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1 (-----Overlay Prefix for CAPTAIN -----

2 (Crew fcns: Captain A

3 (Crew fcns: Captain

4 (Crew fcns: Captain

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6 (Crew fcns: Captain

7 (Crew fcns: Captain A

8 (Crew fcns: Captain A

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11 (Crew fcns: Captain A

12 (Crew fcns: Captain A

13 (Trade Depot A

14 (Trade Depot A

15 (Crew fcns: Captain A

16 (Crew fcns: Captain A

17 (Crew fcns: Captain A

18 (Crew fcns: Captain A

19 (Crew fcns: Captain A

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21 (Crew fcns: Captain A

22 (Crew fcns: Captain A

23 (Crew fcns: Captain A

24 (Crew fcns: Captain A

25 (Crew fcns: Captain A

26 (Crew fcns: Captain A

27 (Crew fcns: Captain A

28 (Crew fcns: Captain A

29 (Crew fcns: Captain A

30 (Crew fcns: Captain A

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0      ( Crew fcns: Captain                               AWK 10/29/85 )
1
2      HEAD: LOG-WINDOW ( -- )   T: 50 4 7 36 WINDOW T;
3
4      HEAD: .LOG-TEXT ( -- )
5      T: BLACK !COLOR XORMODE OFF C1
6      W LINES @ 0 00 0 1 CTPOS. LOG-TEXT 36 TYPE INEXT LOOP
7      CDRDP >C+S NULL CTPOS. T;
8
9      HEAD: .LOG-WINDOW ( -- )
10     T: WHITE ERASE-TEXT LOG-WINDOW
11     DK-BLUE !COLOR 148 51 OVER 1 LLINE
12     51 149 1 158 DK-BLUE POLY-WINDOW-FILL >IFONT WHITE !COLOR
13     152 38 POS. ." E" 152 31 POS. ." X"
14     152 24 POS. ." I" 152 17 POS. ." T" T;
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0 ( -----Overlay Prefix for CAPTAIN -----) ( Crew fcns: Captain       AWK 8/22/85 )
1      HEAD: LOG>PAD ( -- )
2      T: PAD 36 32 FILL 36 PAD C! LOG-TEXT PAD 1+ 36 MOVE T;
3
4      VOCABULARY CAPTAIN-VOC IMMEDIATE
5      101 OPEN-OVERLAY
6      CAPTAIN-VOC DEFINITIONS
7
8      2500 TRANS-ALLOT NEWT-DP
9
10     HEAD: #TOSS T: ' TOSS MODULE T;
11
12
13
14
15     HEAD: CHAR>INST ( b -- ) T: LOG-TEXT CTX @ + C! T;

16     HEAD: CHAR-FILTER ( b -- )
17     T: >R I 32 91 WITHIN
18     IF I CHAR>INST I .CHAR>SCR ELSE DROP THEN R> DROP T;

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0 ( Crew fcns: Captain                               AWK 10/15/85 ) ( Crew fcns: Captain       AWK 8/22/85 )
1 47 11 36 IFIELD: LOG-TEXT                               HEAD: LOG-TAB ( n -- )
2 28 24 1 AFIELD: ART-TEXT      28 29 1 AFIELD: ART-ANLYZ   T: 2DROP CTX @ 4 + 35 MIN DUP CTY @ CTPOS. T;
3 57 0 190 AFIELD: ANALYSIS      HEAD: LOG-BACK ( n -- )
4 20 69 4 IFIELD: XSTATUS          T: DROP CTX @ 1 36 WITHIN
5 32 7 2 AFIELD: PLAN-TSEED      32 2 2 AFIELD: PLAN-MASS   IF WHITE !COLOR -4 xBLT +! XORMODE OFF ." #" XORMODE ON
6 32 17 2 AFIELD: ATMO-ACT      32 4 1 AFIELD: PLAN-LIFE    -4 xBLT +! -1 CTX +! 32 CHAR>INST THEN T;
7 32 9 1 AFIELD: PLAN-MIN
8 32 15 2 AFIELD: COLDEST      32 16 1 AFIELD: WARMEST      HEAD: CR/QUIT ( b -- )
9 36 10 1 IFIELD: E$$          36 11 2 IFIELD: EDATE        T: DROP CTX @ 35 > IF FTRIG ON ELSE INEXT CTY @ 6 =
10 36 17 2 IFIELD: E#          36 19 1 IFIELD: EORBIT        IF BLACK !COLOR LOG>PAD PAD WLINE-UP WHITE !COLOR THEN
11 36 20 1 IFIELD: EBITS      36 21 15 IFIELD: ENAME        CTR THEN T;
12 20 19 2 IFIELD: XENGINE
13 23 18 1 IFIELD: RECOMMENDED
14 HEAD: $-TB ( $1 -- $2 )
15 T: PAD $! PAD COUNT -TRAILING PAD OVER 1- C! 1- T;

