

H **B**
M **D** **B** **H** ;**F** **K**
D **H** **60° K.R.**

B.

1866]h ih ihmgb b[bdh]h lā Bfilhdh]h
 =h]nbdh]h [sl , m]kē w]dibpbb e gmg]h behgb
 mmogd]h d . lmlf]h h w]dibpbb hrbe ih gb , ibf b]fē
 emē elv gdhlhuc g[egb g rebnhggufb b ba[hhggu]f evhf
 mlfb b emgf , l d g ighguf clbf h gb . lb g[egb
 baehgu i]e]f]hc llv .
 f]lbf]h fgh hlghrgbb ,] gb ilā lm hh[ggh]b,
 lh g gbo gh bgh rebnms clb ggbo evh , ghfuō hh db h
 fi ihehv . amrblevghf clbb evbg g] gh m ibeb]heh]b;
 h b]bsf clbb evbg g fu]nbl ih Gbgc mg]md mihfbg
 ld gdhlhu , gibf ,] cōev hē [hr « hldulbo
 flhgbc dfgh]h m]e]b ihafguō ihō ih Gbgc mg]md b efum » ,
] hg, g 7,]hhblv : «lb dūlbb db gh , mhgv b feh ihfem
 ihgbf h 80 b [he nmlh (24 f b [he) b ghgg b h[hbo]h
 ihlg g 10 b [he . w]h fi ibieurbc om db e
 [ilgg h]l] b]eb ihoghv]nbl » . =-g dfbd bghn
 mihfbg] dhevav h clbb guō evh g]hgu ihhu , ehfb [bghn ,
 1860]: «d f]d w]ihh , ihdau u]hbg b m]pu h]gugr]h oh evh » ,
 279 gē : ... «b ba[hhggu iehdh] l lhevdh lō flō ,]
 gug b e] beb g emgō » [bghn, 1860]. lghblevgh ihh]guō clbc
 fhdbō evh eva cēv hbggbb «ghgu gē =heh]bb » [cēv , 1866],
 g 267, hh[s] : «lhag hdlh hō]ff ihdaet , lh mg , ;hevrf
 ;evl b m]bo flō , esbo ib oh ;elbcdh fh ,]mg]lhc e b bah]bebb
 h]am g g b ihlf ihuf g ihoghv , h]fgguc idhf b]bf ,
 dfgf b fhdbf hhefb . v]gu , adeggufb gbo emgf ,
 u]l g] h fi [mb b g]h]h h uhlu 50 nmlh (15
 flh) . bgb w]bof , s [he bgb]mg]hh]h ev ldbc ihnh
 ibibu ba[hhggm ihoghv dfguō]h b g]w]h]h fh
 Gh bghf]gh w]bf fu bff m]b , ihlbihehgu adegb
 balguō]heh]h . d . hōt hf ihimeghf mdhhl d =heh]bb , [hōt ,
 1865] g 404,]hhblv : «G[egb ihdaeb , lh ūhebhggū hh dēu
 gb]dh] g bf ūrh]b]ggū [hha , l d bō g [u gb]dh] b g emgō ,

elbf h ». I wlf . hol]hhblv : «Rebnhggu
ihoghlb , hbgh h[aggu hbf ihbohgbf]elma , hleb
ghfguf ihggfb b b s m]bf odldbf ibagdhf , bfggh
ibmlbf g b ihoghlb [hevrbo beb fgvrbo ieevguo plbg b]hha .
Giegb wlb [hha gbdhevdh g abbl h lhg b dbleebapbb,
egplhb b gehg]hguo ihh ..» b .

lh hibgb hlebblevguo ibagdh elb]elgh]h ev fgh gclb b
e]hf mdhht]heh]bb) - gh b hrg fgh mblv b g]
gb , dm h 60° f, ld b g h[ap]o ibagguo fgh ba wlc fghlb b
ogsbo be ihc fhc dheedpbb , ib ma ehgh]h Bgblml , ld g
hghf h[ap] bhebl ma .-I[m]dh]h gbl . hh[s] fgh
ibagh gdhevdh h[aph] h rebndh hlh ev ba aguo flght , esbo a
haggguf ur iehf . gb hlehfgh fgh hl mlh , hlesbo ib[v]
gb . lu wlb ihehv ihdu hh . hlhv wlb h[apu] ba emsbo
ihh :

1. guc batgd
2. uc, gdhevdh hobluc igbd .
3. Batgd]hvdhafbuc (oghembcdhc nhfbb), hlsbc ihb
iehrv ba *Stromatopora striatella* (no hiegb]-g f]b] Rfb) .
4. ebl , iohsbc flb b fgevguc dfv . wlb h[apu
ihdu hghc lhgu [he beb fg lgguf b ieevguf]hafb .
Gdlhu , dd g] 2, hgv ohrh hrebngu . hlhv hgb, dd ur dagh ,
ba aguo ihh hgh]h b g hgh]h ihbohgb , ehlevgh hh[s]
mhelh f hlebblevguf ibagdf]elghc rebndb , lh dd wlb
ibagdb ihbagu ghfgggh ihebmsbf b]hasbf elbf lrg]h
gg]hev gb .

I]h gh[ohbf] dalv h lf, ddbf h[ahf] gcbdc e cml
g] d . f g g[ae] h]lgh oh ev g d g gbd ,
ihlfm ihm uibdm ba imldb] bghn dhlu g] 437
[bgh] 1860]hhblv ih oh ev ih cfu : «28 bg e ge]ueh
reblv , gh a 10 fbgm hghbe]he g , ihlf hlhv re hbg ;
alf 2 be hlhv hghbe a gv ihre b]he g hgebe . Rmf b
rel eb agv h fogdhf amrgbb; g gb]hhabeh e ih dmluf
] b]hevrbo]eu[u]]h]beh]hf , h[am] ghuc dfgguc]h]hc mfm
g igbf » .

mb 1866] gba ih gb gg gh , be , lh ev hh]ggh fgh]h
g]hhabeh g hghblevgh hlfeu fl beb g hleh]b] gb , b f gb
ih d , lf g]hghb]ueh ur , h balgh]h iel d be lh mel .
hh]hc(ld m m[dh]h), ih 61° f, g]h]hgg f ev g]
bfe 5 f . (3.6 fl.) urbg , e mbgdhf , ih 69°11' f, wlb fu bfeb
hdheh 4 gc (hdheh 8 fl.) urbg . gh, lh gib g] , ldb fu ev
(lh hgb] ihd b fed]evdb)]ha b esb ih gfb emgu b
gbadb mlv ; ihgb bgh] u ba ih gghh , h[amsbo]hevr
lv iehdb ib[v] gb . b hgh]h iehdh]h ib[v] gb b
gbehd]h]be]ld wlc]v .

Gh aflbv , lh chg elb gbdh]h ev g] abb h uhu
mhg , h dhlh]h ihgfll h f ur h lf g]hevr] ihgt e
fh elhv b gh]hh . lh[u] hieblv gburbc mhgv hu ih gb ,
ihbahbe gbehdh h mhg hu ,]ur]h h f fh]h i]ugb h lhd
g bur]h lhg]heg] hie ih hlauf blec b h]ghfm
mdagb iegbd b gghgh]h ev]hevr lv gbehdh ihbagu fgh g
h]ghf imlb h mlv gb , ihegbo be be h ihegbo be gl ,
lgb ldbo mo fp , dh] h ba fuo gbarbo , - dd meb fg bleb

egbc hf [he lhguo gbehhhd iehlgufb lffb , □
 ee s gdhevvdh ib[ebablevguo , ib ihfhsb gl]bfhc db b hl□
 ld dd mihl[ae] g mgbd . lhlhf wlbobafgbc □ ihembe emsb□
 pbnu agbpu gburē bgbgarēhu :

□ i/i□	lh	f□ g[egb□	Rbhl□	agbp□ fm mhgf hu □fh□ i[ugb□ b gburfb□
1	lhdh abfhv (h hgh . ba[u])	26 be□	72°10'	3 □ . 12 □ = 2,67 f.
2	12 □ glihgbcdhc jm□	1 jm□	72°5'	3 □ . 12 □ = 2,67 f.
3	dheh mlv□ db em[hdhc, ise□ gbdm□ jm[m	21 be□	72°1'	3 □ . 12 □ = 2,67 f.
4	dheh ethv[Gbdblu Bevdh]h	14 be□	71°30'	4 □ . 9 □ = 3,24 f.
5	Gdhevvdh ur□ dhehc dhū	9 be□	70°46'	4 □ . 8 □ = 3,20 f.
6	dheh og]h dhgp□;ohdbo hlhh□ , gdhevvdh gb□ mdmgbgdh]h gh□	20 jm□	70°0'	9 □ . 0 □ = 6,40 f.
7	ēuc fu□ fm ē . ggvbgdbf b fbehdbf	28 jm□	69°20'	10 □ . 4 ¾ □ = 7,33 f.
8	dheh egbmabg□	1 gl□	68°50'	16 □ . 0 □ = 11,4 f.
9	dheh egbe□ gld□	4 gl□	68°25'	21 □ . 10 □ = 15,38 f.
10	m □ . mrdhcb bghc	10 gl□	67°20'	24 □ . 12 □ = 17,60 f.
11	30 □ ur□ abfhv]thehc 11	gl□	67°0'	24 □ . 3 □ = 17,20 f.
12	□ g□ [g]mlbo□	19 gl□	66°15'	24 □ . 6 □ = 17,34 f.
13	G□gbgc mg]md□ , m ebgb□ □ □gbf	23 gl□	65°47'	20 □ . 14 □ = 14,84 f.
	□ egbbghhldhf	28 gl□	64°59'	22 □ . 3 □ = 15,78 f.

