

Base9yo run - 2D model Constituent list updated January 2019 with new species

1 O(³ P)	49 CH ₃ Br (Methyl bromide)	101 HFC-236fa (CF ₃ CH ₂ CF ₃)
2 O(¹ D)	50 Halon-1301 (CBrF ₃)	
3 O ₂	51 Halon-1211 (CBrClF ₂)	
4 O ₃	52 HCFC-22 (CHClF ₂)	102 NF ₃
5 NO	53 CFC-113 (C ₂ Cl ₃ F ₃)	103 CF ₄
6 NO ₂	54 CFC-114 (C ₂ Cl ₂ F ₄)	104 C ₂ F ₆
7 NO ₃	55 CFC-115 (C ₂ ClF ₅)	105 SF ₆
8 N ₂ O ₅	56 HF (Fx)	106 SO ₂ F ₂
9 N	57 CF ₂ O	107 OCS
10 HNO ₃	58 PRECIP (BrOx)	
11 N ₂ O	59 H ₂ O* (loss freq from rainout)	108 CH ₃ CN
12 H	60 BrCl	109 HCN
13 OH	61 Cl ₂ O ₂	
14 HO ₂	62 OClO	110 CO ₂ seasonal cycle BC (offline)
15 H ₂ O	63 ClNO ₂	111 SF ₆ seasonal cycle BC (offline)
16 H ₂ O ₂	64 Cl ₂	112 CCl ₄ fluxes (offline)
17 H ₂	65 ClOO	113 CH ₄ seasonal cycle BC (offline)
18 CH ₄	66 HNO ₃ (solid)	
19 CO	67 H ₂ O(solid)	114 C ₂ H ₆
20 CO ₂	68 HOBr	115 C ₃ H ₆ O (acetone)
21 Carbon-14 (ClOx)	69 HCFC-141b (CH ₃ CCl ₂ F)	116 PAN (CH ₃ CO ₃ NO ₂)
22 CH ₃ O ₂ (MO ₂)	70 HCFC-142b (CH ₃ CClF ₂)	117 C ₂ H ₅ O ₂ (ETHO ₂)
23 CH ₂ O	71 HCFC-123 (CHCl ₂ CF ₃)	118 C ₂ H ₅ OOH (ETHOH, ETP)
24 CH ₃ OOH (MP)	72 Halon-2402 (C ₂ Br ₂ F ₄)	119 CH ₃ CHO (ALD ₂)
25 HOCl	73 (CHx = CH ₃ O ₂ + CH ₂ O + CH ₃ OOH)	120 CH ₃ CO ₃ (MCO ₃)
26 ClO ₃	74 (HOx = H + OH + HO ₂ + 2H ₂ O ₂)	121 CH ₃ CO ₃ H (MAP)
27 Cl	75 Halon-1202 (CBr ₂ F ₂)	122 CH ₃ OH (methanol, MOH)
28 ClO	76 CH ₂ Br ₂ (Methylene bromide)	123 C ₂ H ₅ O ₂ NO ₂ (ETHO ₂ NO ₂)
29 HCl	77 CHBr ₃ (Bromoform)	124 C ₅ H ₈ (isoprene)
30 ClONO ₂	78 Clock Tracer (Age)	125
31 NOy	79 BrONO	126
32 (NOx)	80 Ozone diagnostic (DU/km)	127
33 Cly		128
34 CFCl ₃ (F-11)	81 HFC-134a (CH ₂ FCF ₃)	129
35 CF ₂ Cl ₂ (F-12)	82 HFC-143a (CF ₃ CH ₃)	130 Stratospheric Aerosol SAD
36 CCl ₄	83 HFC-23 (CHF ₃)	
37 CH ₃ Cl	84 HFC-32 (CH ₂ F ₂)	
38 HO ₂ NO ₂	85 HFC-125 (CHF ₂ CF ₃)	131 Temperature (K)
39 Ox	86 HFC-152a (CH ₃ CHF ₂)	132 Zonal wind (m/sec)
40 CH ₃ CCl ₃	87 HFC-227ea (CF ₃ CHFCF ₃)	133 Solar Heating rate (K/day) -C
41 O ₂ (¹ Delta)	88 HFC-245fa (CHF ₂ CH ₂ CF ₃)	134 IR Cooling rate (K/day) -C
42 HONO	89 HOONO ((pernitrous acid)	135 QBARy (1.e11 1/m-sec)
43 Br ₂	90 model tropospheric OH	136 EP-Fl Div - Plan waves (m/sec/day) -C
44 BrO		137 EP-Fl Div- Sp Gr waves (m/sec/day)-C
45 Br	91 HCFC-133a (C ₂ H ₂ ClF ₃)	138 EP-Fl Div- Or Gr waves (m/sec/day)-C
46 HBr	92 CFC-112 (C ₂ Cl ₄ F ₂)	+ sfc UBAR relaxation
47 BrONO ₂	93 CFC-112a (C ₂ F ₂ Cl ₄)	139 EP-Fl Div - Rayl Fric (m/sec/day) - C
48 Bry	94 CFC-113a (C ₂ F ₃ Cl ₃)	140 tropospheric temp correction (K/day)-C
	95 CFC-114a (C ₂ F ₄ Cl ₂)	+ equatorial waves / QBO relaxation
		141 Latent Heating rate (K/day) - C
	96 CFC-13 (CClF ₃)	
	97 HCFC-21 (CHCl ₂ F)	
	98 HCFC-124 (CHClF ₂ CF ₃)	
	99 CH ₂ Cl ₂ HCFC-225ea (CHCl ₂ CF ₂ CF ₃)	
	100 CHCl ₃ HCFC-225eb (CHClF ₂ CF ₂ CF ₃)	