CASE CHAR>SCR
13 IS CR/QUIT 8 IS LOG-BACK 9 IS LOG-TAB
OTHERS CHAR-FILTER

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0 ( Crew fcns: Captain                                AWK 7/02/85 ) ( Crew fcns: Captain                                AWK 10/30/85 )
1 HEAD: LOG-LINE ( n -- )
2 T: BLACK !COLOR 0<
3 IF IPREV CTY @ 0<
4   IF LOG>PAD PAD WLINE-DOWN THEN
5   ELSE INEXT CTY @ 6 >
6   IF LOG>PAD PAD WLINE-UP THEN
7   THEN WHITE !COLOR T;
8
9 HEAD: LOG-CRS ( n -- )
10 T: (XYS CAN) CTX +! NEGATE DUP CTY +! ?DUP
11 IF LOG-LINE THEN CTX @ 0 MAX 36 MIN DUP CTX !
12 CTY @ 0 MAX 6 MIN DUP CTY ! CTPOS. FTRIG OFF T;
13
14 HEAD: KEY-PAUSE ( n -- ) T;
15 0 TIME D@ D+ BEGIN TIME D@ 2OVER D> ?TERMINAL OR UNTIL 2DROP T;

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0 ( Crew fcns: Captain                                AWK 10/04/85 ) ( Crew fcns: Captain                                AWK 10/26/85 )
1 HEAD: FLASH-CURSOR ( -- )
2 T: @CRS XORMODE ON RED !COLOR ." #"
3 500 KEY-PAUSE -4 xBLT +! ." #" 500 KEY-PAUSE !CRS T;
4
5 HEAD: LOG-IN$ ( -- )
6 T: BEGIN FLASH-CURSOR 'KEY ?DUP UNTIL >R I 255 >
7 IF I LOG-CRS ELSE CTX @ 36 < I 13 = OR
8 IF I I CHAR>SCR THEN
9 THEN R> DROP T;
10
11 : (/CAPT-LOG) ( -- )
12 *SHIP >C+S IOPEN 11 43 IFIND DROP IOPEN
13 .LOG-WINDOW .LOG-TEXT FTRIG OFF
14 BEGIN LOG-IN$ ?TRIG UNTIL
15 BLACK ERASE-TEXT ICLOSE CDROP ICLOSE ;