Ibfgb . Rbhl h[hagggudmbhf , gu ebrv ib[ebablevgh .

Ba wlhc l[ebpu bgh , lh gb[hevr□ ib[uev hu ih gb□ [u□ h mlv□
 Gbgc mg]mdb; alfi w□uhl□ mhgf hll□ g□ihlgbb 1 ½ ° rbhtu d m
 ihlb ihlggh□ , □e□ gbg□ agblevgh m[ulv .

Gb[hevrbc ihtf hu ih gb□ g□ gbgbf mhgf , dhluc □g[ae] ,
 [ue] 24 □ . 12 □ = 17,60 f .

Gbfvrbc 3 □ . 12 □ = 2,67 f .

agbp□ 21 □ . = 7 □ . = 14,93 f.

□ uhl, h]bfhc mhgf hu □ gb□ lh abbi b dhgm□ [□
 gb□ . h]□ u fh]b□ g□ [□ gb□ , □ b m]bo d , lh bbl□ [hevr□ lv□
 h -iuo dmlhc mlmi , - □ bh -luo - bms□ h□g]h h]eh]h□ ib[v□ . f . b□ . 1,
 [ae] . XI. gh, lh ib [□ , h]hsbo ba[uo]uo ihh□ , f ur□ ihgbf□ h□
 lf ebgg□ hegh [ulv ieh]h□ ib[v□ . B ldf h[ahf ihg]h , ihfm g□
 gbahvo gb□ iehdb□ ib[v□ hh[s□ m□ , □u ur□ ; □h balguo ieh□
 o ih d□ u gb□ , □iehdh□ ib[v□ rb□ . □ ld dd elb□ gh]h ev□
 ih]□ bdeblevgh iehdh□ ib[v□ , lh uhl□ , g□ dhlhm□ ihgbf□
 gg□ h□ , bfi eh]evgh aggb□ e□ hiegb□ ehg□ beb dm]□ elb□
 gh]h ev□ .

Рис. 1.

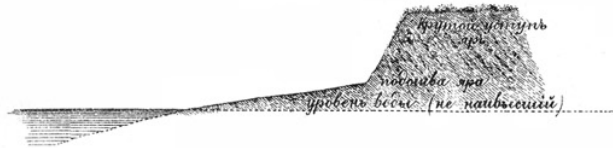


Рис. 2.

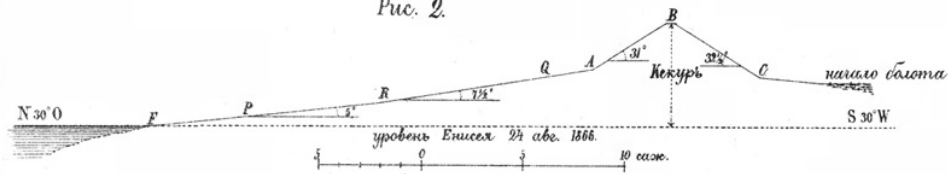


Рис. 3.

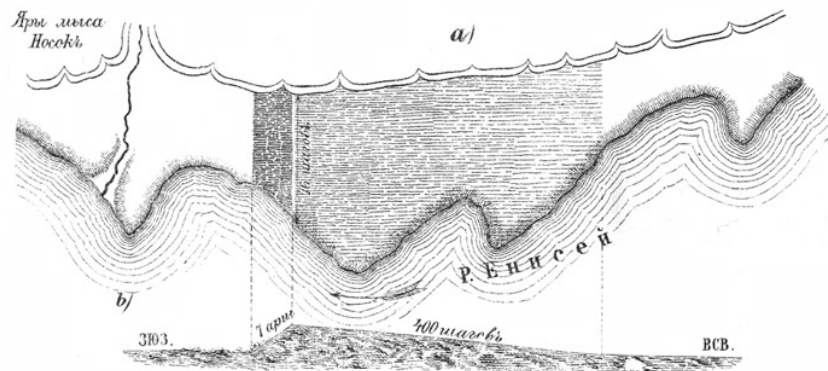


Рис. 5.

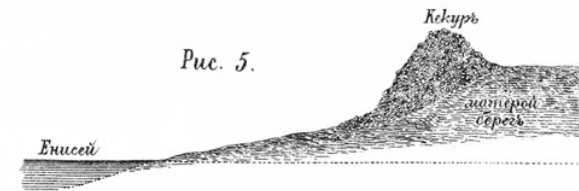


Рис. 4.

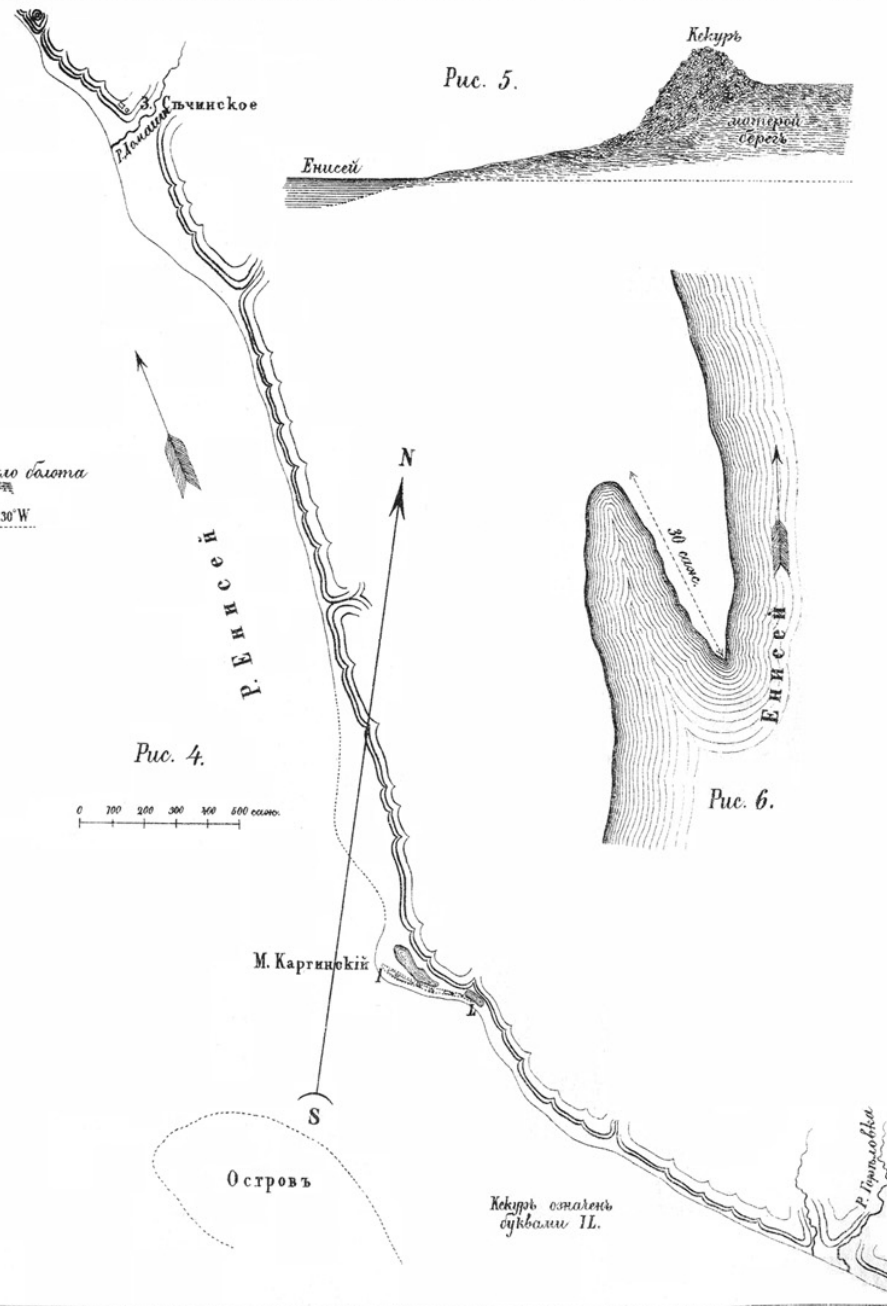
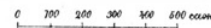
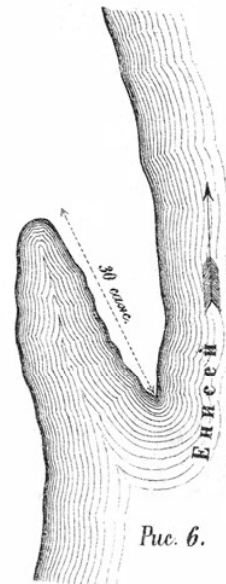


Рис. 6.



