelphia last week at the Shot. Under, Water En sheologisal conventions where I gave a paper on the uses of omar for under nature search.

Elafsbeltine Camera. Jan 22 1976 Bill Wolf a mon. Continue untion of film. Faste Shitter Vincent. FASTi Itale. 1 ser - for sec. / per frame. 100 see to move I forme . . 15-20 see to more finne. Photoprotours times for signed. 4" OO O Tooft model. microswitch on teth of sprochet for shutter. hote: - a new commen has been capacity with elapsed time capability. of colif is also a possibility for our Jan 23 76. I visited the massace about won. Frank massa gave me 5 transducers 12Kc which I plan & mount in an away.

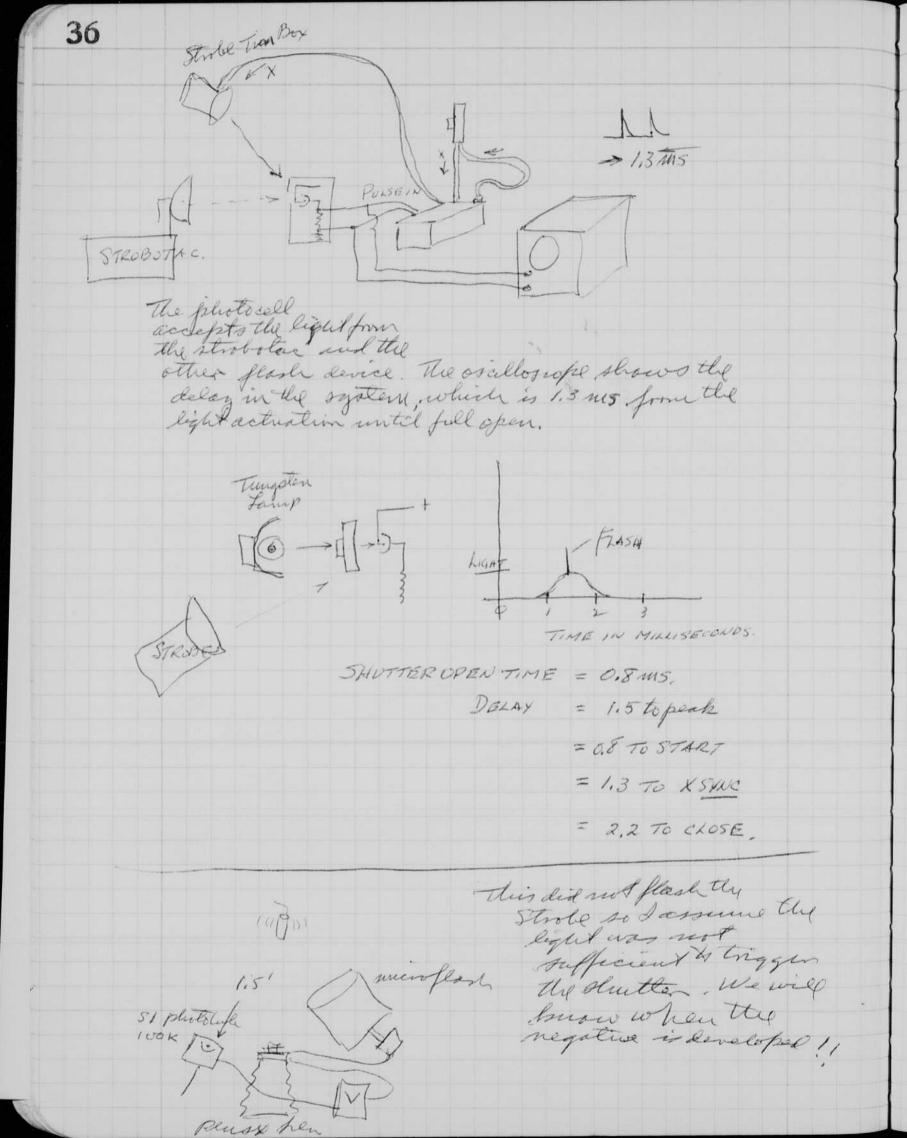
Danny massa explained his sound files equipment & mountin at proson. We all hal limbe et die Red wash siel new the messa fastory.

32 pu 27,1976 Herred & Sigestion I visited the massa lab in Hingleson I mais on mon see previous page. Frank trassa gave me 6, 12KH transducers. These have been used for experienting. at present, we, Bill mackoberts and I have decided to use three, closely graced. The outer too are connected in garallel and driver through a Kwing cable #18 of 25 ft. from a capacitor discharge The center element is used as a hydrofilme. a 1000 ohn nesesta is used aswed It to lamp out the os cellations. We found that the signal is less than 0,2 ms. approvedly the out put is large compared to our old 18 KH The system. The array will be mounted by metal danifes with a weight of the bow and Then a refue at the sterm will be used to trum the operation, TRANSMITTER I RECEIVER. the use of 6 units - 4 brans mitt with 2 receivers gives about 50% more outjust into the receiver, of the lyna metron co in salil. This was a visit of min Rolly of the lyna hetri co in selif. This group are making a liquid filled carriers - I with stand the pressure, The lens was made of high mader glass and felled with pure water the fell film must be wet before bling motelled

Jan 28. 1976 Howard algertur Bill War Roberts. 12 Kc massa Tonar massa 867509 4029 30° × 180° 50 Beam conseas 071000 By Brank Justin 1/22/76 (C) MASSA CIMZ 1.2 Portled ,8 Terries .8 one. · 8 center domes 2 and side in series as receive. 1.4 grahtspeak Singer veriner 2/5 ms dinstin. 3 cycles of 12 KC. 14 ms duration. 0,25 ms 200-50,000 10215 0.T.C. A21 50-500 oluns at end of 25'# 16 cable to recorder PC01 8.88 ches Finkel Stein clear and Stook the new 3 clament 12 KC marsa mud fanchalia to the pool. It worked fine in the laborating -but was u. G. in the pool. as soon as it hit the water the timing usoes are too soon all by the same amount. Jan 31 1976. Lecture last night in 10-250 (41Ton Photosur Joch hers harling Klarigand

Chas Wydroff gave excellent lesture then I showed an elapsed teme worie Rines followed plus thris me your Blonder Civilist wife and 2 alueland Then we went & all faculty dul34 Jan 31,1976 Harvel Esquitor. Fast shutter (vincent) with fire evadier. contact about I "away. microfiest at I flavory Plus x film levelfred to minis Exposure Eline 2 plots of fire Vincent Sport shutter Stolosone låte is it dike to the delay in The shutler, Repeat - send result. Explosion late. Poperin air Forh news Riots equip. Conformence on Lisman, cambridge England. 10 am. meeting in 4-402. martin, Braham . Findon Ichool Bob Rives Jerry Litvin Toloman Dank food cliain. dins me hoven Bob. needleman Chas Wy droft. MIT Senbefah Bill near Roberts Hawre Edgerton chas milles Blonder. ROM (TAAS) - Klein multisment (TAAS) - Honer allen Dilles pie Peter Scott. Klein - High Refinition Donor will be left there. arguart Bay, access to Home Sonargates, Rent Boat Amse Jacilities Kind own Boat House (Power is to be installed Faurence T Bussey menzies (land owner) Al , cound USN Rent organe Barn for security. U.S. Deft of commerci 2 Books 22'outbank Cabin 2 people net o cear & adm adm To mooning on ledge. Roch well med 20852. 20 Jan 1976. wroll to Rives - cooperature.

T.V. Chas miller will give nepont.



38 Feb. 3, 1916 Hand Syntan you shatter. 26 L18 A12 x 5 uniblity Shutter 5/2 595 with synch contail. Jense ROLYN R-122 mm to 132 mm able to power supply! Shipped 1-20/16. Vincent associates 1285 university one Rochester uy. 14609. 75 5306 Invoice 716 473 - 2232 mano, all the fire enclor pliotos one late since the shutter neger , mstoopen, See page 36. 1 The exposure is about night forther flame at I mos for this fire cooler, novie of Sun from 1 28 Believing of Beeg ? 1417 File 3 3 secondanterral for picts.
f 22 Two 86 filters in series note Exposurseus & be oh. Suy till ex poses for 31 5.45 with 1,000 are exp f 11 Plus X. X 1 felter ? 525 30 35 45 50 Jun set.

4-402 10,30 conform Fab + 1976 39 50 Wallse H. Sugston Present - 2000 photos 16 mm f 1, Tangenery Bl. River Clear Wyder 35 mm Benttos 372 asman. Bill nochote Sew Raymond (16 mm avalle Can Harguarde. das miller. Brug white. 3 sec min ain. 1600 place grape STROBE SUUTRA SSD E 6.31 1005 4345 81514

38 Feb. 3, 1976 Havel Egola to shutter. 26 L18 A12 x 5 uniblity Shutter 5/N with synch contact. Lense ROLYN R-122 mm to 132 mm STROBE SOUTHE VALUE UNIT DREGERTAL RESULSTS STITE CONTACT SSD-360 YEV PENG 2.24 9.80 1/2A SB 555 100 TIMEN REP PULSEDUT + BY WHEN SHUTTER OPENS 9.3 120 75-5316 1/12/73

4-402 10,30 composer. Fab 4 1976 39 Present - 2000 photos 16 mm 50 wattra H. Sygoton Bob Rives 35 mm Beultros 372 agentino. 100 wall soc Cor Wyder Brill nachola Jan Raymond Lenof 3.5 28 mm (16 mm ova cole. Ders Hargers He. dras miller 3 sec min Cine, 1600 plistografia Doney whole. new camera (profined.) Polorid Shutter 10 mm Switar Lans. f. 1.6 (cleas miller 4 mm) 417 Done for window. 3 months Decar 35m film Lens 10 mm or (16 mm) or 4 mm film - thin film petus x. D.C. operation. Repth. - 750 ft. (1000) Case commin sacrefur Pixti- un Small X CONTAC mount. (not imputy) clamps, Hose Clambons. Pote 10 min. to) minute. Ita 1800. Cemen 37 4/25 Jelwery. 3 months Thole -7345 Frice - - 4 8500 Feb 6. Idea & suggest to Mal De Mat they put their owners inter lock ness next summer. 100) Blander says he has in I. was realy to go.

The Sun was supposed to be in line with the main corridor of Belg 7 ar 40 1. 7. 1976 Sand Elgerton. 7005. Shotis were mide of the sun notto the 1 ms shutter Hwos Vincent associate. cloudy thatay! Thus & film f 11 (maybe less due to shutter) Density / filter. Photosat 4.36 430 425 55, The sur was practically below the horizon at 4,55 Morizon at 4.33 These were multiflate exposure shots circut p38 Tests of exposure on Pluox film with 5'5D 360 Stutten and fillows Three exposures. "Density O lansety 1. Direct Density 3. Direct Druge of the planest on the film. Exposure about 0. 9 ms. 940 and Time orather fil 1/100 re. Wire contacts dose to side. monflat at I foot. Plus X Jelun 7 mm DK50 Reveloper. Paper out from the fine crecher since 1 ms is the dalay in the shutter. Late. Cloud of fire shown on one rida.

Photo with open shutter to show flame, This fire excharwas a figger. It did not boug, 41 10,07 Open Shutter photo offire cracher. apy a pre exposure was ful on f16 4/2e the film with the shicroflash. The match teret Scritch was Sover photos. also recorded on the open shutter. Thus X 10 min Der. negitives oh. 10 min DK50 flusx. Bird and Seb. 8, 1996. 100 men Drive Cambridge man. Junday aft. Insect Photos Bept 1975 Harvil E. Edgeton. Insect plutography. to phen Dallor. Patrick Boron & brought their in Idea. Use crossed beauts and photo trips to define an area in focus with the camera, any subject in This area cousing a I coincidence will fire a high speed shutter and a slobble with the x costact. Then a strong light at night will attoract directe sensetier one volume, he will fire the shuller and light, population of usects that orbit and be exposed lamp at night. This should be of the invest, the pleating photographes of the invest, around lamps. Festiates they could be photo graphed in this way also. 18 dow rewind and a film counter. field use with water profocovers etc.

I took the 259 EGGG Side Scan to Boston Fight chip Buoy on Feb. 16 months of afternoon our the BLOB CAIR. We were trying to find the Staking which was lost several years ago. It is may opinion that we did not find it, There were some rocks but not big everyth. Perhaps the ship has broken up so that is cannot be seen.

However, I believe that the ship is somewhere else.

We must took further,

I that a plane call from West fort man yester tany
from John Dolan. Down evidence has come in anthe beaute
See west fort search of august prand 3 for books around.

I think folm said the Boose beny Island aren is
of interest to us for further search.

Feb 22.76. I was it Harrestonin yesterlang at 2-3 to tech to the Physics students. They wanted to know about this and how it was started.

> Chas Finhelstein and ches. Arch the 259 Elde Side sean to Boston Tight Ship Buon B yesterley to look for the Sea Kity, They think then found it in 105 ft of water at the spot shown on the chart. They were on the Blue Clipwith Walley Handette.

Colypso Scholule. New 21 - May 16 May 26 - July 24 Oney 20 - Nov-.?

Tantonin Thera, Crete. PISHA DIHA. 6 mile with, Le panto

Parviz Babou
39 Hubingerst.
New Haven, Conn. 06511
tel: (203) 3877441

Susan Schultz Dapxott 15 Hallets In Dalmouth, MA 02540 617-548-6477 office 997-9321, X332

ani S.W. Wess.

Lecture to students of uni Sw. mass Demonstration of Sonar.

Murde 8,1976 Monday. Daniel Edgertin.

Returned last right on Alta for the south Hickory u.c. where Ester and I spent one desjutto our dangeter thoughon. Chas, Bill for, Tyndon, Twong some, Ellen were allhane, Left In Fob 27 for Washington. Visited n. G. Soziety. sel Flatche was given into on the Vencout Shoutter. Turs meden, judge, etc consulted. Proque was home sich. afternoon plane to Tampa. Weekend with margaret and Bot Robinson Some sita Fla Danwale Keg. Sunday aft to Vero Beach - Influored un. for 3 days while working with Fruit on the Dea Dever, We went section tuesday Fran 2 of look for a clion and conclior, The drain gave a good signal 100 meters away, The ander was either buriefor had been pertruit probed up, I could not find it. Wed near to, I went to Born Laton and worked with mor allester on a sleely of the reafs. We had 4 ft waves but still worked in a smal boat, Results were oh but could have been bellen Visited Du Smill and Fred anderson I Hydri furrerys It tanderdale on the 5th. Also E.G. & G. Tho Thacker plione of outer. was home sich. Yoder was in the new storage and. Rolling was at the

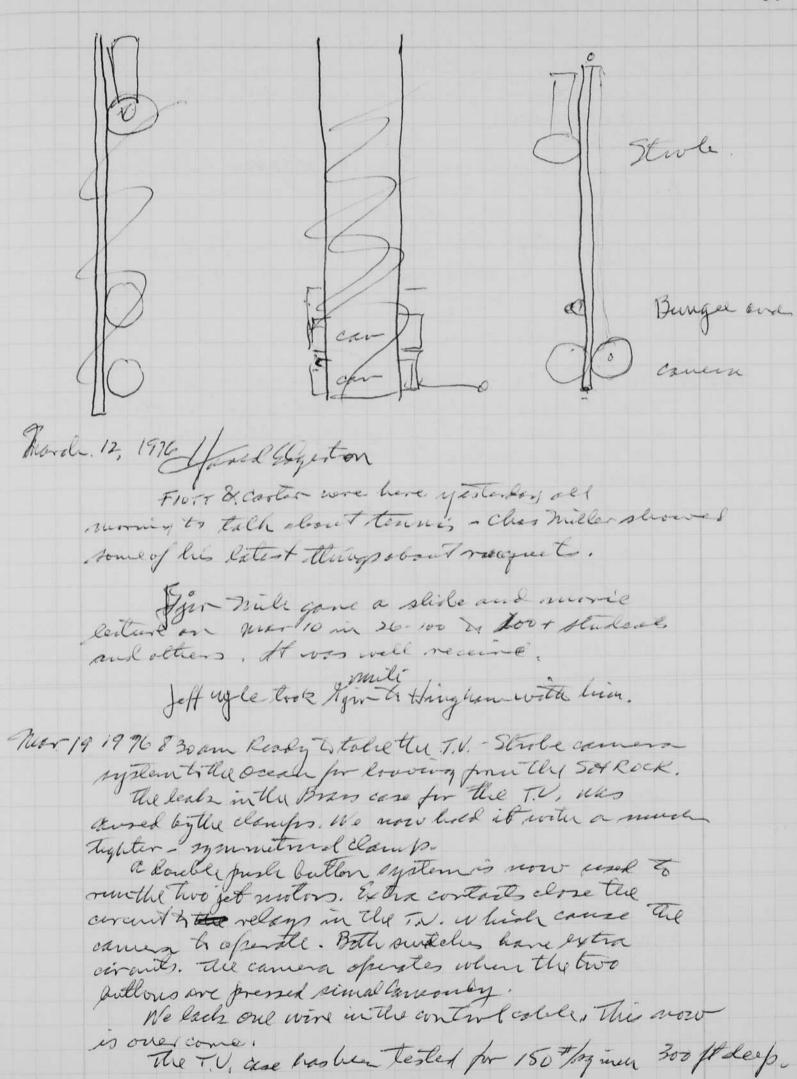
way can peter area. on In more, Iwent to sea at Jan exitte JOHNSON to less the side sean witte the submerine It could be seen at 750 feel away. The weather was 4 or 5, I weed about 20 miles of coble or

The fish.

44 March 91976 Hand System Fool ness meeting. chas miller, Homes Edgerton. English people want to help. Icolt his tim people. Boat for expensed. Mengies - owns property at temple Pris Torbed up Bort at the pier, Electricaly 200 50 agrees. 25 ft from the water 2 Boat house. Sony may donate sour equipment. Committee - musicum - support. Chris Mc Howan - Zoi program Sampling. Soner Survey Project, may noteone). Dr. Tucker Birmingham atings ? uni Fundan. ? (mesowan). Buccavan Sterling lin. Gustale. Wystroff - Drok Room Audekintosh, Borkon neighbor T.V. salesman noney available in England them Science. Tuesdo pours Jug - direction finder on camera current flow miter. Sover triggerd camera closed to system for day light

Hereo in 16 mm for meas. (2,0, Stug) Jame control for both, 10 5 hus. 100 wall - 15 sec. 15 ghows ac to fourt. Lamps 180 W5. 1. Cowerform Bat & 11000 (600)
(Beloption) 2. Cable 110 volt grounded with the Fight to the Brat dinat stin & my 5 Exposure counter. 76 rec 12 hours. 6 hour - 10 seconds. 15) 9 hour. 45. Eletra Decime O Pines Relad camera make simple 100 ilms. 1100-600 volt supply. 2) Cameras 10 mm; bish ? fortwo. (3) 450 cable Shield Muchintonen. (4) Ballenis.

46 Dolight Silhoutle. Polorid Shutters. motors, 3 hours 180 stine 180 1600 100 ft, 16/jt 1600 f & system. 32 660 Benthos. Sans Raymond Purchase order 9000. Triggred model o. Gentlers Come TV. Fyslem. Hole. T. V. System -- Recurder Fush button 500 fl calle. motion Retection. Frame Comiter, O. T.V. Camera.



48 Havel Typeter MIT 4-405 Strole Fal John Fatherolo of Polaroid cause in Hays ogo to fit a 5x 10 shutterts our 35 mm continuous film carners for sil houstle photography using the sun. The assembly was brough in yesterday using a Augeniaux Lens # 1177 464 Retrofocus R21 f 10 mm f 1. s. a circuit was fact on the break to possite the shuller

+6 1+ \frac{1}{2} golden THINK, John Fatterofs 864-6000 3947 Black Mar 24, 1976. The T.V. - strobe U.W. camera system that is being developed for that monther study and others was tasted at 45' off Broy Rexio Contract of the Contract of th outside of Boston Horbor Dear ideal light yesterlay. Inst we had leaks at 6 ft in the horbor off the agranim. Our new look detection corned well. This leah detector consessof a paper towel between brass plates, Whenthe towel soaks up water if the bittom of the container at produces a low impedence circuit which is put in parallel with the T.V. Video segual. If the video stops - pull of the owner because a bah has occural. We removed the T.V. carriera and some of the metal braces which we think caused a distrition of the case. de new paper was fout in the leak successful. Then we went to Bury 10 and made several exposures with the armen an angle at several heights abone the lotton, all were made in H.S. Thetrachome at fl 15 meters on scale, Imm pishous lus

T.V. Carrera. Mar 24 1976 Wines to TV and Strobe. 1. Coax with ground · (or 2 wines). Video signal. 2 110 voet 60 cycle power common hot side 4. Promp Right 5 Pump Jeft. 6. comera start. 110 to relay (or direct to camera). 7 Famp. 100 not spot light. & Leak detector (in TV) on obumiter. and/or Vidor signal 30 quine (9) conductors. minimum. Video and 7 wars ante wicking wire. Wireventand 4.09 ohus/1000 ft. 6 auch 2,58 1.62 6.625 = .065 t/2 ratio for schedule 80" fran Hordligdela p = 5000 psi (10,000 feet). for 55 304 Pipe. Sainles steel. pipe. Telubule 80 pipe maybe two writes are needed for the rolog that fire the carrent. The use of a common wine man sause problems duets resistant drop. The grand on the T.V. signal conduce used so a return execut.





Surant Johnson

Rogers

Rugalist 1 4.1976 Harris Edgotor Facts. 1. Surtial lass of equip Free Rem 15-20 role gone at learn - gone - burn and every their to the south ? What did summe the carriers.

2. River manter 30' deep. - Heavy wound. Equipment lever knowled over. this took a lot of force Something kurded it on

all photos look behind. no clewson phots,

3. ang: 72 15-20 seconds. on Bottom for Book: camera 135 about.

> Flipper pictures and Sonar Records. & hour - animals in area. I hour. 120-140 ft. Did not come close to sonar. above and below Mel camera. the attractant? It the footing light Will a continuous light brigther animals in?

4 Sunner of 1975 1.2 min flash sole. He ft below Sonar. Rines believes The sonar has no effect on the annual. Some thing is banking the camera. Head picture comes now. 5 Oct 1975. Fure light - Jone contacts in the anen. 8 or 10 frames of contact, June lamp 15 ft of the Dem of Bost.





Swart Johnson"

Rogers

4.1976 Harris Edgerton Facts. 1. Initial less of squep Free Run 15-20 rate norman Few frish. Durle-8 pm - oh at mid nge gone at learn - gone - burn , and every there title south ? What did some the carriers. all photos look behind. no clewson phots, 2. River manter 30' deep. - Heavy would. no sover 15-20 sec. Egrip Amen Leave bearded over. this took a lot of force Something knowled of one 3. ang: 72 15-20 seconds. on Bottom for Box: camera 135 about. Flipper pictures and Jonar Records. I hour - animals in area. I have. 120-140 ft. Did not come close to sonar. above und below the samua. Me altraitant? Will a continuous light brigther animals in? 4 Sunner of 1975 1.2 min flash rate. Ho ft below Sonar. Rine believes The sonar has no effect on the annual. Something is banking the camera. Head picture comes now.

5 Oct 1975. Fure light - Some contact in the anen. 8 or 10 frances of contact. June lamp 15 ft of the Dem of Bost. 54 Conclusions. april 4, 1976.

A. Flashing light is the lune.

1972 - animals seem to go out of range. Dearle light. Sovar shows animal returning. This was done 3 time. Then hig worse causel end?

Squefment

1. At will get DC-AC conversion equip.

2. Splapsed kind me worders.

Javelin JXL. 400

Samue ETR 1200

Motion deteston.

Tapes.

Rues & Blooder will

equine one neconder. 600 110.

