WMAP Cosmological Parameters

Model: lcdm+sz+lens

Data: wmap7

$10^2\Omega_b h^2$	$2.258^{+0.057}_{-0.056}$	$1-n_s$	0.037 ± 0.014
$1-n_s$	$0.0079 < 1-n_s < 0.0642$ (95% CL)	$A_{\rm BAO}(z=0.35)$	$0.463^{+0.021}_{-0.020}$
C_{220}	5763^{+38}_{-40}	$d_A(z_{\rm eq})$	14281^{+158}_{-161} Mpc
$d_A(z_*)$	14116^{+160}_{-163} Mpc	$\Delta^2_{\mathcal{R}}$	$(2.43 \pm 0.11) \times 10^{-9}$
h	0.710 ± 0.025	H_0	71.0 ± 2.5 km/s/Mpc
$k_{\rm eq}$	$0.00974^{+0.00041}_{-0.00040}$	$\ell_{\rm eq}$	137.5 ± 4.3
ℓ_*	302.44 ± 0.80	n_s	0.963 ± 0.014
Ω_b	0.0449 ± 0.0028	$\Omega_b h^2$	$0.02258^{+0.00057}_{-0.00056}$
Ω_c	0.222 ± 0.026	$\Omega_c h^2$	0.1109 ± 0.0056
Ω_Λ	0.734 ± 0.029	Ω_m	0.266 ± 0.029
$\Omega_m h^2$	$0.1334^{+0.0056}_{-0.0055}$	$r_{\rm hor}(z_{\rm dec})$	285.5 ± 3.0 Mpc
$r_s(z_d)$	153.2 ± 1.7 Mpc	$r_s(z_d)/D_v(z=0.2)$	$0.1922^{+0.0072}_{-0.0073}$
$r_s(z_d)/D_v(z=0.35)$	$0.1153^{+0.0038}_{-0.0039}$	$r_s(z_*)$	$146.6^{+1.5}_{-1.6}$ Mpc
R	1.719 ± 0.019	σ_8	0.801 ± 0.030
$A_{\rm SZ}$	$0.97^{+0.68}_{-0.97}$	t_0	13.75 ± 0.13 Gyr
τ	0.088 ± 0.015	θ_*	0.010388 ± 0.000027
θ_*	0.5952 ± 0.0016 °	t_*	379164^{+5187}_{-5243} yr
$z_{\rm dec}$	1088.2 ± 1.2	z_d	1020.3 ± 1.4
$z_{\rm eq}$	3196^{+134}_{-133}	$z_{\rm reion}$	10.5 ± 1.2
z_*	$1090.79^{+0.94}_{-0.92}$		

WMAP Cosmological Parameters

Model: lcdm+sz+lens

Data: wmap7+bao+h0

$10^2\Omega_b h^2$	2.260 ± 0.053	$1 - n_s$	0.037 ± 0.012
$1 - n_s$	$0.013 < 1 - n_s < 0.061$ (95% CL)	$A_{\rm BAO}(z = 0.35)$	0.468 ± 0.011
C_{220}	5762^{+38}_{-37}	$d_A(z_{\rm eq})$	14238^{+128}_{-129} Mpc
$d_A(z_*)$	14073^{+129}_{-130} Mpc	$\Delta^2_{\mathcal{R}}$	$(2.441^{+0.088}_{-0.092}) \times 10^{-9}$
h	$0.704^{+0.013}_{-0.014}$	H_0	$70.4^{+1.3}_{-1.4}$ km/s/Mpc
$k_{\rm eq}$	0.00985 ± 0.00026	$\ell_{\rm eq}$	$138.6^{+2.6}_{-2.5}$
ℓ_*	302.40 ± 0.73	n_s	0.963 ± 0.012
Ω_b	0.0456 ± 0.0016	$\Omega_b h^2$	0.02260 ± 0.00053
Ω_c	0.227 ± 0.014	$\Omega_c h^2$	0.1123 ± 0.0035
Ω_Λ	$0.728^{+0.015}_{-0.016}$	Ω_m	$0.272^{+0.016}_{-0.015}$
$\Omega_m h^2$	0.1349 ± 0.0036	$r_{\rm hor}(z_{\rm dec})$	284.6 ± 1.9 Mpc
$r_s(z_d)$	152.7 ± 1.3 Mpc	$r_s(z_d)/D_v(z = 0.2)$	$0.1904^{+0.0037}_{-0.0038}$
$r_s(z_d)/D_v(z = 0.35)$	0.1143 ± 0.0020	$r_s(z_*)$	146.2 ± 1.1 Mpc
R	$1.7239^{+0.0100}_{-0.0099}$	σ_8	0.809 ± 0.024
$A_{\rm SZ}$	$0.96^{+0.69}_{-0.96}$	t_0	13.75 ± 0.11 Gyr
τ	0.087 ± 0.014	θ_*	0.010389 ± 0.000025
θ_*	0.5953 ± 0.0014 °	t_*	377730^{+3205}_{-3200} yr
$z_{\rm dec}$	1088.2 ± 1.1	z_d	1020.5 ± 1.3
$z_{\rm eq}$	3232 ± 87	$z_{\rm reion}$	10.4 ± 1.2
z_*	$1090.89^{+0.68}_{-0.69}$		