Ighrgb iheh]h]h ib]v d uhl mimi o bgu ba emsc
 I[ebpu :

Ighrv :	Rbbg iheh]h]h ib]v	dehg wlh]h ib]v	uhl o g iheh]bf ib]v	Gdhevdh ihgbf h
e . gh]h]h 65° .	29 . = 61.9 fl.	15 ½°	2 . = 4.3 fl.	7 1/3 . = 15.6 fl.
e . mr]h]h 67° .	35 . = 74.7 fl.	13°	3 2/3 . = 3.6 fl.	8 . = 17.1 fl.
dhe d]h 70 ¼° .	23 . = 49.1 fl.	4°	17 1/3 . = 37 fl.	1 ½ . = 3.2 fl.
dheh db em]hdhc	22 ½ . = 48.4 fl.	3°	10 . = 21.3 fl.	1 . = 2.1 fl.

Ba wlhc I[ebpu bgh , lh o iu figh] b o lhu ohgu fm
 h[h , o flbfh fgh h]ghrgbb. Ibbg lhf]m bg ba iumsc
 I[ebpu agbp mhgc hu . f bgh lh o] , h egb g]cdh]h, beb h 68°
 25' . agbp w]hdheh 15 fl. (7 .). Gbg o h]egb g]cdh]h d]m , hg
 gbg agblevgh mfgvrv . lh h]h]h]h mbblevgh gh h] o
]heh]b]bf ihgbf lgu . o g]hc]gbpu mmogdh]h d] b h 68° . ih
]] db bgu h]gg] bembcdbo ielh] , o] f]h]h]h] , [hevr
 lv]hvdhafb]h]h balgd , ogbembcdh]h m ih fgg]] f]b
 Rfb] , g]h]h fm hdfgeh]f] w]bo ielh] gd]h]u , h]gg]h
 hb]gdhu o gohbfuf] o ogbembcdbo iel] ib-]elcdbo (o b]gg]h
 dh]eu *Labechia conferta*, *Calamopore Gottlandica* b *Cyathophyllum caespitosum*,
Orthoceras cohleare b o .) o m o h] h]d]ght] e . g]cdh]h, g] lhev]dh
 h]gg]c bembcdbo , gh emgh wlhc nh]f]bb o g] g] g] gbg
 ih]lv emgu o fehuf] hdfgeh]f] , o]] db h]h] ih]b
 bdeblevgh ba]ueuo ihguo beb beh]uo eh , o dh]huo, f e] d]m ,
 lf [he] dhbg, [hevr lv ohguo o gohbfuf] b gug] g] ib]v
 guo ihegu] fh] hev]dh hdheh ab]fv]hemgh]h b]cd]gh]c (o]d
 eh]) , iuc]] gb h]h]b] g] g] [hevr]h] h]gb ba]ueuo , aegu] b
 h]uo ig]dh , ib]get]bo, m ih hdfgeh]f] h]egg]]
 Rfb]h] b]m]b]f] , d]gbgc feh]c nh]f]bb. Ieums]c gb]m gb o iuc a
 bb]]hu g] ih] ih]gb]]m db lhev]dh hdheh e . g]cdh]h. Gb ,
]] db h]h] g] agblevgh]hgb ih h]]h]gu ba]oh]f]h]c f]gh]b ,
 dh]h] g] ih]du] eh] ,]alf] ih]l]gg] i]h]b]v o]m]m , h] ebr]gg]m
 g] dc]f] o oh]guo v] . hev]dh d]m]gb]b, h] gb]l]guo ieh]
]gm] ih]f]b]m .

ihel]b, ib] fl]g]bb h]h]bb d] , o ih]eg]h] hib]g]bb fh]h
 im]f]b] , o [he] ih]h]gh] m]m]m g]]gb]m] hev] h]d]ght] g]cdh]h
 e]gb]h] f]gh]b] e]gh]c]hdheh 68° .

Gh afl]b]v , lh reb]nh]gg]u emgu b m]u ih]] gb b o
 h]d]ght] bo b]gu g] lhev]dh]ch]g] el]b evh] l]rg]c hu gb , gh b
 g]]h . d] g]b]f] o b]e]m]gu , ba[h]h]gg]u h]b]gh]g]ug]r]gb] evh] db]g]
]] o b] l]db] o emgu]o o 5-6 h] db, g]]d]hc uhl] , h] dh]h]h]c
 l]rg] h] gb edh g] h]b]] . Ih]h]fm o fh] h]ev]gh: h] -1-uo)
 el]b] gu]rg]bo evh] g]]] gb b] h] -2-uo) ba[h]h]gg]u emgu b m]u ,
 goh]bfu] g] ch]g] el]b evh] , gh]fu]o l]rg]b] gb] eb] a]lv
 eh]h]b] g] nd]l]b]d]m (beb h]b]l]ev]gm) b]b]h]l]b]d]m , lh i] lv wlhc
 l]vb] [m] ib]get]v bdeblevgh d] h]b]l]ev]gh]]heh]b]b, ih]h]fm lh d]d]
 [h]h]u ,]d] b] e]gb , bo ih]b]af] l]v] m]s]m] b] gh]f]gg]u , b[h] fh]m]
]] [ul]v ih]gu . h]]h]c o]b] fg] ib] i]heh]b]v , lh [h]h]u ,
 b]bfu] l]v (g] ch]g] el]b h]f]gg]uo evh]) g] em]g] b] m]u ,

h[gh[he[h[gh]h ih fhfm fgg[egb[, gh l[iv g[mslms]h [flbfhc flghlb .

e[[hevr[ghlb, [heg hiblv [he[ihh[gh h[[h[gb[. l[[h, mslm[h[s[aebb[fm iuf[beb h[hguf [h[b euf[beb aiguf , g[ihlg[h[] gbd[[h[58°26' [r, h [ohdbo h[hh[, esbo ih[71° [r. ([flghlb, h dh[hc ih- bbfhm mlm[s[ibeb[b hleb[). G[w[hf ihlg[, iuc [] gauv[dfgguf , euc [ihevdb[beb ghehguf , *kehdf* . Gbd[geva[dalv , lh[u g[gb[a[[ueh gh bbfh aebb[fm w[bf[[h[. Gihlb[, bgh] b ghehd ur[g[dhc , f[dfgguc [] . [h[gg[l[ub]hguo ihh[ihl[g[bdeblevgh g[ihf []m . Gh h[s[[] lhevdh ems[, dhevdh [fh] w[h afiblv . Gbg[h[mlv[g[mg]mdb beb h[ghc]gbpu mmogdh] hdm] b h [ohdbo h[hh[, mh[gu[e[u[ghc eheb fl[(gauvu[av idfb) , [h[feu[ib[v] h[hsb[lhevdh ba gh]h idm , gohl[bdeblevgh g[ehf []m . iuc [] ihlb h[gh ebrg ihh[guo ihguo ib[bc, [h[hlb hg, ld[dd b agblevgh [hevr[lv eh]h [] ba emgh[aguo ihh[esbo hbg g[m]hf . Bgh] ihfmdb fm gbfb afulu idhf beb behf. h[h]nbd[bmghd , ibe]fuc d[l[iv , [ae . XII, hgv lbibgh bah[hgh baihh[guo , ih[esbo av ib[bc Bgh] b g[ihf []m lv fedbc dfgbd , gh lh] ih[hh[[] fu emgh[, frsb[u[hehm .

[o , haursbo[g[iehdbfb ib[vfb, emgh[ld[hgv fgh]h , gh lf[hgbade[[ihguo b behluo eh[

lh[dt[h ihh[, ba dh[huo h[hh[w[lemgu , lh, ih fhfm fgg[, g[ihlg[h[gbd[h [hdffghc mg]mdb ih[e[[emgo]gbtu b fl[hnbdb[h[gu[ihhu . e[d[m , h h[hl]h fh] ih[e[ibfmslggh aghbghlb lihuo ihh[, bbg[h[fbgevguo dfgc ([iheufb bgh] imhlfb , hh[gg[g[]) b h [ebadbo d bghlf[bhblh[; lv fgh]h]hvdhafbluo balgdh[, h[gh iohsbo [bluo hehfbtu lv ld[]ebglu[egpu b bluo balgdb , hgb[, dd b]hvdhafbluo , bgh] bembcd[hdfgehlf[[]eobg[(mihfmlh]h ur[) d[m [] fgh]h emgh[[fehufb hdfgehlf[. dh[b w[bo emgh[fhgh llbv]gbtu , eblu[egpu beb igdb. G[gbahv[gb[[hh[gg]h, gh b hh[s[d[m h[mlv[[hdffghc mg]mdb, fgh]h oephgh[, ihisbo[[hevr[lv fedbfb]evdfb .