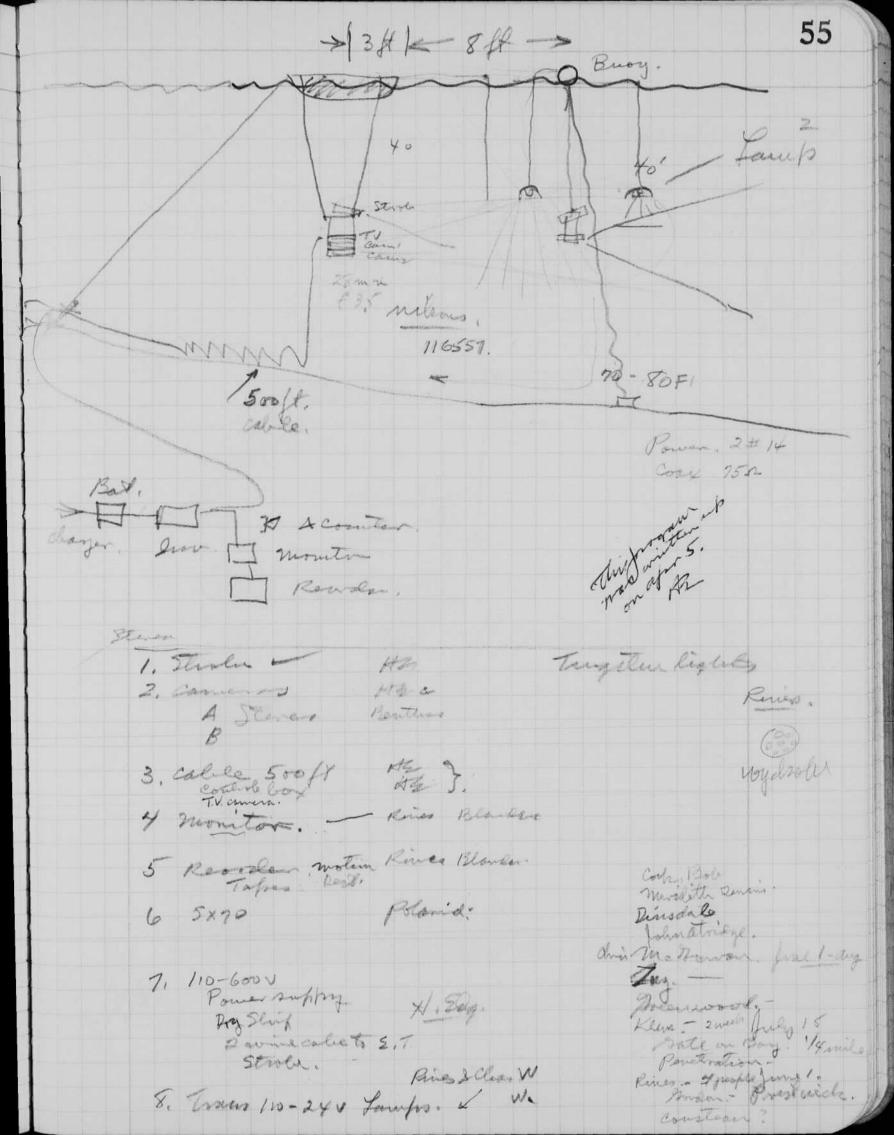
" Tustion Dext.

" Japes

" Tapes
" There parts.

3. Comes South & miller. 4. cable - order 5 ouft.

Lord morn.



56 april 8 1976 \$1. Eller Tor STEREO POIAROID Comera Polaroid cable of plus coop Batters for Tholes 150 watt famp bulls.

And 101976 4. 405 MIT Strobe Fol Sot. 57 Havel Dentre Bel near Roberts helped me remout 2 morsa 5 KH transduces for use with the 259 Elde Side Scan There were montes in a word frame by danfing their about mid way. Must 297 8 We could see the ceiling with broughin 1000 with high infrit. a 5 ohn resestor was ful across the receiver friely marsa to reduce the The reiling schools short in time of estimate 20 CMAIR ADD Beam. Durstin. (or c. Smeler in water) themitis now really for the water lesto in the Boston Herbar.

56 april 8 1996 \$1. Elyster 10 36 No 3650 POLAROIO Comera Polaroid. call quin oray Batteres for Thirle 150 watt famp bulls.

Anil 101996 4-405 MIT Strobe Fol Jot. He is Dont Del near Kobe to belfed me remout 2 morsa 5 KH transduces for use with the 259 ECSE Side Scan, There were mented in a word frame by Miss 3297 8 4 10 / 10 We could see the ceiling with broughin 10 30 with high inspirit. a 5 ohn reserver was ful server to receive friely marra to reduce the The reiling seles looks short in time I estimate 6 MAIR 10 water 1 Beam. Duratur. (or cismiler in with Themitis now ready for the water losto

57

58 april 13 1976 Wand Segeston the they replans net Bon Society. Flotile. On FLETT. Jeu & Des austración I resport lo 10/2. Silver zhel Believes Jayre Flyder Del Brossenon downthe Benett. wes Bellard (book as stree) Called Hers in plane about lection in 78. Experiences in oceanography. Took new mousters and others. Browner said David Boublier of Cristal avere in Datand to chech on the Tool new photography. april 16, 1976 I left at 7.30 for Jairhonen to work the El 44 259 smar on the CORSAIR Caft from the Hattaway 617 996 8221 office Home 617 992 9764 Hattaway Braley whapf Fairliaven was of oceanographers were about . I explained the EG &G 259 and good let each one of them opente it. the Tiexas Tower light in Buggards bay. R 28 300° 54 Worech 1 Defith all angles
Defith approximate.

Filming and Separation Record

 unmounted photograph(s)
 negative strip(s)
 unmounted page(s) (notes, drawings, letters, etc.)

was/were filmed where originally located between page 58 and 59.

Item(s) now housed in accompanying folder.

VS LIGHTSHIP 3/4m 0900T (5°) JINYARD HANT SHIP 1/6 TENN 1 N 13, W LUTHER PO Box 225 F. H. 992-4030

US LIGHTSHIP 1/4m 0900-T n 55 11/0 JINYARD LIGHT SHIP BARLE V N 13, W LUTHER PO Box 225 F. H. 992-4030

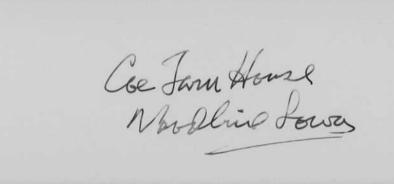
Filming and Separation Record

 unmounted photograph(s)
 negative strip(s)
 unmounted page(s) (notes drawings letters etc.)

was/were filmed where originally located between page 60 and 61.

Item(s) now housed in accompanying folder.





60 Knotoff & Doublier Rines - Edgerton 13:20 april 20,1976 To report experiments of K&D in Scotland Can see 40 ft of 2.8 Light f & 1/15 can see bon ASA 160 f 2.8 at 1/10 natural light. 120'15' Twiter drange what causes the came a & see the boat. 35' Experiments slaw clear photos of 20 -30 ft 世.60-65' light by absorption. Techthically - the problem can be done pluts griphally.
25' about can be seen. Very Encouraging! Kristoff.
Use Sight or sound to attract the animals. Doublier will see lim next week. 1. Continuon light by battery.
2. Floole fire fly stroke.
3. Sound - Take recorder subject?
4. Flood. K&D will work in July august. 857.7471 K. Thehra alternes. secy. Caman trong 1 3 day - call back 22,000 H. Jana instead of meat as hatte bait (august issue) mieste break flatform call back 3 days later. Bob Balland - will make finely bottom study of long not bay for Decom. David Poulder-food chain for the lake. Inc Dowan asst. tweeter Royal news Oltion.

Elein July effert ?. Mc Gowan - Mars as an bottom side sean looking for Bonco.

2. Gatlacross V Boy.

3. Renetration of silt to find rocks. Kalham has detail of sluge.

> Talmon Gros Greenland. 2 types. Let matare.

Rivers Dry up solle salmen and fish mill around the are.

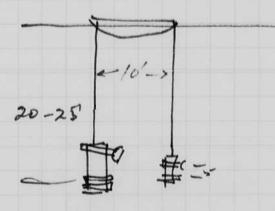
Salum hatchen above im fish lake.

Diver. M. 18' book Trailer Temper lay. 8 people

Brown McKenzie electrical contractor

allan Hunter

MG. 16 mm 3.5 olympos set up for Bentlios.



1/10 sec f 3.5

Conclusions for MIT. 20 ft deep.
Consider 16 mm f 3.5 (2 louses).
al chardle lenses and adapter.
for stereo pair.
Film-Stereo (2475?) pt w Daylight. Color
Kolachome 64. (has more contract).

For M. G. Society - Tab wints to sonor fun Pris (Bril. agua clube Electricia)

from Pris Sels - salum pictures.

April 29 of the Short mark, in water last friday. Put fairly 29 the 25 9 Et Ch Remode. I am profound for the 29 the Land 12 KH ping as to the 29 the Land of the Short of the 29 the English to the 29 the English the Colebrate his retirement from Elds. I have a feel lain a desta fairly from a FT-17 flash lamp of the tiple we made in the World War for Photos Reces. Erward the bassis in seciled a greate from a fapanesse officer meach in morth.

Oh! what can we do now! with his bright blinking eyes streaking across the dark canopy of night, the devil himself has compromised our last and now unfaithful mistress of security.

LAMP FOR
HERB GRIER
MADE FROM
FT-17 LAMP.



Market in the state of the stat

April 28, 1976 8.20 pm oft 11-71. Harred Edgarton 100 mem. Dr. Cambridge hears.

We are still mighty bury with the design, manufacture and testing of equipment to be eased in Lock has thirt summer. See gage 55 for details of the camerand TV. systems. The plan colleger a June, armse in London and Scotland.

Tomorrow at 9, 6 Lleans for miami & work with Roy Mcallister and Duncan matheman at the write of. NUESTA SENDRA DE ATOCHA 82°25' W 24°38'+ morth. Impost and first sinking. Then a hurrican blow if N.W. for several miles.

may 11, 1976 Havel Elyth

Lett for Misni afor 29, met by Mcallester and Quallering , drove to Kong West. The wand was too strong . canalled our attempt to survey ele atocia, Then I went least to Boston on My Ita 1015 pm plane. Esther joined que and we went to Retruit: Bob and Jarriely met as at the airport. We broke brone to conada to see the ferhat pt Pelie. This a bird sandtury and istle simes per of ognala. Then we went to tested Envalue to visit the Max. Bank of com wence oscar charke for Caresu, etc. - May 7 Courses at 2 from to mis part the forms evily on the 4 of may I gave a talk to the Physics class at the Duntra high Televal, Carter was the principal. much Krewer and wather Williams were there in the class, We took the 830? plane to Den ver and Fas Voges for Lincolon. Caesar's Hotel. Pety to Herb Prier at the country Club in For Vegas. The manyor and the Boverna gave spenden. metro! me at the air part. We left the next day at if in

PETTICOAT (Capit nonvan Wood & Wife sturley) for the

marquessa keys and the atodia site, 10 mile west,

For M. G. Society - Tab with to somer franking Bril. agua club Electrica. Im Pris mento Sels - salum pictures.

April 20 goton. Int boot, mare, in water last briday. Put
farrel 20 goton. Into y with 6 KHand 12 KH pingers

into the 25 g Et Dl. Recorder. I am proform

for a tills to key west on the 29 the sery - often

for the 4 or 5 of many Lgoto For Vegas to helps

of the celebrate his retirement from Elefts.

I have muche him a leste famp

for a FT-17 flash lamp of the tiffe we

weed in the World war for Photos Reco.

Eround the base's in scilled a greate for

a fapassesse officer made in morth

Durana in 19443 1943

Oh! what can we do now! with his bright blinking eyes streaking across the dark canopy of night, the devil himself has compromised our last and now unfaithful mistress of security.

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John Mark John M

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may 11,1976 Havel Elgith

Totalenson, drove to King West. The wand was too strong canalled our allempt to survey the atoria, Then I went least to Boston on My

Esther joined one we went to Detroit: Bob out Jaining met as at the airport. We broke from to constant see the Parkat pt Pelie. This a bind sanctury and isthe some of parka.

to visit the chat. Bank of com mence orear charke for Carera etc. "May " Cours at 2 pm to mis paid the forms eville Howard and subserve.

Physics class at My Dantra high Believe Carter, was the principal, much Kremer and wather Williams were there in the classes,

Horb Frier at the Country Club in for Vegas.

The South Low Your and the Country Club in for Vegas.

The many and the Soverna gave spenden. Method.

I fast Low Vegas on the 6 for minner method.

suastillain port, We left the new Kay of in the first word & Wife sturkey) for the war word & Wife sturkey) for the war war word & Wife sturkey) for the west,

Mu Sleft Keywest at 730 on may & Sunday for 64 important, a 6 kH massa pair of transducers were used. Many (10) largers were bringed to envestigation 9 cannows here 19' Der 1 a deep place ! Reeje was found ! in the pub bottom Jun Wil bottom. Ithink this area martin Faul Perhaps the ship Avey 14,1976 Chas Finkelstein and Mc Howar , were in this morning & looks the contract the forth wars.

4-402 Mesy 15,1976 Haved Edgeter. M.1. 4-408 End perox 65 Surface watch. I Black Board outline by Bob Rows 930 weeting. T. Dius dale water home Bol Rines Support. Present u.S. Equanin chas Jukelstein Dec newton. Gillespie SPL (Cal Lust Ted). Dennis Meredite John botterop. Unis Me Gowan chonydrift. Dec hewten Dones Special Studies lender water First Looley Inc. Klein Klein Osstring Mc Soura (ROM,) Voy heuton 2 agertin Impelsen, Hancurtis Thomason (carn. Uni) Raymond (Benthers) milles Jun Mooney. J. Buchanan Stirling Hai. J. atritge mucro dictogy Frann Smithsens Zug. mucholierts. - Blander no Blinker Latterop (Polaroid) mooney elm Willord. (Britmus) Green wood mortinklein Cecadany. Paul Hosefrox Moroard uni. Conoraption mus Conp 2 vol crompton Wystroff plutophon Blander pw. Rins Pavid Jighland council. Ourem. My, Times Wilford (mitchel) Paymer SirPeter Scott: Alleransed Roy madeel greenewton Infor Red Barninghom 1 Press meredite (MITted Roo). officer. Berningham line Watch committee Judge the Matoleo. File for somewhere Europe. The not see wond a low profile. at forhners. (Part of Highland Discusion of n. 4. times program of cooperation. Council). Der James Mc Kay. Hordon mac interde. Terluisal journal all free for sci, papers. to, or stonce t waltere may contribution for not, Times. Joyenes. lostin forthe new location sponsored Exclusion and rights. 24 how lead time. Security: Charlie Wy chroft to heep films 170. - notices. 50/50 bosis 10% expense National Jubings - Septem - English Tex.

menzies Power & water Bon. achuahamit. (Porthy Frazier)

67 Hydreff. talks about summer effort. May-15,1976 Det for 15 serves. Lord Twice a day. Equarium - Jish. Ready to Pack HS. Ekstradum, 28 100 mills. Silhouitte comera. Joens chongel.
changed by Fotterop. Cilibration pleates.
Wires perstru film. 60-65 75-80 Ollus X and HS. Ettracline on 35 mm cameros. 2475 . film, Chris Mic Towar plans for summer.

Klein - Sonar, again at 10 am. Harbarlower 723,9591 Rives. Bollow Turvey. Dedmentation Corning to find out the battom, Bollow Juney of Fuith Sonar Chas, TinkelBlein, experiment 18 Dones. Mannoth, flost .-Gland Bond M.H. 75 meter 35 meter rouge. on Donar. Sovar find things under sea. martin Klein. 300 ft of water to find books in Fahr outera. airpeaus - Thorisa. Bonesoshow as structure. Thodare of cameras to show cameras New Iruall recorder to show Lave lights off. De-AC Tong Ravgerecords can be made in Tack hers Chance for fouling a small object is nearly yen. Heavy weight of oxleles for deep Side Scan. -Jub ballom wents,

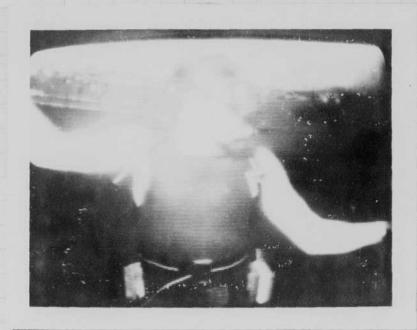
Theo. heuten talks about summer plans. 68 Sefra Ked. Kines pluts of Surface hornse Sufred has in proved greatly 0,1 cel. detect small differentials in temper Hot air coming out of wisting, Tow Emissivity. Justace anditions when the animal, are on the surface. Tala purusning equipment. First trials to be made the year. May 17, 1976 effort, This should be adequate for the job, 230 ft was left intel cut off end. The T.V. camera and control were were all tested and wined up loday. Undroff and I looded the cameras at 6 pm for a nyholitest of the Benthis system. The Polaroid cameras was also testes. I noted that the counters ofserated satisfactorily. Tomorrow we plan to chedited T.V. system with 12 wolf battery power via a Toredo (?) system that gives 60 cycles. Then we plan a run in the aquaring to sheet out the gear for the semmer effort. the lenses on the steres pair and Flower with opproale stops and Both shullers must be open when the true owner of a house is observing a monster, This will be revealed when the shalter finally material consumes 250 watts & Toreals 50:191 1.200118,1976 612-646-2868 50-193 CMOS Oscillation 1068 Raymond and Seatch 230 Himmonfoles winn St Paul 53106

Working on TV and Steverall day for tests in Oquarun 69 Left Jens 100287 Olympus outs fish eye f 3.5 16 mm forelley. Right Fens 10 1830 & Bill at f 3.5. Oless Wychroff 4 mills oft added ten. Focus is o.k. 6 should have been added. may 20, 1976 big T.V. camer. O Jab. aguar comer our water. 66 audiotest 85 Suto Water 1/5 \$ 32 To fil Polovoid 128. Tawlee. 127 mm Spaine mod Suite for T.V. Monter. CUB comera, 213 Plato of File Dim. 1/5-+32 300 261 phisto 276 plats 280 photo 285 photo 290 mis

Neo. heuten tilks about summer places. 68 Sufra Rik. kines filister of Surface hornon Sufred has in proved greatly Orlock Retect small differentials in temper Het air coming out of risting, Tow Sunsmity. Inface our detions when the animals are on the surface. This there, to be made the year. Mocustill cable at 500 ft today for the Johness effort. This should be adequate for the job. 230 ft was May 17, 1976 left intel out off end. The T.V. camera and control were all dested and wined up lokary. undriff and I looded the cameras at 6 pm for a nyhalitest of the Benthos system, The Polavoid carneral was also tested. I noted that the commer operated satisfactority. Tomorrow we plan to chedited T.V. system with 12 woll battery power via a Toredo (?) system that gives 60 cycles. to sheet out the gear for the sens mer effort. the lenses on the stires pair and flower with offervale stops and Both shullers must be open when the true owner of a house is abserving a Monster, This will be revealed when the shalter frustly matering anderes 250 watts & Novealo 50:191 - way 19,1976 612-646-2868 50-193 CMOS Oscillation 1068 Raymond and Sector Himmorpeles minn St Paul 53106

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May 21 1976 70 Harvel Elgerton Test of 250 watt lamp mital Halide fordquarin. Outfort 100 x 62 = 3600 canfile power. 250 watt 20 5 volts. Repple ~ 120 to from lamp. M 250 BD Base Down. 2081 1301 Turn 23. 1976 283 gul a May 23 1976 Kranet NBC News Miac O' Gormand NIBE NEWS NBC NOWS Nich Magalian Fuf 1 / 7/2 3/4/5 11 135 MEWG Flanol FEAN NEWS MAC NEWS 30 BOCKEFFELLER PLAZO NYN/10020 AL PERLMOTTER NBC (212) C1-7-8300, EXT. 2914) ALVIN COPERMAN NBC To ROCKETERIEN PL. WY. 212 (178300 x 4936 Hene 212 8735329 Too miller & flan Pennis mereditata Left Plus x Right H.S. Ek Trademie f3.5 6-10 6-20 Colorvid 35 speal Color 5x70 53/ fet tetween 5 plate will 2 bulls, 5 photos with 1 bull Potarvilouma. Text all ok in U. E. Quann, Stole 8 ft to carmera. none plentin of Dec (Dever) millers mile book.



Dec. Diver in M.S. Agusonin

Polarois photo from the

taby taken with thy

200 with see (2 stroks).

on an RCA T.V. comers

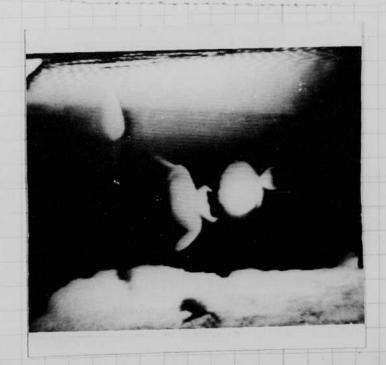
with a Javelin tape Recorder.

Dennis andresko 3964794 3.44,8 archelectular calcalited the sun position for love up with the main trallway thru MIT form Berg 7.

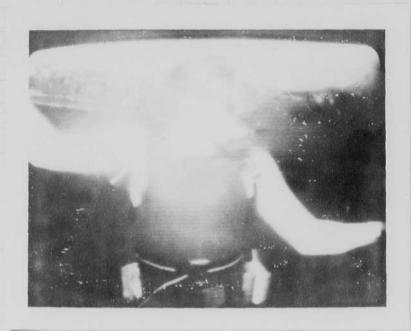
7.921 A. ANDREWHO 3.9918.

971 FELLSWA9 #10 MEDFOFD, 396-4799.





·May 211976 70 Harvel Ergeston Outfint 100 x 62 = 3600 cample power. 250 walt 20 8 volts. Repple on 12010 from laws. 1000 M 250 BD Base Dosum. 2081 1301 Man 23. 1976 . 283 and o May 23 1976 Kranet NBC News Noiae O' Gormand NIBC NEWS Nich magalian NBC NEWS Fufl my gue 1 135 MEWG Non Fland Formy MAC NEWS 30 BOCKEFELLER PLAZO NYV/10020 AL PERLMUTTER NBC (212) C1-7-8300, EXT. 2914) ALVIN COOPERMEN NBC 30 ROCKETEREN PL. M. 212 C178300 X4936 Hone 212 8735329 Too miller & Jean lewnis mereditale Left Plus x Right H. S. Ek Trademus f3.5 6-10 6-00 Colorad 25 speed Color 5x70 53/ fet Letwan 5 plate will 2 dails. 5 photos with I bull Peterrelauma. Test all ok in U.E. Quann, more information in clas Stoll Eft to commerce. millers mile book.



Dec. Diver in U.S. Aguaria

Polaroid photo from the

table taken with the

200 with see (2 stroks).

on an RCA T.V. comers

with a facilin tape Recorder.

Dennis andre Sko 3964799 3.44,8 archelet who adealed at the sun position for land up with the main trellway thru MIT from Beig 7.

7.921 A. ANDREWHO 3.9918.

971 FELLSWAY #10 MEDFOKD, 396.4799.





72 May 24 1976 Thered F. Edgester 4-405. 1 NBC. Olympia om System Suiko ants Fiskaye. 1:3.5 f.16. Legt 100 287 Right 101830. the Benthos cameras by the national Bographine Society by Im Washington may 20,1976. yesterday - no monday - at 10 am & trok in Building? where She has been talsing malin pactures of the tongue action of chamaelso jechnoni and "Bitementius. The uses a St. Strobe at 400 flashers / securd to show the tongue action up to 30 our. a senes of photographis are made on from in a Beneral Radio Camera. The Sinh time is about 1/20 fa seemd. the equipment for the next Joels hers effort was Sterted on Sembry might many 23 in -the grant tank of the M. E. aguarium. all seamed to work fine except the polaroid 5×70 were the to film the required on 16 min for boiliground meterial, a 250 wall metalican lamp was tested Atty gind tach this morning, Massembly was hung blose to del surface with a 10" alimum reflection on the lamp. The first experments were at 6 miches above the water surface, a bright image cast by the reflection was prosent, then the lamp was raund about 3 ft. I prefer this arrangement will the reflective made of your Bob Bonazollis Selem johne wo to John Presents. Tamps are also made in too and 1000 walt signs. The moderate experients have not been tred.