WMAP Cosmological Parameters

Model: lcdm+sz+lens

Data: wmap7+bao+snsalt

$10^2\Omega_b h^2$	2.249 ± 0.053	$1 - n_s$	$0.040^{+0.013}_{-0.012}$
$1 - n_s$	$0.015 < 1 - n_s < 0.064$ (95% CL)	$A_{\rm BAO}(z = 0.35)$	0.472 ± 0.010
C_{220}	5757^{+38}_{-37}	$d_A(z_{\rm eq})$	14231 ± 124 Mpc
$d_A(z_*)$	14065^{+124}_{-125} Mpc	$\Delta^2_{\mathcal{R}}$	$(2.461^{+0.088}_{-0.091}) \times 10^{-9}$
h	0.699 ± 0.013	H_0	69.9 ± 1.3 km/s/Mpc
$k_{\rm eq}$	0.00990 ± 0.00025	$\ell_{\rm eq}$	139.3 ± 2.4
ℓ_*	302.52 ± 0.75	n_s	$0.960^{+0.012}_{-0.013}$
Ω_b	0.0461 ± 0.0015	$\Omega_b h^2$	0.02249 ± 0.00053
Ω_c	0.232 ± 0.013	$\Omega_c h^2$	0.1131 ± 0.0033
Ω_Λ	0.722 ± 0.015	Ω_m	0.278 ± 0.015
$\Omega_m h^2$	0.1356 ± 0.0034	$r_{\rm hor}(z_{\rm dec})$	284.2 ± 1.8 Mpc
$r_s(z_d)$	$152.6^{+1.3}_{-1.2}$ Mpc	$r_s(z_d)/D_v(z = 0.2)$	0.1889 ± 0.0035
$r_s(z_d)/D_v(z = 0.35)$	0.1135 ± 0.0019	$r_s(z_*)$	146.1 ± 1.1 Mpc
R	1.7275 ± 0.0093	σ_8	0.811 ± 0.023
$A_{\rm SZ}$	$0.95^{+0.69}_{-0.94}$	t_0	13.78 ± 0.11 Gyr
τ	0.086 ± 0.014	θ_*	0.010385 ± 0.000026
θ_*	0.5950 ± 0.0015 °	t_*	376985^{+3003}_{-2996} yr
$z_{\rm dec}$	1088.4 ± 1.1	z_d	1020.3 ± 1.3
$z_{\rm eq}$	3249^{+82}_{-83}	$z_{\rm reion}$	10.4 ± 1.2
z_*	$1091.10^{+0.71}_{-0.69}$		

WMAP Cosmological Parameters

Model: lcdm+sz+lens

Data: wmap7+cmb

$10^2\Omega_b h^2$	2.253 ± 0.054	$1 - n_s$	$0.038^{+0.013}_{-0.014}$
$1 - n_s$	$0.011 < 1 - n_s < 0.064$ (95% CL)	$A_{\rm BAO}(z = 0.35)$	0.460 ± 0.019
C_{220}	5765 ± 38	$d_A(z_{\rm eq})$	14286^{+144}_{-143} Mpc
$d_A(z_*)$	14122^{+146}_{-145} Mpc	$\Delta^2_{\mathcal{R}}$	$(2.43 \pm 0.11) \times 10^{-9}$
h	0.714 ± 0.024	H_0	71.4 ± 2.4 km/s/Mpc
$k_{\rm eq}$	0.00970 ± 0.00037	$\ell_{\rm eq}$	136.9 ± 4.0
ℓ_*	$302.20^{+0.72}_{-0.71}$	n_s	$0.962^{+0.014}_{-0.013}$
Ω_b	$0.0443^{+0.0025}_{-0.0026}$	$\Omega_b h^2$	0.02253 ± 0.00054
Ω_c	0.218 ± 0.024	$\Omega_c h^2$	0.1103 ± 0.0052
Ω_Λ	$0.738^{+0.027}_{-0.026}$	Ω_m	$0.262^{+0.026}_{-0.027}$
$\Omega_m h^2$	0.1329 ± 0.0051	$r_{\rm hor}(z_{\rm dec})$	285.8 ± 2.8 Mpc
$r_s(z_d)$	153.4 ± 1.5 Mpc	$r_s(z_d)/D_v(z = 0.2)$	0.1935 ± 0.0069
$r_s(z_d)/D_v(z = 0.35)$	0.1159 ± 0.0037	$r_s(z_*)$	146.8 ± 1.4 Mpc
R	1.716 ± 0.018	σ_8	0.798 ± 0.028
$A_{\rm SZ}$	$0.88^{+0.66}_{-0.88}$	t_0	13.72 ± 0.12 Gyr
τ	$0.088^{+0.015}_{-0.014}$	θ_*	0.010396 ± 0.000025
θ_*	0.5956 ± 0.0014 °	t_*	379646^{+4854}_{-4840} yr
$z_{\rm dec}$	1088.2 ± 1.1	z_d	$1020.1^{+1.2}_{-1.3}$
$z_{\rm eq}$	3182^{+121}_{-122}	$z_{\rm reion}$	10.5 ± 1.2
z_*	$1090.81^{+0.90}_{-0.89}$		

