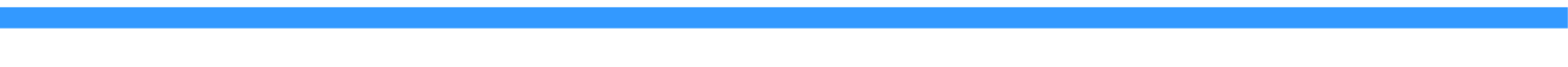


*\$'5, /(&785(6(5,(6 \$7 '35, .<272 81,9(56,7< -

3URI \$QGUHZ
&ROOLQV /HDGHU
'LVDVWHU DQG
'HYHORSPHQW
1HWZRUN
1RUWKXPEULD
8QLYHUVLW\
1HZFDVWOH 8QLWHG
.LQJGRP

\$QGUHZ &ROOLQV LV 3URIHVVRU LQ 'LVDVWHU DQG
'HYHORSPHQW 'HSDUWPHQW RI *HRJUDSK\ %H\RQG
UHVHDFK ORFDO WHDFKLQJ DQG PDQDJHPPHQW
UHVSRQVLELOLWLHV KH UHSUHVHQWV GLVDVWHU
GHYHORSPHQW DQG KHDOWK UHODWHG LQLWLDWLYHV
LQWHUQDWLRQDO\ %H\RQG KLV UHJXODU UHVHDFK
WHDFKLQJ DQG PDQDJHPPHQW UHVSRQVLELOLWLHV KH
UHSUHVHQWV GLVDVWHU GHYHORSPHQW DQG KHDOWK





*\$'5, UG 2SHQ 'LVFXVVLQR)RUXP
&KDQJLQJ ([SHFWDWLRQV RI 1DWXUDO +I
5HFHQW 'LVDVWHUV
'35, .\RWR 8QLYHUVLW\ .\RWR -DSDQ RQ

VRQV H x%VN FW@ LYñ™oLYñ™ ' Dp LQWHG ZKDW KDYH QRW FKDQJHG RY°©

7KH *\$'5, UG 2SHQ 'LVFXVVLQR)RUXP WRRN
SODFH DW WKH &ROODERUDWLYH 5HVHDUFK +XE
&RQIHUHQFH +DOO 'LVDVWHU 3UHYPHQWLRQ
5HVHDUFK ,QVWLWXWH '35, .\RWR 8QLYHUVLW\ 8ML
&DPSXV .\RWR -DSDQ RQ

7KH 2SHQ 'LVFXVVLQR)RUXP LV RUJDQLJHG

- x WR LQWURGXFH *\$'5, DFWLYLWLHV DQG WKH
PHPEHUV RI *\$'5, %RDUG RI 'LUHFWRUV
- x WR IDFLOLWDWH GLVFXVVLQR EHWZHHQ *\$'5,
PHPEHUV DQG LPSRUWDQW VWDNKHROGHUV LQ
GLVDVWHU ULVN UHGXFWRQ DQG
- x WR ILQG GLUHFWLRQV IRU *\$'5, WR SURFHGG LQ WKH
QH[W IHZ ~~DDU~~ SURIYLGH RSSRUWXQLW\ IRU
SDUWLFLSDQWV WR LQWHUDFW ZLWK WKH SUHVHQWHUV

7KH UG 2SHQ 'LVFXVVLQR)RUXP IRFXVVHG RQ WKH
&KDQJLQJ ([SHFWDWLRQV RI 1DWXUDO +D]DUGV
/HVVRQV IURP 5HFHQW WKH LQVWLWXWH WKH
VHVVLQR GLVFXVVHG DERXW DQG KDQJLQJ KD]DUGV
FKDUDFWHULVHG EULHIO\ ZKDW DUH WKH FKDQJHV DQG