May 29 1976 str 73 # Som Yesterly partiel and shipped 48f on Britainings Sand i 310 F plato to Perestwick Scoreand, wen piùs allet some to make 1975 pouds total. 430,1976 Silhouette plistigately of Pond water from Mt. auton Constry. Joseph pint of water was taken from the orge of the pand-west side. There were many copous, Hydro works ele. scale (max output). I switched it by turning the brown at stower speed - I for pestone flash. Distance about 2 pft & end on veer a 4x5 film 7302 Eastman "fine grain positive" wisused developed 5 mm in 1:10 4 blol. afinal exposure was made on developping tray, when I can of Eigened - the dutice puit vas durped in. There were a few dead leaves ele in the lot, I ded spot some copapores in the plisto. July 15,1976. The above photographes were made by pouring the water with the subjects directly outs the negotive film in a tray (Farman 7302). There may be some brological problems since the water is absorbed by the film and there may be a charge of pt. celepline larger between the water and the fiem. In this way the frem will be breft dry and the liquid will not be charged by the emulsion

74 July 15 1976 Harril E. Sogeton 100 mem Dr. Cambridge man apt 11-74, 11-64, we have been since June 1. Our task was to help Bob Rines in his effort to photograph the Foch news monster. nee of our group were based at Drumma drachit which is about 1/3 of the way fruithe north, and on the west side. Rives has a cottage where he, cand and Justice (2) live, We stayed with Bordon machintosh Vin TYCHAT, The housetothe west of the Peines cottage. our operations were based at Temple free a stone pier just down the hill from TYCHAT. a chitex (portable house) was availible to us there. Fater a command Post trailer (formerly a restaurant) uns made available to us. This was installer on the pier (\$12 a week) of the main sport was to get good plutos of the annuals, Inthis we failed. I believe it was due to the failure of the sprimals to come to the carriers view. The bosic carrierslamp was the 16 mm Defraed time unit that River has used since 1970. During this semme at least 60,000 ex posures were made, fall in the summer, Wychreff noted 2 salmon and an sel (?) on the a frair of Beathos deep sea cameras and strobe a poloroid with feasiabulls, and a T.V. monitor were monted or a frame (mistrut) to photograph the Elapsed line camera mentioned above. all of this was located 15 feet away for the Elafored Trive carriera (570) buttons had control of the stroke and poloroid rameros. after a month (none or lass) of no action, 2 arranged a soner side seam beaus to intersect the carriers. The latal range was too meters with the camera a 40 & 60. In this very a watch can be made of any object going who the beam Coverage was made from 2 width, also the other side of the EGG 59 fish us removed and placed in a position to create a horizontal 2° beam, Then double information was obtained, attached to this swee book in a

summary of the results as measured from the EGAL type 259
recorder vising side sean somer beamed at the samera setup. The HUNTER (60 mites)
was used first - then the Barge some 110 metans true shows.

- HAROLD EXILERAN

LOCH NESS

10

SIGNAL	2000		TEMPLE PIER 1996	
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			Bines	
			BARGE MODRING	
		-	- Moveo	

74 July 15 1976 Haroll E. Sogotor 100 mem Dr. Cambridge man apt 11-74, 11-64, we have been since June 1. Our task was to help Bob Rines in his effort to photograph the Foch news monster. all of our group were based at Drummadrachit which is about 1/3 of the way fruithe north, and on the west side. Rives has a cottage where he, can and justice (2) live, We stayed with Borkon mackintosh Vin THICHAT, the house to the west of the Peines cottage, our operations were based at Temple free a stool frier just down the hill from TVCHAT. there. Tater a comward Post trailer (formerly a restaurant) us made available to us. This was installed on the pier (\$12 a week)
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LOCH NESS

10

SIGNAL	DuPATIO	, w	THROLD EXILIETON TEMPLE PIER LOCHNESS 1996	
WITH	DURATION VERT. HOR.		COMMENTS	
ERS 1	MINO	TES		
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74 July 15 1976 Harril E. Sogoton 100 mem Dr. Cambridge man apt 11-74, 11-64, I returned yesterday with Esther fr. we have been since June 1. Our task Bob Rines in his effort to plotograp monster. all of our group were boo Drumna drochit which is about 1/2 fronthe north, and on the west Rives has a cottage where he, can live, We stayed with Fordon mack TYCEAT, the bouse to the west of the our operations were based at a stone frier just down the hill , a chotes (portable house) was a there. Fater a command fost trailer restaurant) uns mude available to un installed on the pier (212 a week) of the annuals, Inthis we for it was due to the failure of the con 152 to the camera view. The bosic lamp was the 16 mm Elafssed time Rives has used since 1970. During the at least 60,000 ex posures were mide, summer, Wychreff noted 2 salmon and an films. a frair of Benthos deep sea comers a polovoid with feastabulles, and a T.V. monted or a frame (mistrut) to Elapsed line cancers mentioned als was located 15 feet away for the Elafored with a cable back to the cliket, a fun bettons had control of the stroke and after a month (more or less) of a arranged a soner side seam i intersect the carrier. The total range was 200 meters with the camera 40 & 60. In this any a watch can be made of any object going who the beam Coverage was made from 2° width, also the other side of the BG6 \$59 fish us removed and placed in a position to create a horizontal 2° beam. Then double information was obtained, attached to this swee book in a

summary of the results as measured from the EGG type 259 recorder using side sean sonar beamed at the same setup. The Henrie (50 meters) was used first - then the Barge some 110 metars true showe.

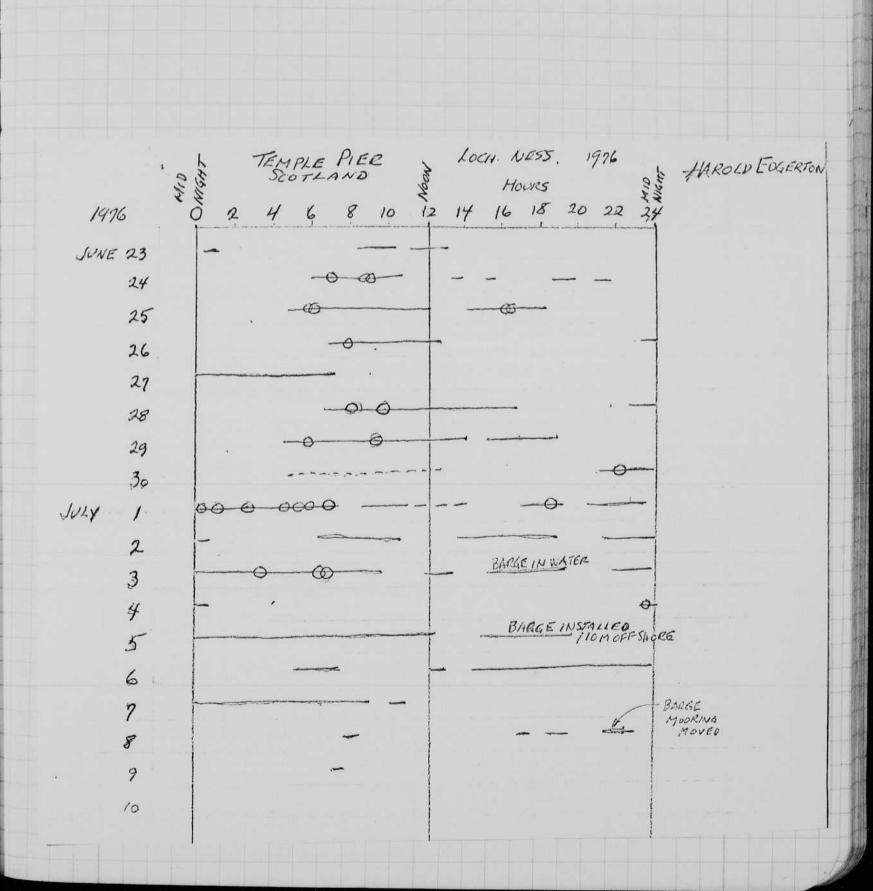
TEMPLE PIER 1976 LOCH NESS CAMERA SIGNAL DURATION COMMENTS. HOR. WITTH TIME DIST VERT. DATE MINATES 1976 MEVERS NO TARGETS JUNE 23 0.3 65 2 DOUBLE 0718 24 0.5 08:52 3 120 24 0.3 2 125 08:56 24 0.3 2 75 05:08 25 0.5 05:21 130 25 145 16.02 1608 120 08.01 9 0.5 70 26 27 4 0.5 135 28 07.51 0.3 75 28 07.57 0.1 DOUBLE 28 52 / 09.32 2 2 35 0.5,07 29 0.7 2 175 09:11 Strong signal 7 3 1 22.44 80 30 1 15 2 / 0.14 JULY 1.3 1.3 40 01.16 0.5 0.3 / 32.5 02.56 0.25 2 2,5 72 04.45 I filaments. 3,0 0.5 10 05.15 110 2,0 2 0.3 58 05:48 5, 3 0.5 2 90 06:50 NO TARGETS JULY 0.5 0.1 50 1 03.27 3. 120 .2 06,00 .5 6.56 10 2 1.5 75 .4 4 23,13 June frield? 0.7 0.4 20 5 07.28 110 MOFF SHORE Driegt BARGE MODRING 10

74 July 15 1976 Harril E. Sogeton 100 mem Dr. Cambridge man apt 11-74, 11-64, we have been since June 1. Our task Bob Rines in his effort to photograp monster. all of our group were bas Drumna drochit which is about 1/2 fronthe worth, and on the west Rives has a college where he, can live, We stayed with Bordon much TYCEAT, the bouseto the west of the 1 our operations were based at a stone frier just down the hill y a chotest (portable house) was a there. Fater a commont Post trailer restaurant) us mude available to u installed on the pier (\$12 & week) The main effort was to get go of the annuals, Inthis we for it was due to the failure of the ani to the carners view. The basic 152 lamp was the 16 mm Elafs sed time River has used since 1970. During the at least 60,000 ex posures were mide, summer, Wychreff noted 2 salmon and an films. a frair of Beathos deep sea camers a poloroid with feasiabulles, and a T.V. monted or a frame (mistrut) to j Elafred Time camera mentioned als was located 15 feel away for the Elafored with a cable both to the clinet, a fun bettons had control of the stroke and after a month (numer less) of s arranged a soner side lear 1 intersect the comero. The latal range was Too meters with the camera 40 to 60. In this my a watch can be made of any object going who the beam. Coverage was made from 2 width, also the other side of the BGG 354 fish us removed and placed in a position to create a horizontal 2° beam. Then double information was obtained, attached to this swee book in a

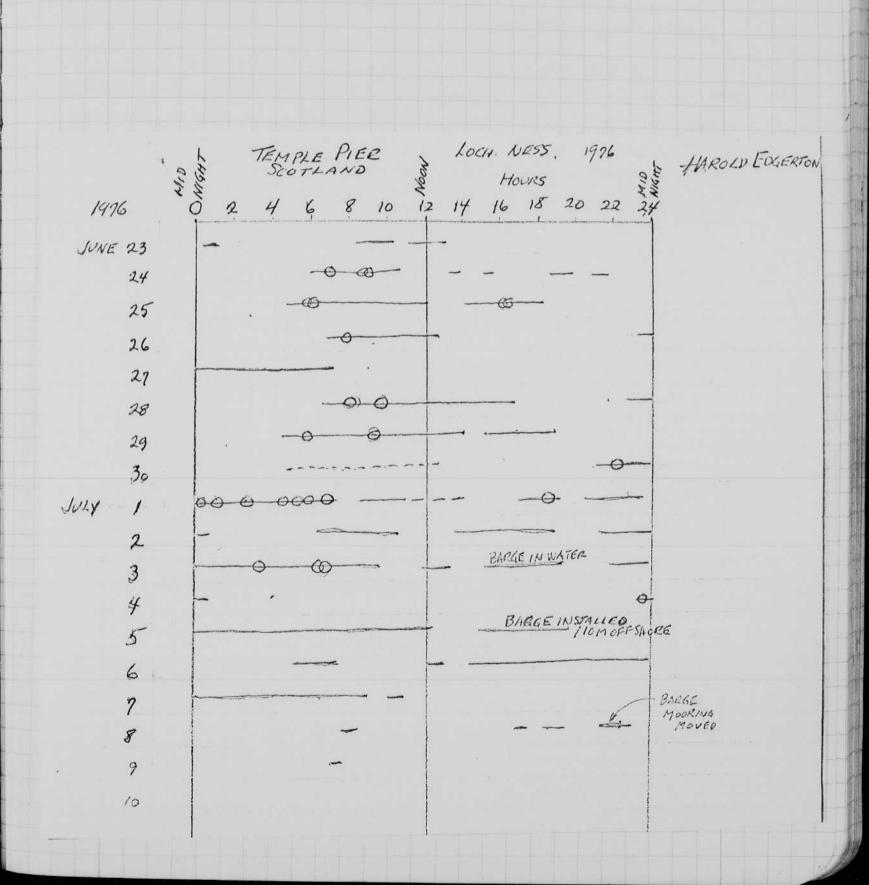
summary of the results as measured from the EGG type 259 recorder using side sean soner beamed at the same solup. The Henter (50 miles) was used first - then the Barge some 110 metas true shone.

THEOLD EMERTON 1976 LOCH NESS CAMERA SIGNAL DURATION HOR. COMMENTS. WICTH TIME DIST VERT. DATE MINGTES MEVERS 1976 NO TARGETS 23 JUNE 0.3 DOUBLE 65 2 0718 24 0.5 120 3 08:52 24 2 0.3 125 08:56 24 0.3 2 75 05:08 25 0.5 130 05:21 25 16.02 145 25 1608 120 9 08.01 0.5 70 26 27 4 0.5 135 28 07.51 0.3 75 4 28 07.57 DOUBLE 0.1 / 28 52 09.32 2 2 35 29 05,07 2 0.7 175 09:11 25 Strong signal 7 3 1 22.44 80 30 1 15 2 / 0.14 JULY 1.3 1.3 40 01.16 0.5 0.3 1 32.5 02.56 0.25 2.5 2 72 04.45 I filaments. 3.0 0.5 10 05.15 110 2,0 2 0.3 58 05:48 5, 3 0.5 90 2 06:50 NO TARGETS JULY 0.5 0.1 50 1 03.27 3. ,2 06,00 120 1 .5 6.56 10 / 2 .4 1.5 75 4 23,13 Teneral frien? 0.7 0.4 20 5 07.28 DHEGI 110MOFF SHORE 5 BARGE MODRING MOVED 10

74 July 15 1976 Harril E. Dogston 100 mem Dr. Cambridge man apt 11-74, 11-64, I returned yesterday with Esther from Dootland where we have been since June 1. Our task was to help Bob Rines in his effort to photograph the Foch ness monster. all of our group were based at Drumma drachit which is about 1/3 of the way fromthe north, and on the west side. Rives has a cottage where he, cand and justice (2) live, We stayed with Fordon mackintosh Vin THICHAT, the housetothe west of the Peines college. our operations were based at Temple free a stone frier just down the hell from TYCHAT. a chitesir (portablehouse) was availible to us there. Fater a command fost trailer (formerly a restaurant) us mude available to us. This was installed on the pier (\$12 a week) of the main sport was to get good plutos of the annuals, Inthis we failed. I believe it was due to the failure of the assimals to came to the carners view. The bosic carners lamp was the 16 mm Elafsad time mint that Rives has used since 1970. During this semme at least 60,000 ex posures were made, Lite in the summer, Wycheff noted 2 solmon and an sel (?) on the films. a frair of Beathos deep sea cameras and strobe a polovoid with feasiabulbs, and a T.V. monitor were monted or a frame (mistrut) to photograph the Elapsed limb camera mentionedatore, all of this was located 15 feet away for the Elafred Time camera (5TC) buttons had control of the stroke and poloroid rameros. after a month (none or loss) of no astron, 2 ansiged a sonor side lean beans to intersect the comero. The total range was too milers with the camera 40 to 60. In this very a watch can be made of any object going who the beam Coverage was made Tow surface to the bottom with about a 2 width, also the other side of the EGG 54 Jish was removed and placed in a position to create a horizontal 2° beam, Then double infination was obtained, attached to this swee book in a



74 July 15 1976 Harril E. Degeton 100 mem Dr. Cambridge man apt 11-74, 11-64, I returned yesterday with Esther from Jost Cand where we have been since June 1. Our task was to help Bob Rines in his effort to photograph the toch ness monster. all of our group were based at Drumma drochit which is about 1/3 of the way fruthe north, and on the west side. Rives has a cottage when he, cand and fustoce (2) live, We stayed with Bordon mackintosh Vin THICEIAT, the bouseto the west of the Penes collage. our operations were based at Temple free a stool frier just down the hell from TVCHAT. a chitesi (portablehouse) was availible to us there, Fater a command Post trailer (formerly a restaurant) us made available to us. This was installed on the pres (\$12 a week) of the main effort was to get good plustos it was due to the failure of the assimals to come to the carners view. The bosic carners lamp was the 16 mm Elafsaed time mint that Rives has used sind 1970. During this semme at least 60,000 ex posures were made, Lite in the summer, Wychieff noted 2 selmon and an ell?) on the films. a frair of Beathos deep sea cameras and stroke a poloroid with feastabulls, and a T.V. monitor were monted or a frame (mistrut) to photographe the Elapsed line camera mentioned above. Ell of luis was located 15 feet away for the Elefred Time camera (ETC) buttons had control of the stroke and potonist rameres, after a month (numer lass) of no action, 2 arranged a sover side seam beaute intersect the come or the total range was Too miters with the camera 40 to 60. In this my a watch can be made of any object going who the beam. Coverage was made 2° width, alsothe offer in ally about a 2 width, also the other side of the EGG 59 Jish was removed and placed in a position to create a horizontal 2° beam, Then double infinition was obtained, attached to this swee book in a



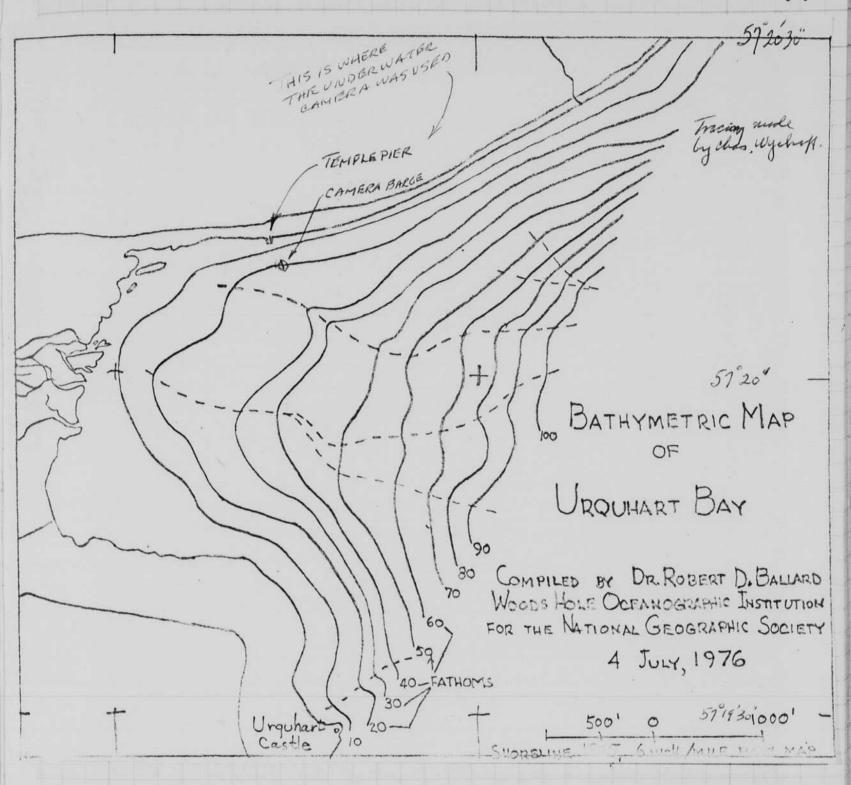
Ellerard L left Tydeat Inimmatrodial Frotend on July 14 1996
We drove our resiled avis ear, a Vauxball, to Inverses to
cotal the 730 plane (Britainays) to Forder, Then we took
a 747 far american to Boston. Doublier of the 22. Leo was
on the Inveners to forder flight, also Emory Kristofer who
was to pich up some new electronies for the suito
mustice somer triggers camera that was to be
installed to the NE of our camera Bonge see p ??
for the Barge breation.

In stop for some sightings after the brogge was put into the water, I wonder if the preservative paint on the wood may have poluted the water. The total observation limb associated with aslien.

my savar was fulled out of the permanent position on and sustabled on the Hunter which was now freed from its anchorage after the carrier gear habbeen transferred to the Borge.

One expensed was made in mid lake with side scan set for 200 meters. The ship was stationary, I trong into milter x signals were received which probably were multiple town neconds from ser shore telioes. I did not see any signal that I could identify as animals, this expensent needs to be repeated.

Jukelstein found the rings. Two suns were made so that an approximat location of the many circles could be russe.



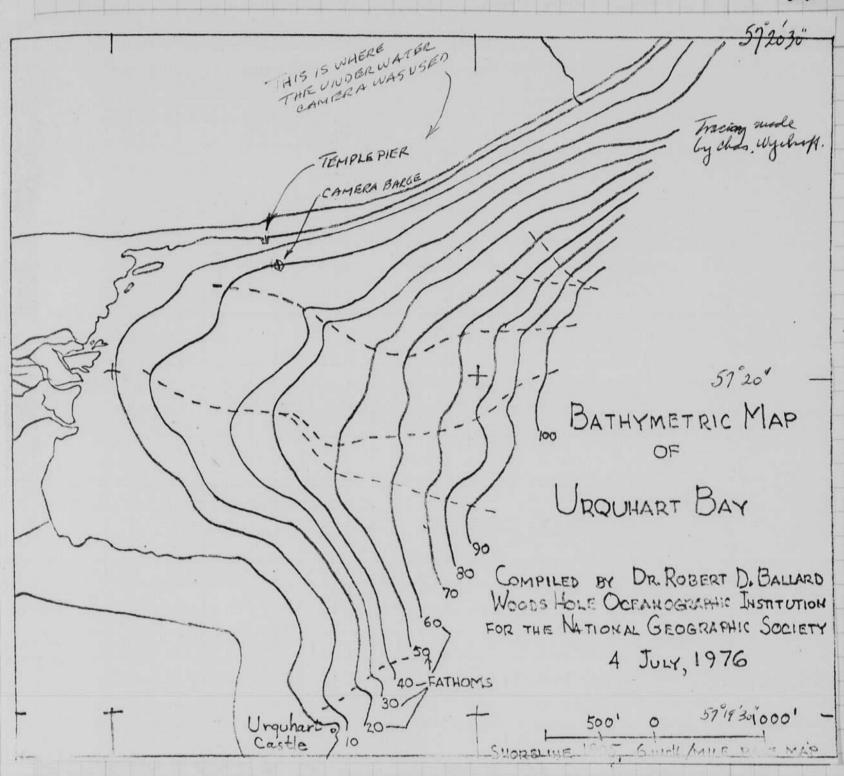
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78 fight outfirst Ben Rob. 1539 A HIGH De Ce with Reflector

July 176 Beach light 2×10. 2.2×106 cp. 0110 point Reflector

2.5 ×156 × 2.75

110

0.275 = BCP5. 200 / min.

Strobotac 1531 1.5 × 106

AB 245 43. 2.5 × 106 Beecon for aword 0.0,5 x 8 = .0x4 x 10 volts. peak light. 30 x.04 = 12 c.p.s. 1539 A on Haye at 200/ min 2.2x.05 = \$110 x10+6 2,5 2.5 ×106 0,275 B.C.P.S. July 21-1830-11 Jet brut 1/3 when are is viewed sideways.

July 21-1830-11 Jet brylie.

30 3 article

aug 1 3 maine aug 1 - 7. Tovonto. 28. Tom Gersma aug 21. WHOR In Johnson. any 15-20 N.C. Tholos made with DR. Famp 30° 0,275× 2 = .02 cps. July 18 1976 110cm = 3.6' 1. Water from clearles River 30 ce out 425"

Flow over Savan wrats.

Fumpat 110 cm from fly 0,25ps, many cooce. whim mony 0-0-00-EHAINS 2. Woterfram 100 men & 20 cc + 20 cc + - some? Saran for 100 men &

X 0.2 c.P.5. 110 cm (XX5 film holder Joce of lepwater. the same leahed? any voy the film was wet, partially, after the Experiment was finished. 45 For ce Chasterer Water in 5x9" Pan with 4x5 felm at ballon. Famps 0,2 at 110 cm. 7302 film Dechlol 1.2 at 6 min. July 21, 1976 Hts. The Box. Stroboslave adapted for silhouette plistography nos sont yesterday to Jeff Wilson Po Box 30113 cloveland blue. The will present the paper in Toronto log to on the silhouette system. Those had difficulty in oblaining prints at magne freations greater than 30, why with do it in stages by making a negative at 30 and then magnety (enlarge) it? 30 x 30 = 900??? Foran C Suternar 101. Bedford mans Lovan Celast. Trink of Bol Rines. Foran ". Improved Foran. Hull College Stone Circles ofthe British Isle.

Jale Min. 1976 Sefot.

Press.

80 July 19 1976. 18:23 Starvel Edgeter 100 memorial Der The Tilanie and the Californian by Peter Padfield the John Day co My. 1966 Edition 62 West \$5 58 mg. 100 36 Borrowed from the bui of circumstr Throng. Toreword by Stanley Tutton Ford son of Capt. Stanley Lord Sutvoluction = 11 pages by Pad field stating that the exidence against capt. Ford was not just and the conclusions by the count Book The Loway Saway Line Wenton Jo Oleham of Ships and men alan Villiers The Lors of the Telanic Sis James Bisset The marconi Scandal Francis Donaldson Africa 46 325 Mons Tous corrected. orig Jame 41° 16' North. 41°46'N Hart museum. 50° 14' west 50° 14 West boots found 50° 01 W Totavia Enthusiasts of america Joseph A corvalho Winchester Mars. 01890 1968. from M.I.T. nartical museum.