WMAP Cosmological Parameters

Model: lcdm+sz+lens

Data: wmap7+bao

$10^2\Omega_b h^2$	2.247 ± 0.054	$1 - n_s$	$0.040^{+0.012}_{-0.013}$
$1 - n_s$	$0.015 < 1 - n_s < 0.065$ (95% CL)	$A_{\rm BAO}(z = 0.35)$	0.473 ± 0.012
C_{220}	5756 ± 38	$d_A(z_{\rm eq})$	14228 ± 128 Mpc
$d_A(z_*)$	14063^{+130}_{-129} Mpc	$\Delta^2_{\mathcal{R}}$	$(2.466^{+0.092}_{-0.093}) \times 10^{-9}$
h	0.698 ± 0.015	H_0	69.8 ± 1.5 km/s/Mpc
$k_{\rm eq}$	0.00992 ± 0.00028	$\ell_{\rm eq}$	$139.4^{+2.7}_{-2.8}$
ℓ_*	302.54 ± 0.75	n_s	$0.960^{+0.013}_{-0.012}$
Ω_b	0.0462 ± 0.0018	$\Omega_b h^2$	0.02247 ± 0.00054
Ω_c	0.233 ± 0.016	$\Omega_c h^2$	0.1133 ± 0.0037
Ω_Λ	0.720 ± 0.018	Ω_m	0.280 ± 0.018
$\Omega_m h^2$	0.1358 ± 0.0038	$r_{\rm hor}(z_{\rm dec})$	284.1 ± 2.0 Mpc
$r_s(z_d)$	152.6 ± 1.3 Mpc	$r_s(z_d)/D_v(z = 0.2)$	0.1887 ± 0.0042
$r_s(z_d)/D_v(z = 0.35)$	0.1134 ± 0.0022	$r_s(z_*)$	146.0 ± 1.1 Mpc
R	1.728 ± 0.011	σ_8	0.812 ± 0.024
$A_{\rm SZ}$	$0.95^{+0.69}_{-0.95}$	t_0	13.78 ± 0.11 Gyr
τ	0.086 ± 0.014	θ_*	0.010384 ± 0.000026
θ_*	0.5950 ± 0.0015 °	t_*	376821^{+3372}_{-3367} yr
$z_{\rm dec}$	1088.4 ± 1.1	z_d	1020.3 ± 1.3
$z_{\rm eq}$	3253 ± 91	$z_{\rm reion}$	10.4 ± 1.2
z_*	1091.15 ± 0.74		

WMAP Cosmological Parameters

Model: lcdm+sz+lens

Data: wmap7+lrg

$10^2\Omega_b h^2$	$2.247^{+0.053}_{-0.054}$	$1-n_s$	0.041 ± 0.013
$1-n_s$	$0.016 < 1-n_s < 0.067$ (95% CL)	$A_{\rm BAO}(z=0.35)$	0.483 ± 0.013
C_{220}	5751 ± 38	$d_A(z_{\rm eq})$	14159^{+118}_{-119} Mpc
$d_A(z_*)$	13992^{+119}_{-120} Mpc	$\Delta^2_{\mathcal{R}}$	$(2.491 \pm 0.099) \times 10^{-9}$
h	0.687 ± 0.016	H_0	68.7 ± 1.6 km/s/Mpc
$k_{\rm eq}$	0.01012 ± 0.00027	$\ell_{\rm eq}$	141.5 ± 2.7
ℓ_*	302.54 ± 0.75	n_s	0.959 ± 0.013
Ω_b	0.0476 ± 0.0018	$\Omega_b h^2$	$0.02247^{+0.00053}_{-0.00054}$
Ω_c	0.246 ± 0.018	$\Omega_c h^2$	0.1161 ± 0.0036
Ω_Λ	0.706 ± 0.019	Ω_m	0.294 ± 0.019
$\Omega_m h^2$	0.1386 ± 0.0037	$r_{\rm hor}(z_{\rm dec})$	282.7 ± 1.9 Mpc
$r_s(z_d)$	151.8 ± 1.2 Mpc	$r_s(z_d)/D_v(z=0.2)$	0.1854 ± 0.0043
$r_s(z_d)/D_v(z=0.35)$	0.1116 ± 0.0023	$r_s(z_*)$	145.3 ± 1.0 Mpc
R	1.737 ± 0.011	σ_8	0.824 ± 0.022
$A_{\rm SZ}$	$0.91^{+0.67}_{-0.91}$	t_0	$13.80^{+0.12}_{-0.11}$ Gyr
τ	0.084 ± 0.014	θ_*	0.010384 ± 0.000026
θ_*	0.5950 ± 0.0015 °	t_*	374306^{+3221}_{-3254} yr
$z_{\rm dec}$	1088.6 ± 1.1	z_d	1020.5 ± 1.3
$z_{\rm eq}$	3319^{+89}_{-88}	$z_{\rm reion}$	10.3 ± 1.2
z_*	$1091.40^{+0.75}_{-0.77}$		

WMAP Cosmological Parameters

Model: lcdm+sz+lens

Data: wmap7+h0

$10^2\Omega_b h^2$	$2.270^{+0.055}_{-0.056}$	$1-n_s$	0.033 ± 0.013
$1-n_s$	$0.0064 < 1-n_s < 0.0592$ (95% CL)	$A_{\rm BAO}(z=0.35)$	0.455 ± 0.016
C_{220}	5768 ± 38	$d_A(z_{\rm eq})$	14320^{+152}_{-149} Mpc
$d_A(z_*)$	14156^{+154}_{-151} Mpc	$\Delta^2_{\mathcal{R}}$	$(2.39 \pm 0.10) \times 10^{-9}$
h	$0.721^{+0.021}_{-0.020}$	H_0	$72.1^{+2.1}_{-2.0}$ km/s/Mpc
$k_{\rm eq}$	$0.00960^{+0.00034}_{-0.00035}$	$\ell_{\rm eq}$	135.8 ± 3.6
ℓ_*	$302.31^{+0.77}_{-0.76}$	n_s	0.967 ± 0.013
Ω_b	0.0438 ± 0.0022	$\Omega_b h^2$	$0.02270^{+0.00055}_{-0.00056}$
Ω_c	0.210 ± 0.020	$\Omega_c h^2$	0.1087 ± 0.0047
Ω_Λ	0.746 ± 0.022	Ω_m	0.254 ± 0.022
$\Omega_m h^2$	0.1314 ± 0.0047	$r_{\rm hor}(z_{\rm dec})$	286.6 ± 2.6 Mpc
$r_s(z_d)$	153.7 ± 1.6 Mpc	$r_s(z_d)/D_v(z=0.2)$	$0.1952^{+0.0060}_{-0.0059}$
$r_s(z_d)/D_v(z=0.35)$	$0.1169^{+0.0032}_{-0.0031}$	$r_s(z_*)$	147.1 ± 1.4 Mpc
R	1.711 ± 0.015	σ_8	0.792 ± 0.029
$A_{\rm SZ}$	$1.02^{+0.98}_{-0.68}$	t_0	13.71 ± 0.12 Gyr
τ	0.090 ± 0.015	θ_*	$0.010392^{+0.000026}_{-0.000027}$
θ_*	0.5954 ± 0.0015 °	t_*	381119^{+4428}_{-4415} yr
$z_{\rm dec}$	1087.9 ± 1.1	z_d	1020.3 ± 1.4
$z_{\rm eq}$	3148^{+113}_{-114}	$z_{\rm reion}$	10.6 ± 1.2
z_*	$1090.45^{+0.82}_{-0.83}$		