□. **K** **N** **V** **G** ; **f** **K**

1) **h** **h** **h** **h** .

h g[ihoh[[dhgp[f 1866], ba] gbd[gba ih gb[, fu reb[g[lhevdh a[evhf , dh[huc g[i[gfb , gh bgh] ibgmgu [ueb [ih[blv[fm evbgfb . b[, lh [] gb[ihdulu urhibggufb emgfb , [g[ae] , g[g[eb l[igbc e[ihh[guo , b dhf[lh]h t[be h[w[hf [] m flguo blec . bgu[g[egb[hldueb fg[h -iuo , lh e[ibbf[hh[ibfmslggh d[ihfm []m db , bgh] gfh[g[frsb[lhfm [] h -lhuo , lh e[hgv lh [u[]aguc , [] ihduluc behf beb idhf . Bgh] evbgu [u[ihdulu peuf ehf id[beb be[d[gibf[, hdheh egb[fbgbg[b[evbghm lhesbgh[□1,1 fl. , □3,2 fl. rbbgu b □5 fl. ebgu ; g[g[ee ehc idm , lhesbgh[g[[he[0,2 fl. (5 fl); [w[hf eh[[ueb dfgv[h[60 dm[f . (1 dm[llb) ebbgh[. d[b i[[be] lh fbfb gra [b ihgeh g[evbg[dmhd g[alhgghc]ebgu g[fg[16 dbeh]flh (1 im[) hf . hb imlgdb beb hgu , lh ih Gbg[mg]md[,

igb□ □ □gb□ , ihgeh□ g□evbg□ 3 dfg□ ba dhlhuo□ gh[hevrbc□ hdheh□
0,1 dm□f. (1/4 dm□f.) afhf□ .

hh[s□ , ih fhbf□ ebgu□ g[egbf□ , e□ g□gb□ g□ hgv□ feh□ dfgv□ ,
gh hhevgh□ jab□ b fedbo□ emgh□ . bleb□ ib[guo□ gv□ jhhbeb□ fg□ lh□
hh[s□ emgh□ [hevrh]h□ af□ hgb□ g□ beb□ g□ evm□ db□ . hevdh□ □ g□
Rmrddhc□ fg□ hh[sbeb□ , lh□ bgh]□ evhf□ ibghb□ dfgb□ h□ 0,36 dm□f. (1 dm□f.)
ebbgh□ . hasv□ hgv□ 1866 jh□ □ hflbe□ gdhevdh□ g□ egb□
leobg□ gohsbc□ g□ gb□ dfgguc□ ml□, hrebhgguc□ b□ ba[hhgguc□
lirgbf□ evhf□ . □ wllh□gohb□ ihbg□ db□ b gh□ ihdu□ hh□ . G□
ihoghlt□ wllh]h ml□ □gohbe□ hdm]egguc□ emgu□ gh]h□ bhbl□ , □0,36 f. (1 dm□
f.) ebbgh□ , lh]□ dd□ ml□ hllb□ ba gh]h□ flhnbddh]h□ balgd□
gh]h□ pl□ . □ wlf□ em□ emgu□ ld□ ghfgggh□ [ueb□ aggu□ evhf□ g□
ihoghlt□ ml□ .

2) **K** **h** **Z** : **h** **b** **h** **h** **b**

K emgu□ b ml□ □ be□ h□ f□ h[lg]h□ fh]h□ imlrlb□ □
gbahv□ gb□ , hgv□ , □ gl□□ fp□ , dh]□ h□ i□ h□ gbgbar]h□ h]h□
mhg□ . □ jh□ fg□ ihabeh□ ems□ egb□ : hdheh□ mevgh]h□ lgd□
(gb), gdhevdh□ g□ jh□ , ib[v□ hllb□ ba emgh□ , [hevr□ lv□
lihuo□ ihh□ , □ ld□ b□ ba balgdh□ . G□ lhgb 17 r]h□ , og□ lv□
gb[hevrbo□ ba emgh□ hdaev□ ihdulhc□ pibgf□ , bmsbf□ g□gdhevdbo□ emg□
□ hgf□ b lhf□ □ **Z**gb, bfg□ fm□ 6-□ b 7-□ fb□ e]ldh]h□ dhfi□
(fm□ a-□ b a-□ a - □-□-□). ibgu□ wllh]lebebv□ hl]em[hdb□ pibg□ , dhlhuo□ □
be□ g□ emg□ , ae]sbo□ □ iguo□ eh□ [huo□ h□ . lhllb□ gdhlhuo□
ba mihfgmluo□ emgh□ , □ g□ gr□ pibg□ g□ m]hc□ lhgu□ bo□ bgh□ , lh□ e]□
rrbc□ g□ alhieggu□ ggc□ hh□ [hf□ b hsbf□ , dd□ □ dae□ ur□ ,
hhevgh□ jab□ b fedbo□ dfgv□ , dv□ bbg□ lhgh□ hc□ (hgh□
lect□), pta□ og□ lhgm□ gb[he□ dmiguo□ emgh□ , iehlg□ esbo□ □
f□]evdb□ , b ihe□ g□ gbo□ fghll□ ihhebgcguo□ pibg□ . d□ ghbhghlv□
emgh□ ib□ blbsf□ elbb□ ev□ fh]e□ [u□ ihdalv□ feh□ -hgh□ ; gh hgv□
e]dh□ h[gl□ fagbf□ fu□ gggghc]evdb□ b emgh□ . dhav□ dhiegb□
emgh□ ib[v□ hbl□ h□ [s□ □ h□ b lhang□ , b hgv□ , afa□ ,
hg□ au□ emgu□ ; ldbf□ h[ahf□ ib[v□ itat□ iehlgm□ fm□ ,
pfglbhggm□ hhc□ , b ld□ dd□ h□ g□ ml□ llv□ h□ ehoh□ lh□ fu□ bff□
av□ ggc□ gh□ h□ dhg]ehf□ , ih□ lh]b□ ihh[gh]h□ ih]gmlv□
rebnd□ ; gb[he□ usb□ dfgb□ wllh]h dhg]ehf□ b lbl□ dfidfb□ b□
jav□ , farbf□ □ bmsbc□ om□ e□ .

gh□ bbfu□ pibgu□ g□ emg□ □ g[ae□ h□ fgh]bo□ fl□ , bbg□ ih]b□
hl□ ohdb□ hllh□ b ur□ ih□ gb□ h□ mlv□ Gbg□ mg]mdb□ , eb□ g□ e□ .
Gb[he□ adh□ b gh□ itehv□ fg□ wllhegb□ g□ iehdb□ ib[v□ gb□ , d□
m□ h□ glcdh]h□ egb□ gb□ ll□ □]□ g□ □ , b ihwllfm□ ghfgggh□ lh□
eb□ av□ □ gg□ gm□ □ flgh]b□ ih□ jh□ ib[v□ , hgm□ g□]□ , □ m]m□ g□
□ lh□ fu□ gcf□ , lh□ g□]□ ib[v□ m□ lah□ , □ b abfh□ ihfaeh□ lhevdh□
g□ g[hevr]m□ jem]bgm□ lh]□ dd□ g□ □ , □ lh□ fl□ , emgu□ ib[v□ [mm□
itlv□ pfglbhggm□ evhf□ fm□ , esm□ g□ gh□ faehf□]mg□ ,
dhlhuo□ b elhf□ g□ ll□ [bghh□ 1860]. □ wllhc□ agh]b□ ihbahc□ lh□ lh□ e□
bmsbc□ ih□ ib[v□ iehdh]h□ gh bfs]h□ [he□ dmlhc□ mdehg(f. ur□) , g□]□
[m□ uhblv□ emgu□ g□ lh□ farb□ □ ib[v□ , □ g□ □ [m□ blbl□
hgm□ ba□ bo□ ihoghlt□ □ agbp□ □ debf□ , ebs□ □ flbfh□ fgh□
em□ g□ aebb□]heh]bdb□ egbc□ , hgh]h□ b lh]h□ □ fgb□ b ib□ g□
m]bo□ mehbc□ , emb□ fm□ ihbf□ ih]gbf□ lh]h□ , dd□ bgh]□ ggg□
[u□ flh]□ ih□ dhlhfm□ hbgdh□ e□ egbc□ em□ hghgbf□ e□

ih ghlf mo wihoh h dhlhuo hlabv hbgdhuo eo , b d d
gggh [u bgh] adegb , bem dhlhh]h, ib mslhggbb hgh]h b lh]h
egb mo aguo figho , fu bsf wibo mo figho hbgdhuo
amevllh .

hf mihfgmlh]h ur em , ibm av s ibf gherbo
[hha g emgo . d 1 gl (l . l .), ib ia ba egb rbgbg mabgh ,
be g ihf [m gb , 40 fl. (20) h hu , ifhebgegu pigu b
[hha g hf esbo emgo , h]egu h[sbf glagbf lgb gb
wlhf fl . [hha wlb lh iheg ihdu hgm ba lhgg emg bfggh
og , dhlh [hevr lv]e f m]b lhgu . dhevdh fgh aflblv ,
wlb[hha ihoh ih e dh] (dh , hhsa ba emgh b ura h [m
dm). Gdhevdh eo , lh fl , be hgm e[hulgm fghlv hdheh m]hc
dh]b, hhrb ba [meugbd . v , g 85 fl. (40) h i hru ib[gh]h ,
emgu g ib[v] g gh g [hha b pig ; gh eo , [eb d lh]rgfm
mhg hu gb , ihlf emgu , ebbgh hdheh 60 dm [f . (1 dm [lb) b
[he , bfeb og ebpm lhgm jedh ullm b ihdulm [euf
pigfb , [hafb . e] g [ebcrbo d h 40 fl (20) ib[v] ,
emgu ld g gh [hha , - fh [ulv ihlfm , lh hgb g[hevr]h af . bleb
]hh , lh wlb dfgb ulah evhf . hihhrbc fg dad mdbc]hhb ,
lh wlhegb hgv ihgggh ih Gbgc mg]md ,] dfgv b mlw bgh]g
g peu lu urebnhgu evhf . Bgh] hrebhngu b ihdulu [hafb g
hghe ihoghlf lhevdh gb[hevr] ba esbo g iehdhf ib[v] emgh ,
haursb g ihbf emgf ib[v] dd wlb be gedh h mlv [f
f]hc, g ihf [m gb (hg i] gb e ihlf e . mabg).