81 mly 22 1976 Harred Edgerton unspacked Soner from England and prepared for a plante expedition with somer for tuesday. We will use the Nomy T Boat (new mit research seig) and worth with the M.E. aquarium. Tom Izellet. Chas. magel will help me Bill is surling two nime sellionable lampost 110 our about the film using the Fx-6A camp in the high on the Benkad Slove light. The pulput is about 0,25 e.ps. with the bare lamp, Trisleyposure nurle et 110 cm on Box fire grain positive film of a town sheet of piper to survey fibers. Dev. Eminutes. March System Sistance measurement. Use of light pulses 0.1 us = 100 ft . D/us = 10 ft .001 = 1ft. Compronise for .01 us 10 feet for crude ustrument. Use two aptical regileurs with sufraged so system can be used in Laylight. Pulse Telescope par

Recini Telescope par

Recini Telescope par

Recini Telescope par

Controlled Selection of MRROR. The Selection of MRROR. The Selection of MRROR. The Selection of Sele

Measure hime between sent out receive pulses.

82 aug & 1976 Hance Elgoton Catchup on attivities. on Wad July 26 Tom T. Uyenuna and wife my oto + 3 others arrived and stayed at the Good Horse. We had then for quests at our home, also fear surney. I went took constear, Soloman Philanstean and theyer to 14401 for a suceting of the Constance Dociety. Then dinner at the NHOI inthe their trustees. Fre July 30 & took the + Japanese men & Salem -EPETax and El & al Waltham. It the them to the air port on Sunday aug 1 to cater a 130 plane. They all plants attend the conference in Toronto. tues any 3. I went to see on the 424 boat with me Lead, Tom Siller, Patrick, Barron and the capt. We took piet at 2 stations at 90 mites deep off Boston. The T.V. both showed holes in the listlan.

The Today I went to hahart beach with Estern and our grand daughters mine and Sylvanio Edgentin from Parties. Andrew Kay and Duke from Dallas cours & see me loday about strobe pluting raphes. The girls cound fuly 30 and leave on any 5 at 352. We had a grand love with they.

MONITOR. The combined Link sub with newton at Cape Hatters was cancelled by plume by newton on July 30. I talked to Tink on Sat. 31. He was very much put and by the concellation sind he was ready to have said on any 2.

Experimental plestos Strobosland.

1 110 cm 7302 old Laveloper.

2 110 7302 new Diktol 1:2 fm Boller.

3 70 cm 7302 ""

4 110 cm 50427 5min 1:2 Dektol.

Philomerond.

number at sea on

Ship. ###. #24 any 376

Counter.

2MIT

3,4 on Ship.

1324 in water.

1147

50'deep.

1151 1325 String 50'deep.

1210 1335 on Leels. Oh.

1410 Station 13 Surface Rox 1336 1424 up. 1350 In Rab. ang 4 1350 Fast plate 13.51 Film removed for sending to Rochester. H.S. Ektrachrowne. f 8 1.5 m. Denotions for 424 MIT.

Benchand seat for sonar.

Tamp over chart. Sonar.

Denall Boower & Drive.

Holes for tildown ropes.

T.V. Tungsten light

T.V. system simply

Dark-Windows for T.V.

Lucrease power in

12 KH fairgar for

nume pentintion.

Derek Boodwin 6212 Verne St

Bouthouse Richal Bathesha manyland 20034

Program of Das

Sylvey Wignell. Decca will operate the survey for
the ship. (Forosday cost.)

I week 24hors/day operation.

Poodwin plansts anable a movie.

Mina and Sylvia Education of Pontrase were questo fira hereels of any 5. Billiyon owner In an 6 at 10 an on Eastern from Hickory n.C. via chardotte n.c. 84 aug 6 1976 Harved Evgorton Schouette ghotographen. Strobodlane at 110 mile cen. 1steulongement 50mm leus 1mm = 11mm ×11. 2 nd eulogement 50 mm lens 1 cm = 5.9 cm × 5.9 3rd eulangoment 4"leus. enlargement. 1298 I from in onlangement = 0.179 mm = 1,96 mm. #5. a BillDixon Ceny 1 1976 Schneider - Krongmach Get wan lularger. 12569426 ×10 42.8cm Componen 1:4/50 mm ×5 16.60m (eng 9, 1976 Clear River Water Bill Divon 8x10 7302 film Fine Drain Strolochland st I miles (10 din). Delital 1-2 wither. 3 min Dov. Thows many strings and dot. Timber 8 x 18 tray 1050 375 0 9. Hoo. about 5 mm of water over the filin, Howard or A Crompton 4951724 Jone mange 495 1724 - Rudy Stricker yell Rith Turner 1779 mollows Dept of Birlow Wooloutt 1755 Esbonase Brueding Woolcott 1755

Wooksett

85 Aussel Joraco 1-366,9181 Hynes book (now Brownish). constant Son bulogy? Leslie Shedling Varren Kimbell Fyran Belook mass. Pollection 7273 rd ary 212-820-34/0 Westbors 01581 PO Box 545 243-500-150W algae. wane, 5 Soches. Garral 34,4 So. 427 Jilm is High Definition Still Linefined her nife from The Odor Phillips aug 9, 1976. Raymond. He suggested color 2483 Stetradome (E-4 processing)

High Contrast. note attentity light around the beads? august 10,1976 Hand E. Edgaton I visited BhAG Salam This morning with Bill Dixon my grandson from Hickory U.C. We sawthe tube dept 1. 4. Weter Guald, Dan Ema, 437 - 2000. 437-3202. Hene Covert 3 and Rept short waves. De. 617 262-2746 arthur mitton Harcourt 17 Harcourt ST 23osten 11111 ma 02/16

86 Level Elgerton aug 101976 afternoon. 10 Bill Dixon.

EVGA - I METER. 7302 FILM.

What To KANGEL FX6A - 1 METER. 7302 FILM. 8×10 Sooce Tap water 3 min DEKTOL 1:2. 400 4x5. Photofeon + specimen made larger area

4x5 my Tilm + glass + specimen. Bubble SHOWS ON
1N'NATE 4x5 wet Jilm Photoflow + wetglass + specimens (3FLASA) 6 4x5 Dry file Dry Sees + specimens 3 flacker. " " 2 "
" 'flasse. ? " Dry flan + Walglass + specimens Dixon theory for velocity. Dry neg. + wet glass + sprimers Stything Photoflow + specimen show velocity warks Conclusion, motion requires Blos Plate or thin liquid,

Imp 87 Chang (1 1976 Hagerton Bill Dixon 1. Blotter. Trytogelattimesy of ligaril. 2. Diffuse water + Brul Stormets 1 Dry film 1.2 magers plat Phitoplan + Brine Shimp. 2. 30 cc in 4 x5 tray. Res. & Dev. 3. Foch film I minute before adding Jeff Wilson Carbide Parma Oliv 4 Wet Jelin : Squeage before. Brise Gleritup. 1840 WM 27 Cleveland, 30113 Sio, 343 \$18 High Resolution type 7302 120 line from \$3.20 Chy. 17 1976 To Lincoln hebr tester Esther and Bill Dixor on any 12 Thursday. Met Bol. Erig many Tow, Chas. Ellen and mongame in chicago. Then & Turaven to the Holliday Sun. On Friday 13 weall went to the was. Bark of commerce to see judge clothe, Kieth caresar, Horold Bornan and Mirigo. Then we went I Course to slay at the Kensmotel. Driner that night (13) with Kremens Bob, Ker, and Mourice, Mork also came. Snotto and rife, amet and wife. Howard anderson wife and daughter, Judge Clocked rufe. for Deorga friend of ten knemer. Howard Juderson, It rained a bit the com looked great are to the irrigation. Saw the Plansman Imsegn in the afterior then went to omnha so stan at the compart from. Judan Aug 13 we went & Woodling down after a

colled for

drive around town we look of Our Jessie de Con at the Rose Vista. We enjoyed a visit with her. Then we went to drawers Portegin? house et 306 Weare St. Wis was the house once ownered by Joseph coe for his children to stay in white Joing to school. It was here that my mother as noted by Jessie who word younger sister of many. The duriner was great.

Ony 18 1976 I went to sea yesterday with the M.E. aguaring group on MIT's new ship 424. Tom Gilbert, Fete X Cavoline Karp, Chas magel operated the side o com. I rope sted a Bentis comera and TV mystem, we made photos at 4 locations all about 300 fldoups

magel may go to n. 4. stall on the westreve to demonstrate the soner to Rich murphy albany N.4. 518.785. 3605 who called 716.724.4524 from Sachetts Harbor several dogs ago Clas Mayel lives in Cambridge 86x-3254 & gave murfily his minder last right and hope they get together o

(overvous). Aug. 21, 1996. Ilm. Gener arrived to discuss the Pacifix Ocean experiment that was described in a phone call from Ired Reines.

Neutrino flex from anten state space. Large volume of water to glow with Carbenof relixation.

duy , 22!976 Sat. 3 pm. Loch hers meeting. Havel Sogetim. Jos West 27,000 and Bob Rives. Seashewton Bob heelle man clas Wyelroff Dennis nevedeth marking Klein Howard Curtis Sana Roymond. Vochy Briscoe 199-252 Havel Ergorton. Met . Geo moved into the Van on Temper Pier Two ft rangers commend. Diners as largely 50-500 cycles to attract shows used Builing experments (Rippers etidid not works) Will stay until Sept 15. Writer & Kristoff. doublet will be bases. Rives - our plans - to continue the run change - 220 out to Raft. 110 trans, on the raft. Oct. 2nd week - Salmon may be there Rayther is excellent. 731 type. Blonder - Freshwater tracking of fish. 5 wolf fort - Fresh water fish go to the por destrole, Leave the negative. Mara. Helmrich to observe personal Ross agrifment works fine. Hydriftime experment. Subject was above the comeron. Hydro products equip, was last in Belgini and week with high wingh. John mills - will try for October. Study circles or other targets. Surgand. Mc Howan - no word - Jeft thom son about ping. Un. of Edinberryh. interested in Ruy That o. 1. Niteon - Motor ized camera, of fer. M. B.C. Documenting in Odlober. Jimmes - customs 5000 Internor. British Cirways - have not paid for the air freight Cabin-stillon doch, Chilet fra year, Twing picking. a. N. 7.0.1. Rosencrang Physists - Euro sensitory experts. King will write a summen for the times Oit. Tech Review for Dec. Hagusta Jacobite "Boat. Scotland

90 Hans Segertin aug 24 1976 4-405 M. C.T. Test of five High Resolution film Eastman 50.343 4x5. FXGAat 1 meter. DK7 Bettel 1:1 no mingl. FX6A att muter. HRP Developer 1:1. no ming Dim Do.07 0.13 7302 at , muter HRP 1:1 2 min. Insad a town torn paper as a Harilton Clad. subject. the paper split half way in one place, There Red Sex 5 eastright boil grade were holes where the light serve the rough without interference. Clay 25. It uppears that 50 343 film is neighty slow fog regues (5) 5 = .8 = .8 x.32 = .027 = .05 ASA speed for 50 343; Speed of 7302 Julgain filmis at least 10x the; 5 = ,5 or maybe 1. Ask. Splan to expose Kolascionne type - 2483
by the silhoulter system. The spead of
2483 film is 16.

5 = 0.8
5 = 0.8
5 = 0.5 mcs. IT = 60.5. Let D=1 meter then cp3=.05 x1=.05 c.ps. 1. much glass plate with edges 2. Catche several Brine Sternich. 3. Ex pose with Is light and full light on Koladume film. 4. Josh for color subjects such as green felans 5. Forth for diffraction colors around edges of files, 6. augeo a brown straw rute the works

Duy 26,76 Tord of color files. 16 Photomicrogrepay 91 2483 Color Jilin. antos dave, I meter +3 Sample Hyder Sumple Hogh 27 oh Argu Cork on hale Jijht 30 2 High 3 mid t 10 ser witing nest ± Sample Hoser ? 3 xxx 31 For ± 3 Aryla , 32 For & anglesia 3 Augu X 4 33 over. 21 hard with High. Reviso. med. 10 11 Four 24 /000 12 Sample High 25 26 11 HRP 4115mm. Exposure on So 343 I meter Shototer + 10 mps no deridly 1.03 ,06 4 Parlies Da Denne Do 0.44 Photo of cycle of glass with Bring Stenes, 02 0:79 Plust on 7302 trap former at 1 mig. 0.11 3.68 Plus 7302 Ayen (But no extract). 5 mm 14 4RP 0.04 1.65 (lug 30 1976. I went to W. HD. I on Friday ang 27 to give a lecture for mrs. Hollister - benefit for the Bradley House museum which had just been torzanzied the talk mas in the school at Falmonth money of seeing of seeing of seeing alter the lecture we have home through the rain On Satam at 7 am I took the Applane to Chings - then to milwowhere to attend the Consteau Jaciety Levolvement affair. Sa 3000 people attended, Itook the Boute dropper strobe display. Plans were made for Howster, Boston and Deattle.

92 Harsk Syntin Sept. 2. 1976. MIT 4-405.

Lipsones were made with 50343 Eastwar high verocution film yesterday with cleas wagel and San Findadii.

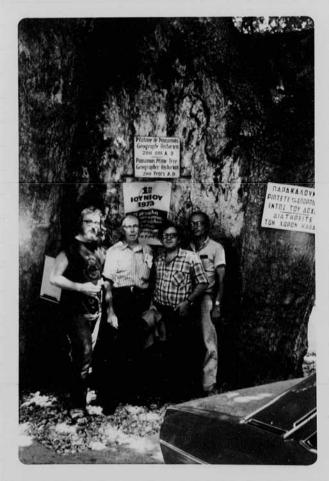
Insulted municipality point source
549 with out the stop and with the mit tipped 20° to expose the are. The film was cun.

Prevan trials were made of cur.

Density weas were Density.

343) film 61. 5 mm in 85. 1:4 39.5 1.25 1.20

photo Slimp



Tausanius's tree in Ogion Breace By of Covinth.

Paul Just part parton of

Saper print 15x 7302 5x 2302 10120x orpaper. 1302 has 160 lines/mm. 160 = 1.3 120 lines pm m. BRUB SHRIMP 120 X 7307 FILM 1302 FX6A ATIM Ann Hostosland. Harred Edgarton. Bill Dixon To 343 has 2000 lines/mm. but I needed much word light. Sept. 6, 1996 Haved Edgerton. I was at the real teo. Society on Jin Lay Sept. 3. 1976 Jind I sav Bob Bison to show him the sillionable offers. He wants a copy of our paper. The negative on 343 film (page 92) unaderette an un covered frint som a mily microflash wint at \$ 57.5 am was used (Dounds of 1.2 - 1.25). fa Bring Shring, was left with disser for a trial point. We showed the brine spring photos to month. also we takked to Don Crump about the use of color photos of Spooling the out who is 25 years old. my photos of 1965 were made of this and. Treat Homes owl. on Sat. Hof Sefit (Columb Sept 5). 40 wentlen, big hine for all. 92 Hank Sportin Sept. 2. 476. MIT 4-405.

Exposenes were made with 50 343 Eastwarm
fright verocution film yesterday with cleas
weight and Jan Findadii.

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549 with out the stop and with the
wind topped 20° to expose the are. The
film was and con.

Prevous trials were madeal and

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Distance Density.

343 film 5mm in 1:4 HRP Rev 61. 85. 39.5

0.4

Proces Short



Pausanius's tree in Og ion Breace Bay of Covinter.

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Paper print of brise Thrimp 15x 7302 5x 2302 10120x orpeper. 1302 has 160 lines/mm. 160 = 1.3 120 lines pm m BRUB SHRIMP 120 x 7307 FILM 1302 FX6A ATIM . Im Thobasland. Harred Edgarton. Bill Dixon To 343 has 2000 lines/mm. but I needed much word light. Sept 6, 1996 Haved Edgerton. I was at the real Beo. Society on Juday Sept. 3. 1976 Just I sav Bob Bison to show him the sillionable efforts. He want a copy of our paper. the negative on 343 film (page 92) unadererthe an un covered frint som e in the microflash unit at \$ 37.5 am was used (Dounds of 1.2 - 1.28). fa Bring Shring, was left with Disson for a trial point. We showed the brine spring photos & France. also we takked to Jon crump about the use of color thotos of Spooling the out who is 25 years old. my photos of 1965 were made of this owl. Great Homes owl. on Sat. Hof Sefit Toolen & Sopre Changeles The head their 50th anniverna

The Prehistorer Peoples of Sextland Books. Edited by Stuart Piggott. Routledge & Kegan Paul 1962 I The Megalitte Builders G.E. Daniel p29 Rigott Neolithic cultures of the British Islas 1954 andrey Shore Henshall The Chambered Tombo of Scotland vol I Edinburgh at the University Areso 1 George Square Edunburgh 8 1963 VS. agent aldme Pub lo. 64 East Van Buren St Chicago & Ill. Foreword by Stuart Peggott Uni of Edinburgh. Photolog with stroboslave lange VBack, Flat de d. D= 45 cm & film 1/4" apreture. 7302 3 min in 120%. High. D= 45 cm & film 1/8 apriline 1302 5min 1:4 1/2 BRASS RING SARAN Olmm k-3/2"-> on bottom with Rubber band. Water 1 to 2 mm on The savan and then on the 7302 film #3. Jame as # 2. Expression. Where from ??? Sefet 9,1976 He Silhouelle photosin Dark Room with microflash. "open" sport gap without the aporture at 300 Brue Shrimp - Several weeks old + Density Lexp 50 343 40 cm. to Saran bolder. 93 .56 .07 1" 7302 120 cm. to " " 1.81 1.47 .03 Aused HRP developer for 2 min for 1302 and 3 min for 343. Have been mobiling 4x5" negolial films from Clar Saram Jog. 35 mm negs of Fefants and Helice sites. Some problems have been experienced with forms. I bried to make a silhoute negative. It took 10 flashes at 120 cm from a misinferior.

98 22,1972 Henrel Edgester note or grange 36. Amenty - 1 2302 Fine Drain = 0.2 mcs. # = 20 / 20/ 2pme. 36.26 mien Clark Browne an First vans growned ever 1.6x 2 min 1.6 m dian 155 D= 198 = 1 = 1.22 meters for Dousty of 1, 125 376 Sex, morning or 424 ship in Both Harbor booking Him Varliver had a class with 18 students. Propolinarase with 20 343 over 7302 Fight for 19 Dennety with 50343 = 35 = 175 Ensure see make with So 3 43. with microflash quer, anglemin = 3cps. = 18,750 mcs. 3002 High FXGA in Strobookare (High range) .35 cps = = 224 RATIO 18,750 = 83.7

Levie mal mon loday. Sept. 27, 1976 Harri Edgerton cat grove to spente Oct 3 Sunday- min Iron left et 130 on John Oit & for my, mores? O'Connor Dr. Jack Dronitorer Can fine.

6x2x10 Cp 60es Too Camps in parallel. 5x2 × 10°Cp. Bons, Manyo. 1.4×5×10°cp. 7×2 us 80-90. 50 ms . -500 CF3. 16-11/2 5 x2 x10 cp. 120 ms. 960. Mary 4x2-x106 HBird Green Will man Roberts . 5x1 x10° 0.300 ms with special lamps. (3). lemp. 2450 35 ×10 ×10 20 119. 350 Obove Tests were made of Birduits. Dr. O'connor wants to do some bird photography. Det trip report.

Oct 19 1976 100 BilPendleg. Burbanh. Visual Inst. Corp. 21 characters. 16 mm carnera Hexa He gene a lecture at 11 am to the presence services. Oct , 2 2, 76 Bob Fassam gree a better at Tym yesterday in from 10-105 to about 50 people. The work of Jox-Talbot in England was described with slikes and plurtos. The museum at Freezh altry was shown. Teter Throchuston was here tressort 2 at 5 your to talk about his projects at the Falhland Treams. There in volved ald sailing ships now on the beacher. Peter lives at new castin SFT OF 25 H. Meine. RE Box 90 plione 10 votts 25 ft of film 68 Eyeletiner. of Tostay comes without prism out 22 1976 3,5 \$1.4 ft. 1 stuning marks.

6 meroho 0.1 see. 22.5 frames to

12 12 13 15 1 Start 100 FRAMES

24 14 35.5

21 21 22 21 TIME IN SEC. Conclusion: - 25 stat 90 volts is not aways film Deggest 50 ft.

2000 fp.5. 2000 = 50 ff/sec. or 5 ft in 0.1 sec. (about right). Plets of Sunfron Blag 7 2nd floor on balcony. EK 1302 files finegrain Positive 4x5. Vincent model 53D-360 Shatter 1/1000 sec. 4x5 film Draplue Some clouds, Windows dirty - need cleaning. 732 pm Sin not inview. cloud just left 440 4.44 Closel coming. 4.50 4.55. Clear

Oct 30 1976 Fland Sugarter 1977 4-495 Yesterhand game a 3 pm sensmor at uni. Delavore for Bol Dheritan. Chis Kraft was there and we discorned many and and and and and action of method. Walmuller Photosly shalow FYGA at Form on full in 1\$39 A Shi 7302 film 14 HRPdercloper ofor 3 min A. Charling witer over atheir film of Jaran plant of Shows milled Shows particles motioned from motioned in water 7. Water from facult over the new - many Rolls Rose & air less thouse committee and of water ? 2. many round doty less thouse Cambo Wateringen over film - no felostore.

Sleven and part ice of air? mornul faiticle.

Felo Fair 4. Un River water in Pair. Shows grottled background 5. Water sight the same and some of the animals! 6. Cles River Water on smell thin disc as 5 # and y. The sample is much them wer? ?. Vim dire es in 6. Sample? many hours from handreduct? 8 Riverton film, no glass 1130 bet a mers and with Das Kagafas. An exhibitis now at this school of Strobe shots. I showed the elepsed time movie and the bats in flight. In drust Bus and not moland? Nov. 1,1976

H. Elgerton & Bill mac Roberts. 1539A Stubolane outjust = 0.36 HCPs framend of lamp. FX-6A led and HIGH. = 0.36 840V C= 1.2 mifel ... nov 10, 1976 Wednesday Virit DGG Solow Josh O'Brian Bruce Bing for This forder fundame Nor. 17,1996. Web. Visit by Paul Helmutte and dinner at our home, 100 men. Drive. He will fant truste ship & martin Kaplan. Confin morning into Horn anderson and Bobfines, about prince for Franklin Prince Fan College in Concord M.H. nov 19, 76 allow meeting and council of MIT. The office and all with a bar guld in Weis not found ests house on men. Dr. Dovid Rochefeller made a specil about adviction and theory. nov, 26, 1996 mony fleen and Welch Pozue were here on the 24, 25, 26 for a tripto Phymonthe To dedicite the thetal of Bor. Brakford. Then we had a Thankragively distance at 100 memorial Dr. april 11-73. Assiled for the second time submission, a paper to the Scientic armin and anticled "That in filling reply Revived by Strole" of small ordine subject was saboutted & the fund of microscopy several weeks ago. Mid. nor 24. He will bring old the sons, records of last summer laken at Fock ness, to go to n.4. to the alumn on meeting on Dec 6 1776 Mon Ig. 1976 monday Workelon graft of Sonar Results in Toch hear? 16 Wydroff read draft of stony we worked on last Set nov. 27. There are so contacts - some nearled on camera art. V.

PowerSupply#1 us BCP5
C fps Dur

1 32 20 300
2 32 28 600
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7 15 52 4000



LOOK WHOOOOS HERE—The Barred Owl of Killian Court. According to the Massachusetts Audubon Society, there has been a barred owl sighted yearly in the downtown areas of Boston or Cambridge. This year MIT is the lucky host. The owl was first sighted in the court on Friday, Dec. 3, and has been posing for camera buffs, bird watchers, etc., ever since. The owl's natural habitat is a wooded swamp. But the creatures are not terribly shy and are often sighted at the edge of a wood. This bird is probably wandering in search of territory, according to the Audubon Society. Territorial by nature, the young owl must leave his parent's territory in search of his own. If he likes the Court well enough, and finds adequate food—small rodents and small birds—he could stay till spring or longer. Not likely, says the Audubon Society. So, catch him while you can.