WMAP Cosmological Parameters

Model: lcdm+sz+lens+delz

Data: wmap7

$10^2\Omega_b h^2$	2.244 ± 0.055	$1 - n_s$	$0.042^{+0.014}_{-0.013}$
$1 - n_s$	$0.015 < 1 - n_s < 0.068$ (95% CL)	$A_{\rm BAO}(z = 0.35)$	0.467 ± 0.020
C_{220}	5762 ± 39	$d_A(z_{\rm eq})$	14274^{+155}_{-152} Mpc
$d_A(z_*)$	14109^{+157}_{-154} Mpc	$\Delta^2_{\mathcal{R}}$	$(2.46 \pm 0.12) \times 10^{-9}$
Δ_z	< 15 (95% CL)	h	0.705 ± 0.024
H_0	70.5 ± 2.4 km/s/Mpc	$k_{\rm eq}$	$0.00979^{+0.00039}_{-0.00040}$
$\ell_{\rm eq}$	138.1 ± 4.2	ℓ_*	$302.52^{+0.77}_{-0.76}$
n_s	$0.958^{+0.013}_{-0.014}$	Ω_b	$0.0453^{+0.0027}_{-0.0028}$
$\Omega_b h^2$	0.02244 ± 0.00055	Ω_c	0.226 ± 0.026
$\Omega_c h^2$	$0.1117^{+0.0054}_{-0.0055}$	Ω_Λ	0.728 ± 0.028
Ω_m	0.272 ± 0.028	$\Omega_m h^2$	$0.1341^{+0.0054}_{-0.0055}$
$r_{\rm hor}(z_{\rm dec})$	$285.1^{+3.0}_{-2.9}$ Mpc	$r_s(z_d)$	153.1 ± 1.7 Mpc
$r_s(z_d)/D_v(z = 0.2)$	0.1909 ± 0.0069	$r_s(z_d)/D_v(z = 0.35)$	0.1146 ± 0.0037
$r_s(z_*)$	146.5 ± 1.5 Mpc	R	1.723 ± 0.018
σ_8	0.802 ± 0.030	$A_{\rm SZ}$	$1.00^{+0.68}_{-0.99}$
t_0	$13.77^{+0.13}_{-0.12}$ Gyr	τ	0.087 ± 0.015
θ_*	$0.010385^{+0.000026}_{-0.000027}$	θ_*	0.5950 ± 0.0015 °
t_*	378411^{+5069}_{-5021} yr	$z_{\rm dec}$	1088.4 ± 1.2
z_d	$1020.0^{+1.4}_{-1.3}$	$z_{\rm eq}$	3212^{+129}_{-131}
$z_{\rm reion}$	9.8 ± 1.5	z_*	$1091.05^{+0.91}_{-0.90}$

WMAP Cosmological Parameters

Model: lcdm+sz+lens+run

Data: wmap7

$10^2\Omega_b h^2$	$2.185^{+0.082}_{-0.081}$	$1-n_s$	$-0.027^{+0.051}_{-0.050}$
$1-n_s$	$-0.124 < 1-n_s < 0.073$ (95% CL)	$A_{\rm BAO}(z=0.35)$	$0.492^{+0.032}_{-0.033}$
C_{220}	5767 ± 38	$d_A(z_{\rm eq})$	14156 ± 190 Mpc
$d_A(z_*)$	13989^{+192}_{-193} Mpc	$\Delta^2_{\mathcal{R}}$	$(2.42 \pm 0.11) \times 10^{-9}$
$dn_s/d\ln k$	-0.034 ± 0.026	$dn_s/d\ln k$	$-0.084 < dn_s/d\ln k < 0.020$ (95% CL)
h	0.675 ± 0.038	H_0	67.5 ± 3.8 km/s/Mpc
$k_{\rm eq}$	$0.01023^{+0.00058}_{-0.00059}$	$\ell_{\rm eq}$	$143.0^{+6.2}_{-6.4}$
ℓ_*	$302.60^{+0.80}_{-0.82}$	n_s	$1.027^{+0.050}_{-0.051}$
Ω_b	$0.0482^{+0.0041}_{-0.0042}$	$\Omega_b h^2$	$0.02185^{+0.00082}_{-0.00081}$
Ω_c	0.264 ± 0.047	$\Omega_c h^2$	$0.1182^{+0.0084}_{-0.0085}$
Ω_Λ	$0.688^{+0.052}_{-0.051}$	Ω_m	$0.312^{+0.051}_{-0.052}$
$\Omega_m h^2$	$0.1401^{+0.0079}_{-0.0080}$	$r_{\rm hor}(z_{\rm dec})$	$281.8^{+4.3}_{-4.2}$ Mpc
$r_s(z_d)$	152.0 ± 2.0 Mpc	$r_s(z_d)/D_v(z=0.2)$	0.183 ± 0.010
$r_s(z_d)/D_v(z=0.35)$	$0.1104^{+0.0055}_{-0.0054}$	$r_s(z_*)$	145.2 ± 1.9 Mpc
R	$1.745^{+0.028}_{-0.029}$	σ_8	0.818 ± 0.033
$A_{\rm SZ}$	$1.00^{+1.00}_{-0.99}$	t_0	$13.87^{+0.17}_{-0.16}$ Gyr
τ	0.092 ± 0.015	θ_*	$0.010382^{+0.000028}_{-0.000027}$
θ_*	0.5949 ± 0.0016 °	t_*	372573^{+7538}_{-7408} yr
$z_{\rm dec}$	$1089.5^{+1.5}_{-1.6}$	z_d	1019.2 ± 1.6
$z_{\rm eq}$	3356^{+189}_{-192}	$z_{\rm reion}$	11.2 ± 1.4
z_*	1092.5 ± 1.7		