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0 ( Crew fcns: Captain                                AWK 11/11/84 ) ( Crew fcns: Captain                                AWK 11/11/84 )
1
2 HEAD: THIS-ITEM ( -- iaddr ) T: (THIS-ITEM) 1.5@ T;
3
4 HEAD: NEXT-THIS-ITEM ( -- )
5 T: THIS-ITEM >C+S INEXT CI (THIS-ITEM) 1.5! ICLOSE T;
6
7 HEAD: PREV-THIS-ITEM ( -- )
8 T: THIS-ITEM >C+S IPREV CI (THIS-ITEM) 1.5! ICLOSE T;
9
10 HEAD: GET-THIS-INST ( ( -- n ) )
11 T: THIS-ITEM >C+S
12 TEXT-INST 1.5@ ICLOSE >C+S T;
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0 ( Crew fcns: Captain                               AWK 10/29/85 ) ( Crew fcns: Captain   AWK 10/30/85 )
1
2 HEAD: (.ITEM-TEXT)                                HEAD: .DESC ( { item -- item } )
3 T: BLUE !COLOR 6 6 CTPOS. ." SCROLL ITEMS: ^\ QUIT: J" T:  T: BLACK -HEAD+IERASE >!FONT WHITE !COLOR ART-ANLYZ C@
4                                                    IF ART-TEXT C@ 57 FILE# ! RECORD# ! 0 2 CTPOS.
5 HEAD: .ITEM-TEXT ( -- )                            190 0 DO ANALYSIS I + PAD 38 CMOVE
6 T: >!FONT CTERASE (.ITEM-TEXT)                    PAD 38 -TRAILING
7 4 WTOP @ 7 + POS. ." ITEM# 108 xBLT ! ." VOLUME"    38 OVER - 2/ SPACES TYPE GCR
8 136 xBLT ! ." VALUE" T:                            38 +LOOP SET-CURRENT
9                                                    ELSE 1 3 CTPOS. ." THIS ARTIFACT HAS NOT BEEN ANALYZED"
10                                                    THEN KEY DROP T:
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0 ( Trade Depot                                       AWK 10/24/85 ) ( Crew fcns: Captain   AWK 10/28/85 )
1
2 HEAD: MOD-ELEM-LINE ( -- )                          HEAD: .PLAYBACK T: NOP T:
3 T: GET-THIS-INST INST-QTY @ 10 /MOD ICLOSE
4 THIS-ITEM >C+S TEXT-TEXT 26 + 6 46 FILL
5 U>$ TEXT-TEXT 30 + OVER - SWAP CMOVE
6 U>$ DROP C@ TEXT-TEXT 31 + C!
7 CRS-TOGGLE WTOP @ WLEFT @ 38 BLACK ZOVER POS.PXT SWAP POS.
8 TEXT-TEXT 38 TYPE ICLOSE CRS-TOGGLE T:
9
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0 ( Trade Depot                                       AWK 10/26/85 ) ( Crew fcns: Captain   AWK 10/04/85 )
1
2 HEAD: MOD-DISPLAY ( n -- )
3 T: ?DUP
4 IF 0 DO
5   THIS-ITEM PREV-THIS-ITEM >C+S
6   IDELETE ICLOSE SCROLL-LEN @ WLNES @ <
7   IF IPREV BLACK WSHORTEN THEN (TD-UP)
8   LOOP
9 ELSE GET-THIS-INST @INST-CLASS ICLOSE 26 =
10  IF MOD-ELEM-LINE THEN
11  THEN T:
12
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0 (Crew fcns: Captain

AWK 10/28/85) (Crew fcns: Captain

AWK 10/30/85)

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HEAD: PROCESS-THIS-ITEM ( -- )
T: GET-THIS-INST @INST-CLASS ICLOSE 11 = NOT
  IF GET-THIS-INST BLACK -HEAD+IERASE CRS-TOGGLE SET-OPTIONS
  BEGIN XYSCAN DROP ?DUP
    IF NEGATE THIS-OPTION @ + DUP 0 #OPTIONS 1+ WITHIN
      IF THIS-OPTION @ 2+ 7 * 50 SWAP - (CRS-TOGGLE)
        DUP THIS-OPTION ! 2+ 7 * 50 SWAP - (CRS-TOGGLE)
      ELSE DROP THEN
    THEN ?TRIG
    IF DO-OPTION ELSE 0 THEN FQUIT @ OR
    UNTIL CDROP CDROP ICLOSE .ITEM-TEXT .ITEM-PAGE
  ELSE BEEP THEN T;

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0 (Crew fcns: Captain

AWK 10/29/85) (Crew fcns: Captain

AWK 10/30/85)

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1
2 CASE 2ndOPTION
3 28 IS .DESC 27 IS .PLAYBACK
4 OTHERS NOP
5
6 V: THIS-OPTION
7 V: #OPTIONS
8
9 : DO-OPTION ( ( item -- item ) f )
10 THIS-OPTION @ 0=
11 IF #TOSS DUP MOD-DISPLAY ELSE @INST-CLASS 2ndOPTION 1 THEN :
12
13
14
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HEAD: OHOLD ( -- )
T: CTINIT ." STARSHIP HOLD IS EMPTY." 2000 MS T;

: (/ITEMS) ( -- )
  CTERASE *STARSHIP-HOLD >C+S ?CHILD ICLOSE
  IF 43 3 7 38 WINDOW .ITEM-TEXT MAKE-SCROLL-BOX
    *STARSHIP-HOLD GET-BOXES .ITEM-PAGE
  BEGIN XYSCAN DROP TD-SCROLL ?TRIG
    IF PROCESS-THIS-ITEM FQUIT OFF THEN
      ?QUIT UNTIL CDROP ICLOSE
    DELETE-SCROLL-BOX CRS-TOGGLE
  ELSE OHOLD THEN CTERASE :