Out from Bldg#3 MIT. Felt in Dec 4 1976. HE

Dec. 10,1976 Canfwith Wyshoff

1. Sover important sing of shows which is going on.

Find out what is going or

for Bange - storbe hight; the

wyclock wouts automatic

H. Segerton & Bill mac Roberts. 104 1539A Stubo Dave output = 0.36 HCPS frament of lamb. FX-6A 419H. = 0.36 nov 10,1976 Wednesday Viril DG G Solom Jack O'Brian Bruce Berney for This forden fur me nor. 17,1996. Web. Visit by Paul Helmitte and divines at our have , or ween Drive. He will fors trustee ship & nearbin Kaplan. Confin morning into Horn anderson and Bobfines about prince for Franklin Prince Fan Collège in Concord 11 H. Nov 19, 76 allow making art council of MIT. The office and wite Dovid Portugales made a special about should and theory. nov. 26, 1996. Meny flow and block Pozue were here on the 24, 25, 26 for a tripto Phymouth to declinate the that of Nov. Brakford. Then we had a Thank region, diamner at 100 memorial Dr. april 11-73. paper by the Scientific arminion anticled But in fetotography Revived by Strake" of small attive subject was submitted & the Our Wydroff some back from Subdaced on Ned. nor 29. He will bring oll ly sonor records of last summer lahan at Fock hers, We are scholarded (Rues Klein, Wyslast, and me) to goto n.y. tota alumn on meeting on Dec 6 1716 Mon Ig. 1976 monday Workelon dystrof Sonar Results in Toch hear? 16 Wyolnof read draft of stony we worked on last Sat nov. 27. There are so contacts - more recorded on camera or T.V.

PowerSupply#1 us BCP5

C fps Dur

32 20 300

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LOOK WHOOOS HERE—The Barred Owl of Killian Court. According to the Massachusetts Audubon Society, there has been a barred owl sighted yearly in the downtown areas of Boston or Cambridge. This year MIT is the lucky host. The owl was first sighted in the court on Friday, Dec. 3, and has been posing for camera buffs, bird watchers, etc., ever since. The owl's natural habitat is a wooded swamp. But the creatures are not terribly shy and are often sighted at the edge of a wood. This bird is probably wandering in search of territory, according to the Audubon Society. Territorial by nature, the young owl must leave his parent's territory in search of his own. If he likes the Court well enough, and finds adequate food—small rodents and small birds—he could stay till spring or longer. Not likely, says the Audubon Society. So, catch him while you can.

—Photo by Calvin Campbell

Out from Blog# 3 MIT. Felt in Dec 4 1976. HE

Jee. 10, 1976 Caref with Wyolsoff

1. Sovar important since of shows what is going on.

Find out what is going or for Barge - street higher, the.

wydroff wouls automatic

Filming and Separation Record

 unmounted photograph(s)
 negative strip(s)
 unmounted page(s) (notes, drawings, letters, etc.)

was/were filmed where originally located between page 104 and 105.

Item(s) now housed in accompanying folder.



De vent to mismi on Dec 12 al gam corried 12.01

mil by folm Selvernam, Puncan M. Claudia Fingle.

Dip to Keg West in Silvernam place. Then to the Christer where we shorten left for the marguessa belowds,

Der 13, 14, 15, and 16 were spent in surveying with

The 259 side seam of Babb,

Der 17 200 16 Livent to Newbern M.C. leaving

Keywest at I am on air Florida arming at 3 pm ±.

Then by can'ts Beaufort with Cathy and — newtor

and Bot Theritan.

Der 18, 19, conference at the monitor Res and

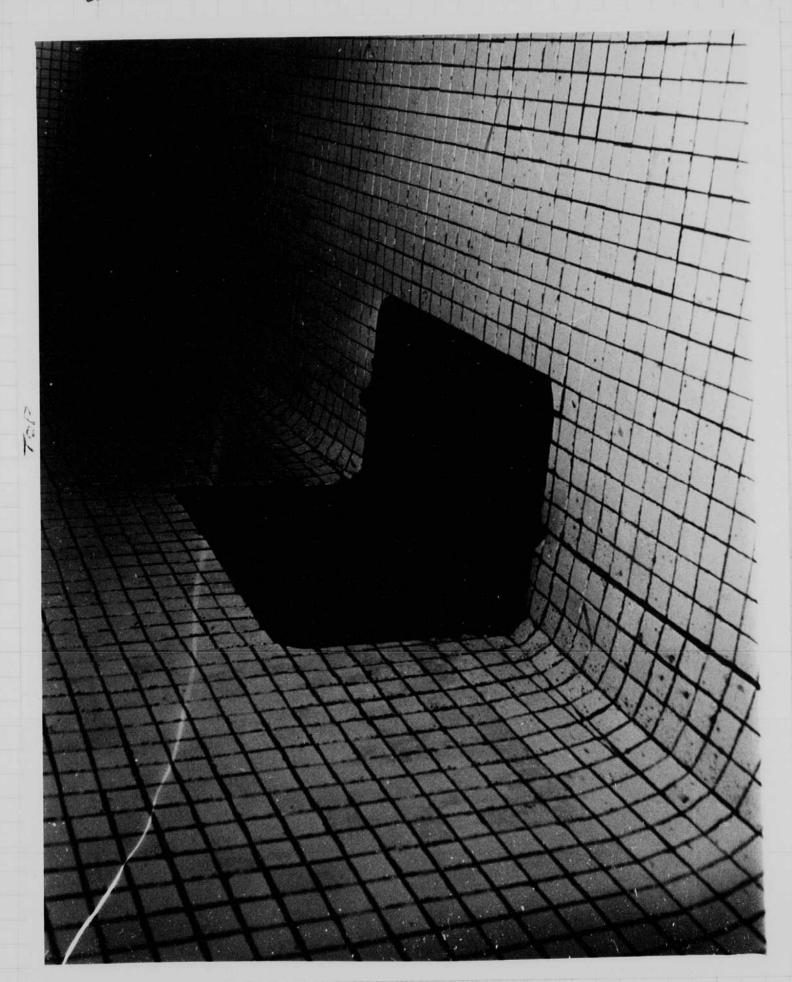
Berovery Journston hac. 127 Browt St Beaufort M.C.

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July 29 (Tue.)
                 West Orange, N.J. to meet with Ted Edison, lv. 9:15am
July 30 (Wed.)
                 Boston Harbor in the afternoon (?)
     31 (Thur)
                 Dentist - Dr. Herman DeWilde, 8am
Aug. 4 (Mon.)
                 John Mills arriving from England
Aug. 15 (Fri.)
                 Dr. Frank Frungel arriving from Germany
     20 (Wed.)
                 New England Aquarium, Bd. of Gov. meeting, 12:30
     1 (Mon.)
Sep.
                 LABOR DAY - Holiday
      8 (Mon.)
                 Registration Day
     10 (Wed.)
                 1st Class, 12 noon, room 4-402
     15 (Mon.)
                 Class, 12 noon
     17 (Wed.)
                 Class, 12 noon
     17
                 New England Aquarium, Bd. of Gov. 12:30pm
     22 (Mon.)
                 Class, 12 noon (last one)
Oct. 13 (Mon.)
                 COLUMBUS DAY - Holiday
     15 (Wed.)
                 New England Aquarium, Bd. of Gov., 12:30pm
     23 (Thur)
                 Council for the Arts, M.I.T. Student Center, 6pm buffet
                                   " Kresge, 7:30pm MIT Orchestra
" Kresge Little Theatre, 9:30am
" " 10 Fac. Presentation
     24 (Fri.)
        11
      11
                                       Student Center, lunch 12 noon
          - 11
                                         Site Visits, 2pm
                                         President's House, 6pm Reception & Dinner
     27 (Mon.)
                 VETERAN'S DAY - Holiday
     28 (Tue.)
                 Houston, Texas, MIT Club lecture (Joe Moore & Bill Lenoir)
"Shell - Bellaire Res. Center lecture (?)
     29 (Wed.)
                                  Shell - Bellaire Res. Center lecture (?)
     30 (Thur)
                 Dallas, Texas
                                  MIT Club lecture (John Davis)
     31 (Fri.)
                 California
Nov. 10 (Mon.)
                 London, England - Ben Franklin Society
     11 (Tue.)
     12 (Wed.)
     13 (Thur)
                 Lacock Village - Fox Talbot Museum (Robert Lassom, Dir.)
   19 (Wed.)
                 New England Aquarium, Bd. of Gov., 12:30pm
    27 (Thur)
                 THANKSGIVING DAY
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Dec 31,1976. MIT Hand Songerton I generalecture dec 30 at the walderfastoria Hotal at the am Ligarch convention on the use of sono inconcer. The affair had been set up by Julian abittlasy. It was poorly advertised so only about 25 people stoned up including nite Stavolahes hernothen Dora Fred yelsuris Bource Botton Bevan (Talkedabant Rober) Poros (projectionest). then I had lande with Zjon miliand Celia Bortin - Reion 2220 Marlborn St 267-1302 and husband, The translates Ljon's engerier writing into French. The is a french writer outless. Janister (?) yesterlay and Spith it up when attending the meeting inthe evening. Berney O'Keefe give a talk 18 the industrial associates of the museum. Sentonium & Posterities ?) mac Roberts estimates West 1/2 billion feastes lane ("in I'). nikelled may 6, 1964 Failet July 43.20 gardey 24kr.
86.40 gardey 24kr.
31,530, ero per ger. 160 x10 fersles total Stapped Job. 1970 Stopped Sport. perished Fa 7 (6 years 8 mon ms) & Dues 200 ore or fleshing Jailed. Oct. 1976 Removed Jan 8 1977. There was a lot of white deposit over the circuit classed The lamp showed brooking between the electrodes, the ohnameter showed infinity resistant, the equipment operated fine when untially connected. Then it started to miss. We would hear the sport pulses on the disher Telephone divid. Ifrash was week. Much cop increased to by out 0.1 for one lestros land a broken led. The cap. was 0,25+0,1 of 300 volts ut a model cledice coil. Ne could not see the sparles

so it was less lan O.1"gap. a confusting layer on the spark coil and the adjacent capacitor seemed to be the problem. All was cleaned and more spacing was used. but put between 4 and 5 c. P.S.

108 Jan. 11, 1977. faired Edgarton. We tried to got Detroit on Dec Julky but the suow stopped us, also theat pont on Sat was closed to me cancelled art. Hope to gothis werkend to see Boband Panily at Portice mich. 175 Ottawa Dring (all was 221) 45052. They moved acrostly street into a larger house. the hope to get my comera T.V. topstern into the water on the 12 or 13. The camera willbe den sloped down to get a hongontal visco. Then I can try thy two It rotate the rystem. a Lonar sensing rystem designed by Duane marshall was tried in the sat night. by Rine, Wyalsoff, ile on Jan 28, 1911. We went to Detroiton Jon. 22 Sat, Sunday helped to more Bob for 221 to 195 ottown Bt. Monday I went to favorence dust of Tech with Bob. I showed slike, and mories (underwaterengosed time of strofesh) 9, 10, 11, classes then fund with 53rb from the school. Richard Marbarger Deen Jeren Margosian Mondor Zimmersman Roy Coone Dan Wirdusgeroshi Tates I met with the Plysis chile. Then Bob and I went to meet President Wayne Buell Gitter I I returned to Boston on These ag at 245 on howth centre. Wed I gave a Lecture on nature photography st mor lames fan 28 John & Josue Fatz with Johnston & John mills, Fred Growlery your) for driver at the Hyeth Rogery (Angland), or fan 29. 110 Photo made Falis in
MIT prod with Facernin Tus jets Benthus De Truming.



Lack seather is

Feb. 13,1977 Harved Edgerton

> I took the Fx-6A flash lausp equipment that was fin ished by man Roberts Cast week to wooks Hale for a leature to the noon meeting on the 10 thursday. Then I left the lang peus my 2 heler dark noon, developer, typo, pairs, etc so. they could try the system for aproject involving a magnetic animal.

My sonar is being probably for an effort is help Carl Clausen at Fettle Galt Spring Florida PO 1202 North Port 7.le 33 595 fortil 20 - 24 I am scheduled to show the Someta Comere Club- some seids on Feb 22 intheening at the request of way sister neargeres more iremance Robinson, 547 Junine Fane 33577 (813) 378 4352

Feb. 14, 1972 monkey.

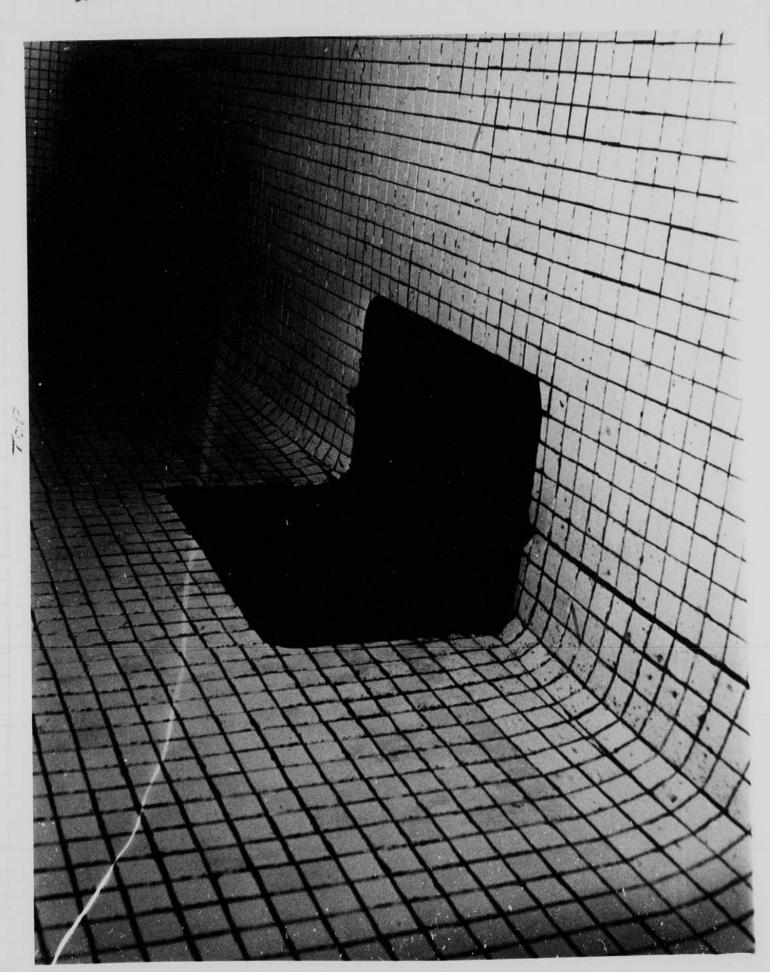
The under water cannon will be tosted at 2pm this afternoon at the aquain where 1117 has its

Ship. I Sport in High speed Elder done and set the comer at 1,5 meters at ft. augle of carriers. 20° 25°. next & billion Hole

The film went then and was don't fit

March 2 1922. Both on 7.6. 27 Sol for the Floresa. trip. See following page for ochosure of trip.

Lock nen - We have automotion expulsioned with a sonar try ger in the lake to operate the 16 mm elipsel lime carriera Suggestion. Da 35 mm & jufnment motor ofreraled short be used with more light by get butter pliotos! (2). This should be set up here for experience. 3. Rives needs to someth get the austin money closure? 110 Photo made Falis in
MIT prod with Taleurini jets Bouttons De Turning.



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10.14, 1977 wondey.

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Sport in High speed Elder down and set the come at 1,5 meters at ft. augle of come 20° 25° next & billion Hole

March 2 (922. Both on 7.6. 27 Sol for the flores a - trip. See following page for ochoscuse of trip.

Bob Kines here for dinner last night to descently Foil nen - We have automotice sepufrical arthe a soner try ger in the lake to ofrevale the 16 min dipalline carrier Suggestion. Oa 35 mm & genforment motor ofrevaled storef be used with more kinged tiged butte platos! Q. This should be set up here for experience. 3. Rives needs to sometiget the austin money close ... (

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Harold E. Edgerton
   22 (Sat.) Pontiac, Mich. to visit the Robert Edgertons
24 (Non.) " return about 9pm
                                                                                      MARCH 1, 1977.
   24 (Non.) "
   26 (Wed.) Bob Cooke of the Bos Globe to interview HEE, 11am for newspaper article
    1 (Tues) Jim Champy and John Wynne, room 4-405, 3pm meeting
10 (Thur) V.H.O.I. lecture, 12 noon, Redfield Aud. (Craig Taylor, x 307) "Strobe & Sonar"
   28 (Fri) John Mills to visit from England
    14 (Mon.) Ship sonar and photo gear to Orlando, Florida
    16 (Wed.) Ledge for Orlando, pick up sonar at air freight (Holiday Inn- Sunshine garkway)
   17 (Thur) Visit Ed Link at Harbor Branch Fnd., Ft. Pierce
18 (Fri.) Meet Charles Aquadro at 12:07pm (Eastern A.L.#59) - Melbourne airport) lectore, 4:30p
    19 (Sat.) WIT Alumni, 2nd Florida Festival, The Orlando Hyatt House, (Northeast Corner of
    routes F-192 and I-4-The Disney Exit, Tel. 305-846-4180), 4:30pm lecture
20 (Sun.) Visit with the Robinsons (548 Gunwale Bane, Sarasota, Tel. 813-388-4352)
21 (Mon.) Sonar expedition - Carl Claussen, Little Salt Spring Res. Facility, Northport, Fla.
11
                                                          (Nat'l Air & Space Museum, Ind. Ave.)
               (Tel. 813-426-4100)
    25 (Fri) Washington, D. C. MIT Club (Ken Gordon 301-469-9240 home, 8600 Burningtree Rd.)
               work: 202-724-3353, Lecture at 8pm, Smithsonian
              Visit with the Pogues ($204 Kenwood Ave, Chevy Chase, Md. 301-654-7233)
    27 (Sun.) Return to Boston
arch 4 (Fri.) and March 5 (Sat.) Boston Sea Rovers
     8 (Tue.) and March 15 (Tue.) lectures for Otto Piene & E. Goldrung, 7pm, rm. 3-133 particles 7pm, 10 (Thur) lecture for Prof. S. Widnall, rm. 4-402, 3pm to 4:30pm 7, Right meres 7pm, 12 (Sat.) EG&G, Inc. Winter Dance, Marriott Hotel, Newton, 7pm
                                                                                                     Ruth off Per
    10 (Thur) lecture for Prof. S. Widnall, rm. 4-402, 3pm to 4:30pm
    12 (Sat.) EG&G, Inc. Winter Dance, Marriott Hotel, Newton, 7pm
                                                                                         3. KENREAD B.J. 3, P.
    13 (Sun.) Niki Stavrolakes, Port Jefferson, New York (Christening)
                                                                                         . T. SCALIRANT.
    17 (Thur) Lecture for Mrs. Den Hartog, MIT Faculty Club, 6pm
    18 (Fri.) Leave for Woodbine, Lincoln and Aurora, Nebraska
               Lecture at the University of Nebraska, Lincoln, 4pm
    19 (Sat.) Aurora, Nebraska, Ken's Motel, Tel. 402-694-3141
    23 (Wed.) MIT Club of Denver, Colorado (Gordon Moore 303-757-8052, work 303-573-7616)
                evening lecture
     24 (Thur) Rocky Mountain Chapter of the Optical Society of America, Boulder, Colorado
                Edwin Vande Noord (303-441-4578 at Ball Brothers Res. Corp. Aerospace Div.
                P. O. BOX 1062, Boulder), evening lecture
     25 (Fri.) University of Arizona, Optical Science Center, Tucson (Richard Shoemaker, tel.
                602-884-3030) evening lecture
     26 (Sat.) to 27th (Sun.) VACATION
     28 (Mon.) Check in to the Los Alamos Inn (reservation made by Ms. Lorraine Martin) 505-662-7211
     29 (Tues) Colloquium at the Los Alamos Scientific Lab, Sam, Dr. Eugene Stark (Geo. & Louise White)
     30 (Wed.) MIT Club of San Francisco (DuBose Montgomery 415-854-2940, HOME: 327-4539) lecture
                                                        at Engineers Club, 160 Sansome St. 16th floor
                 Raphael Hotel 415-936-2000; 6pm
                Possible trip to MONITOR site, off North Carolina (10-18) 1308?
pr. 18-19 VACATION - PATRIOTS DAY - lecture at 100 Memorial Drive, Cambridge, 7:30pm
     19 (Tues) EG&G Stockholders meeting, 9:30am, Dr. D. Menzel's Memorial service, 2:00pm HARV CHA.
     20 (Wed.) Society for Information Display (SID) '77 International Symposium, Sheraton Boston
                  Hotel, 12 noon lecture ("Those Blinking Lights") Dr. John Van Raalte, RCA Lab,
                  Princeton, N.J. Tel. 609-452-2700, ext. 3127
     21 (Thur) MIT Club of Toronto, lecture (Duncan Allen
                                                                    (Jim Maguire - 314-694-6924 Work)
     26 (Tues) MIT Club of St. Louis, lecture
                                                                                      " 821-0093 home
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White's #662-7413

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Filming and Separation Record

 unmounted photograph(s)
negative strip(s)
 unmounted page(s) (notes, drawings, letters, etc.)

was/were filmed where originally located between page 1/2 and 1/3.

Item(s) now housed in accompanying folder.

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114 Mar 3 1977 mack Experiment, muse in ten MIT prol yenterday unto the 12 KC and Reflection 12 KC. The side school and wire seem to be las out the Referetor, de are using rejort Reflectors from Blog the Sweden rught plate March 10 1977. Markoberts has been putting metalic shielding on the 6 KH transmitters that and receivers, this system has long had a would say the wise has been reduced by to 1/4 of that experienced before, for example, the roof of the servee laternes hicken in The noise for the metal pulse before, now the signal cornes in look and cleary with only a faint pulse at the beginning. I was on the MANAMET and of the Side sean sonar 259-2 was used & explore the area near a longe yellow buoy. Til Chase is the US army corp rep. March 16 1977 The pertures taken off Hymouth at f 8-1.5m were ok on the 30 tilthet under syposed on the o'augue, all were sent to Bil Chase. Mar 17. Sonar lorlad in T424 off Turnels Boston Harbon, 9 to 1.30p Howard Effinger Bot magee Jun Solvo -6 Kc with insetted metal shield 12 Kc in Gold reflectors. 5 Kc in big dish with 6 Kc receiver. Vory windy and cold. Side ran of dulisin harbor. national Der Insquarie aug 19:07 H. Brids HS. N. Van R. Waltond Der Muzeyine

april 21977 coop 32921.9 Howel Szerton 016-24-1865. Parsport D 1299300 may 78. Just back for tripto S.F. via nelvasha, for Clauso Tulom - Denver - Boulder etc for lesting town See page 1/2 for a cludule! april 10 1917 Sunday Easter. I returned yesterday from Jewes Dal where I was from the 4th of april on the CAPE HENLOPEN (160'000 anographic Shit

of the unit Delaware. Bob Sherison was the chief screen tis vof the trip to the month sete. He and his students made of core at the site, some 3/4 mile south. Il del novel system was furnished by Jack Siegel. This worked great.

The camera - shole. The was lowered once and a lape

was made. also about 10 photos were made We had problems with the anothering - a three way wind and ournest. Then the wind quit!

and 161977. We tried the T.V. yeslerday after the lift title MONITUR. There was a table spoon of sea water with case and it did not works. I thin this was from the danaged sale on the pullup, I had toped it and the I van oh at first but apparently they was saltuation the cable. The carrera was not damaged!

Ford van. 557053 Mess license.

miles to Tenes & return 925 gasoline - 32.7 gas. 17,55 miles/gal The first about peclare was fine at \$ 5,6 1.2 meters the served was dim - further avery

then two exposures were very under exposed a shot of the three beams looked on but dun this was the last. I did not see any others astly expressiones were on deals when the

film was cleaned.

an edited take was made and I dupe. ondefine 15 two dufers were made on 1/2 hour lakes. one went to mage with sound. The other was selent. The sound was of comments that I made when copying to lake the first line.

Norwich com Kate and Typela Kall Edgerton 23/ West town Norwich Edgerton Handicrofts stowed me the MASON monument marker in the first graneyork at norwide at the end of Tank just exit of Koute 52 where it over passes West town street.