WMAP Cosmological Parameters

Model: lcdm+sz+lens+run

Data: wmap7+bao+h0

$10^2\Omega_b h^2$	$2.225^{+0.064}_{-0.063}$	$1-n_s$	-0.008 ± 0.042
$1-n_s$	$-0.093 < 1-n_s < 0.076$ (95% CL)	$A_{\rm BAO}(z=0.35)$	$0.474^{+0.012}_{-0.013}$
C_{220}	5772 ± 38	$d_A(z_{\rm eq})$	14224^{+131}_{-130} Mpc
$d_A(z_*)$	14059^{+132}_{-131} Mpc	$\Delta^2_{\mathcal{R}}$	$(2.395^{+0.099}_{-0.098}) \times 10^{-9}$
$dn_s/d\ln k$	-0.022 ± 0.020	$dn_s/d\ln k$	$-0.061 < dn_s/d\ln k < 0.017$ (95% CL)
h	0.696 ± 0.016	H_0	69.6 ± 1.6 km/s/Mpc
$k_{\rm eq}$	0.00994 ± 0.00028	$\ell_{\rm eq}$	139.6 ± 2.8
ℓ_*	302.36 ± 0.74	n_s	1.008 ± 0.042
Ω_b	$0.0459^{+0.0016}_{-0.0017}$	$\Omega_b h^2$	$0.02225^{+0.00064}_{-0.00063}$
Ω_c	0.235 ± 0.017	$\Omega_c h^2$	0.1138 ± 0.0038
Ω_Λ	0.719 ± 0.018	Ω_m	0.281 ± 0.018
$\Omega_m h^2$	0.1361 ± 0.0038	$r_{\rm hor}(z_{\rm dec})$	284.0 ± 2.0 Mpc
$r_s(z_d)$	152.7 ± 1.3 Mpc	$r_s(z_d)/D_v(z=0.2)$	0.1885 ± 0.0042
$r_s(z_d)/D_v(z=0.35)$	0.1133 ± 0.0022	$r_s(z_*)$	146.1 ± 1.1 Mpc
R	1.729 ± 0.011	σ_8	$0.808^{+0.025}_{-0.024}$
$A_{\rm SZ}$	$1.02^{+0.98}_{-0.67}$	t_0	13.79 ± 0.12 Gyr
τ	0.093 ± 0.016	θ_*	$0.010390^{+0.000025}_{-0.000026}$
θ_*	0.5953 ± 0.0015 °	t_*	376396^{+3474}_{-3462} yr
$z_{\rm dec}$	$1088.7^{+1.1}_{-1.2}$	z_d	1019.8 ± 1.5
$z_{\rm eq}$	3259 ± 92	$z_{\rm reion}$	11.1 ± 1.3
z_*	$1091.50^{+0.91}_{-0.92}$		

WMAP Cosmological Parameters

Model: lcdm+sz+lens+run

Data: wmap7+bao+snconst

$10^2\Omega_b h^2$	2.202 ± 0.062	$1 - n_s$	-0.016 ± 0.041
$1 - n_s$	$-0.099 < 1 - n_s < 0.064$ (95% CL)	$A_{\rm BAO}(z = 0.35)$	0.481 ± 0.010
C_{220}	5767^{+39}_{-38}	$d_A(z_{\rm eq})$	14214^{+124}_{-123} Mpc
$d_A(z_*)$	14048^{+125}_{-124} Mpc	$\Delta^2_{\mathcal{R}}$	$(2.406^{+0.098}_{-0.097}) \times 10^{-9}$
$dn_s/d\ln k$	-0.028 ± 0.019	$dn_s/d\ln k$	$-0.0653 < dn_s/d\ln k < 0.0098$ (95% CL)
h	0.687 ± 0.013	H_0	68.7 ± 1.3 km/s/Mpc
$k_{\rm eq}$	0.01002 ± 0.00024	$\ell_{\rm eq}$	140.7 ± 2.3
ℓ_*	$302.53^{+0.76}_{-0.74}$	n_s	1.016 ± 0.041
Ω_b	0.0467 ± 0.0014	$\Omega_b h^2$	$0.02202^{+0.00062}_{-0.00063}$
Ω_c	0.244 ± 0.014	$\Omega_c h^2$	0.1152 ± 0.0032
Ω_Λ	$0.709^{+0.016}_{-0.015}$	Ω_m	$0.291^{+0.015}_{-0.016}$
$\Omega_m h^2$	0.1372 ± 0.0033	$r_{\rm hor}(z_{\rm dec})$	283.3 ± 1.7 Mpc
$r_s(z_d)$	$152.6^{+1.3}_{-1.2}$ Mpc	$r_s(z_d)/D_v(z = 0.2)$	0.1862 ± 0.0034
$r_s(z_d)/D_v(z = 0.35)$	0.1121 ± 0.0018	$r_s(z_*)$	145.9 ± 1.0 Mpc
R	$1.7354^{+0.0092}_{-0.0093}$	σ_8	0.810 ± 0.023
$A_{\rm SZ}$	$1.01^{+0.99}_{-0.67}$	t_0	13.84 ± 0.12 Gyr
τ	0.093 ± 0.016	θ_*	0.010384 ± 0.000026
θ_*	0.5950 ± 0.0015 °	t_*	375139^{+2897}_{-2881} yr
$z_{\rm dec}$	1089.0 ± 1.1	z_d	1019.4 ± 1.5
$z_{\rm eq}$	3287^{+80}_{-79}	$z_{\rm reion}$	11.2 ± 1.4
z_*	1091.94 ± 0.87		

