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3 ( PLANET AFIELD COMPLIER AFIELD DECSCRIPTS
4 ( PLANET AFIELD COMPLIER
5 ( NEXT-NUMBER NEXT-WORD
6 ( PLANET COMPLIER VARIABLES
7
8 ( SAVE-PLANET
9 ( SAVE-PLANET
10 ( PLANET AFIELD COMPLIER CONSTANTS
11 ( MINERAL CONSTANTS
12
13
14 ( PLANET AFIELD COMPLIER
15 ( PLANET AFIELD COMPLIER
16 ( PLANET AFIELD COMPLIER
17 ( PLANET AFIELD COMPLIER
18 ( PLANET AFIELD COMPLIER
19 ( PLANET AFIELD COMPLIER
20 ( PLANET AFIELD COMPLIER
21
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CONSOLE

3		6
0 (PLANET AFIELD COMPLIER AFIELD DECSRIPTS	6DEC84RD) (PLANET COMPILER VARIABLES	6DEC84RD)
1		
2 32 CONSTANT PLANET	VARIABLE (PLAN-TYPE)	VARIABLE (PLAN-SURFTYPE)
3 PLANET 0 1 AFIELD PLAN-TYPE	VARIABLE (PLAN-MASS)	VARIABLE (PLAN-LSEED)
4 PLANET 1 1 AFIELD PLAN-SURFTYPE	VARIABLE (PLAN-TSEED)	VARIABLE (PLAN-MIN)
5 PLANET 2 2 AFIELD PLAN-MASS	VARIABLE (PLAN-ARUIN)	VARIABLE (PLAN-RRUIN)
6 PLANET 4 1 AFIELD PLAN-LIFE	VARIABLE (MINERAL1)	VARIABLE (MINERAL2)
7 PLANET 5 2 AFIELD PLAN-LSEED	VARIABLE (MINERAL3)	VARIABLE (COLDEST)
8 PLANET 7 2 AFIELD PLAN-TSEED	VARIABLE (WARMEST)	
9 PLANET 9 1 AFIELD PLAN-MIN	VARIABLE (ATMO.ACTIVITY)	VARIABLE (ATMO.DENSITY)
10 PLANET 10 1 AFIELD PLAN-ARUIN	VARIABLE (PLAN-LIFE)	
11 PLANET 11 1 AFIELD PLAN-RRUIN	VARIABLE (NARROWEST)	VARIABLE (FLATTEST)
12 PLANET 12 1 AFIELD MINERAL1	VARIABLE PL-MASS	
13 PLANET 13 1 AFIELD MINERAL2		
14 PLANET 14 1 AFIELD MINERAL3		
15 PLANET 15 1 AFIELD COLDEST		

4		7
0 (PLANET AFIELD COMPLIER	6DEC84RD)	
1		
2 PLANET 16 1 AFIELD WARMEST		
3 PLANET 17 2 AFIELD ATMO.ACTIVITY		
4 PLANET 19 1 AFIELD ATMO.DENSITY		
5 PLANET 20 1 AFIELD NARROWEST		
6 PLANET 21 1 AFIELD FLATTEST		
7		
8		
9		
10		
11		
12		
13		
14		
15		

5		8
0 (NEXT-NUMBER NEXT-WORD	6DEC84RD) (SAVE-PLANET	6DEC84RD)
1	: SAVE-PLANET (---)	
2 : NEXT-NUMBER (---)	(PLAN-TYPE) @ PLAN-TYPE C! (ATMO.ACTIVITY) @ ATMO.ACTIVITY !	
3 BL WORD NUMBER DROP :	(PLAN-SURFTYPE) @ PLAN-SURFTYPE C!	
4	(PLAN-MASS) @ PLAN-MASS ! (ATMO.DENSITY) @ ATMO.DENSITY C!	
5 (PARSE A NUMBER FROM THE INPUT STREAM)	(PLAN-LIFE) @ PLAN-LIFE C! (NARROWEST) @ NARROWEST C!	
6	(PLAN-LSEED) @ PLAN-LSEED ! (FLATTEST) @ FLATTEST C!	
7 : NEXT-WORD (---)	(PLAN-TSEED) @ PLAN-TSEED !	
8 [COMPILE] EXECUTE :	(PLAN-MIN) @ PLAN-MIN C!	
9	(PLAN-ARUIN) @ PLAN-ARUIN C!	
10 (EXECUTE A WORD PARSED OUT OF INPUT STREAM)	(PLAN-RRUIN) @ PLAN-RRUIN C!	
11	(MINERAL1) @ MINERAL1 C!	
12	(MINERAL2) @ MINERAL2 C!	
13	(MINERAL3) @ MINERAL3 C!	
14	(COLDEST) @ COLDEST C!	
15	(WARMEST) @ WARMEST C! PL-MASS ON :	