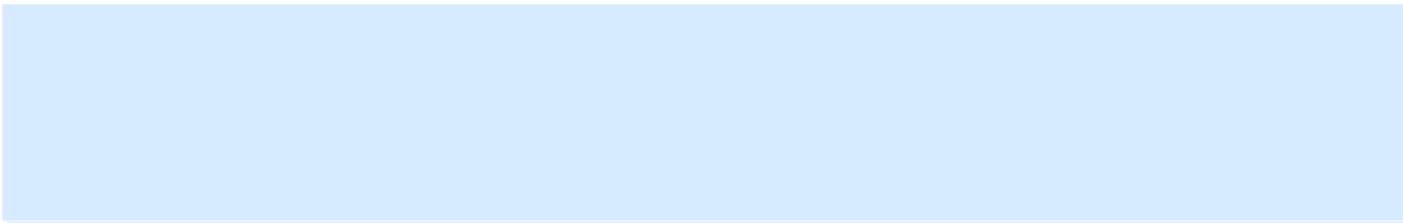
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LQ WKLV FDVH GDP FRQXWLUXJFWLRQ HWF
WKH SDVW IHZ GHFDGHV ZH KDYH HQFRXQWHUHG
ZLWK PDQ\ FKDQJHV)HZ IDFWRUV WKDW KDYH
JUHDWO\ FRQWULEXWHG DUH WKH OLPLWDWLRQ RI EXGJHW
DQG KXPdq UHVRXUFHV :LWK WKH ,QWHUQH
SHRSOH KDYH HDV\ DFFHVV WR LQIRUPDWLRQ DQG
FRPPXQLFDWLRQ DPRQJ WKH UHVHDUFKHUV DQG
GHFLVLRQ UHUV KDYH EHFRPH VFDFH
HVSHFLDOO\ ZKHQ GHFLVLRQV DUH FRQFHUQLQJ
PXOWLDNHKROGHUOLDFLQPLXOWULHV ,Q
WKH SDVW LI LW LV D SUREOHP LQ HQJLQHULQJ D
GHFLVLRQ FRXOG EH UHDFKHG MXVW E\ FRQVXOWLQJ
WKH VSHFLDOLVW RI ULYHU PDQDJHPPHQW RU ULYHU
HQJLQHULQJ 1RZ ZLWK DGPLQLVWUDWLRQV WKHUH
DUH VR PDQ\ OLPLWDWLRQV DQG PDQ\
DGPLQLVWUDWLYH FRQVWUDLQWV \$QRWKHU IDFWRU LV
FRPPXQLFDWLRQ ZLWK WKH OREDO SHRSOH ZKR DUH
UHVLRGLQJ LQ WKH DUHDV DIIHFWHG E\ WKH GLVDVWHU
DQG LW LV LPSRUWDQW WR XQGHUVWDQG WKH VLWXDWLRQ
IURP WKHLU VWDQGSRLQW 7KH\ GR KDYH PFK
LPSRUWDQW LQIRUPDWLRQ WKDW DUH XVHIXO IRU
UHVHDUFK WRR *OREDO LQLWLDWLYHV VXFK DV WKH
6HQGDL)UDPHZRUN WKHUHIRUH DUH QHHGHG WR
JULS RQ VXFK FRPPXQLFDWLRQV DQG VKDUH GDWD

x 5HJDUGLQJ WKH FKDQJLQJ QDWXUH RI GLVDVWHU
DQG KDJDUGV E\ ZHDKOIHOOVHHQ
VHULRXV KDJDUGRXV GLVDVWHUV FDXVHG E\ KHDY\
UDLQIDOO :H KDYH VHHQ JUDGXDO RU VRPHWLPH
UDSLG FKDQJHV GXH WR FOLPDWH FKDQJH)RU
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LQFUHDVH LQ UDLQIDOO LQWHQVLW\ LQFUHDVH LQ WRWDO

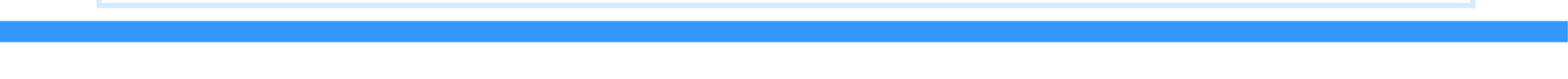
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KD]DUGV LQ D FHUWDLQ ZD\ LW LV QRW EHFDXVH RI
WKH KD]DUG LWVHOI WKDW KDV FKDQJH EXW DOVR
GXH WR FOLPDWH FKDQJH 3HUKDSV FOLPDWH
FKDQJH LV DJJUDYDWLQJ FHUWDLQ QDWXUDO
KD]DUGV %XW D ORW RI LW GHSHQGV RQ PRUH
H[SRVXUH FRPSOLFLW\ LQWHUFRQQHFWHGQHVV
DQG LQWHUGHSHQGHQW LQFOXGLQJ VRFLDO PHGLD
DQG VRFLDO QHWZRUN DQG FRQQHFWLYLW\)RU
H[DPSOH ZLWK WKH VRFLDO PHGLD SHRSOH DUH
PRUH DZDUH RI ZKDW LV KDSSHQLQJ
HYHU\ZKHUH ,W LV HDV\ WR VSUHDG WUXH RU
IDOVH SDQLF DV ZH KDYH VHHQ QRZ DERXW WKH
FRURQD YLUXV

x \$QRWKHU LPSRUU KDSSHQLQJ





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OHPEHUV RI WKH *\$'5, %RDUG RI 'LUHFW

1DPH

7HUP

,QVWLWXWH

(XURSH DQG \$IULFD

3URI 2UWZLQ 5HQQ \$SULO

WR

0DQVWLWXWH IRU \$GYDQFHG 6XVWRDQV ELOLW\ 6

'U =LWD 6HEHVDUI \$SULO

WR

8QLWHG 1DWLRQV 8QLYHUVLW\ ,QVWLWXWH IRU
0DUEK
6HFXULW\ 818

K s / í ñ v ' !



