

Japan's Future Priority Areas of Arctic Policy

**Policy Elements to be Considered on the Development of
the Third Revised Basic Plan on Ocean Policy**

November 2017

Study Group for the Future of the Arctic

(Secretariat)

The Nippon Foundation

National Graduate Institute for Policy Studies

Ocean Policy Research Institute of the Sasakawa Peace Foundation

-DSDQ¶V)XWXUH 3ULRULWV

\$UFWLF 3ROLF\

3ROLF\ (OHPHQWUHQREH & RQVHG HORSPH

WKH 7KLUG 5HYLVHG %DVLF 3ODQ RQ

3ROLF\ (OHPHQWV WR EH &RQVLGHUHG R
WKH 7KLUG %DVLF 3ODQ RQ 2FHDDQ

•YwH ` `€ pH Q 5 P WKBDQ RI LVWKLf ERfHLVp\
JHQJWKHQ DQG VXS SRUWELQHQDLMLFXBWXHDUFKr]“HÁSBQMEFb@QGÀ`C
&RQWULEXWLRQV
(IIRUWV WR DGGUHV V HQYLURQPHQW DO FKDQJ
(QVXULQJ &RQVHUYDWLRQ RI WKH OFHDLQ H (QY
3URPRWLRQ RI WKH 2FHDDQ (FRQRPI\ %OXH (FRQ
6XSSRUW LQQRYDWLRQV IRU SURPRWLQJ VXVW
&UHDWH \$UFWLFELHMOBSSRGUWXQLWLHV
6HFXULQJ 6DIHW\ DQG 6HFXULW\ RI WKH \$UFWLF
&RQWULEXWH WRURDHRQMDLQZ QIQWKH \$UFWLF
(QKDQFH PDULWLQHGRPD \$QLQZ DUKH \$UFWLF
3URPRWLQJ ,QRVHODWLRQDRQ WKH \$UFWLF
&RQWULEXWH WR WKH SURFHVV RUFLQWLFHUQDW
V WR EH DEOH WRFRQWULE
SUREOHPV LQ WKH \$UFWLF
&RQWULEXWH WR GFKLMLRQV WVKHWBQQWHERDHO'V
6' * V LQ WKH \$UFWLF

.QWURGXFWLRQ

7KH ,PSRUWDQFH RI WKH \$UFWLF IRU -DSDQ

7KH \$UFWLF DQG LWV DGMDFHQW PDWHURFKVD QJH IDLQK KDYH
ZDUPLQJ DW PRUH WKDQ WZLFH WKH UDWL RI WKH JOREDO D
\$UFWLF VHD LFH LQVWURGXPHU DSSURJUDJLWV LQ WZRU MHFWH
WUHQG ZLOO FRQWLQXH WKURXJKVLRQ DW HQIDKRW VHLGDFH QVXQ
FRQWLQXH DW FXUUHQW UDWLHV HMKRI \$UFWLIFH2E G DVX FRXOD
WKH ODWH V

7KH UDSLQ HQYLURQPHQWDO FKDQWKV XQVWUZZDWLQW WKH \$E
ERWK \$UFWLF DQG QRQ \$UFWLF VWLQV KZLOVKHQ JUDQ JHK IRIG
VHD LFH LV PDNLQJ XVH RI WKH \$RSMQEQGHDS5QVHR \$S BHDQ
LQFOXGLQJ WKH GHYHORSPHQW RI FURZFRIDQF \$SWDQGHWRXPULV
ZDUPLQJ RI WKH \$UFWLIEQUHQH HQVQVHQJHWHV KXQFLQJ D DQG ZD
WKH \$UFWLF 2FHDQ DVVRFLDWHG FZLWVKVWLQJ IRH CRVHQJQ RQ FVLG
DQG LWV LPSDFW RQ IUDJLOH \$UFWLFWKFRFHOWHLQW R/H D DQGH
FOLPDWH FKDQJH DQG FKDQJHV LQ \$UKFWKVG DQG RRJQFDQ OFR EOK
ZHOO DV SRWHQWLDO FKDQJHV LQWLKH VHFUXLW\ HQYLURQP

7KHVH HQYLURQPHQWDO FKDQJHV LQ WKH \$UFWLF UHJLRQ
:KLOH -DSDQ LV QRW DQ \$UFWLF VWDWH EXW D ³PDULWLPH
DIIHFWHG E\ FOLPDWH FKDQJH LQ DQ \$UFWLIFSKHU LRFWVXQ
WKH RWKHU KDQG EHLQJ JHRJUDSKLFFDQDORQDWK \$VIRVQ
-DSDQ LV LQ D SRVLWLRQ WR HQG PC SR F ...p @ dF