WMAP Cosmological Parameters

Model: lcdm+sz+lens+run

Data: wmap7+cmb

$10^2\Omega_b h^2$	$2.176^{+0.066}_{-0.067}$	$1-n_s$	$-0.041^{+0.046}_{-0.045}$
$1-n_s$	$-0.130 < 1-n_s < 0.046$ (95% CL)	$A_{\rm BAO}(z=0.35)$	0.498 ± 0.030
C_{220}	5771^{+38}_{-39}	$d_A(z_{\rm eq})$	14095^{+182}_{-180} Mpc
$d_A(z_*)$	13928^{+184}_{-182} Mpc	$\Delta^2_{\mathcal{R}}$	$(2.42 \pm 0.11) \times 10^{-9}$
$dn_s/d\ln k$	$-0.041^{+0.022}_{-0.023}$	$dn_s/d\ln k$	$-0.0843 < dn_s/d\ln k < 0.0039$ (95% CL)
h	$0.669^{+0.034}_{-0.033}$	H_0	$66.9^{+3.4}_{-3.3}$ km/s/Mpc
$k_{\rm eq}$	0.01038 ± 0.00056	$\ell_{\rm eq}$	$144.5^{+5.9}_{-6.0}$
ℓ_*	302.33 ± 0.72	n_s	$1.041^{+0.045}_{-0.046}$
Ω_b	$0.0488^{+0.0039}_{-0.0040}$	$\Omega_b h^2$	$0.02176^{+0.00066}_{-0.00067}$
Ω_c	0.273 ± 0.044	$\Omega_c h^2$	0.1204 ± 0.0080
Ω_Λ	0.679 ± 0.048	Ω_m	0.321 ± 0.048
$\Omega_m h^2$	$0.1422^{+0.0076}_{-0.0077}$	$r_{\rm hor}(z_{\rm dec})$	280.7 ± 4.0 Mpc
$r_s(z_d)$	151.5 ± 1.9 Mpc	$r_s(z_d)/D_v(z=0.2)$	0.1811 ± 0.0092
$r_s(z_d)/D_v(z=0.35)$	$0.1094^{+0.0049}_{-0.0048}$	$r_s(z_*)$	144.7 ± 1.9 Mpc
R	1.751 ± 0.026	σ_8	0.827 ± 0.031
$A_{\rm SZ}$	$0.94^{+0.65}_{-0.93}$	t_0	13.86 ± 0.14 Gyr
τ	$0.093^{+0.015}_{-0.016}$	θ_*	0.010391 ± 0.000025
θ_*	0.5954 ± 0.0014 °	t_*	370632^{+7015}_{-6956} yr
$z_{\rm dec}$	1089.7 ± 1.4	z_d	$1019.2^{+1.4}_{-1.3}$
$z_{\rm eq}$	3406^{+182}_{-185}	$z_{\rm reion}$	11.4 ± 1.4
z_*	$1092.8^{+1.5}_{-1.4}$		

WMAP Cosmological Parameters

Model: lcdm+sz+lens+tens

Data: wmap7

$10^2\Omega_b h^2$	$2.313^{+0.073}_{-0.072}$	$1-n_s$	$0.018^{+0.019}_{-0.020}$
$1-n_s$	$-0.025 < 1-n_s < 0.054$ (95% CL)	$A_{\rm BAO}(z=0.35)$	0.445 ± 0.024
C_{220}	5766 ± 40	$d_A(z_{\rm eq})$	14329^{+164}_{-162} Mpc
$d_A(z_*)$	14166^{+166}_{-164} Mpc	$\Delta^2_{\mathcal{R}}$	$(2.28 \pm 0.15) \times 10^{-9}$
h	0.735 ± 0.032	H_0	73.5 ± 3.2 km/s/Mpc
$k_{\rm eq}$	0.00949 ± 0.00044	$\ell_{\rm eq}$	$134.3^{+4.8}_{-4.9}$
ℓ_*	$302.08^{+0.84}_{-0.83}$	n_s	$0.982^{+0.020}_{-0.019}$
Ω_b	0.0430 ± 0.0030	$\Omega_b h^2$	$0.02313^{+0.00073}_{-0.00072}$
Ω_c	0.200 ± 0.028	$\Omega_c h^2$	$0.1068^{+0.0062}_{-0.0063}$
Ω_Λ	0.757 ± 0.031	Ω_m	0.243 ± 0.031
$\Omega_m h^2$	0.1299 ± 0.0060	r	< 0.36 (95% CL)
$r_{\rm hor}(z_{\rm dec})$	287.5 ± 3.4 Mpc	$r_s(z_d)$	153.8 ± 1.7 Mpc
$r_s(z_d)/D_v(z=0.2)$	$0.1988^{+0.0091}_{-0.0089}$	$r_s(z_d)/D_v(z=0.35)$	$0.1188^{+0.0048}_{-0.0047}$
$r_s(z_*)$	147.3 ± 1.6 Mpc	R	1.702 ± 0.023
σ_8	0.787 ± 0.033	$A_{\rm SZ}$	$1.01^{+0.65}_{-0.67}$
t_0	13.63 ± 0.16 Gyr	τ	0.091 ± 0.015
θ_*	0.010400 ± 0.000029	θ_*	0.5959 ± 0.0016 °
t_*	382941^{+5977}_{-5905} yr	$z_{\rm dec}$	1087.3 ± 1.3
z_d	1021.1 ± 1.5	$z_{\rm eq}$	3112^{+143}_{-145}
$z_{\rm reion}$	10.5 ± 1.2	z_*	1089.8 ± 1.2