7KHOREDO \$OOLDQFH RI 'LVDVWHU 5HVHDFK ,QVWLWXWHV
*\$'5, SURPRWHV D FROODERUDWLYH SODWIRUP IRU
VKDUHG NQRZOHGJH DQG QHWZRUNLQJ RQ WRSLFV
DVVLVWLQJ GLVDVWHU ULVN UHGXFWRQ DQG UHVLOLHQFH
ZKHUHE\ FRPELQDWLRQV RI UHVHDFK JURXSV DURXQG
WKH ZRUOG EHFRPH PRUH LQIOXHQWLDO E\ SXOOLQJ
WRJHWKHU

7KH FXUUHQW \$DOGHPLF GHPRQVWUDWHV
DQHZ WKH LQWHUFRQQHFWHG DQG VVWHPLF QDWXUH RI
ULNVV DQG RQJRLQJ XQFHUWDLQLHV DIIHFWLQJ DOO
VRFLHWLHV LQ HYHU\ SDUW RI WKH ZRUOG 7KH *\$'5,
%RDUG RI 'LUHFWRUV DQG WKH \$GYLVRU\ %RDUG
UHSUHVHQWLQJ D PHPEHUVKLS RI RYHU GLVDVWHU
UHVHDFK LQVWLWXWHV RQ ZRUOGWIDE
FKDOOHQJHV IRU LPSURYHG VFLHQFH QVU P ðO` V 5 G L à ‡YS(A'ëñ™ VC@I&

VC@I&

(YLGHQFH & SLYL G

(YLGHQFH & SLYL G, HYLGHQFH FROOHFWLRQ
KWWSV_ZZZ_HYLGHQFH-FIRG_IRGJ_FRURQDYLUXV
-HYLGHQFH-FROOHFWLRQ_FRQWDLQV_PRUH_WKDQ

,Q PRVW LQGLYLGXDOV DQG FRPPXQLWLHV KDYH
EHHQ LPSDFWHG E\ WKH ~~SUBCOMMITTEE~~ ~~ON~~ ~~THE~~ ~~PROLIFERATION~~ ~~OF~~ ~~NUCLEAR~~ ~~WEAPONS~~
VRPH ZD\ ,Q DGGLWLRQ WR GDLO\ XSGDWHV DQG WROOV
WKHUH KDV EHHQ DQ DEXQGDQFH RI LQIRUPDWLRQ DGylfH
DQG UHFRPPHQGDWLRQV RQ KRZ WR UHGXFH YLUDO
WUDQVPLVLRQ DQG H[SRVXUH \$OWKRJK YDULDEOH
FRWURO DQG VXSSRUW PHDVXUHV KDYH EHHQ GHYHORSHG

8QGHU *\$'5, %RRN 6HULHV ~~3WKEVWLHUV~~ W5LE~~R~~NRN
5HGP

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* \$ ' 5 , % 2 2 . 6 (5 , (6

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5 L V N V \$ W P R V S K H U L F - D Q G + \ G U R
P H W H R U R O R J L F D O ' L V D V W H U V
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7KH *OREDO \$OOLDQFH RI 'LVDVWHU 5HVHDFK
,QVWLWXWHV *\$'5, ZDV HVWDEOLVKHG LQ 0DUFK
WR VXSSRUW WKH LPSOHPHQWDWLRQ RI WKH 6HQGDL
)UDPHZRUN IRU 'LVDVWHU-5LVN 5HGXFWRQ

6)'55 DQG WKH ZRUN RI WKH 6FLHQWLILF DQG
7HFKQLFDO \$GYLVRU\ *URXS RI WKH 8QLWHG 1DWLRQV
2IILFH IRU 'LVDVWHU 5LVN 5HGXFWRQ 81'55

6LQFH 0DUFK *\$'5, PHPEHUVKLS KDV
H[SDQGHG WR H[FHHG LQVWLWXWRQV

*\$'5, 6HFUHWLULDW LV FXUUHQWO\ KHDGTXDUWHUHG DQG
KRVWHG E\ WKH 'LVDVWHU 3UHYPHQWRQ 5HVHDFK
,QVWLWXWH '35, .\RWR 8QLYHUVLW\ .\RWR -DSDQ

*\$'5, PHPEHUVKLS LV IUHH DQG FRPSOHWHO\
YROXQWDUEDEGLQRQ

7R MRLQ *\$'5, SOHDVH FRQWDFW WKH *\$'5,
6HFUHWLULDW

VHFUHWLULDW#AGSXLDFRWR

*OREDO \$OOLDQFH RI 'LVDVWHU 5HVHDFK
6HFUHWLULDW'ëñ ^q•2IQ.¿ ~ 5í€P€ L70P0 00P0PDH