Rebnhgggu emgu gb[he] adh b gh aflgu g gb fm
ohdbf hlf] b mlv lhdffghe mg]mdb .

Gb[he] ihgbeb bf egb blhgb evhf mlh . lu mlw ,
ieu gbamgb , llbe , dd dagh ur , hdheh egb gladb b be lh
hgb hrebhngu b ba[hngu evhf . lf be wlb egb g [hevr lb
mlh ihirbo fg g lhevdh ieo mmogdh]h hdm] , gh b ur ,
gibf , g emo , 2-3 l ur e . [ggbdh (ld hdbgh), g
ihf [m gb . Gh av ifhebgegh [hha g ld ibevg dd g . G
mlw hcfesbo lgb gb «fg » , lf] d ihul dhav
o] hdheh mlv g mg]mdb , ibevghe rebhdb g dfgo b mlw g
aflbe. h wlf fl lblevgh [b fm mlfb , be ih ehf blec
gl av ah[egghf hlhggbb Gbemf bbf hlabg ihebhd
gbcdbo mlh lrgbf evfb hdheh e . B]db b leobg . f l ihh
ih]gmf av clb evh , lf]e ihebhd , b bgh] lf g [hha
b ifhebgegu eh[db , bbfu g mlw . ihfgmluc ur ml , gohsbc
hdheh e . leobg ihbg gb(hdheh hlf) , ite hdm]eggm nhfm ,
hrgh ohggm bah[gghe cweef hbggb « h ghlf
ehd » g 258- e mdh]h ih hedh]h, dd ohhrbc ibf lh]h lh
hg gau [gvbf ehf (Roche moutonnee), b lf bawbo de , dhlhu ihlf f
be Rephb b bhe .

lghlv hdheh leobg b B]db ,] dd mihfgme ur , gb[he gh
bg eg ihebhd g mlw , aflavg dhf lh]h hh]gguf helhf
mlh , - helhf elb dhlhh]h hgb fh [ulv ite gb[he
[e]hiblgu mehb e ldh]h clb evh . e ibf havfm iu ba
lhrbo fg g imlb gbam mlw hdheh egb gladb . Gdhevdh (5 beb
6) gha , g gladb , guhdb [hhsbc ba gghh (jevdb ,
id b be), imd d ihlggh , h g h[am b beb mli ba gghh .
Iehdh ib[v] , dd b m]bo fl , hlf ba emgh beb]egbd . G wlf
ib[v] , ba]egbd ul balgdhuc iebgd, hohsbc bgh] h

hu . bgb ihlbgb wlhjh iebgd b ihlb ih ifuf mjehf d
 giagb lgb gb ; ihfm hg adh ul hb [euf plhf b
 lgh]h p [jed] ib[v] b iheh, dhlhu b ibge [ueh ib gf
 hsgbb a[ihgu Gh ihhgbd h[fgbe fg]h wlhemu, l mlw badfgguo
 ieb, mohsb b ib[v] dm . lb emu, gbgw h ihoghlb hu , j hgb
 ihlb adulu emgfb ib[v] ihlf haur h 1,4 f. (2 f .) g
 ihoghtv hdmsbo bo gghh , b ihlf hilv du ih gghfb
 h[amsbfb fluu j , ld lh bo gmggh ihimlv b iholv fbh g
 hfh . hh[s , ehlevgh , wlmw , beb hgv feh haurb g
 gghfb . hf wibo guhdb mlbdh , hdghl g h[ggbc lu
 jhguo ihh . d mihfgme ur , h ihgfb fghlb h gtdb h
 Gbgc mg]mdb g 30 f. (7 .), b gh lh hg ihdu wlb guhdb mlbdh,
 emu , bmsb d bo erebnm bo bihhb [hau .

Gh aflbv , lh mhgv hu g [e]hiblg e ihegb rebnhb
 g mlw , g imlv evh . h h hgv uhd , lh evu fh]m [ulv ihghbfu fbh ,
 g dv em] lh] hgb [mm] lhevdh [eb]v ghghlb emgh b ihduv bo
 [hha]b : beb b ib gdhiegb evbg h g evu hb ghhf ihbah
 rebnhd , dd wldagh ur .

h balgh lh e bmb gibf , hdheh lsh g dh mg , bgh] b
 bevgh ihlb] [hd , ggu hdb b ih . , gh eh clb ev g mlw
 imdsbo hm ldevgh (beb [ebadh d lfm) , g aflbe hevdu g mlw ,
 ihdusbo h h f ehoh , be hgv , dh] h i , gu b
 ghfgguem lsh clb evbg .

m [haddb bbfub g mlw , b g emgo , fhgh hlevv bgu ,
]hah [ecrb b hegh [ulv ghcrb , hlebsb h fgh] m]bo, dhlhu
 bgh] b aflgu ; fh [ulv ld , lh hgb gpi] [he luf
 fbgefb .

d dd g gb] dm h mlv g mg]mdb (69°30' .), hh[s feh
 mlh , lh m] , lh clb ev g mlw em] g [lv g d Gbgc
 mg]md , h [bevghc mlfb ; g [ecrbo d igb b gb c f gh be wlh
 egb .

3) **h** **z** **z** **h** **h** :

[hha]b m ur , lh mlw b emgu bgh] rebnm beb ihdu
 [hha]b ghhf evbg . hf lh]h, evu ib h f ehoh b bgh] b
 h[am] ldh iillb lgb hu , lh hg uohb ba [h b alhie
 hdghlb . [wlf mihfbg] b cev ghguo Geo = heh]bb , j hg]hhb] :
 « mdo gh]h ihemrb , ldsbo] g , e ihgevgh aefu
 b gc lb bo lgb] b ihegu hu , mg h [hc h]hfgu evbgu , gdh
 hb] l l db, dhlhu goh] s ih luf eguf ihdhf .
 dbf h[ah] lh em] bevgu ghgg] h iillb lfu
 ldsbfb hfb ; ibhf wlfm emb] d dgab ghc fbd , Blur ,
 [v , gbc , g b m]b b]bd] db [cev , 1866]. vu , iharb wlh
 iillb beb ld dalv [v , ulg] hh g [b, dhf lh]h lh
 rebnm esb ih gfb mlw b]evdb , s b] i , i h[h] lv
 emgh . h] e l , wlb b]rb evhf emgu e]h beb ehf g
 ib[v] , b giagb wlh]he iigbdmehg diegbb usd giagb
 gh evbg g [d dd gh evbg, ib mslhgb hbgduo
 h[lhev] heg ihlv g ghf b lf b f , lh b gh, lh e wlh
 heg]h h]h mebbv . h wlb lh eu fgu bleb b gau] ddmfb .
 Meh] hg] g iehdf] ib[v] , b h f iehhv] it] h
 dfgblh -ihguo madbo dh] sbo h fbd b hm . = bghh ih

) D .