WMAP Cosmological Parameters

Model: lcdm+sz+lens+tens

Data: wmap7+bao+h0

$10^2\Omega_b h^2$	2.286 ± 0.057	$1 - n_s$	0.027 ± 0.014
$1 - n_s$	$-0.0026 < 1 - n_s < 0.0544$ (95% CL)	$A_{\rm BAO}(z = 0.35)$	0.464 ± 0.011
C_{220}	5758 ± 38	$d_A(z_{\rm eq})$	14234^{+126}_{-127} Mpc
$d_A(z_*)$	14069 ± 128 Mpc	$\Delta^2_{\mathcal{R}}$	$(2.37 \pm 0.10) \times 10^{-9}$
h	0.711 ± 0.015	H_0	71.1 ± 1.5 km/s/Mpc
$k_{\rm eq}$	0.00981 ± 0.00026	$\ell_{\rm eq}$	$138.0^{+2.6}_{-2.5}$
ℓ_*	302.29 ± 0.74	n_s	0.973 ± 0.014
Ω_b	0.0453 ± 0.0016	$\Omega_b h^2$	0.02286 ± 0.00057
Ω_c	0.221 ± 0.014	$\Omega_c h^2$	$0.1115^{+0.0035}_{-0.0034}$
Ω_Λ	0.734 ± 0.016	Ω_m	0.266 ± 0.016
$\Omega_m h^2$	0.1344 ± 0.0036	r	< 0.24 (95% CL)
$r_{\rm hor}(z_{\rm dec})$	285.0 ± 1.9 Mpc	$r_s(z_d)$	152.7 ± 1.3 Mpc
$r_s(z_d)/D_v(z = 0.2)$	$0.1918^{+0.0039}_{-0.0040}$	$r_s(z_d)/D_v(z = 0.35)$	0.1150 ± 0.0021
$r_s(z_*)$	146.2 ± 1.1 Mpc	R	1.720 ± 0.010
σ_8	0.808 ± 0.024	$A_{\rm SZ}$	$0.94^{+0.67}_{-0.93}$
t_0	$13.71^{+0.12}_{-0.11}$ Gyr	τ	0.088 ± 0.014
θ_*	0.010393 ± 0.000025	θ_*	$0.5955^{+0.0014}_{-0.0015}$ °
t_*	378436^{+3164}_{-3233} yr	$z_{\rm dec}$	1087.9 ± 1.1
z_d	1021.0 ± 1.4	$z_{\rm eq}$	3219 ± 86
$z_{\rm reion}$	10.4 ± 1.2	z_*	$1090.48^{+0.76}_{-0.74}$

WMAP Cosmological Parameters

Model: lcdm+sz+lens+tens

Data: wmap7+bao+snsalt

$10^2\Omega_b h^2$	2.273 ± 0.057	$1 - n_s$	0.031 ± 0.014
$1 - n_s$	$0.0017 < 1 - n_s < 0.0587$ (95% CL)	$A_{\rm BAO}(z = 0.35)$	0.469 ± 0.011
C_{220}	5754^{+38}_{-39}	$d_A(z_{\rm eq})$	14224 ± 125 Mpc
$d_A(z_*)$	14058 ± 126 Mpc	$\Delta^2_{\mathcal{R}}$	$(2.40 \pm 0.10) \times 10^{-9}$
h	0.704 ± 0.014	H_0	70.4 ± 1.4 km/s/Mpc
$k_{\rm eq}$	$0.00988^{+0.00026}_{-0.00025}$	$\ell_{\rm eq}$	138.8 ± 2.5
ℓ_*	$302.42^{+0.78}_{-0.77}$	n_s	0.969 ± 0.014
Ω_b	$0.0459^{+0.0016}_{-0.0015}$	$\Omega_b h^2$	0.02273 ± 0.00057
Ω_c	0.227 ± 0.014	$\Omega_c h^2$	0.1125 ± 0.0033
Ω_Λ	0.727 ± 0.015	Ω_m	0.273 ± 0.015
$\Omega_m h^2$	$0.1353^{+0.0035}_{-0.0034}$	r	< 0.21 (95% CL)
$r_{\rm hor}(z_{\rm dec})$	$284.5^{+1.8}_{-1.9}$ Mpc	$r_s(z_d)$	152.5 ± 1.3 Mpc
$r_s(z_d)/D_v(z = 0.2)$	0.1901 ± 0.0037	$r_s(z_d)/D_v(z = 0.35)$	$0.1141^{+0.0019}_{-0.0020}$
$r_s(z_*)$	146.0 ± 1.1 Mpc	R	1.7244 ± 0.0098
σ_8	0.811 ± 0.023	$A_{\rm SZ}$	$0.92^{+0.68}_{-0.91}$
t_0	13.74 ± 0.12 Gyr	τ	0.087 ± 0.014
θ_*	$0.010388^{+0.000026}_{-0.000027}$	θ_*	0.5952 ± 0.0015 °
t_*	377510^{+3046}_{-3066} yr	$z_{\rm dec}$	1088.1 ± 1.1
z_d	1020.8 ± 1.4	$z_{\rm eq}$	3240^{+84}_{-82}
$z_{\rm reion}$	10.4 ± 1.2	z_*	$1090.74^{+0.76}_{-0.74}$