HEAD: CAP$ ( -- ) T: 58 FILE# ! 1 RECORD# ! T;
HEAD: JCAP$ ( -- ) T: SWAP CMOVE SET-CURRENT T;

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23

0 (Crew fcns: Captain

AWK 10/30/85) (Crew fcns: Captain

AWK 10/14/85)

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1
2 HEAD: .OTH T: ." JETTISON" 0 T;
3 HEAD: .ART T: .OTH GCR ." DESCRIBE" 1+ T;
4 HEAD: .BIO T: ." ERASE" 0 T;
5 HEAD: .MSG T: .BIO GCR ." PLAYBACK" 1+ T;
6
7 CASE ITEM-OPTIONS
8 28 IS .ART 27 IS .MSG 43 IS BIO
9 OTHERS .OTH
10
11 HEAD: SET-OPTIONS ( ( item -- item ) )
12 T: WLEFT @ WTOP @ 7 - POS. >!FONT WHITE !COLOR
13 @INST-CLASS ITEM-OPTIONS #OPTIONS ! THIS-OPTION OFF
14 BLUE !COLOR 7 6 CTPOS.
15 ." ^\ SELECT ITEM OR QUIT 3" WTOP @ 6 - (CRS-TOGGLE) T;

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: >DESCEND ( -- )
  CAP$[ " LAUNCH" 1BTN JCAP$ CONTEXT-ID# OFF
  " NOP 'EXTERNAL-EVENTS !
  *SHIP >C+S %STATUS C@ 239 AND %STATUS C! ICLOSE ;

HEAD: >LAUNCH ( -- )
T: CONTEXT-ID# @ 0= (PLANET) 1.5@ DO= NOT AND
  IF (PLANET) 1.5@ >C+S IOPEN
    BEGIN ?-NULL WHILE IDELETE REPEAT
  -FCLOSE ICLOSE
  " OVCOUNTDOWN MODULE " ASCEND MODULE
  " MROTATE 'EXTERNAL-EVENTS !
  ELSE " OVCOUNTDOWN MODULE THEN PLHI OFF
  CAP$[ " LAND " 1BTN JCAP$ T;

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0 ( Crew fcns: Captain
1
2 HEAD: -ORBIT ( -- )
3 T: CTINIT CTERASE ." WE'RE NOT IN ORBIT" T;
4
5 HEAD: >LAND ( -- f )
6 T: ?PORT @
7 IF CTINIT CTERASE ." WE CAN'T LAND ON ARTH" @
8 ELSE CONTEXT-ID# @ 1 = ?DUP @ IF -ORBIT @ THEN
9 THEN T;
10
11 : (/LAUNCH/LAND) ( -- f )
12 *SHIP >C+S 5 ?ENGINE 1+ @ ICLOSE ' ov?.EQUIP-OK MODULE
13 IF CONTEXT-ID# @ DUP @ SWAP 5 = OR
14 IF >LAUNCH @ ELSE >LAND THEN
15 ELSE @ THEN ;

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25

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0 ( Crew fcns: Captain
1
2 V: +PLAN
3
4 HEAD: +BONUS ( n -- ) T: +PLAN +! T;
5
6 HEAD: ?XHEAT ( { n --n } n )
7 T: WARMEST @ 2 < DUP NOT +BONUS T;
8
9 HEAD: ?XCOLD ( { n --n } n )
10 T: COLDEST @ 2 > DUP NOT +BONUS T;
11
12 HEAD: ?CRUSH ( -- n )
13 T: PLAN-MASS @ DUP @ 69 > OVER 131 < + +BONUS 200 > T;
14
15

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26

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0 ( Crew fcns: Captain
1
2 HEAD: ?STORM ( -- n )
3 T: ATMO-ACT @ DUP @ 4 < OVER 3 < + +BONUS 2 > T;
4
5 HEAD: ?NO.02 ( -- n ) T: 0 T;
6
7 HEAD: ?NOH2O ( -- n ) T: 0 T;
8
9 HEAD: +LIFE ( -- ) T: PLAN-LIFE @ @ +BONUS T;
10
11 HEAD: +MINERALS ( -- )
12 T: PLAN-MIN @ DUP @ SWAP 50 / MAX +BONUS T;
13
14
15