FRPSUHKHQVLYH SURPRWLRQ RI \$UFWSPHQWHDUREVHLQYFDV
HTXLSPHQW VXFK DV UHPRWHO\ RSVHUYLHG YBWLFOOHLWHS89 H

(QKDQFH LQLWLDWLYHV UHODWHG WR \$UFWLF UHVHDFK
z ,Q RUGHU WR LQFUHDVH -DSDQTV SDHVLQWBLQ YLQWLH
LQLWLDWLYHV VSHFLILHG LQ -DSDQTV \$GFWM BHSRQWLFH
VXSSRUW V\WHPV IRU WKH FXUUHQW \$U&6 SURMHFW W KDF
IXWXUH GHYHORSPHQW DQG ORQJ W\H)RPU LPSODV SXDVRK
-DSDQ VKRXOG LPSURYH PHDVXUHV IRU SURBERMQLQVXF
DV WKURXJK WKH HWWBBOEKKPHVZRNDDQG RQVHXQHUU
\$U&6 SURMHFW VWUHQJWKHQLQJ UFRD ODFERIDFWLRQQGL
VRFLDO VFLHQFHV DQG WKH KXPDOOLWLQWHG LZFQGLQ
DSSURDFK WRMLRQWUQDWLROFKOSURMHFWV

6WUHQJWKHQ DQG VXSSRUW LQIUDVWUXFWXUHV IRU VFLHQ
z 3URYLGH VXSSRUW IRU WKH GHYHORSPHQW RI LQIUDVW
WKDW HQDEOHV WERQWR ILLFOEWKH YDWD JDSV LQ WKH
LFH FRYHUHG DUHDV WKH FHQWUDO \$UFWLF)RFDV D
SXUSRVH -DSDQ VKRXOG LPSURYHVWUXFWXUHVXUHQH
UHVHDFK YHVVO IRU \$UFWLF UHVHDFKXBRGD\$ODV
REVHUYDWLRQ HTXLSPHQW \$89 HWFSURGHGHORSS\$RVD
IRU LPSOHPHQWLQRMREOVZHWKDWK \$UFWLF FRDVWDO
z ,W LV QHFHVVDU\ WR FRQVWUXFW D UHVHDFK YHVVO
FDSDELOLWLHV E\ WKH HDUO\ LQDMWKK SDHFLVWRG
PXOWL SDUDPHWHU DQG ZLGH DUHDORVHRSVDWLBRQLQ
FRQVLGHU \HDU URXQG XWLOLJDWLQJ UHVMKUHFDVGHU
REVHUYDWLRQ LQ DUHDV RWKHU WKFLQWKH \$UFWLQV
WKH UHVHDFK YHVVO

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WHFKQRORJLHV VXFK DV \$89V IRURWKH\$RODEKDDQV
REVHUYDWLRQ LQ DUHDV ZKLFK YHVVOV FDQQRW DFFH
z 'HYHORS DQG PDLQWDLQ WKH OLFURZBYREVFHQQQJ 5D
VDWHOOLWH DQG LWV VXFFHVVU ZKLFK LV QHFHVVDU
FOLPDWH FKDQJH LQ WKH \$UFWLF RFHDQ

3URWHFWLRQ RI WKH ODULQH (QYLURQPHQW RI DWLGH \$
&RQWULEXWLRQV

7KH HIIHFWV RI FOLPDWH FKDQJH DUH PRUH HYLGHQW LQ W
ZLWK LPSDFWV QRW RQO\ RQ WKH \$UFWLFHEXLW WKDW HGW
LQFUHDVLQJO\ FOHDU DFFRUGLQJ WR WKH WDWLQJ LQVLELQJ
LQ WKH \$UFWLF 2FHDQ WKDW H[WSKHPUHZHDXWKDW LQ WKHP
ZLQWHUV D VHULHV RI YHU\ FROGLQJ WKH KHORSWKLRQ/ KBRGV
OLQNV WR FKDQJHV RI VHD LFH DUMB EQHWKUH \$RWWIHF 2WK
WHPHUDWXUH RI WKH \$UFWLF 2FHDQ LV LQFUHDVLQJ DV D
ZDUPLQJ DQG GHVDOLQDWLRQ DGHFRVWLVWFDWLRQLDULQGLI
HQYLURQPHQWDO FKDQJH LQ WKH \$UFWLF LV QRW RQO\ D S