Michael Scankowskii 238 Summet St Norwick Conn 06360 was a great

116 Fined Ryston 4-405 MIT. Combinege Wass Me De april 20 1929 The able as used at cape tallers was removed yesterday by Bill mac Roberts, This cable was danged on the Cape Houldpen when the cable was smarted against the stern anchor objetile. Water seeped with the To case but sid not dannage the To comeny We are using nowa 230 ft cuble which has I wires. This cable is wiched to water will not flow through the wines. Evelpr 29 and I went out with Sleve Vaughen to the Boston Herbor with the 12KC Reflection mit that I plant take to horal. It seemed impossible To low it with I tried the bottom system Ropes with measured distances solly transducers can be spaced correctly, all went oh until The elect calle pulled back Jan and was out by the propo, I this happened, I sterned hang enchwel the elect cable, on may I oplied the cable and then brieft a vertical indicator to the side. I was able to pull this around the drawles siver gun. and get records which are oh, If then are no served estrois it generally means that the transducers are not fer fen dicular! Records were made on Weekpil 29 of the unnels, the southout dways came and PARY Spean to put this block have the breed the area stronger. To assembly sway from the hull, also oplants use the under-boat terlique. de Hardwarefulette will le taken on the trip,

Testowere made of the Potney Bowles questy Jongs - to Jones FT-118 and FT 151 Rastweeks. all are about the same effy with 3 capacition of 350 might at 400 and 450 volly. Afang thing the Return Bowles was 10 % higher than the Ma others:

May 9,1971 Many sonor tests were made in the charles fiver witte the 12KC Massa Reflector Doube mit on Smulary yesterday. The equipment isbeing readile for an expedition to Isreal, acore, to help Elisla Frider.

May 111977. Ed Link Seway shuson, and — come today in a Grunnan fet from Florida. Mus Frish and mos filmen also came, fundrat MIT then a seminar in the Ocean and defrantment finh lead a discussion on telliered and

The sonar link has lim talions. A coar calle to the bottom was suggested with their sonar. The limitations to sonar make T.V. with a reduced postine rate.

Band with and delay time was discussed

See Tield note book for details rune 6 1977 Cambridge, man, I have Secretor I left tel aviv Jue I for V,SA. completing a trib to work with Elister Linder the trip started on TWA 870 al 845 for Paris Rome & Tel arro on may 15 your 11,77 for pounds of sonar gene was sent. 4 300. Cermed 10 35 Bosturtund 13 hours) Hotel Lev Ha Garmel Haifa or MI Cornel.
Way 19. Denner on the David Rose 522.5th are new york. Elishe Phina Johnton For may 18. Wed. It took until moon tiget the sonar out of customs, at Hotel Den. the navy helped. Josi Tur Caspe & yona Motsking (any) made the contact with the customs. The exceptioned was taken hasheld neval Base to be just on a landing conflict 2100 Capt Founie Thap ino (ZULO) SAVER PS) letter a day and a night of search we moved the excomment to the 17402 a much larger slup. Dr. V21 Ben arraham Dr Yehuda Welamed was The wakied officer for diving ARIE MARMARY, NEVE YANKOV 43/8 Jerusalom Capit of MAOZ YAACOU NIR Decernice MOTSA ILLIT 02-539575 was in olivinge of the navigation by minimum mitorala. after searching several areas completely with out result, NIR went ashere and telled to an art who saw the splash.

This put auphoses on a defferent over. Soon results come!

118 June 11,1977 continued with account of the Israel trap.
The write was burged 1350 years 21 It was it.
another large target was burged at 18,03 It turned out & be rocks con may 22 the week was conformed at 530 by 10.05 we were all factual up and ready to got ash dot at 11.45 # , Faft ash by Heilocopter. 1237 left ashed 1.30 pm at tel aver for conference at herdquarters of defense 1.53 Tell conference for Herifa Bu may 24. try bout 3 at Heifa nony yard. capt the goly Peter, Tried sonor seo usugation, may 25 Plug full of water. fish not caugust cable there was a short in the cable between wire orange and met which shorted and the segral to the may 25 - 26 used rolling side near in Try two trans ducers back to Book an a pole may 26 plund 253.4629 (617) at 9 mm and asland to with strain ropes for survey, This will have a minimum of strain due to water resestang. 25 meter yellow cable, It was next at 7,30 that musto fru Poster on TWA 015 6550 8354. and annul of 430 pm in Tel and, In night, nothing doing on sat so Elista and I went to the Tolan Height Jordan River eto on Wroy 28 Zajat. Duncal Farah arensur may 29 Junday, - new Cable ready in less thou 24 hours Several burys therown - nothing of interest. a V3A muclier sub is at anchor out sid the harbor. may 30 9,3 sq km of survey. may 31 many people came about, Lecture at Technion Daifa Steve Fifson. Dunner utto Tannenhausen Afamily. June 1. Fast working day - Left in aft for MAOS again to look for teel and gear boy of heiloupter. Broblem with fling and saltwaler NO 40 and compressed in blow trouble acrony Del norte system sold by Dean used. Jul 2. Forthe Three targets were brouged during the right. # / was year part # 2 nothing Dagan # 3 you meters avoy was taile. NEHEMIA POBEX3500 6120ERA Sless on Neclocoften with Col Dagan et 1,30 Isreel. And 2 how hil & mesada Jerusalun, Jewica, Dead sea the and Tellario 3.30 conf at navy Head greaters. Thanks true

The 50th dass receiving of 1927 M. T. was
celebrited this weekend, about 10 went to Wionno
centorthe cape. Then there was a banquet at 121.

yesterting, some 1500 attended, Our class put or skill
who a dragor food news mouster. We list a chinese
angur had with a stroll light on the longue and
dirother on the tail. Six ment put their heads
through a green cloth. Stevers with head war.

Conolid (Dily) and I carried a tressur class
with bags marked I till stage for
presentation. Our class gave served a million I.

Silvorsky åiroraft Paul Shurko Mil Frod Support
North Wain 24 Elmond R. Vianney Englusseger.

Stratford Conn 06602 mil Prod Programs.
203 378-6361 I metthere men on the MAO2 in lung

* Head Egen Stevens Itale. Jisher Chairman of class of 27.

Joe Burley
Hank Steinbrenner

Bob Wallace
Joe Mahado
Jin? Hawkins Tail

Harved Elgerton ? clast with bigs

118 June 11,1977 continued with account of the Israel trep.
The wresh was burged 13,50 group 21 It was it.
another large target was burged at 18,05 At turned out & be rocked con may 22 the words was conformed at 530 by 10.05 we were all pasted up and ready to got ash Lot at 11.45#, Foff ash by Halo copler. 1237 left ashded 1.30 pm at tel aver for conforcin at headquarters of defense 1.5% Left conference for Heaife Bu may 24. tug box 3 at Harfa nory york. capt thingsly feler, Tried sonor see mongation, may 25 Mingfull of water. find not caught cable there wish short in the cable between wire orange and met which shorted out the segral to the may 25 - 26 used rolling aid pean in stelling mode for survey, It works fine. Try two trans ducers both to Both an a pole with strain ropes for survey, This will have a minimum of strain due to water resestang. 26 plund 253.4629 (617) at 9 pm and asked to 25 meter yellow cabre, It was next at 7,30 that next fru Poster on TNA 015 6550 8354. audermach at 430 pm in Tel onior. In night, nothing doing on sat so Teisler and I want to the Tolan Heigh Jordan River et on Wrong 28 Zefat. Duncal Farah arensur may 29 Junday, - new Cable ready in less than 24 hours Several lungs thrown - nothing of interest a V3A nuclear sub is at anchor out sich the harbon. may 30 9.3 17 Rm of survey. may 31 many people came about, Lecture at Technion Daifa Heve Fifren. Dune utto Tannahausen Afamily. June 1. Fast working day - Left in eft for MAOS again to look for tell and gen boy of helloupter. Problem with fling and saltwater NO 40 and confirered in blow hould alvery Del horte system sold by Dearn wood, June 2. Facts three targets were bruged during the might . # / was year part # 2 nothing Dayon # 3 you meters avoy was taile. NEHEMIA POBEX3500 612 DERA Sleft on Heclosoften with Col Dagan et 1,30 Isreel 1 for a 2 hour hip & mesada forusalin, Jewice Dead sea the and Tellevio artire and nong Head greaters. Thanks true

and fine 1/1977 Hawal Edgeolin.

Moshe Tory continue of the tishert house love took we at ram to the plane on Jule 3. He was very appre cooline of the work I did to find the Segondal

the dirforce or the very took my gear to the der ford formalland by heilmoster. Then it was pouled and sluffeed by Told derect to Boston at their expense.

The 50th dass receiving of 1927 MIT was
celebrated this weekend, about 10 went to Wione
club-on the cape. Then there was a banquet at 1211.

yorkeroug, some 1500 allended, Our class put on shill
with a dragon Food how monster. We look a chinese
engin had with a stroke light on the longue and
another on the teil. Sex new put their hard,
through a green clath. Stovers was the head war.

Ornobed (Dips) and I carried a tresser chest
with bogs murbed I till stage for
presentation. Our class gave served a million 4.

Silvorsky direraft Faul Shurko Mil Frod Support.

North Wain 24 Elmond R Vianney Englisher.

Stratford Comm 06602 mil frod Programs.

203 378-6361 I metthere men on all MAOZ inlung

* Head Egra Stevens Itale. Jisher Charman of Class of 27.

Joe Burley
Hande Stembrenner

Bob Wallace

Joe Wallace

Jin? Hawkins Tail

Harved Elgerton ? clast with bigs.

118 June 11 1921 continued with account of the samed but. devolver large larget was two years 1000 of terrord out to be rection con may 22 the words was conformed at I'm by 10:05 we were all freshed or part ready to got a still tot at 1145 # . Foff det by Holo copler. 1237 ceft asuard 1. 30 pour at tel aver for conforminat heraquestion of defense 1.5% fell confiner a for 4 excla Bor many 24, trug best 3 at Herfa many years. capit things by telen, trien savar de morgalian. new, 25 Pluggall of water, fire net carget outle there we he show the outer between were orange and met within shorted and the segred to the Many 25 - 26 was noting deal of the min elections made for survey, It works find, Try two brans ancers both to beach in a pole will obrain reper for savery, There will be at a minimum of alvain due to voted receptary. They 26 permed 253 4629 (617) at 9 your and asterd for 25 miter yakter caller of wer went it 1.30 that went pm 10 std - on 1114 815 6550 8354. wed. everal of 430 ym in Tal over An night. Retaing cong on Ant de Desser west I went to the Solame Huger forder Liver to on way II Zofat. Danie Break arease. There of I Juning - her calle ready on her thank 24 hours a ist uncerer one is at sendow out sick the horison may be 9,3 17 Bon of sorry. may 31 many profee came obsert. Lectural Technico Carfa Horfifren Dunner with Tornen housen Afainity. forme 1. Feel avering any - Left in eft for 19402 again to both for the and goes ber of helloupter. Problem with fly det 2267 water 100 Ho and confirmed and blow burnly accep Det north system sold by Peaver want Jone 2. Fresh three tryets were bruged othering the wight. It was good part # 2 nothing Degen H 3 422 metro every wer tick. NEHERMA POBER3950 GEDERA Sleft on Neccespter with Cal Dagan et 130 mest 1 Fire 2 hour trop & me taken foresection, ferior bed son teams telleric 3 to confat my Her greaters. Thender time disprese and oldery

shifted by the derect to Boston as their approves

The 5th ders receiving 1927 MIT was

tolobrated this everticate, about 16 would be diama

club on the cape. Then there was a banque of at 12th,

yestertan, some 1500 allumbers bur der put or she't

with a diagram took how monster the branch obtained

aright hand with a flood legal on the branch ound

director on the took. Sex ment put their bead,

there ight a green obster. Stovers weather head,

arrived (Dila) and I corried a treasure about

with bog monstered the bell office for

presentation. Our correspondence in method.

Schorsky Ameraft Facel Shurke million Support.

North Main St Shuoni K Vianning Englasseyer.

Stratford Coun & 6662 mil Prod Programs

203 378-6361 Smattheri men en len Made in lung

Fisher Chammer of dans of 27.

* Head Egna Stevens Itale.

Joe Burley
Wank Flowbrenner

Bob Walesce

Joe Walesce

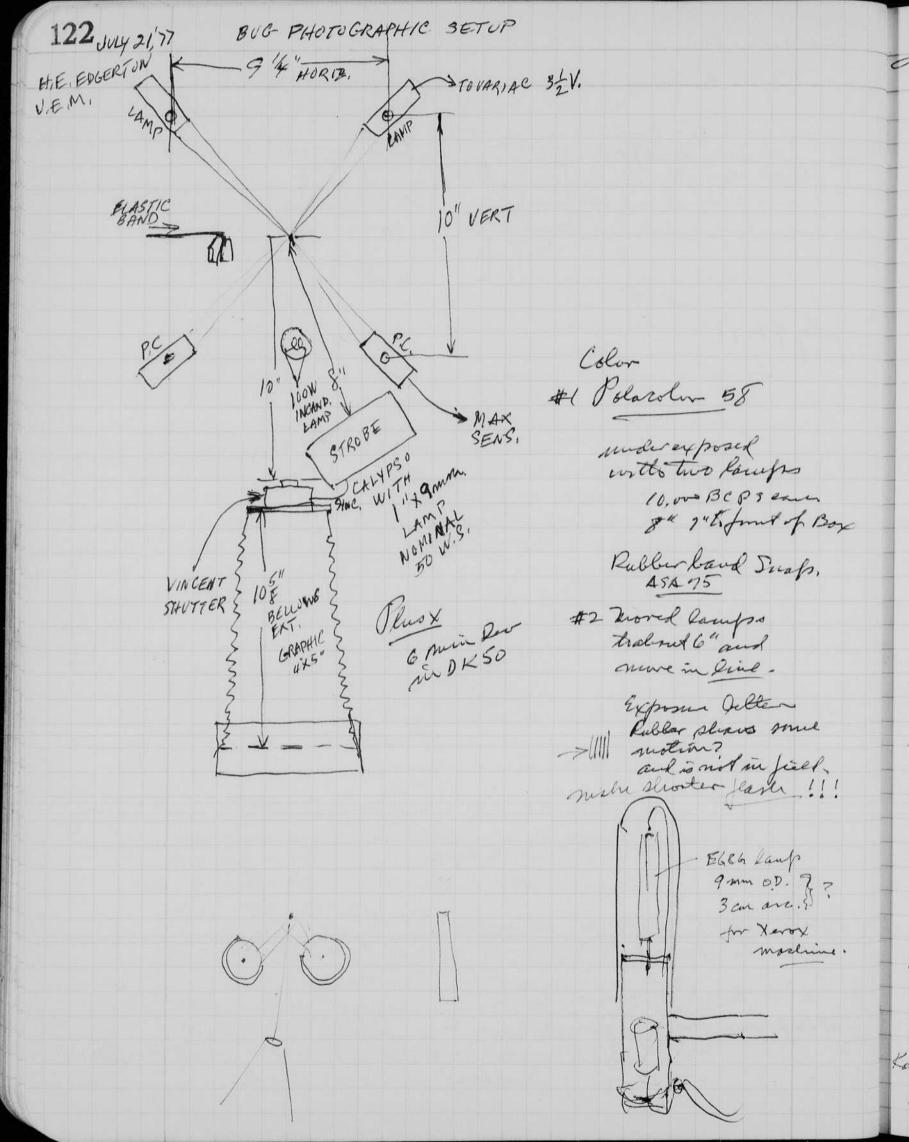
Joe Walesce

Joe Walesce

Join Hawkins Tail

Harvet Ekgerton 3 clast with ligs

SUNE 28, 1977. Tuesday. 120 Hard Egetin. Card Edgarton and James Hathand are here from San Diego. they came on the 25 while I was still in Kessia. I left for h.4. and moseon on June 16 with trity Doso Mortin Scott and Bot Smith. We were invited as a servicion group & go & novosibirsh Tiberia to be a part of the USA Photo exhibit as anxugad by the U.S. Lanformation Service, We were met in Moscow by anda Berbers (form Lincoln Webrastra) and installed in the metro fall hotel. I saw I. marshal at a hospital where he was in preparation for an operation. I tried to reader his wife by phone on the veture for novosibirsh but without success We all stayed at the novisibinh Hotel. Several sessions were had with the group of young guides. Frank Usino was in charge of the exhibit. Paul Sunter bept track of us and leeps the seminar on the Trach. Harrel andersen of the Onraha World Horald was present at my talk at the abademelegorodo. 3 other journalists werd with him vis ting Russia, martin (chienge), Presents four During and Texas. I returned to Boston about 5 jour on June 26 vin n.4. Kennedy on P.aa. for Copen hagen - ny. a some levost developed on the Paa plane so now I am home with a cough and runny nost. Bill war Roberts has been working on 4 sets of Joner - Camera - Camera combinations for use in Forth ners, Que less already gone with Ring. 3 more are to go need week note folio tallerof. July 3,1917. Yester day I tested the rebuilt 259-4 songer with the new improved (?) circuit. duas not impressed. from 50° to 20° The Blade is sticking. It seems to be the motor. Shopetoget a new motor. The 12 KH and 5 KH Reem & he must test them at grater depths. Than the 14 fact in thocharles nine.



5. 3 th whout Ind Sous.

Lelocourtly sprayer in Boscomes
242 capterty made in Boscomes

we film to me 50 mfd at 1500 volls sond a 6 mh Inductor.

wolfage to go to 2000. There were voises in the capacitor. We cut the voltage bosh to 1000 v

124 ling 7 1977. The voltage was brought afth 1500 by Bill before he left on Triday. He plans to clean up the equipment on runday. The flash duration will be about 50 us with 6 wh series with Jamels. Expromients will be neade to get proper exprome a Podadorane 2pm. Bug plots unit see p 122. Expresence on plus x film 5 min DK-50 oh. Blue (light) Background and board.

Agno, 1977

Mac Roberts furished Bug Unix on manday Test photos

show ample light is available from the circuit - see allaches,

'ohn Lothers from poloroid came in yesterday. He is going to help set upon enlarger with Polaroid raper for about 15x subsequent.

115.X.F.

WH. 8.

GRN.

BLK.

BLK.

GRN.

SO 2:

SUBTR

FROM.

60 Hz

unighten where
we colleges
ing Fow Dixon,
Ian, Many anne & Ellen
with som.

re Luck out out and camera

ce parts

in age

eave one was

I am sure this is where the lock occurred in the camen at the o Ring.

124 Aug 71977. The voltage was brought up to 1500 by Bill Defre he left in I riply. He plans belove up the equipment on Humbay.

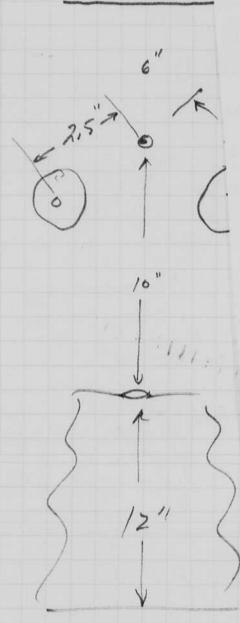
The flash duration will be about 50 us with 6 who series with Junels.

Expressivents will be neede to get proper exposure on toxadorane

I felm.

Zpm. Bug plots unit see p 122.

Expressive on plus & film 5 min DK-50 oh.



Aured Edgeston
Mac Roberts Junished Buy Unit on monday . Test plates
show ample light is availble Jun the circuit - see allaches,

John Lothers pour Johnson Laure in Jesterday. Hai
is going to help set up an enlarger with

is going to liet set up an enlarger with folarid caper for about 15x suls yeurent. The light will be produced with a sindle camp. I gone him a Elmends Sei 10x viewer. This was tetted today. It has flare, I called folm. He is Crying a 1" morrie lens.

Aug 22. 1917. Hened Eryotur

Esther and I returned east slight from
Top Sail North Carolina near Wilmington where
we spent from In aug at two colleges
on Boryhard Carolina ares. Many Tow Dixon,
husband class, Son Bill, Doughters Jan, Many anne & Ellen
were there. Robt and Fig Edgestor with som.

Ini, anythis mine and Sylvia.

I have a tichet for Washington D.C. where Inell visid many Smith at the not Bes Society and the navy Dept Res Lab. To in specifity carriers and stroke.

And pieces were brought to Bambridge.

That removed the film from the

camera in Washington. It was

processed that night in Cambridge

the emploin was soft after the

long tooking in the sea water.

I write a report of the

condition of the camera.

Dr. Whig inspected the

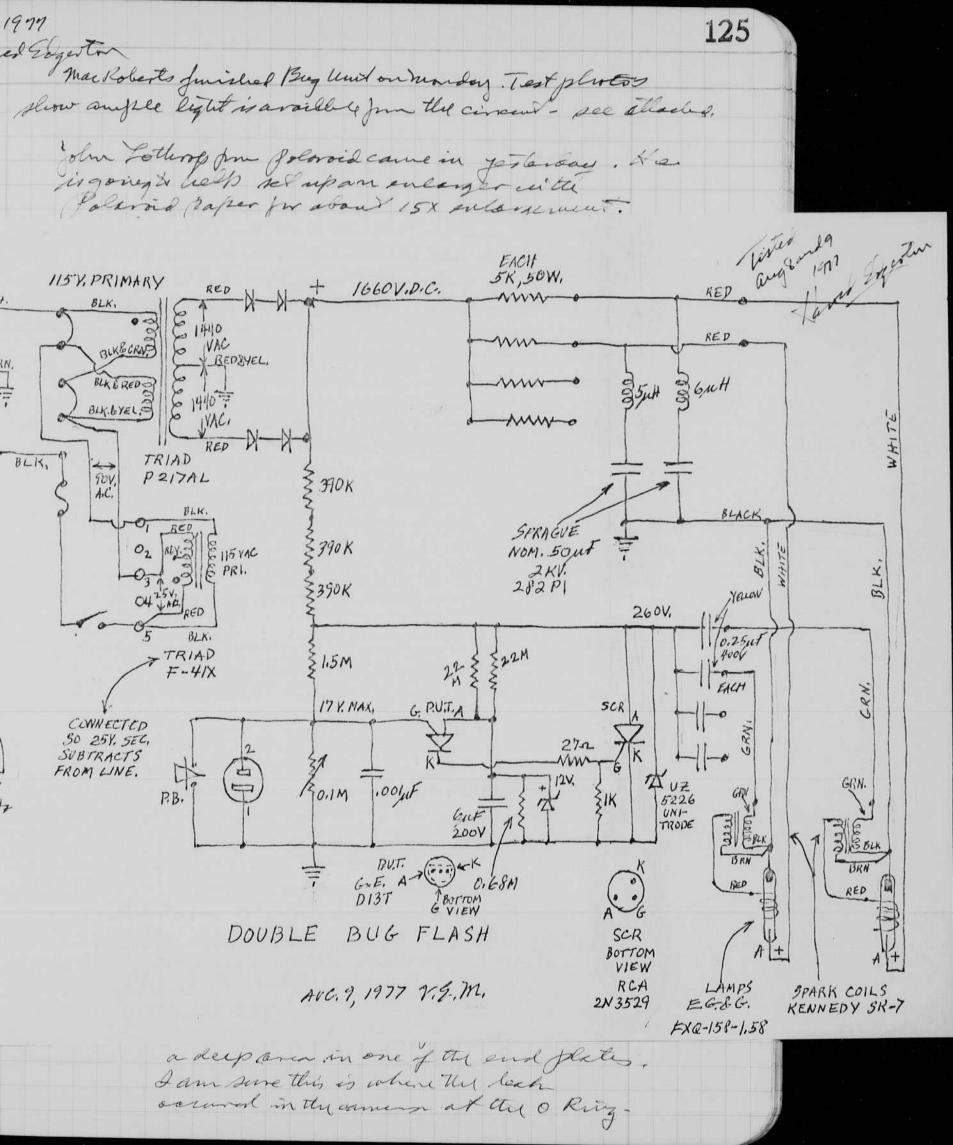
corrosion, the pointed out the creave

worsin in several places, one was

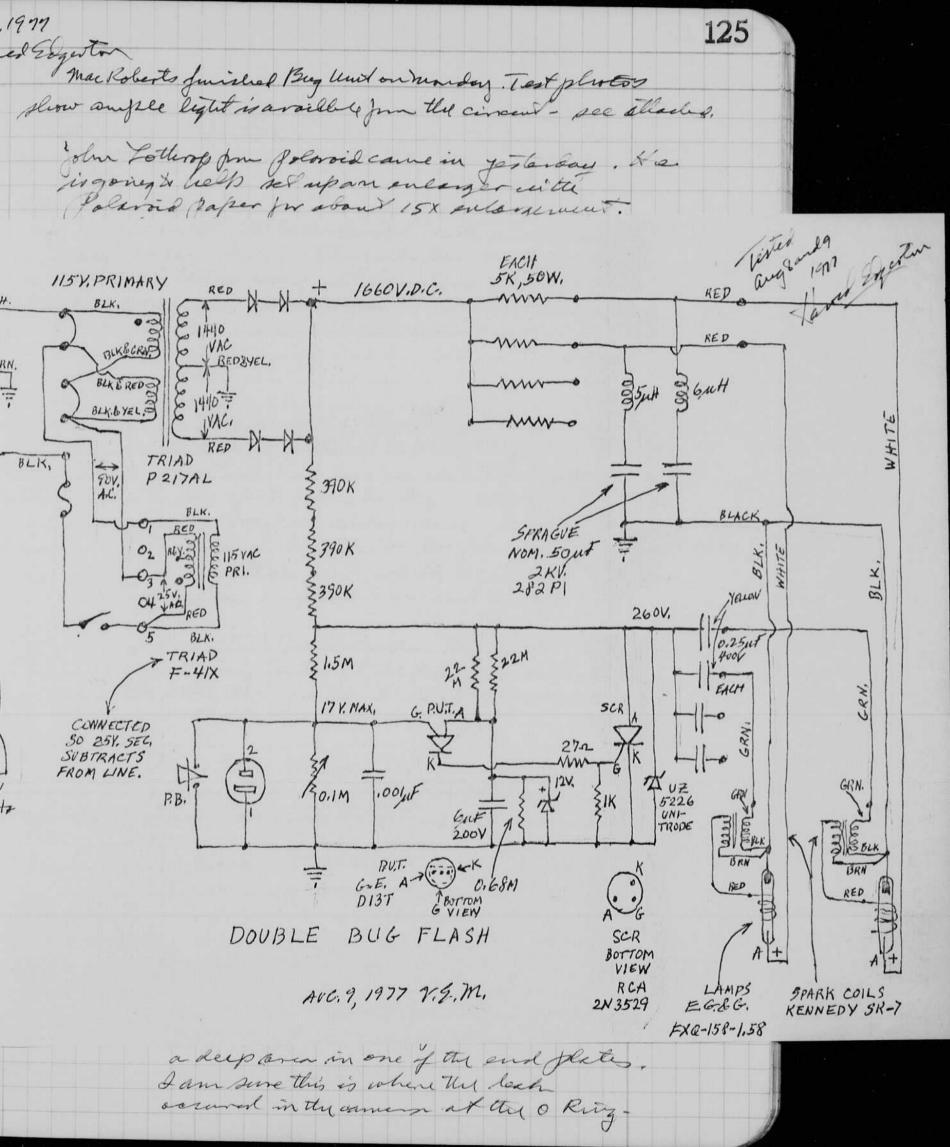
a deep area in one of the end plates.