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27

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AWK 10/15/85 ) ( Crew fcns: Captain
HEAD: NAME>EVAL ( -- )
T: CTINIT CTERASE ." NAME THIS PLANET: " CTCR
ENAME 15 BL FILL PAD 16 BL FILL
15 ' ov*IN$ MODULE COUNT ENAME SWAP CMOVE T;

HEAD: EVAL>BANK ( { n -- n } )
T: ' ovINIT-BALANCE MODULE
E$@ @ 1000 U* 100. DMAX EBITS @
IF DNEGATE THEN ' ov@BALANCE MODULE D+
' ovD!BALANCE MODULE ' ov!TFLAG MODULE
EBITS @ @ 3* ' ovTRANSACT MODULE T;

V: #BAD-EVAL #BAD-EVAL OFF

```

28

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AWK 9/06/85 ) ( Crew fcns: Captain
HEAD: >EVAL ( { -- n n'n' } )
T: *OP >C+S IOPEN 11 45 IFIND DROP IOPEN 36 0 1 *CREATE
(SYSTEM) 1.5@ >C+S INST-X @ INST-Y @ ICLOSE INST-Y ! INST-X !
(ORBIT) 1.5@ >C+S INST-QTY @ ICLOSE EORBIT C! T;

HEAD: PLANET>EVAL ( { n -- n } )
T: (PLANET) 1.5@ >C+S
?XHEAT ?XCOLD 2* OR ?CRUSH 4 * OR
?STORM 8 * OR ?NO.02 16* OR ?NOH2O 32 * OR
+LIFE +MINERALS ICLOSE EBITS C! T;

HEAD: $>EVAL ( -- )
T: EBITS @
IF #BAD-EVAL @ 8 MIN 10 * 1 #BAD-EVAL +! SAVE-OVERLAY
ELSE +PLAN @ 5 * THEN E$@ C! T;

```

29

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AWK 9/09/85 ) ( Crew fcns: Captain
HEAD: MAKE-EVAL ( { -- } )
T: +PLAN OFF >EVAL STARDATE @ EDATE !
CI' >C+S 1 INST-QTY +! INST-QTY @ ICLOSE E# !
PLANET>EVAL $>EVAL NAME>EVAL EVAL>BANK
ICLOSE ICLOSE ICLOSE ?EVAL ON T;

HEAD: >LOG ( -- )
T: MAKE-EVAL ." RECOMMENDATION LOGGED." T;

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AWK 9/27/85)

30

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0 ( Crew fcn: Captain                                AWK 10/18/85 )
1 HEAD: ?-RECOMMENDED ( -- f )
2 T: (ORBIT) 1.5@ >C+S INST-QTY @ BIT DUP ICLOSE
3 (SYSTEM) 1.5@ >C+S RECOMMENDED C@ AND DUP
4 ROT RECOMMENDED C@ OR RECOMMENDED C! ICLOSE
5 IF ." THIS PLANET HAS ALREADY BEEN LOGGED." THEN NOT T:
6
7 : (/LOG-PLAN) ( -- ) CTINIT CTERASE
8 (PLANET) 1.5@ >C+S IOPEN 12 0 IFIND CDRDP ICLOSE
9 IF ." THAT'S ARTH YOU FOOL!"
10 ELSE CONTEXT-ID@ @ 2 <
11     IF ." RECOMMEND THIS PLANET FOR" CTCR
12     ." COLONIZATION? IN Y)" Y/N CTCR
13     IF ?-RECOMMENDED IF >LOG THEN THEN
14     ELSE -ORBIT THEN
15 THEN ;

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0 ( -----Overlay Suffix for CAPTAIN -----)
1 DISPOSE
2 CLOSE-OVERLAY
3 101 OVERLAY CAPTAIN-OV
4 CAPTAIN-OV
5 FORTH DEFINITIONS
6
7 : ov/ITEMS CAPTAIN-OV CAPTAIN-VOC (/ITEMS) ;
8 : ov/CAPT-LOG CAPTAIN-OV CAPTAIN-VOC (/CAPT-LOG) ;
9 : ov/LAUNCH/LAND CAPTAIN-OV CAPTAIN-VOC (/LAUNCH/LAND) ;
10 : ov>DESCEND CAPTAIN-OV CAPTAIN-VOC >DESCEND ;
11 : ov/LOG-PLAN CAPTAIN-OV CAPTAIN-VOC (/LOG-PLAN) ;
12
13 OV-CANCEL
14
15

```