(IIRUWV WR \$GGUHV&KQYJHURQPHQW\$UFWLF 2FHDQ
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WR ERWK WKH HQYLURQPHQW DQG WKH HFRQRP\ LQ DQ\ PHDV
)XUWKHUPRUH -DSDQ VKRXOG DWLQF LK LKODUWHLFXO DFR R S IS B D
WKH \$UFWLF FRDVWDO VWDWHV LXG FRFRQHRPW LQJ WKKH \$UFWRPLF
VRXQG GHYHORSPHQW RI -DSDQ V P DULFH W LKH XLQWUHLWQ DW
FRPSHWLWLYHQHV RI -DSDQ V PRUWONHLPHGWXUHV WKKWRL
HIIRUV RI WKH SXEOLF DQG SULQHWLH FRPFRULWLV IWR ISQFRV
HFRQRPLF DFWLYLWLHV LQ WKH \$UFWLVK RXFHG QV X SRSR UWK DW
LQYROYHPHQW RI -DSDQHVH FRPSORJXVL L Q L QW LFK D W U B U D Q
RI LQG XVWU\ UHSUHVHQWDWLYHV SRULV L & R X W H O V D Q F K W K H V
&LUFQH DQG SURRWEIXLQGWQ D W L S Y H N Q R Z O H G J H RI \$UFWLF
LQG XVWULDOLJ DWLRQ E\ WKH -DSDQHVH EXVLQHVV FRPPXQLV

6XSSRUW LQQRWDWLRQV IRU SURPRWKQ \$UFWLVW DLQDEOH
z 5HODWHG JRYHUQQPHQW RIFQHWWR LK LKODUWHLFXO DFR R S IS B D
DQG DFDGHPLF LQVWLWXWLRQV VKRXOG QQRFRS LQGXFW
UHVHDUFK RQ VFHQDULRV RI FRPPM KHLW L D L D V H D W I L R K R I
\$UFWLF 6HD 5RXWH WKH GHYHORSRPHQW FR2FRIDOX L D Q G
WRXULVP LQ WKH \$UFWLF 2FHDQ WKDW DUH FRPSDWLEC
HQYLURQPHQW)RU WKLW SXUSRVH -DSDQ VKRXO
LQG XVWU\ DFDGHPLD JRYHUQQPHQW FR2FRIDOX ERU DWLRQ DQ
z 7KURXJK FROODERQD W V W L D L W K D W L K H P L G D Q G W R U M H U D F
VKRXOG VXSSRUWEIXVLQHWLRQRGHVQDNLKHLQWRD J D W L R Q
\$UFWLF 2FHDQ DQG \$UFWLF 6HD 5RXWHV FR2FRIDOX L D Q G
WKH JRYHUQQPHQW SXEOLF LK LKODUWHLFXO DFR R S IS B D
z 6WUHQJWKHQ DFWLYLWLHV IRU UDLFLWJ D Z D H F R Q H R P V F D
DFWLYLWLHV ZLWK UHJDUG WR WKYH \$UFWLVK F K Q F V X G I P Q
RU V\PSRVLXP RQ WKHVH WRS LFV
z 7DNH SURDFWLYH PHDVXUHV WR LP S U R Y X F R Q G V H Q S Z Q R G U
XSJUDGHG KDUERUV UDLOZD\V D L N S R R Q W H F D Q G J W W K H
\$UFWLF 6HD 5RXWH LQFOXGLQJ GHYHORSRPHQW FR2FRIDOX L D Q G
+RNNDLGR E\ JLYLQJ WKH IXWXUIR SRULV L K H P L G D Q G W R U M H U D F
&UHDWH \$UFWLF UHODWHG EXVLQHVV RSSRUWXQLWLHV
z &UHDWH LQWHUQDWLRQDO EXVLQHVV L Q S S B B W X Q I H W L R V
LQQRWDWLRQ VXSSRUWV LQ WKH ILKXOEG IRU R F H M D W U F K P