I am sure this is where the lock

occurred in the camera at the O Ring.



aug 10, 124 aug 7 1977. The voltage was brought up to 1500 by Bill before he left on I riply. He plans to clean up the equipment on numbers.
The flash duration will be about 50 us with 6 wh series with Junels. Experiments will be medeloget proper exposure on todadwang 2pm. Bug plats unil see p 122. Expresence on plus & film 5 min DK-50 oh. Blue (light) Bochground and board.



aug 10 124 Aug 11977. The voltage was brought up to 1500 by Bill before he left on Friday. He plans to clean up the equipment on numbers. The flash duration will be about 50ms with 6 wh series with Junels. Experiments will be neade to get proper exposure on Hodeshoone 2pm. Buy plats unil see p 122. Expresence on plus & film 5 min DK-50 ok. Blue (light) Bochgroud andbook. 2.5"

EDISERTON. Esther broke a chargegree bottle on the bow. Dean Horm arranged the entire affeir at the aguarium. The ship is 65 ft long of 90 tons, Hwill be an excellent way for word to be done along the root line,

for words to be done along the cost line,

I fint an wester switch on the bottle which

closed the circuit when the bottle hit the sail of the

ship, Then this operated the Blity shotter of the

ship the this operated the Blity shotter of the

should be shown to relis and 25 mife, 15000 BCPS

toget a pesture on Plus x film. The plants way

made too soon! The liquid was going very fort,

the plus plants grapher campbell mode hand

toggered shot that was better sind it was laten

Several plants graphs of Sea lions and Doephin,

were made at the agreein. Sarah Sarker and

Sue miller were the trainers of the animals.

I used plus x film with the limit Blity shutter.

This leas is about f 22, It lacks defination.

I meed a better leas and an aparture. The strobe

This lens is about f 22, It lacks defination. I need a bitter lens and an aparture. The strobe x contact, could bely as an a parture by Ingging the flash lamp at a partial opening of the blades.

While in Top Sail M.C. I took some silhouter pictures of water from the ocean and from the cause, the

of water from the ocean and from the cause, the swall FXCA and supply was put above the sinh with both room which occal be doorsen, The par with the film was put in the sink. I souted that two minages were produced. One was the direct shalow, the other was award by light reflected by the bath room mirror. The spacing of the two diseases should be proportional to the distance that the subject is above the bottom. This is then a wreful testinger to show spacing.

angle when I was taking protures of cactus neadles.
The gap between the point and the shadow showed the distance of the reeder point from the film.

Jeft 20, 1997

Hand Edgetor

Classes started last week, I have a section of freshwer

on a seminar 65.

Left for Colif on Thursday Sept 15 for San Digs.

Carol Edgetor and Jim nathand were worned an

Sept 17 Sail at 1 pm in the Star of the Sea catholic

church in Fa follo.

On Friday Sept 16 Swent with last moller to the

Navy Island in San Diego Hartor, Ne went to the

Leep Inhungence submarine facility where we
inspected three submarine facility where we
inspected three submarine one of them was

afant for overhand.

The carner a system was discussed with

Et Smith. Isaggested the Utility carners

of Bentless. A relay needs to be in stalled in

to the must to keep the batteries "off" no til the

plutos are needed. Then a picture number showed be recorded so that the film will not be run to the end.

Today I showed my class the method of measuring light and how exposures are made on 7302 film with my portable equipment. A silhouth of cambridge water from 100 men. Drive was made to show the students

See plot p 128 Spirter. 1.04 93 102 ,03 .19 94 79 .42 68 61 .98 43 26 1.62 24 14 2.08 F062.

128 Sift 14, 1977 Fauf FX 6A in High or TR. Equip.

Peak light = 120,000 cp. Dur = 2.5 outfrit = \$ (175. Harves Sugerton =0,3000 Distance to type 7302 FILM = 173 cm. min develop in DEKTOK 84 DEENSO 1.26 METER2

1. Islash of a water dropait water on a film. Catch the drop after ins bait It show noves and other distribonces in the water. Start with water about - film 2003 mudeep and with a drop falling from 12 inches. Try to observe small drope sthat form on the rin. Shade. my sur sow reflection from the woler surface of ter the drop has made im pact. Figure fall. Vary the surface Retirement on Dix 2 77 water in a deep layer by the reflection method. Recostin at tay ion -Park Congregational durch for John Chapman and Jean Joe. Oct. 3. 1977. Outprit of 12 gap - sealed electrose lamps with.

Med at 1500 volts in Buy Hash wint. 2 Tamps. ende - 9×10°cp peals × 40×10° us duration = 360BcPs. (at 1 meter) Mill found 480 Bepswith meter at 1 ft. The lamps were in a cyclindistal glass tweet 3.8 cm O.D. 150mm Tests of Lous. 8"-21" M = \frac{8}{21} = .33

150mm Tests of Lous. 8"-21" M = \frac{8}{21} = .33

150mm Det leus on correct Don scale. Then maxextensin. -YSARON. The lens seems to be bitter than the one supplied by the Vincent company. Oct. 6 1977 thus - 1977. 40013 cps, 4000 DA= (400125 = 45= 10 D= 0.5, A= 11/5=122, Photo seemst chech, oh! class demonstration. copy of flash sent to Bob-monchell 720 fifthane 2002/ with Pigeon plats

130 Sept 30 1977 - Hard Dyorlon Senestrigger uts twolongs in series, output -Loup covered with glass and Reflectur worthsal. Some missing at 10 pm. Oct, 1,1977 Famp firing all the time today! The law was lipped to illaminate the Dome of Bedy 10. off at 11 am. Plants operate at nightonly since cle power supprey makes a moise on the changing ay cer. Jamps #. FX 45. 6 gap. - \$ 12 mm 0.0. Outjust NCPS. 2KV. 40 mfd 2 1.1×10 peak light Flash Duratur. Janestrigger 260 us Dur 286 c.p.s. (225) with meter. Condervater T.V. Why not use a multiple set of convers to get 360 coverage with multiple receives out newdows? Then then would be no need for potalion. How about a minor to give voriable looking angel? Rotales. 4 comos 90° Tests of new lons in multiblity shutler as mounted by John Lotterops. Bomm focal length, Dian of hole = 6 mm Exposure of test for Lens 26x forallength = 26x15 = 3.9M 390 cm = 4M, (I week 2,4 M for one test!) enormany part, Lhad a 3600 RPUT 1/60 per per votation white Pointer in Photo. The oak box Kodolim (pre) was used 86 or BCPS, at 12 ft DA = 8600 = 8600x5 = 143000 = 215. Plus x Jilm. 25 5f20 The leasin f 25. Exposure of at DK50 6 min

Filming and Separation Record

	unmounted photograph(s)
1	negative strip(s)
	unmounted page(s) (notes, drawings, letters, etc.)

was/were filmed where originally located between page 130 and 131.

Item(s) now housed in accompanying folder.

150 mm. lens 18,000 BCDS STREOBE. BLOR OF BLAVE. WOORPM ON 1971 H. Elgerten

150 mm. leus 18,000 BCDS STREOBE. BLUR OF BLAVE. 1600 RPM OX11911 H. Elgerten

132 Oct 15 1917 Harred Elgerton We had a party last night at the MIT Stirle From with as dinner afterward. Some 40 were there to alabrate and ceretary 3 miles honor Bill(Earl) were Roberts who revolved 65 years east spring. He will continued help us in the stroly lea. Bob Rines told of artintes in Scot Rand at Food hers. Bulcrowstein - Either and I went to Mebrashan on the weget of The 8th omalia, on the 9th we writed Jesne Reton Ship Jeongram in Woodline Lower . (She is my mother's yordlyest sister). Then we went to Cherora reclusion to see our famos, iti, Sattended a board meeting of the Jul, Sensors co. Oct 19 1977 A. The MIT. chilof Cape Cox will wint the Serve Cabrally at 130 to 230 today. Furt there will be a pieme at the Historian exhibit on I took multiplant plantos of a dart yester barg as an example for the Seminar Class! The picts showed howthe bird dranges direction when it is dropped horizontal. after a drop of about 1 nuter, the point is sown. The dort oscillates Total in author meter of doop it is again almost vertical. Oct 2377. Photos were made at the aquarum fast wight yesterday at 10.30 Sur Parler & 14 Stading belfed Doron Bobrick, Iwan Hurng B Devise Penton Chas Garrell. dured 18,000 BCBS (2 spot reflectors) Plus x at f V. 3 Color Yerrchand II. #x5. 3 B&W. The close of freshmen semi war student awet 100 men drive for dinner. Dana Collander (Wellesly) was with us. Out 24 Sunday, Photos of som weare made fin Bedg . 7. et 4 h 5 pm & get avoring

Acrock Elgerton

of Chas River Water yesterlay to investage "floaters"; There seemts be on all of our photos - veg and lass.

reduce the in water partices but there were many more feoders! They must come intersory they air.

FLOATERS!!!

another film was exposed after a their soap solution insusation till surface as the center, It, the thingilm swept the "floater" quickly to the sides of the tray, I would see them easily when I asserve the floaters. I without reflected light from a lamp.

If now appears the "floaters" some from the cir. They cause the patterns seen in the film caused by the distortion of the surface of the water. Fonce of the floaters could be in the tray initially, others drop in from the air.

I recall a mithod of using way from ones sar to clear the surface of a Signist. Pepper (growd) when springled on the surface of water is not disturbed when a finger is touched to the ligainst. However, if the finger

ear to clear the surface of a Signice. Pepper (growd) when sprinted on the surface of water is not disturbed when a finger is touched to the ligerish. However, if the finger is first put nits ones ear to frich up a small amount of earwax, then the spepper particles are violently rejected to the sides away from the finger.

Thesh III James Killian and I had a conference today about the revision of Flesh II.

Fillian agreed to contact Greenewalt about whom

plates of birds for the book,

I have already written to Pose and to

mili about plated.

We (S.K. & &) went over the flash II Book commenting about the photos swill be used. Some will be rejected. Then new photos swill be used. Solhonitaplutography will be used. ampliasized and illustrated. Celso under water photography will be discussed at great detail. The new Stabotas of Benkod will be shown.

134 Oct 27,1917 Harvel & Elyston I proposed a sniple strobe projector of movies today to mackaberts. The idea is & use a belt of 16 mm film with a light detector trip to finethe should in the sprochet holes. The drive may be a motor or even a small crank to be operated by hand, Since there will be no sliding parts I believettest a continuous bell of flew our be used without wear. This should mushe an exhibit which will have a tremendous life compared to existing intermittent systems. of course there will be flechen at frequencies below 40 cycles, but there can be televated for a short look, I propose & use a belt of aslow milk sean to make a device of this type for use in Strobl alley and other peaces. the very early 1/2 frame 35 mm movies mushe of the mith drop splash. This was probabley in 1936 ±. dresall seeing a similiar device used with a near lampand sparkcoil in some old scientific found. Oct 30 1977 H. Elgation. I more photos were suide at the aquaring yesterday morning. ann Cotts raw the sed lion part. I found the sea sions were difficult to pluto grapel since they one so darly, steples were tropped by others enth flash and this coursed wet meis some exposures. I should have covered The photo cell of the unit that was used for the Thulterynch, and reduced the gain of the tide light - or ain of Is feliot tale two s the Keg light. soformer a. There was a lot of splash

again problems with the synche dreets other photographers.

See my letter to Syd Wignel of dry 6 1975 One problem is how to pull the cover on of the WE14 14 The Hammy Pilar miles much water and still netain The material in the pipe. method 1. Prita cap on the top of the Jupe to of the water when the 1 Jaine pilse is withdrawn from the unter. methol 2. attach a line & the end of the cover so the puth can be just into a horizontal sopret before being pulled out of the water 11/1/1/1/2. It could be upended I to keep the soff material in the

The mud sedminent samples from 6 to 10 feet deep are most in portant to bring up from the bottom. Then them may be something at the bottom which showed be sampled if at all prompled. Old wood can be cast and bringled up but grand and rocks will will be very lefticult.

sife.

a vacuum on the end of the pibe before it is pulled out of the water this could help had in the material of the betters food.

136 Sat. Nov. 5 1977 Hand Edgerton 4-4051-117 Strole Fab. the juggless in the area were having a juggle to Layin the Sala Prierto Rico in Stratton. I brought some of them to the mulliflash Studio about 1030 for a few plates. David Ledoux (ashdown House) Rod Holbrook. art Tembell 3545152 camb. Ship King (Harrard) 3546486 Home 45 45 67 (4 Ring) work Holly Greeley amhers Y. Luise Vormont. mile mosches, David Willen BISEN The first photos (4) were made on flus x at for developed 6 minutes, the action was not TAPE Good sind the celebs had beach take on the I brought Spipared alvin Heberli 491 Holly Druley book about 4 pm for another try Fresh Plus x at f 11 into the strike at 60 - 0,3 Dec on Skip in Holly with Indian coul. I mude y bells on Ship at 60/0, 3 se and 20/ ser for ser 6 fearlies?). I had some problems with the came a shutter redease. Hus need attention. The photos look fine, I we seeve that some great solve plotographis will be made with these subjects. Mor 9, 1977 I called dan Raymond today after Calleins Dil wasts an Fram in a glass sphere. I recommended 16 mm is a simple type with out a shutter. The trip could be photosletic thru the sporoslet holes. Nov-11 1977 Jun set plotos from 2 selflow 13 etg 7 Thus x film 135 monkens f 25. Densely/ filter. 315 first white donly 400 405 Jungut 320 Parly serods Bling Piler 420 gone

Nov 121977 Haved Elgetin

> thus of Second in am about 10 for plotos of Continued, a great horned out of 1/2 years al. Students David Silversun. , allan Jun Brigher Liven Hunny helped, We used an 3 lamp 6000 BE185 mind of 60 us apended pour 110 notes. Photoswere wednet 7 fx the owl on

Polaroid 58 orter 4×5 film at f 22 (dash) and f 16.

the background was a curtain. We need blue paper sercen!

Mit Storehoogs big went today.

behind Sest f 4x5 Norich med film color may Ast 100 D+ flter 345

350

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Sem pholos Kodachrone 25 un FUJICA 57705 # 8081324 at 35" from north well on metal in flow off 7-201.

345 1/60 f8 346 160 .98

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Som al scrol, with sum at Horizon.

16 gam moves 16/dec 45A 400 film in Hall's show the walls lighted. 24/sec will leas Hopped down

1/1000 see supat 5 min metaros.

Dget the gum.

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filer Orther WHO! came at & and we took

plistor of plancton on 8x0" 1302 filer. The

nesults were great. Inter were made and

taken to WH. I groupste I flash lamps FXBA.

Nor 25 17. Wholsoff brought in plistes (16 ma for Toshner). We down

from stronge dot patterns on 3 formes?!!! The 35 mm

pling have not been processed.

Thanksging down in Jalmania with borter a long on

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and daz gother Betty.

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Vision stadio Gallery on Book 23 form 6 to 7. Many of

my friend a showed sep molading How hade a grant fatign. Bush as showed so has large to show was

put together by They Payarges.

The Joule Sprayer was furified for agreement,

Fyon and — come over to be it, they
wont something different with another

pump to decrease the head needed for the
operational pumps. Wegave these full
information on ordering pumps and ather
parts for an assembly to be made at the
lequestion.

13 Red gave us two strobosofes for their
gob. We hept one at not and gone the
atherts tyon.



Jeshwer den Junevan Dr Junevan Dr Johnson, Hurde-nalogelots 100 us Elapsel. 16 mm of t un Oug 24 off 30 aug after problem.

Sovar Enggering
M.P. #1. Me 16 Sept 1977 on Raft.
Have worked some time.
Was due to be checked at and
of curyout. Weather bak.
Driptery reading - counters.
212 counts 192 exposures.

#3 wint open 17 sept 198 courts.
of tychak sline 190 app.
19 sept. sept. 21 lost.
Castle Bay due to dawage to
Bur

4 Oct. 2, 1979, 443 counts.
250 counts.

Birklayner & - dies Bad , weather.

Hunter broke lives and was purped out.

algae formation alum and glass less scotes.

Heriot-Watt Uni. - Ekinbugh.

leave submarieland other equipment.

Jack. Trings orthogents.

Med side som somer. July. (June 2) no dete green

July proposed forthe expedition.

John Mills familist Deardt legt.

Milner - Please tables. Itself. Clyde head men

Horottwatt-platform tele.



for plutos of Porpoiss & Sea lions. 18,000 p.c.ps. file of planeta on exp" 1302 files. The

plates of planeta on exp" 1302 files. The

nearlis were great. Inites acces wish and

taken to U.H. I gover free 2 flash lawfor TXBA.

Nor 25 17. Wholist brought in plates (16 mm fm Todans). Us become

me stringe dot patterns on 3 frames?!?! The 35 mm

plus have not been processed.

Thanks given but was in Jalumin with fort a law or

end family. My resterman, there to with his historial

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Verian stadio belong on Thor 23 fm 6 to 7. wany of

my friend a should sep metaling Ifm line a

falson bishout with on this. The show we,

put together by The Hogasfas.

The Jon and - come wor to Ale it, they wint for alling different with author to pump to derrease the head meded for the operational pumps. Wagave these full information on ordering pumps and ather parts for an assembly to be made at the squarem.

Blad gave as two strobosofes for their job. He hept one at my to and give the stand of the ather to the strobosofes for their job. He hept one at my to and give the attents tyon.



Jeshwer den Timerat or Timerat, Campings, Tony Barlings, leport.
Unide-paloyshots 100 us Elassal.
16 mm of t m Och 24
off 30 any after problem.

Sovar Enggering

M.P. #1 un 16 Sept 1971 on Raft.

Have worked some time.

Was due to be checked at and

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212 counts 192 approximes.

#3 mint. coper 17 sept 198 counts.
off tydrak sleve 190 ax p.
19 sept. soft. 21 lost.
Cattle Boy due To dawage to
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4 Oct. 2, 1972 443 counts.

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18 Dec Counch Row Boat. Hunter broke live and

algae formation alem and glass less scotes.

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July proposed for the expedition.

John mill o famps & Search lage unichead men

Nother - Pecose tolder. Strilled de head men

Horothwall - platform etc.



for plutos of Porpoises & Sea lions. 18,000 p.c.ps. 140 Juni 10,1977 - Harred E. Edgeton. Frily Boro was here on the & and 9, Hegane the Adme active on the 9th of 10 - 1250 at 1517 that be grace at the mus of Sii on Dec 8, De 20,1977 Hs, Janise Key come Dec 18 at 945 am from W.C. We allended Payson Park Church and then went to John Bullets howe in Watertown for a brunch party. monkay. Dec. 19 aguarium Stron - Properhibit hies. Der 20 Mus of Sei at mon with Jan, Jolanda Hinton came in with ballistic problem. Plan to take plates bornorow. He 27/977. Sun plotes from afet, 11:6A 100 memorial Dr. afol. (Strat 2.40 f 25. Varagon Lens 135 mm. Plus & John 5 minute Lateran 6 min Dev in DK 50 filter 1.35 lensily. fast night throstomortors have in Cambridge, Peter was just back from Breece. He goes to the Tallaland Aslands next ninth with 8 people to be work on the och ships the conthe drawing Terry Vase 238 Newbury 54 00116 536-6176 Vacture galling. > Exposure for above oh. The sem was very dark. D= . "The buildings on they Boslow sill were under exposed. a picture lakers on Der 26 when it was cloudy showed the fouldings much letted over flly sequence of live was much less filed 35 7.05 to 10 am 1000 on of 5 min Der 27. 1917 Ries, Bol, Kole Otet Fell plates any Septor. somer fine, July 76. target. Douly when lights 4. sound one on. [5 H distance Bosters] 3) That land close to cannon. wax for 8 ft with James Lost after 8 ft. 'Inffic is worst in fine July. Ito July onealgangest lest.

142 Der 27, 1972. Rogerallen III willcome tommon to discuss Johness paper on sonar at I wan. Bring in slide etz. The jurish is called Spectrum. Healy 3+ 492-4108 9x10 Polaroid color, on Townson thurs. Filmlest, Light D Film 0,3hps. 89 cm 1302 Bring. 6.3 hp3 17 cm So 343 Bradel strip. Exposure wil. Weshedout? 3 min 0.3 hps 19 80343 " 0. 0. 0.03 0.18 0.39 0.63 0.94 1.27 4
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0.04 15min 0.3 hpc 17cm 7302 Droked strip. 2.84 2.97 2.77 2.46 2.01 1.45 1.0 John militale 187 5721 wondo & borrow a dont per & Starte MITCHBU 322-7777 cours to bornor strole entho late of red out put for the destruction of cells and virus et. uniform # 48mf2 lighting # 48mf2 NG. org. 50mfa Such strip, anger and good. too big a film for dutany 0.58.36 .27 .15 .07 .04 17 cm 503 x3. 50 50343 0,3+48 Seem 20343 Salavia with water & show a 60 u cello from the mouth. 50mflotal. one FX6A crachalasal. Thin so distance changed to 40 cm 3 min m 50mfd 50343 ang density = 0,65 Deptub 1:1 as about. The particles in this film are about bour in diameter. 72. note Dor 29 "SOVAME SEE 146 theog are originar shafted compared to previously flutographed soliva samples, The layer of with was too think full to and othere, with the full FXGA sine

Saliva Selhouette 229,1977 Hours Elyesten. The Fx 6A kup halacon in I seel seel NG. 36 uh I put a 36 wh inductains in series 36m enth the 16x3capasilon & out down the peak amount, 16 16 16 40 cm to file. 100 outo 50 343. (yesterday) FX6A resent 403.) this should get letter defination of all the mess of light. 150-100 -50 2.545 12.5 us Subject. 12 1/4 9 Dec 31.1977. Sonald Krause 5 old town Road \$ 236 ayer wa 01432 came in yesterday; Ho gave me a trans parenty of a brish well plots with outside clouder. He was fromed of the tanh to light ratios mitty example, work, I said in " mind I was not meteraled in the fill of afford that he is personing,

Known is a friend of Cleas. My clooks.

Bus Kayafas same in with preting & le signal for the folios. also chales from Unity for 120 and leas for prints. He discounted forgrown and gave mean associating futthe vest.

Small dises 50 m ± water. analla vulgans diffugia Q Jun Barrett.



Newcomb Promoted

John E. Newcomb, Jr., assistant director for administration at the MIT Center for Advanced Engineering Study (CAES) since Oct. 1975, has been named associate director of the center.

The appointment was announced by Dr. Myron Tribus, director of

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Mr. Newcomb, a personnel officer at MIT for eight years before he joined CAES, will have wide responsibilities in each of the center's main operating areas-Advanced Study Program, Self-Study Program, Tutored Video Instruction, Cable and Video Services, Technical Curriculum Research and Development Project, in collaboration with the Department of Material Sciences and Engineering, Project Proceed, in collaboration with the Department of Chemical Engineering, and the Conference and Seminar Program.