h]fb bleb mmogdh]h hdm] ih gb] gau] g]hevr] dhū beb
 hldhd] bmsbc h]f]h]h]]]hm db , b]h]sb] ba]emgh] . db] hldhd]h
 fgh]h ih gb] , ur] e] . mbgdh]h eb ihf]lv] g] f]dm gb] ,
 eggm]] f]l] 1:42,000 (1] . e]f]) , lh gh bgh , lh dhglm]]] db
 gb] mbgd] hhevgh hguc , lh] dd ur] wl]h]h]egb]hg]hgv] babeb] . dmū
] a] hhevgh db] . dm] lhb] h]udghggh] g] h]feb] , beb g] dh] . Ihhrū
 ddm] , dhlhū] b] g] hful] h] ;] h]s] ddm] lv] e]] hhevgh
 h]h] r]ghc , h dhlhc] h] bbfh] g] h]b]e] . G] lh - dh] . g] b]f]
 r]gm] iehdm] ; ihhr]] dū]] h] dehg ih h] lhgu dh]b]
 h]udghggh] ggh]guc] gba ih lgb] hg] dm] ,] - h]eh] . Bgh]]
 g]agb] ebgu dh]b] hr]gh] i]gdme]gh lgb] gb] - lh bgh] g]
 b] .] 3 (] b] b]) l]e] . XI. e] ibf]] h]e] ihh]gh] h]brm dh]b] g] fu] Ghhd] , g]
 ihf]]m] gb] ,] 4 ½ beb 5 l] ur] e] . Ih]h]dh]h] (m]lv] hf]db]ghc]) .
 lh dh]b] fū] r]hdb] ba b]guo] fgh] ih gb] ; l] gb]hev] ba gb] ,
 b]s]] hdhg]h]b]] d] , [ue] r]b]gh]] 284 f] . (133] .) , ih eb]bb]
 i]ev]ghc]] wl]f] em] lgb] db] eb]g]] wl]c] dh]b] , l] eb]g] eb]bb]
 ih]ghc] ih g] h]hdhg]h]b]] h] [eb]f]h] im]gd]]] [ue] 77 f] . (36] .)
 b] .] 3-c]] l]e] . XI-] bah]] egguc] g]]ea] ieg] wl]c]hc]ghc] dhū ,] b] .]
 3-c] b] , l] . XI-]] ih]bev] , ih eb]bb] i]ev]ghc] lgb] gb]]] a]-] a] g]]]-]
] h]] wl] h]h]b] ba em]gh] [he] beb fg] hdm]egguo] , ba dhlhū] gb]h]e]
 dm]gu] g]h]] g] a]gh]] dehg] , ih]b]h]eh]gh] g]agb] lgb]
 m] ih]f] ,] b] a] em]] 0,9 f] . eb]gu , 0,5 f] . r]b]gu] 0,36 l]hes]b]gu (1 ¼ , ¾
 b] ½] .) , md]h]h]h] hg] ba]ieh]d]b] l]hg] [ue] ih]dū] ih]eb]g]c]g]f]b] [h]h]f]b] .
] dm]h]h]h]]h] -a]gh]h] m]m] dh]b] h] em]s] dh]b] , ib]v] ih]dū] fed]b]
 dpuf] id]f] . G] ih]ogh]b] dh]b] id] h] g] b]gh] ,] l]hev]dh] b]gh]] m]
 dm]gu]f]b] d]fg]v]b] ih]l] fed]bc] d]f]g]bd] . h]] , dd] a] l] b]] m]] b]
 fl] , h]udghggh] ib]fud] g] g]h]g]gh] d] m] ,]- d] ieh]dh]m] ib]v] ,
 beb d] l]]h] ,] g] beb] gb]g] . ur] e] . m]rd]h] , g] eh]f]]m] gb] ,]
 b] dh]m] m]]hc] nh]fū - m]adm]] 64 f] . (30] .) eb]gu , b] r]b]gh] g] [he] 20-32 f] .
 (10-15] .) f] . b] .] 6-c]] l]e] . XI-] lh]gh]c] nh]fū dh]] lv] b] ib] ig]bb]
 lh]df]g]ghc] m]g]m]db]] gb] . lh]ogh]lv]] ih]dū] l] dm]gu]f]b] em]g]f]b] ,
 ih]g]h] m] dhl]h]f]b] g] ag]gh] id]f] . em]gu h]b]] a] eb]b]gu 0,3
 h] 0,5 dm]] f] . (1 b] 1 ½ dm]] f] .) . Gh] wl]dh]] g] f] eb]gg] . d] g]h]f] , l] ,
 dhl]m]] b] hd]he]h] e] . r]b]g] , b]f]e] 90 f] . (42] .) , r]b]gu] h] 150 f] . (70
] .) eb]gu .

dh]e] dh]] gb] hhevgh] ib]em] , gh] [h]] m]dh]v] , fū b]gh]]] m]h]
 ul]beb]]h] ba]l]b]gu] .

h]s]] gb]h]e] dh]] a]f]e] g] fu] , ib] ih]h]l]o] gb] . m]] gb]m]
 gb] dh]m]] b] 22]m]] 1866] , ib] i]e] h]] gb] , hd]he]h] e] .
]gg]v]bg]dh]h] (gb]d]hev]dh] gb] mb]gd]b]) . Ih]eg] dh]m] , ieu]] ,] ib]f]b]e]
 ib] m]lv]]h]df]g]ghc] m]g]m]db] . G]h]e] dh]] ib]f]e] g] ih]f] (d]f]g]gh]f])
]m] gb] b] g] l]g]bb] h] mm]og]d] h] mb]gd]b] . ur] mm]og]d] h] fg]
 (m]lv]]h]de]gg]h]c] m]g]m]db]) b] f]g]v] ,] h] fg] h] Gab]f]h]]h] b] g] b]e] .

l]gh]b]ev]gh] ih]b]oh]gb] dh] , f]gu] bleb] fg]]h]h]beb]] h]gh]f]
 eb]bb] , lh] h]gb] h]am]] g] f]] ih]h] b] h]g]h]hd] ev] h] f]]gg]h]
 eh]oh] ;] m]]hc] f]gh]b] fg] d]a]ue]b] , lh] e] g]l]db]] g] h]ld]hd]b] dm]gu]c]
 d]fg]v] , b] l]db]f] h]ah]f] h]am]] dh]b] , h]h]sb]] b]f]m]l]g]gh] ba] [he]
 dm]gu]o] em]gh] .

) E .

eh]h]h]ag]u] ih]eh]ū b]]ed] g] ieh]dh]f] ib]v]] gb] b]bfū dh]
] G]]m]gd]] 7, l]e] . XII-] , g]h]f] nh]h]]n]db] f]h]b]f] [h]f]] .] . h]l]b]g]uf]]

ib[ʋ] gb hdheh e . mbgdhjh, bgu g[ʋ]evdō ib[ʋ] dd [u dheb , beb ifhebgcgu dgdb Gh wldidieu ihohgbavhg gv gh bē em wlh]hegb , 150 tō h[e . mbgdhjh d]m , bfggh ib mlv[] ehc glcdb , ihlb e . glcdhjh ebv , g[]ib[guo fō]evdb bgu ihehu , dd [u h[ahggu f gb[mv]auf , lh lsbeb ih afē ; b ihehu wlb ihheebv ihlb ifhebgcgh g[]hggbb hdheh 40 f. (13-20 [] .); rbbg[] iheh[, - hghc 0,7 f. (1 [] .), m]hc 0,5 f. (¼ [] .). em[bg[]iheh[gagblevg[] , 8-13 f. (2-3 []), gh gh wlbō eh[h[aguo iheh[hgh, dd [u mdlgh , b b]b ih gf , gblevgh [] ihbfb lfb ib[ʋ] mh[gh, b[h mlmfv [he[lūc]mg[, f eb brv ihlh ih]evdf . []m]hf fl[, m mlv[glcdb , []bē ihehm 15 f. (7 [] .) ebgh[, b g[]gbgf dhgp[] eē baldhuc emg 0,36 dm[] f. ebbgh[, hg[ba]hhg[dh]hh]h [ue[ihdu[ifhebgcgufb p]hgf[. bgh, lh ē[gh[b]ē ih fedhc]evd[[hevr[emgu b ihbahbē wlb eh[h[aguo ihehu g[]iehdf[ib[ʋ] gb[] .

Рис. 7^а

Таб. XII bis



ВАЛЫ ПОДОВНЫЕ КЕКУРАМЪ У СЕЛА ДУДИНСКАГО

Худож.-фотогр. А. А. Дудманова В. О. 9 т. д. № 14

16 Июня 1866.

Видь снятъ съ южной стороны.

Рис. 8^а

Таб. XII



ПРИБРЕЖЬЕ ЕНИСЕЯ НѢСКОЛЬКО НИЖЕ СЕЛА ДУДИНСКАГО

29 Августа 1866.

Своды мелководныхъ каналовъ на плоскости прибрежной

dhū gđhlhū ba ibfgguo fgh elbc ev h f ggjh
 ehoh gb , d m h 60° r, g mlū b h[ehfdb dfgguo ihh . lhb
 ghfgggh , lh a v mihfgmlū edh g elb lh ggbc mghc e s
 ddbfb -gb[mv ihhfb ib] , lb b hh[s ifsl lpu dfgguo
 ihh . lb egb ihboh liv , b fh]m[ulv g[efu r] a[r]hf .
 iv icm dldhfm hibgb eh elb evh igb fg ,
 hfgu ih- bbfhm mslhgb g flm lrgjh me gb , fh beb
 fhdhjh aeb , ihlgb dhlhjh hgm lv lgu fhgh iheblv g lhgbb
 500 h lrgjh mlv gb h hgm rebnhggū mlū b
 ba[hggū emgu , gōhbfu ldbo fghtō , dhlhū liv g ihdulū
 gbhh gb , gbhh m]bo hfhbebs

□. **■** **■** **■** **■** **■** **■** **■** **■**
■ **■** **■** **■** **■** **■** **■** **■**

1) **■** **■** .
 imgd fhjh mmogdhjh imlfb □ 1866 jhm lv mlv db
 em[emdi , dhlhh ebl ibfgh □ 50 lō d m h mlv db em[hdhc,
 isē gbcdbc ebfg beb aeb ih 72° r dZ em[emdi ll ih lmg ,
 lō □ 6 h mlv ihfu ihgh -behlū ielū gggh , hsbō dmdb
 v b ehb sihd , ih[mfbo h hē]hjh egb □ afe . lh ihh[gu ehb
 sihd b liv h[aml , h slagb [g iagbd h f ih[h] fhgh
 blv □ [mōl ib mlv em[emdi . lhwlfm hgh , lh b ihgh -behlū ū ,
 gōhsb □ 6 lō h mlv db, [ueb □ ggl [heh]bdb f [hf
 gbcdhc [mōl. □ lm gb hagggh] h[gg] d ohl □ msev , lgu
 dhlhjh hlh lv ba iehlgjh , lv ba fbgevgh -dfggh] b imaubljh
 lii . lū wlboihh bfl g mhgf hu db h 10 bgdhevdh [he flh
 (14 f . b[he) urbgū .