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0 ( SAVE-PLANET                                6DEC84RD)
1
2 : INIT-PLANET-RECORD ( --- )
3 (PLAN-TYPE) OFF (PLAN-SURFTYPE) OFF
4 (PLAN-MASS) OFF (PLAN-LSEED) OFF
5 (PLAN-TSEED) OFF (PLAN-MIN) OFF
6 (PLAN-ARUIN) OFF (PLAN-RRUIN) OFF
7 (MINERAL1) OFF (MINERAL2) OFF
8 (MINERAL3) OFF (COLDEST) OFF
9 (WARMEST) OFF PL-MASS OFF
10 (PLAN-LIFE) OFF
11 (ATMO.ACTIVITY) OFF
12 (ATMO.DENSITY) OFF
13 (NARROWEST) OFF
14 (FLATTEST) OFF ;
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0 ( PLANET AFIELD COMPLIER CONSTANTS            8dec84rd)
1
2 ( PLANET SURFACE TYPE CONSTANTS)
3 1 CONSTANT GAS          2 CONSTANT LIQUID
4 3 CONSTANT FROZEN       4 CONSTANT MOLTEN
5 5 CONSTANT ROCK
6 ( PLANET TYPE CONSTANTS)
7 1 CONSTANT PLANETOID    2 CONSTANT SMALL
8 3 CONSTANT EARTH-LIKE   4 CONSTANT LARGE
9 5 CONSTANT GAS-GIANT    6 CONSTANT CRYSTAL
10 7 CONSTANT EARTH
11 ( PLANET TEMPERATE CONSTANTS)
12 0 CONSTANT SUBFREEZING 1 CONSTANT ARTIC
13 2 CONSTANT TEMPERATE   3 CONSTANT TROPICAL
14 4 CONSTANT SEARING     5 CONSTANT FURNACE
15

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0 ( MINERAL CONSTANTS                                6DEC84RD) ( PLANET AFIELD COMPLIER            8DEC84RD)
1
2
3 1 C= ALUMINUM      2 C= ANTIMONY      3 C= CHROMIUM
4 4 C= COBALT        5 C= COPPER        6 C= ENDURIUM
5 7 C= GOLD          8 C= IRON          9 C= LEAD
6 10 C= MAGNESIUM    11 C= MERCURY     12 C= MOLYBDENUM
7 13 C= NICKEL       14 C= PLATINUM    15 C= PLUTONIUM
8 16 C= PROMETHIUM   17 C= RODNIUM     18 C= SILVER
9 19 C= TIN          20 C= TITANIUM    21 C= TUNGSTEN
10 22 C= ZINC
11
12
13
14
15
: PLANET-TYPE: ( --- )
NEXT-WORD DUP 1 8 WITHIN
IF (PLAN-TYPE) !
ELSE DROP ." PLANET TYPE ERROR"
THEN ;

: PLANET-SURFACE: ( --- )
NEXT-WORD DUP 1 6 WITHIN
IF (PLAN-SURFTYPE) !
ELSE DROP ." PLANET SURFACE TYPE ERROR " RECORD# @ . CR
THEN RECORD# @ 18 < IF SAVE-PLANET THEN ;

: PLANET-MASS: ( --- )
NEXT-NUMBER (PLAN-MASS) ! ;

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0 ( PLANET AFIELD COMPLIER                               8dec84rd) ( PLANET AFIELD COMPLIER          6DEC84RD)
1
2 : PLANET-LSEED: ( --- )                                : WARMNESS: ( --- )
3   NEXT-NUMBER (PLAN-LSEED) ! ;                          NEXT-WORD 0 MAX 5 MIN (WARMEST) ! ;
4
5 : PLANET-TSEED: ( --- )                                : +-100 ( NUMBER --- NUMBER BETW -100 AND +100 )
6   NEXT-NUMBER (PLAN-TSEED) ! ;                          -100 MAX 100 MIN ;
7
8 : PLANET-MIN-SEED: ( --- )
9   NEXT-NUMBER (PLAN-MIN) ! ;
10
11 : PLANET-ANCIENT-RUIN-SEED: ( --- )
12   NEXT-NUMBER (PLAN-ARUIN) ! ;
13
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0 ( PLANET AFIELD COMPLIER                               8dec84rd) ( PLANET AFIELD COMPLIER          8dec84rd)
1
2 : PLANET-RECENT-RUIN-SEED: ( --- )                      : ATMOSPHERIC-ACITIVITY: ( --- )
3   NEXT-NUMBER (PLAN-RRUIN) ! ;                          NEXT-NUMBER +-100 (ATMO.ACTIVITY) ! ;
4   PL-SAVE @ NOT
5   IF SAVE-PLANET THEN ;                                : ATMOSPHERIC-DENSITY: ( --- )
6                                                         NEXT-NUMBER 1 MAX 5 MIN (ATMO.DENSITY) ! ;
7
8                                                         : NARROWEST: ( --- )
9                                                         NEXT-NUMBER 0 MAX 13 MIN (NARROWEST) ! ;
10
11                                                         : FLATTEST: ( --- )
12                                                         NEXT-NUMBER 0 MAX 13 MIN (FLATTEST) ! ;
13
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0 ( PLANET AFIELD COMPLIER                               6DEC84RD) ( PLANET AFIELD COMPLIER          6DEC84RD)
1
2 : MINERAL1: ( --- )                                     : PLANET-SPECIE#: ( ---- )
3   NEXT-WORD (MINERAL1) ! ;                               NEXT-NUMBER RECORD# ! PLANET FILE# !
4                                                         INIT-PLANET-RECORD ;
5 : MINERAL2: ( --- )
6   NEXT-WORD (MINERAL2) ! ;                                : PLANET-LIFE: ( --- )
7                                                         NEXT-NUMBER 0 MAX 255 MIN (PLAN-LIFE) ! ;
8 : MINERAL3: ( --- )
9   NEXT-WORD (MINERAL3) ! ;
10
11 : COLONNESS: ( --- )
12   NEXT-WORD 0 MAX 5 MIN (COLDEST) ! ;
13
14
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