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A native of Lawrence, Mass., Mr. Newcomb joined MIT in 1962 as a technician at the Francis Bitter National Magnet Laboratory. As a personnel officer he was responsible for non-academic employment in the School of Engineering and was deeply involved in programs to encourage the employment of persons who had served prison terms. He remains a member of the Governor's Advisory Committee on Corrections.

Since 1968 he has been an honorary member of the MIT Quarter Century Club and is its executive director, a post he will continue to

FROM OCEAN BOTTOM TO DOC'S WALL-An undersea camera and strobe, raised from the wreck of the Civil War ironclad Monitor, has been mounted on the wall of Strobe Alley whose leading citizen is Professor Harold E. (Doc) Edgerton. The camera/ strobe unit was lowered in 1973 to take pictures of the Monitor, which sank in a gale off Cape Hatteras. It lodged in the central portion of the ship, but was recovered last summer during another expedition to the famed warship.



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Page 8, Tech Talk, January 4, 1978





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FROM OCEAN BOTTOM TO DOC'S WALL-An undersea camera

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thro indus MIT age of industr nearly stitute al business "Corr Awards, MIT an recognize creative a in busines national cha The awar bowl awardee's n the words: Corporate alumni are o man, chief ex dent or mana companies. Corporate Le Chicago were J. Harold B and Chief Ex nebago Ind City, Ia. Curtis D dent, Trail John J. C Chairman an dent, Braniff Tex. Colby H. C dent, Eastma ter, N.Y J. Carl Cla dent, United New York. Samuel J Treasurer and Chief ding Corp John A and Chie Western C ca, Fort W

William

Presiden

Page 8, Tech Talk, January 4, 1978



Earth & Planetary Sci. (12/7) R77-216, Oceanographic Res., Earth & Planetary Sci. (12/7) R77-216, Oceanographic Res., Earth & Planetary Sci. (12/14)

7-218. Aquatic-Life Chemist, Civil Eng.

R77-220, Bio-Chemist, Ctr. for Cancer Res R77-221, Neurochemist Res., Nutrition & Food Sci. (12/14)

E77-46, Admin. Asst., Comptroller's Acctg. Off, (10/19)

Sci. (12/7) Computing

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(0.19) E77-47, Eng. Asst., Aero/Astro. Dept. (10/19) E77-54, Eng. Asst., Ctr. for Mat. Sci. (12/14) E77-56, Estimator/Scheduler, Physical Plant

E77-59, Nurse Prac./Physician Asst., Medical

HOURLY

HOURLY: H77-89, HVAC Designer/Draftperson, Physical Plant (10/5) H77-137, Tech., National Magnet Lab. (9/14) H77-170, Waiter/Waitress, Endicott House

H77-176, Mech. B, Energy Lab. (11/30)

The following positions have been FILLED since the last issue of TECH TALK.
B77-885 Sec. IV.
B77-895 Sec. IV.

Sr. Clk. IV Sec. III B77-695 Data Entry Oper. III Hourly Sec. III Sec. IV Tech. B. H77-190 Sr. Sec. V Console Oper, IV B77-659 B77-615 B77-723 B77-682 Sec. III Sec. VA Sr. Sec. V B77-670 Acctg. Sec. IV Sec. IV Jr. Prog. V B77-701 B77-714 B77-544 B77-722 Sec. V Sec. IV Cashier Tech, C Sec. III Sec. IV Spons, Res, Staff Sr, Clk, III Sec. IV B77-649 Sr. Clk. III Tech. A Draftsperson Clk Spons, Res. Staff Exempt Sec. IV B77-660 Admin. Staff Spons. Res. Staff Typist/Past-Up Artist B77-706 A77-56 D77-631 Sr. Comp. Oper. V Admin. Staff Sec. IV Sec. V-VA B77-682 Spons. Res. Staff Spons. Res. Staff Sec. IV

The following positions are on HOLD pending final

decision: B77-715 B77-479 Admin, Asst. V Clk, II Sec. IV Tech. A (EM) DOE and who worry about a chemist's understanding of the problems of big science. MIT physicist Herman Feshbach says that, even though he does not think Deutch has a "gut feeling" for research projects of the size of a typical high energy experiment, he has gained some familiarity with the problems of the field while serving on the university's research structure panel. The physicists' apprehension could also be attributed to their unusually weak representation in policy circles in this Administration. With characteristic candor, Deutch says that "it's true that I'm not a high energy physicist, and that is not all bad.

The Massachusetts scientist has specific ideas about what he intends to do in the new energy department. (He commutes to the capitol each work week from Lexington, where his family lives and where he was a town selectman. Friends in other cities contributed small amounts to aid his election, and copies of his campaign poster are treasured as rare pieces of Deutch memorabilia.)

The now-defunct Energy Research and Development Administration (ERDA) was generally criticized for putting too much emphasis on big demonstration projects and Deutch argues that the inherited programs do not include as much fundamental work as would be healthy in some areassuch as the solar energy effort. He also thinks there is need for more basic research in the environmental and conservation programs, noting questions about the safety of liquefied natural gas transport and the atmospheric buildup of carbon dioxide. "My ambition is to see all of the mission-oriented programs do good basic work rather than have it all done in the basic research program," he says. Deutch will have a formal budgetary role in reviewing the goal-oriented programs, and will also head an R & D coordination council that will

The suggestion that some is a chemist brings to mind a certain character type-the person who toils long hours at a laboratory to bring the public "Better Things for Better Living," or an ascetic pro-fessor more comfortable with molecules than social problems. It is not an image that fits Deutch. "To think of John as a chemist is something you just don't do," says his mentor from the Defense Department advisory board. Instead, Deutch's work in chemistry may have been an intentional interlude in a career plan that has never veered too far from matters of public policy. His interest in theoretical chemistry may have led him to that science as a place where he could make a mark and gain the credibility necessary to work in public policy. Enthoven, from the McNamara systems analysis group, thinks there are marked similarities between the requirements for Deutch's early defense work and his present job. Furthermore, it is almost essential to establish credibility in some disciplined field. "In public policy, everybody thinks he is an expert, says Enthoven, who is now a professor at the Stanford Business School.

Having returned to Washington, Deutch appears to be in his element. Old hands are already noting him as a figure to watch. Some associates are still slightly bewildered that he has gained such broad experience so young. But it is apparently not through happenstance that he has so many friends and colleagues in the defense establishment, the chemical industry, the universities, and elsewhere. The man who played a minor role in the civilian redirection of the Defense Department may have arrived at just the right time to play a major role in developing energy strategy.

Tech Talk, January 4, 1978, Page 7





146 Jan 1.1978 Handakgutm. Forty last night to celebrate 1978 atriose at Ruth Sppins house in Belmont. Rightmeyers, Junice Kispert, Holden's guesto, I write Mac Whorter 148 Hacima Ca 939211 about the lese of so 343 film then a 10 x energeneent to \$ 1302 film. next a contact 1302 so the resulting mint will be light field, The two 1302 negs were put emulain to emulsion tractor interesting ophish effect when slightly dispersed. affind that fouring the enlarging lens is mighty afairture go gives the maximum resolution? Jan 31978 I worked on the video tapes of the monter for the Feb 13 demonstration. Julia (with frof Dreen) told me that the month sells were called "Squame" There one about 60 in diameter. Jan 478 El Paples and I discussed plats graply with stroke. He would to do combination of daylight and stroll or dunglash. Interomeded the use of color negative. (ASA 100) so that bath, B&W and color could be made for price, I have used one roll of Veriloton II VP5 -- 135 - 20 ex posume will success. ser. page 138 for a color print. an 5.1978 Presen - discurred on the treeplans yesteran Elapsed tim study of growing cells write 2 minute ruteral of time believe platos. Diffuser. STROBE.

met for 7 1978 with King at the Centro Comercial
Sauta Monica
Of, 204
Cavacas Veneruela
(104) Atquitecto mus of Science. Sanabria ists make a Seien & museum in Venezuela. architect 3.5 al aircore inductor Jan 11978. Testof FX GA with curint solded of 12 Tio 12 Tio Gossen meter 32 64 46 41024 6=250 2,2 msale 5=100 f32 x 1 ft = DA = 32 = (BCPS 100) = BCPS = 32 = 250 then two IR. light melons at I foot

Est 8. limens/ sq foot x 1 pt = 8 BCPS

perhaps this photilule cannot arange

this short perh. 726 BCP5 at 340 V, (on AC) Honeywell flash unt on (M) Gossen meter ASA \$5 Reado Sat 4ft. Bride fector = DXA Reado From meterscale ustas \$4 8-7×4 = 28 25 = BCPS. say? 784 BCPs about right. Jampin 3 cm long, in Reflect 4.7 x 2 cm. Mash 8mm circle one- The reflector Fassen 2,2 at 4ft.

Read f3 on scale at ASA 25'

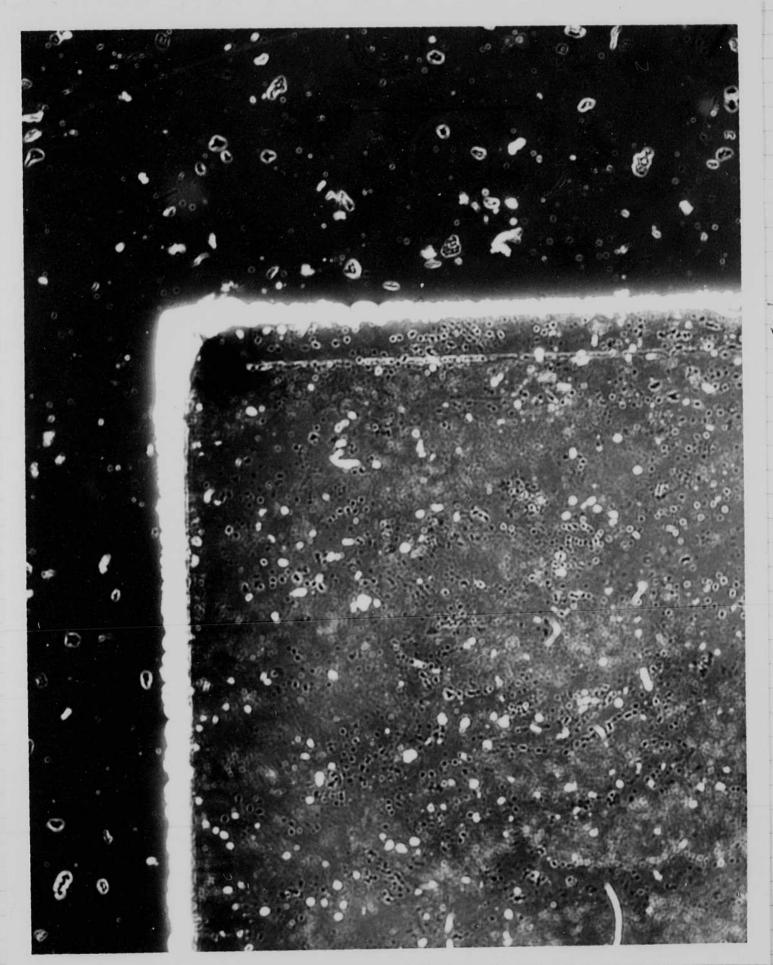
DA = BCPS = BX4 = 12 = 144 B.C.PS 25xx2 150/ by the IT = BCP3 = 144 = 144 = 900 limen ser/symuter (92) 1/2 308 Bops It assume the output is now 100 BCPS with the of 40 cm away. The 0.8 cm livele 96 XI = (95) peps. Goram shows 144

Jan 1978 # 20 of So 343 fem 148 Lauf Herland Honeywell fortable on (M) with O. Tem dise in fruit of refereits (on reflective), 100 BCDS weasonal seep 148, # 1 Distance = 0.5 meters, 100/0.5 = 400 lumenserao/squeter. #2 " = \$1.0 meter 100/12 = 100 lumenoserols/19 meter. Pirture wade of salira in 10g on 30-343 film 2mm Deblotti was shown in one corner. Jan 8,1978. a serond pistend was med of the water saling mixture. a 5x5 cm still cover made of glass a force the layer of water to be thinner and the resolution to be come better. See you pre! -> Hantopoliarges peters? > 111 2 Does the Prossure .18 breakupte 1.38 .37 ,51 So 343 Treame .63 1 cells 0,94 VERTON 1:1 .03 7=3 -> PLUSY & 1302 FROM PIDE THESE SHOULD BE THE SAME 10 100 286 400 TT.
2 Log10 17.3

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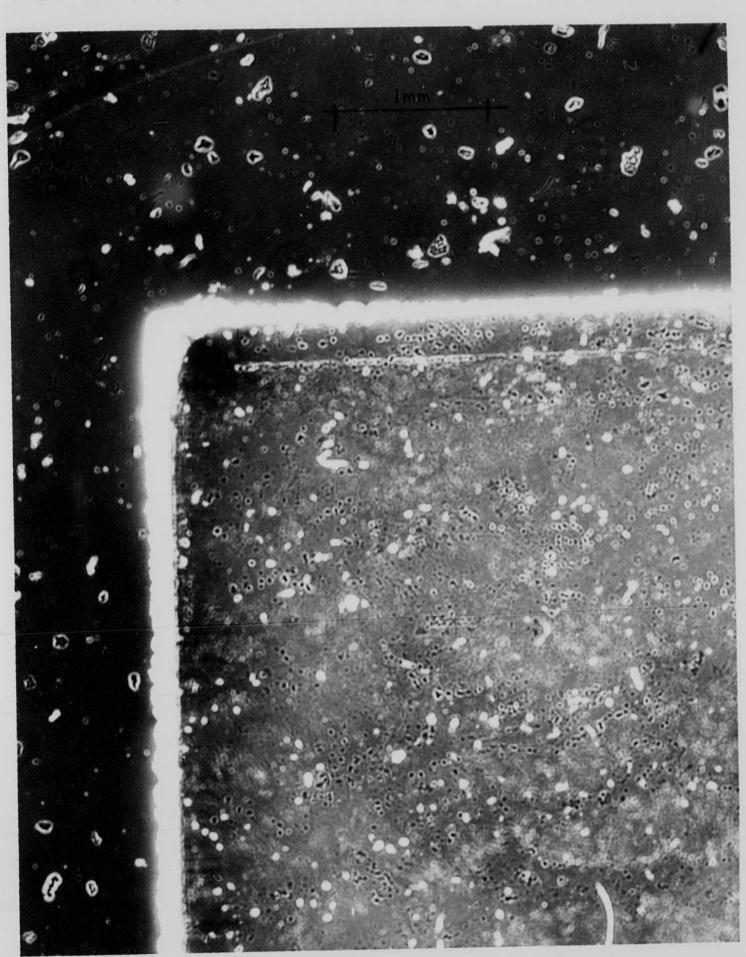
5mm = 0.13 mm = 130 m 40 = 0.04 mm = 40 m



_ s glass cover.

Jan 1978 Det So343 felm 148 Lamp Herland Honeywell portable on (M) with O. Fen dise in finit of neglection on reflective). 100 BEPS weasoned see p 148, # 1 Distance = 0.5 meters, 100/0.5 = 400 lumenserodo / squeter. #2 11 = \$1.0 meters 100/,2 = 100 lumenoserols / pq meters. Firture made of salira in 10g on 30-343 film 2 mm Deblotti was shown in one corner. Jan 7,1978. a serond pisture was made of the water saling mixture, a 5x5 cm still cover made of glass) force the layer of water to be thinner and the resolution or be ensue better. Sucrampiel -> Plantopoliarizes protent ? , > 111 2 Does the Prosume 0 0 0 .18 breaking to .37 .63 So 343 1 cells .03 7=3 -> 9135X 5-4307 THESE SHOULD BE THE SAME -> 100 280 40 TT 100 IT. 2 Log10 17,3

5mm = 0,13mm = 130m 40 = 0.04mm = 40m



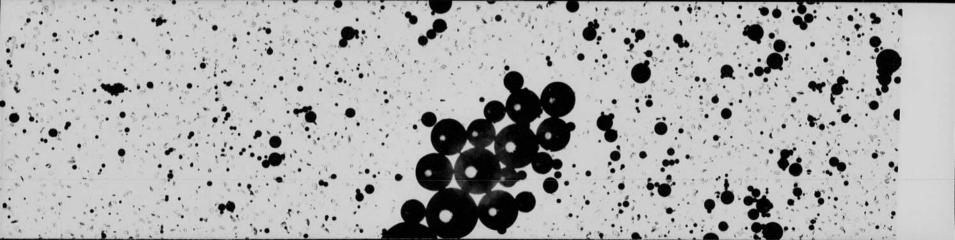
_ s glass cover.

Filming and Separation Record

 unmounted photograph(s)
 negative strip(s)
 unmounted page(s) (notes, drawings, letters, etc.)

was/were filmed where originally located between page $\frac{148}{2}$ and $\frac{149}{2}$.

Item(s) now housed in accompanying folder.

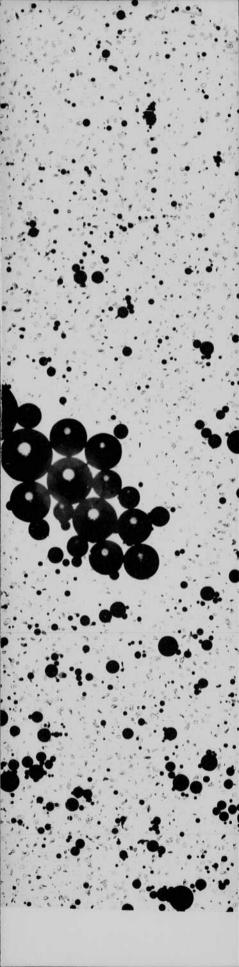


Filming and Separation Record

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negative strip(s)
unmounted page(s) (notes, drawings, letters, etc.)

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Item(s) now housed in accompanying folder.



15X Square Jalls 0.12 0.39 0.63

150 ang. 1978. Harved Thyerton I Storted a series of Colors likery for this week of 1.48 (Independent Hady Jored), our room 4-402 was packed forthe slide and movies of light speedading with strobe light, then Ron Buchino showed some of them howto platogyan bullets. Judy brought is save of Bree's experiments and we started a set up for slapsed line planting raping after some discussion we findly selected a B.R. storbestand as a light source. It now has been confiled to our 16 mm slapsed titul anners, There usuts 3 minute enterists. Our maxon this = 2,54cm = 25 mm equipment is about , munte for 50 ft of frem To exp per fl x30 = 2000 exposures. 2 = 12.5 1 x 2000 = 33.3 hours of time for 50 ft of film, = 166 secondrof showing = 2.4 minter of projection. for 33,3 hours Stow down valie to x 166 an = 12 x60 = 920 spreedup. by a stroboslave output = 0.3 BCPS. Hodelsome 25 requires what IT for density of 0,5? IT = 0.3 = 0.5 = . 1333. lunea ser/ square meter. feta = 15 mm of kins 3 + 3 Imoge lowson Dulject De Tratout De Santtel light system 1 fil for lens the for the a prostint application.

1 fil on lens the image of the lamp will mayne firsten = 63 the larger than the laws. in Electronic fund strice ou men Hill. & Then the above agention proge ares not hold sind only part of the light is effective. the clove calculation shows that the con derser system is a very powerful one for backillumination, another system classiff and 1 make a farallel beam, 0-1 14 nowth aperture of the Strone "Haraliel" beam clens controls the light on Julgert. Objection Ily film un contract & lens, the freezewas ochum on -anson

4.45

Jan 21 1978 MIT 4-405 Sax. Harved Edgestor. I was to be in It Tanderhall gesterday to work with David girk at Bibina Binini with the sile men and penetrator. a snow storm started the night before and completely stopped the angort. my gear, 407 ben, is at Eastern dirlines want in for flegal 881 to It Tander Bala at 10.15. I may get out ou the 22 Sunday of the air port is cleared. Itelhed & low Butler of the West Value Beach Leinene museum yesterday Unauch fay collins of the MIT Clube down these. It seems that a meteor his the water Looyands of shome. There is save rutered in Juding of with the donar or a way. mac cellister ZINK 305525-8284 is mon this too. maria mitel(3)

Junil Zinh on the 144660 TV a 42'
Hatters commen. We took side or west with of
the main what the penetralian
records were very poor. I want on
12KC Imbianers a in the Good reflection
and a 6KC Danble massa.

Opin 30. Itash a series of plates at the

Jun 30. Itask a series of plates of the fem set was at 495 pm t. and one day before exact alignment fan 31. today. I hope to try again if the one no clouds. There were low clouds getteday.

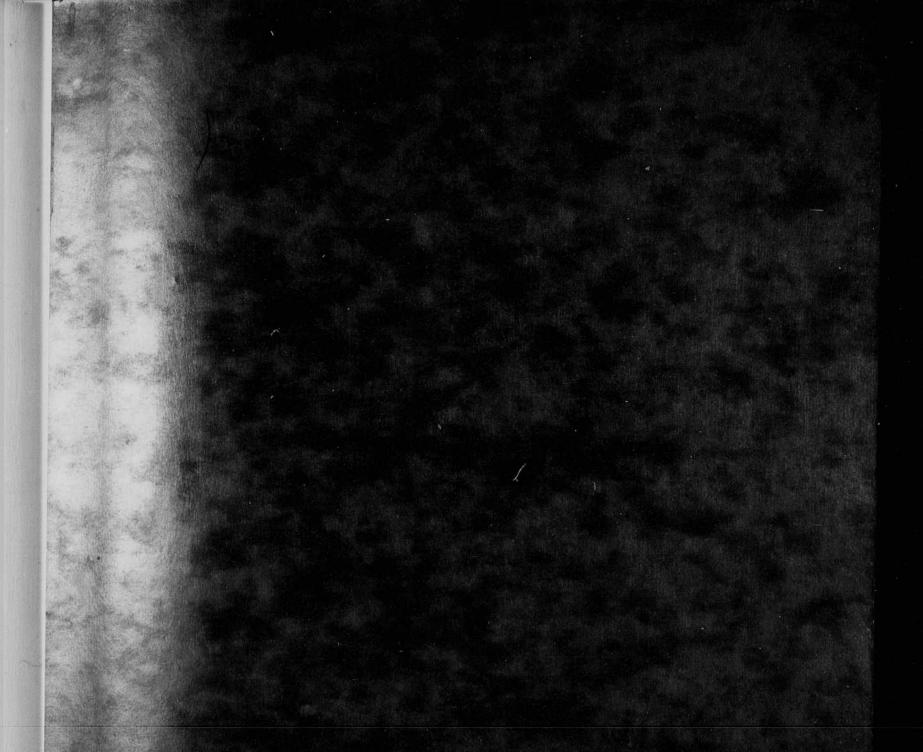
> Plus x film f 25 /100 so. Joursty filter 3=1.92. This ires nemonal for the last plusts when the sun was below the Armyun and with cloud.

L			
	Sun Pholos	Jan 30 1978	ndes made during ploolog suply
F. LTER			1/2.
22	4,25	n on lens 7. Elge	o jeur p
02	4:30 pm su	n on lens? Elge	6 min.
, -			DKGO fresh
pz	4:35 " "	oh	Omin. DKGO fresh 72°
02	4140 " "		
			11 000-
20	4:45 " Se	in behind cloud.	on Harrizon or belos
1			
you:	31 1978 Sun	pliotos.	Plus x film
1000			P35
	345	South of with	? f 25 D= 2. fel br.
	50	V	J= 2. fur,
	55		7mm DV 50
	4:00		7mm DK50
	05		
		11	Thy clear.
	15	14	J. Company
	20	0	
	25	Post in way	- Hatt
	30	·ox 1/2 photo	of prin
	35	oh	
	40	ok	
	45	oh	
	50	Last pluto.	dim and half sun
	55		



Andrey Henshall Chambered toubs of Scotland

Leup FX-24 Russo 6926 6829 1-356-5929, Spoutch. Bird Photos. Oct 20'n austin Juggler 492-2321. of MIT



Filming and Separation Record

unmounted photograph(s)

negative strip(s)

unmounted page(s)
(notes, drawings, letters, etc.)

was/were filmed where originally located between page 152 and end.

Item(s) now housed in accompanying folder.

Dennig Cham Daniel Lu. Busx 7.20 1.25 26. No San mlens 1.30 30.5 No sum on lans? 1.25 26 . V.35 4 .40 Cover. V. 45 55 Jan 30, 1978,

Dennitz cham. Daniel Lu. 12 mx 7 20 1.25 26 . No 6 30305 NO 4 .40 Cloves, V. 45 55 Jan 30, 1978,

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