GHYHORS PHQW RI RFHDQ WHFKQRORJLHV DIQGLMRV QWVLR
\$UFWLF DQG RWKHU VWDWHV FRQFHUQHG

Z

VXSSRUW DQG UHVSQRVHV IRU DGGULMMLPLHQ G LPDDMLWHLUWH IFQ WKX
ZLOO DOVR EH LPSRUWDQW IRU - DSDR IWRD IFRQ VDLQGE XMHFXWRV
\$UFWLF 2FHDQ E\ PDNLQJ XVH RI I\DPVS DDLQ QDXMIFQJOW KKBUMW
LFH IODVK FKDUWV IRU VDIH QDYLJDWLQFO XDLRQJ FWRQBX\$V
K\GURJUDSKLF VXUYH\V LQ WKH \$UFWLF 2FHDQ DQG XVLQJ
VDWHOOLWHV WKURXJK \$URSHU FWRQVZQWKVDWHV

&RQWULEXWH WR PDLQWDLQLQJ WKH UXOH RI ODZ LQ WKH
z ,Q PXOWLODWHUDO IRUXPV VXFLODDWHKUD\$UGMDFR&RXQ
\$UFWLF DQG RWKHU FROVHLLQXHG WWHVGRWHGJHDWKBQV
&RQYHQWLRQ RQ WKH /DZ RI WKH 6HDI V 81Q /WKHE\$UFB\$S
2FHDQ DQG WKDW UHODWHG SULQFO SODZ/ UEFBXGLJHG
3IUHHGRP RI QDYLJDWLRQ ' EH UHVSHFWHG
z ,Q RUGHU WR PDLQWBEGRQJGHSRQVDWHDFRQKQDQDIEWL
SDUWLFLSDWH LQ WKH IXWXUH SBRFWKH \$UEQWHUQEDD
DQG EXLOG FORVH FRRSHUDWLYHIRUHGDWXBQKLSHDZHW
XVH RI WKH \$UFWLF 2FHDQ
z ,Q SUHYHQWLQJ DQ HVFDODWLRQ GRHWHQRSLPHQW VQFWK

C^ p € P WÄÉ p € dÖH` HKH H € # @
@ € dÖD Q @ € D 0

3URPRWLRQ RI ,QWHUQDWLRQDO &RRSHUDWLRQ RQ WKH \$U

(QYLURQPHQWDO FKDQJHV LQ WKH \$UFWLF WLFDO B WLDRLRQ VFR
ZKHWKHU \$UFWLFDFWLRQ RQ \$UFWLFDFWLRQ BODOR BSGU B WLFQODWH
UHVSRQGLQJ WR WKRVH LVVXHV \$WUDKHLRQDFHW WLPKH QIDQWLIR
ZHOO DV FRRSHUDWLRQ DPRQJ LQGDMWLLPSRUWQGWUHRUHDSUFR
VXVWDLQDEOH GHYHORSPHQW LQ WKH \$UBWLF FUFZKHWLHQJHQ
FRPPHUFDO RSSRUWXQLWLHV VXFWDVDWKHWKMHGRYHWKHSB
QDWXUDO UHVRXUFHV

6LQFH UXOH PDNLQJ UHJDUGLQJ DQG FRRUGLQDWLRQ RI L
VXEVDQWLDLDO\ UFWLFHQ&RXQWLQKSHUQDFZLVWKH WIKH DGHPFXV
QHFHVVDU\ LQ RUGHU WR VDIHJLDU DODS DGHFH QDDWLROBROEHO
WKDW -DSDQ KDV REVHUYHU VWDWXV LQ WKH \$UFWLF &RXQ
\$UFWLF LVVXHV LHWGK)RUWHMRKILV H\$SRXQGHWDWSDFA VRSRUWD
GHYHORSQJ H[SHUWV RQ \$UFWLF LVFLXHFV ZKRV DWHV DIEROH V
VXVWDLQDEOH GHYHORSPHQW RI WKH \$UFWLF DQG WR SDUW
LQWHUQDWLRQDIOH \$UDWLQ &RXQSDO WDWVWRO \$BRLFRWH DQG
MRLQW LQWHUQDWLRQDO \$UFWLFXGHQH DWK \$UFWLFLEQVWHDMY
WR LQFUHDVH LQWHRQDRLRQDDQFRSRXQDFH GHYHORSPHQW

7KH FKDOOHQJHV IDFLQJ WKH \$UFWRDFGDIURHU IDO\ WRBJOXIQ
VWDWH RU WKH \$UFWLF VWDWHVR DGRQHWRD G&EHHWV \$XGWL
FUHDWH QHZ RSSRUWXQLWLHV WKDW DUH WUDQVQDWLRQDO
VWUHQJWKV LQ VFLHQFH DQG WHFKQRORZHUVKWXIQ JDWKWDE
DQG PXOWLQDWHU \$UFWRSDHQDQIRQDZDFWLF FRQDWULV XWLRQV
LQWHUQDWLRQDGYIDQPHZR WNKV IRJHQQDQRI RFDQ JRYH