d ll msevf rbbgh hdheh 65 f. (hdheh 30 □ .) g ihlgbb ½
 lū □ alf msev fb , b d uohbl g iehdm [hehlbm gbgm ,
 ihdulm lf b f [he beb fg]gbeufb [gfb g]h iagbd . lō □ 300
 (150 □ .) ur dhgp msev (beb hlge gbgu) □ be lh rbq hgh]h ml
 ehjh [hrggh [ag , b g wlhc jedhc ihogh] lv ifhebgcu
 pibgu , giesb ih 7 □ e]dhjh dhfi , beb □ □-□-□ g a-□-a
 Glagb □ msev db hle m]he 40° wlbfglagbf , □ bfggh b □
 □-□-□ g □-□-□ lb urebnhggū ihogh] □ ihebe lml, ih luf
 fbgf mlh , g ihduluo gggh , g ehf [m db , g lhgbb 300 rjh
 (hdheh 200 flh) . G wlbfb rebnhggufb mlfb ae]ē elhth -[m]ebg , □
 emgfb flhnbdb balgdh , egg , dp b ibfmslggh lō □
 lihuo ihh , ba dhlhuo hlhb b f ml . Gdhlhū balihuo emgh [ueb
 ihdulū]m[ufb , ifhebgcu] pibgf b [hha]b .]eggu ihogh]b
 □ grē lhevdh g fbgo mlh ; ibf bō lbdevgu lhgū , h[sggu d
 mem db em[emdi , g ghbeb gb fecrbo agd rebndb beb [hah]b .
 [udghggh □ , argb iehdhrbggu , lihu]hū , g ihdulū gggh ,
 ilē fū m]ehtū h[ehfdh wlhc ihhū , [ihgh gegguo g
 fbgo Rebnhggū ihogh] □ lf g aflbe . hf em[emdi , □ be s
 g d ūgd (27 be 1866 j . □ . □) , □ afhbg , h[ggm b]eggm
 ihogh] lb lihh]h ml ; hlevg]h ihogh] [ue adū]ebgh □
 emgfb . □ h[bo wlbofghtō , rebnhggū ihogh]b gohl g fg 6-8 f.
 (3-4 □ .) ur gb[hevr]h mhg hu □ dō ; h f fhjh i[ugb fhgh
 e]dh [ueh gelb [hū a wlb db , □ bguo flō h g ihduē b d
 dfgc me . lhwlfm ghfgggh , lh e , dhlhū gm gh wlb db , g fh]

beb bpiw fngu haggguo mlh . Gb dfbd bghn , gb
 □ gb m]b □ [urb □ arfbo flō imlrggdbd ghsbo egbdh av g
 beb d gaggu □] bghnhf ieldb **█** , □ gagblevgh]h
 af□ dhiēgb□ g]□ g□ l]h □ lgb□ pēh]h el□ , dhevdh fg□ balgh,
 elbc, ihh[guo]hguf egbdf , g□ ihbah□ b esbo ih□ gbfb ihh□ g□
 lb□ . hafgh ihēhgb□ , lh g□ arfbo lihuo]hō , hghfggh □
 mslhff urhagggh]h fhdh]h [cg□ ih gb□ , [ueb egbdb □ h□
 gōhbfuo liw □ =gegbb, g□ Ribp]g□ b □ m]bo flō , ihlf□ lth□ ,
 elb□ bafggb□ lfilm□ h □ ghc□ lb□ flbd□ lh]h □ , ihe□
 ld gaufl]h eg]h□ ihh□ gc□ htu . h]h, lh[u av [ueb egbdb g□
]hō , dhlh□ ihlf□ ihgbabebv [u, □ g□ mf□ , ihlfm lh ietu li□ b
 ae]sho fm gb□ egp□ a□ bfl□ hgv gblhgh□ igb□ , [ebadh□ d
]hbahglēvghfm , b hflguo □ agblevgufb bgbfb flbdh□ , dmlh
 isbo ielh□ □ g□ be□ arfbo]hō h]□ □ ihge□ g□ hgm ba hhevgh
 ūhdbo fbg argh□ o□□ (dhlhuc lgt□ iēēvgh gb□ , d□□
 gbg□ h□ Ghbevdbō ha□), lh be□ hlm□ , m dm□ olē]ea, iehdb□ fngu
 b lh lmagh[agu□ dehgu , g□ ghc□ lhhg□ dhlhuo eeb , m ihrru
 mlmih□, ihehu g]□ ldbf h[ahf □ fh] hgv gh bly baeb [he□ beb fg□
 hclggh□ lihu□]hf□ lhg□ . Gh g□ wlbō fngō, fg□ g□ mēhv bly
 egbdhuo eh□ , □ b]ēgguo ihoghld beb rfh□ .

2) **█** **b** **█** **█** **b** **█** .
█ li□ □ □ b]ēbgu, be□ b ihbo gghn□ , □ lō flō dm□
 liw h□ gb□ b ihbo agblevguo ihlhdh□ g□ hlb]□ ; fg□ emēhv bly
 bō, g□ lhevdh g□ haggguufb rebnhggufb mlfb , gh b edh d]m ih gb□ , h
 e . Iēobgh (67 2/3 ° □ f.) b gdhevdh □ e□ . □ emgh□ , rebnhgguo
 lrrgbf gbcbdf evhf , gb□ hlebēbv ih- bbfhm [hevr□]m[hlv□
 [hha□ beb pibg . Ihbobbl eb wlh hl lh]h, lh i□ bevg□ [ue gih□ be
 blrbō dfgb , beb hl lh]h, lh □ lgbf fgb dfgv □]em[bg□ [hha□ [ue
 bevg□ amrg , f□ g□ ūsbo□ ihoghlo fm [hhafb b pibgfb , -
 wlh]h □ g□ fh]m fblv . gbc emg , g□ hbsgguc ghv hh□ , fhgh [ueh
 hlebly av s□ lf□ , lh ihoghly]h □ -ldb [he□ beb fg□ ūbev ,
 ihduēv ld datv dfgghc bghc . dbf h[ahf □□ [hevrh□ hlghlv□
 aēbe bgh]□ emgu gc□ rebnhdb hl ghv rebnhgguo , dh]□ hgb eeb
 bgh]□ hf g□ ib]v□ gb□ . gb□ emgu ūbebv bah□ . lh em□□
 gdh , b]h [□□ gb□ gb□ mlv□ Gbgc mg]mdb hlt□ [hevr□ lv□ ba
 ūbeuo ihh□ □ emgfb , dhlhu□ elb□ amrgb□ wlbō h□ ihil□ g□
 iehdh□ ib]v□ . e]□ □ □ wlb emgu [hevr□ lv□ □ behlh -]ēbgluo
 ielō b g□ aēbghc ūhl□ g□ mhgf gb[hevr□ hu lrrgh□ gb□ . d
 gibf□ , gdhevdh □ g□ e . Iēobgh , (ihlb g□ ghc]gbp□
 ihlggb□ emgh□ gc□ rebnhdb) ib mlv□ db hhd□ , □ be□ ihlb
 ghdlggu□ hlm]hevgu□ emgu li□ , ebbgh□ h 0,36 dm□ f. (1 dm□ f .),
 ihdulu□ □ hghc lhhgu [hhafb , [he□]em[hdbfb, f□ ihbahbfu□ lrrgbf
 evhf gb□ . emgu wlbēeb g□ dehg□ □40°, g□ ūhl□ 20 f. (30 f .) g□ mhgf
 gbur]h a□ ihēgb□]hu mhg□ gb□ □ ihehv□ . lb gb□ ba[hhggu□
 emgu ihieb□ ebbgh□ h 0,7 dm□ f. (2 dm□ f .) □ flghlb ūr□ mbgd□ . Gh
 g□ ib]v□ gb□ bēlemgu h 9 dm□ f. (1 dm□ .) b gdhevdh [he□ .
 hlg□ ghc]gbpu ihlggb□ □ h]ggbo ūbeuo ihh□ , g□
 - rebnhgguo emgh□ , □]gbpc□ gōhgb□ □ wlbō□ □ fhdbō dhhg□ b ih□ .,
 h f□ ihfgmlh fgh□ g]□ alē□ ihēhblv , lh ihbohgb□ wlh]h h□
 emgh□ agh □ mslhgbf av fh□ □ fh□ [ūv lh wlb emgu ihieb
 g□ gh fhdh□ ib lgb□ iembō evbg, grbo g□ □ hagggu□ emgu . hl□ fg□
 b balg□ lhb□ g]gb□ wlbdbfb emgfb hēdbō b m]bo gghn□ , gh

g[əgb] h gōhgbb rebnhgguo b ba[hhgguo emgh] g
 lingbo iesbo ihhdgm evhgo g[ag].
 ur leobg ih gb , iehl h mlv lhdgghe mg]mdb , b ur ,
 lā o emgu aguo ihh , gh g chg clb lingbo h gb hgb
 g itaeb aflguo pibg b rebnhgguo ihoghlc fh [hevrh
 dheblh emgh h efb gc rebnhdb bē ielō h[grbo ih
 [f] gb gb ;ōhdbo hlhh (gbgb mbgdb) b gbēdhc
 [molū, h aebg lhdh]h abfhv(72 ¼ ° r).
 ebbg emgh , lūo g chg clb gugrgbo iembo evh ih
 gb [ū agblēvg . e ibf ibhm afu bggh]h fgh emg m
 fu mēvgh]h (3-4 lū ur ē . helhghhdh]h g gbē). Ba bgguo
 fgh lf g dehgc [ū emgh hbg, ba baldhblh]h igbd elhh]h
 p , bfā3,6 f ebgu , 2,1 f rbbgu b0,5 f urbgu g ihoghlv afēb (5, 3 b1
 ¼ f). hgb [hevrh emgu [ueb b 0,7 b 0,54 dm[f (2 b 1 ½ dm[f .)
 ebbgh .

3) K h b b b b b .
 Y]hhbe ur h emgo rebnhgguo b ba[hhgguo evhf . gb
 [ū ielō uoeuo gggh , g h[elb clb evh gb , gh f
 grēbnhgguo , ihlh hdm]eggu , beb hrgh m]ehlū . e]gb bō bgh]ū
 hgv hb]bgevgh bdd ibf ibhm ems .

dheh 12 d m h lū Gbdblū Bevdh]h (lh g gb gb
 ;ōhdbo hlhh) , g iehdhf ihtg g hf , urbg dhlhh]h g mhgf
 gb hdheh 20 f. , gedh h h[ū , gōhbl ohefbd hdheh 13 f. (6 ņ)
 urbgh , hlshbc, m ih ihoghlc , [hevr lv bafedbo emgh , ū b
 h[ehfdh fhdbo dhbg . lhh]gu ohefu hibul b] bghn hf
 hbggbb « Imrlfb g b hlhd b[bb» [bghn 1860, [280]. G
 fbg wlh]h ohefbd , dehgu dh]h ih dlm d m 40° d]m 25° , e 2 dfg ,
 1,1 f. (1 ½ f .) ebgu b rbbgu b 36 f , (½ f .) lhesbgu , ihg m]ehlū . lh-
 bbhfm , wlh]hbg dfgv , dhehrbc ihief . hf ebl g[hevrhc emg 180
 dm[f . (2 dm[f d) , dhehrbc ih ebgo hē g fgh]b m]ehlū ielbgdb .
 dehgghtb dfgē g d ldbgb f . llv bghn [bghn
 1860, [266 b 268]. hf haggguo mo [hevrbd dfgē , esbo g rbg wlh]h
 ohef (ebg dhlhh]h ih ihr hdheh 50 f.), lv s 2-3 dfg ihematigguo
 h d hbgfb . Ba dhbg, a v ih[e]l *Saxicava, Pecten, Balanus;*
 hlavgu hū , helggū argbf gāllhgbf , hhevgh db . hef , ib
 fecrf d gfm ibdhghgbb, hūll , b gh]b moh ūoem fm , hlism
 ba id b dhbg [ebab wlhc fghlc lv s hid, ih nhf oh [hibggh
 bih hlauf flguo blēc , hg d hlhb baū .

ebgg hv wlh]h ohefbd eb ih gēgb [ū g , [ū ieevgh
 lgb gb . g hgv adh ūll , b inh]h [m] , g ieh]h
 ihoghlv , ihfm hg b d f g d [ū hlū hlfev g]h fh
 Gh m]hc lhhgu , dehgu]h (40° b 25°) ebrdhf dmlū e hlfeb b urbgo]h 13
 flh (6 ņ) ehgg urbgh , g dhlhhf hg ihehg (hdheh 21 f. = 10
 f.) , m ffi lhevdh 34 f. (16 f.) . m lf d g fu lh]gv
 gbēdhc [mol (gōhsē 75 lō gb ih ihfm [m gb) , bf
 45 f. (21 f.) hlghc ūhlū b hlhb v ba ūoeuo , ihgh -]ebglūo b evblūo
 eh . lhlhfm b flbfuc fgh ihgh -dhbluc ohef fh [ulv ihlh
 ihm dlhf afus]h clb h b ihbo lēc lhhnguō , dhlhū bevgh
 amrl lingb ūoeuo [ū gb , fm ghghdlgh bē adb e
 ibfu [fhf mmogdhf imrlfb .

Gh d [ū lh gb [ueh , ihlv [ū ihgh -dhbluc b lheluc ehc, ldb
 [hevrbd dfgē eb fh]eb bg d ib ihll iesbo evh . hdalēvl

elb) hfggh) mslhgb av fhdhc hu (hgh)
 ihliebhpghuē ibh) fghl , b hgb [mm] ibegu []]heh]bdhf
 ggbd fh]h mmogdh]h imlrlb
 [] mlv Gbgc mg]mdb b h hdlghlā ē . B]dh]h b glcdh]h g
 gb [] g bē uohh lūo ihh . lfi h [] ē . glcdh]h h mlv gb
 ([] hdlghlā ē . Ibemgh]h), g [] lghbb hdheh 500 [] , [] gb hlt
 ld ba eh uōeu]ebg b idh [] emgfb . h [] ē . B]dh]h, dd mihfgmlh fgh
 ur [] , b fhdbo dhbg [] o b eh eguo elbc, g chg elb
 gugrgbo evh gb , g . lfi , hflgh ihell b ibagdb fh [] fhdbo
 dhbgu , b ibagdb mslhgb ih [] wlh]h fh egbdh [] , [] rēbnhggū
 b ba]hhggū emgu , esb g chg elb lrg]h ev gb . dheh
 egb B]dh]h [] (gīā d m), gē h]ggb aeghdffguo
 ihh [ebadbo d]grlcf , bheblf , fbgevuf dfgf b . i. , bihlhf mlū ba
 hhguo ihh , -]ebglūo egg [] , dpblh [a hdfgehlā b igbdh .
 ihf [] ugho [] glcdh gēg [ue dmhd dgh]h]ebglh]h egg []
 hdfgehlfb , ihohshfb dh lgguf [] ehō ogbembcdhc nhfbb
 lggbb, ih ehf [] . Rfb [] . [] ihh]guo dguo egpu h]g [] b ih
 [] gb [] hdlghlā B]u . [] hggū hhguo ihh lgmebv ih []
 gb , [] iūfb g [] lghbb hdheh 100 [] (h [] ē . glcdh]h). [] mlv
 gb [] bē gē h]ggb b mlū igbdh b igblūo balgdh hdheh
 ē . Ibemgh]h b mmlv db ghc , g [] lghbb 30 [] , [] d m , lhevdh
 mlhdh]h abfhv (10 [] ē ih ghfm [] m gbedhc [molū) lbe
 mlū lihuo ihh

hl g f wlf lghbb, h hdlghlā glcdh h gbdh]h aeb ,
]hu bmsb hev ih]h [] gb g bgu [] db, gh mslhgb bo
 ghfggh . dl [] bo ih dhglm h[sbc [] lihufb]hfb gbahv gb ,
 dd lh fhgh adeblv ih ehf flguo bleē b s [] he [] - hbp [] .
 Rfb [] , dhlhuc bē wlb]hu [] 100 lā h [] ē . mbgdh]h d hlhdm . lh
 mslhgb ddbō eb]h]h ba lūo ihh g ehf [] m gb , fg gb]h g
 balgh lheblevgh lhevdh lh, lh g hhaē gb b uū bo g [] , ih
 blavm [] . Rfb [] . [] lfrgb haurgghb, ih]h ehfb , hlt ba
 uōeu ihh [] hldfb ihliebhpghuo dhbg beb hldfb gbo
 ihahghguo bhguo , dd gibf [] , fhgl [] , dhlh]h abē hflbv [] Rfb [] .
 Bf [] [] urdaggh [] bm , [] ihe] [] , lh gdh] mslhe aeb arg]h
 ihliebhpggh]h fh h]gbgguc [] hlhd hagggufb lihufb]hfb , g
 dhlhūo b aē]eb egbdb , ēu dhbo bgu ib mlv [] m [] - d .
 h h]hlev]h , lh gbc hfū liw lū ihhū , ur dhbo ([]
 ld b ur gb]hev]h mhg lrgbo h gb) aē] uōeu ihhū []
 fhdhfb dhbgfb ihliebhpggh]h ibh , hdaul lh [] lō ih flbd
 agblevgh ihgē . adbo hdalev [] lh]h lh wlihg]b flbd ihbōhbl
 b liw , [] g afe . ihf [] gm d wlfm h]hlev]m ib bagbb ihegh]h
 hibgf]hbo]heh]bdbo g]agbc [] mmogdhf []

B [] :

Q. ghgu gē]heh]bb beb ghcrb bafggb fēb b []
 h[blēc , ll 1-2. [] . , 1866.
 bghn : .N. imlrlb g [] b hlhd b[bb [] b hlhd b[bb
 [] lgg- b]hbdhf hlghrgbb . l [] . : bih]nb Bfilhdhc [dfbb
 gmd. [] , hl [] . 1: h]nb]bh]nb [] 860.
 hol D.D. mdhllh d]heh]bb(i [] . b hi . ih [] . hfbe []) . l [] . : Ba []
 [] "stg iheva [] " , 1865. 503, XIV []
 Gmelin G. Reise durch Sibirien, Gottingen, Bd. III, 1752, S. 125-135.