,W LV DOVR LPSRUWDQW IRU -DSDQ WR FRQWULEXWH WR ID
6'*V' LQ WKH \$UFWLF DV SDUW RI LWV ,QQWHODVWRQDRO W
\$UFWLF &RXQFLO KDSQ LWBGLXPWIDRQWHORH SPHQW *RDOV DQG V
IRU WKHLU UHDOLJDWLRQ' LQ WKH)\$LDEBQNLWHPHQDQDWLRQ

&RQWULEXWH WR WKH SURFHVV RUFLVQWLFHUQDWLRQRDO UXOH
z \$FWLYHO\ SDUWLFSLSDWH LQ PHHWLQJV UHODWHG WR LQ
VXFK DV WKH \$UFWLF &RXQFLO \$&FXVQLR QV FERXUHGJ HR Q
VFLHQWLILF JURXQGV LQ RUGHU WR WKH X Q W H W I Q H W Q R V
FRPPXQLW\

z \$FWLYHO\ HQFRXUDJH UHODWHG FRXQWUXLOHV WR OVDN'H
RUGHU WKDW UHOHYDQW LQWHUQIDRQLR & R Q Y O H D Z L R Q F O X
WKH /DZ RI WKH 6HD 81&/26 EH D S S H F R H Q L D G W Q G M U V
LQWHUQDWLRQRDO ODZ LQFOXGLQJ ³IRQHVGKRP RHIDQDYL
LQFOXGLQJ WKH \$UFWLF 2FHDQ

3URPRWH LQWHUQDWLRQRDO VFLHQW WKH \$ Q G W L F F K Q R O R J L
z %\ SURPRWLQJ LQWHUQDWLRQRDO RIRQQW XUHDV D E K Q F R V
DOVR LQ WKH VRFLDO VFLHQFHV D Q G V K I L R Q Q L Q W L H V
LQWHUQDWLRQRDOO\ FRQWULEXWHQWRKDIG\$UFWLFL QV XH Q Y
WKH ZDUPLQJ RI W K H \$ U F W L F S D F H W Q R Q J O R E D O F O L P D W I

z 3URPRWH \$UFWLF F R R \$ H U D W E R Q W D W H R W L G X F O X L Q J R I W H
ELODWHUDO D Q G R Q W P X Q W H D D W K Q D O S U F W R Q F O X L Q J D R I
DJUHHPHQW RQ VFLHQWLILF DQG WHFKQRORJLFDO FRRS

'HYHORS DQG IRVWHU KXPdq UHVXUFLVQJ W S U R E O H P V I Q R
\$UFWLF

z ,Q RUGHU WR FRQWULEXWH WR VROYLQJ SUREOHPV L
HGXFDFWLRQ DQG UHVHDFK IRU WUDLQLQJ DQG VHFUXL
WKH QDWXUDO VFLHQFHV LQFOXGLQJ D W H F K Q R O R J L E Q
KXPdqLWLHV

z &RQWULEXWH WR WKH FDSDFLW\ EXLOGLQJ RI SHRSOH
FRRSHUDWLRQ WKURXJK SURYLGUHQJ H D S S R U Z W W I R U D L S D W
LQFOXGLQJ LPSURYHPHQW RI KXEV WKH U H F K D Q J F K B I Q G
UHVHDFKHUV LQ WKH \$UFWLF VWDWHV

&RQWULEXWH WR DFKLHYLQJ WKH 8 R Q W H * R D O W L R Q V 6 L X Q W
WKH \$UFWLF

z *LYH FRQVLGHUDWLRQ WR WKH \$ U F W L F X B I D T X H U H F K D W
SURPRWH ³WKH 6XVWDLQDEOH 'HYHORS \$ P H Q G L Q R D O V 6
3ULQFLSOHV' DQG ³6SHFLILF OHDVXUHV WR \$FKLHYH

*RDOV ' WKDW ZHUH³6XVRSWLRQ EOH WKYHGRSPHQW *RD
3URPRWLRQ +HDGTXDUWHUV' DW WKHLQ UHFHPELHQVWHU
ZLWK SDUWLFXODU IRFXV RQ DQKHHDQJ*RBDO R
RQ 2FHDQV DQG 6HDV