WMAP Cosmological Parameters

Model: lcdm+sz+lens+tens

Data: wmap7+bao+snconst

$10^2\Omega_b h^2$	$2.268^{+0.056}_{-0.055}$	$1-n_s$	$0.033^{+0.013}_{-0.014}$
$1-n_s$	$0.0038 < 1-n_s < 0.0601$ (95% CL)	$A_{\rm BAO}(z=0.35)$	$0.4725^{+0.0096}_{-0.0097}$
C_{220}	5752^{+37}_{-39}	$d_A(z_{\rm eq})$	14203^{+122}_{-121} Mpc
$d_A(z_*)$	14037^{+123}_{-122} Mpc	$\Delta^2_{\mathcal{R}}$	$(2.418^{+0.099}_{-0.098})\times 10^{-9}$
h	0.699 ± 0.013	H_0	69.9 ± 1.3 km/s/Mpc
$k_{\rm eq}$	0.00995 ± 0.00024	$\ell_{\rm eq}$	139.6 ± 2.3
ℓ_*	$302.45^{+0.79}_{-0.77}$	n_s	$0.967^{+0.014}_{-0.013}$
Ω_b	$0.0464^{+0.0014}_{-0.0015}$	$\Omega_b h^2$	$0.02268^{+0.00056}_{-0.00055}$
Ω_c	0.233 ± 0.013	$\Omega_c h^2$	0.1136 ± 0.0031
Ω_Λ	0.721 ± 0.014	Ω_m	0.279 ± 0.014
$\Omega_m h^2$	0.1363 ± 0.0033	r	< 0.20 (95% CL)
$r_{\rm hor}(z_{\rm dec})$	283.9 ± 1.7 Mpc	$r_s(z_d)$	152.3 ± 1.2 Mpc
$r_s(z_d)/D_v(z=0.2)$	$0.1887^{+0.0034}_{-0.0033}$	$r_s(z_d)/D_v(z=0.35)$	0.1134 ± 0.0018
$r_s(z_*)$	$145.8^{+1.0}_{-1.1}$ Mpc	R	$1.7281^{+0.0088}_{-0.0089}$
σ_8	$0.816^{+0.022}_{-0.023}$	$A_{\rm SZ}$	$0.91^{+0.68}_{-0.90}$
t_0	13.75 ± 0.12 Gyr	τ	0.086 ± 0.014
θ_*	0.010387 ± 0.000027	θ_*	$0.5951^{+0.0015}_{-0.0016}$ ∘
t_*	376559^{+2827}_{-2904} yr	$z_{\rm dec}$	1088.2 ± 1.1
z_d	1020.8 ± 1.4	$z_{\rm eq}$	3264^{+80}_{-78}
$z_{\rm reion}$	10.3 ± 1.2	z_*	1090.90 ± 0.71

WMAP Cosmological Parameters

Model: lcdm+sz+lens+tens

Data: wmap7+cmb

$10^2\Omega_b h^2$	2.301 ± 0.066	$1 - n_s$	$0.021^{+0.019}_{-0.018}$
$1 - n_s$	$-0.020 < 1 - n_s < 0.054$ (95% CL)	$A_{\rm BAO}(z = 0.35)$	0.444 ± 0.022
C_{220}	5767 ± 39	$d_A(z_{\rm eq})$	14335^{+157}_{-155} Mpc
$d_A(z_*)$	14171^{+159}_{-157} Mpc	$\Delta^2_{\mathcal{R}}$	$(2.30 \pm 0.14) \times 10^{-9}$
h	0.736 ± 0.030	H_0	73.6 ± 3.0 km/s/Mpc
$k_{\rm eq}$	$0.00947^{+0.00043}_{-0.00042}$	$\ell_{\rm eq}$	$134.1^{+4.7}_{-4.6}$
ℓ_*	301.93 ± 0.73	n_s	$0.979^{+0.018}_{-0.019}$
Ω_b	0.0426 ± 0.0028	$\Omega_b h^2$	0.02301 ± 0.00066
Ω_c	0.198 ± 0.026	$\Omega_c h^2$	$0.1066^{+0.0060}_{-0.0059}$
Ω_Λ	0.759 ± 0.029	Ω_m	0.241 ± 0.029
$\Omega_m h^2$	$0.1297^{+0.0058}_{-0.0057}$	r	< 0.33 (95% CL)
$r_{\rm hor}(z_{\rm dec})$	$287.6^{+3.2}_{-3.3}$ Mpc	$r_s(z_d)$	153.9 ± 1.7 Mpc
$r_s(z_d)/D_v(z = 0.2)$	$0.1993^{+0.0085}_{-0.0084}$	$r_s(z_d)/D_v(z = 0.35)$	0.1191 ± 0.0045
$r_s(z_*)$	$147.5^{+1.5}_{-1.6}$ Mpc	R	1.701 ± 0.022
σ_8	0.785 ± 0.032	$A_{\rm SZ}$	$0.89^{+0.68}_{-0.89}$
t_0	13.62 ± 0.14 Gyr	τ	0.091 ± 0.015
θ_*	0.010405 ± 0.000025	θ_*	0.5962 ± 0.0014 °
t_*	383093^{+5692}_{-5710} yr	$z_{\rm dec}$	$1087.5^{+1.3}_{-1.2}$
z_d	1020.8 ± 1.4	$z_{\rm eq}$	3106^{+140}_{-137}
$z_{\rm reion}$	10.5 ± 1.2	z_*	1089.9 ± 1.1

WMAP Cosmological Parameters

Model: lcdm+sz+lens+run+tens

Data: wmap7

$10^2\Omega_b h^2$	$2.221^{+0.085}_{-0.089}$	$1-n_s$	-0.076 ± 0.065
$1-n_s$	$-0.215 < 1-n_s < 0.042$ (95% CL)	$A_{\rm BAO}(z=0.35)$	$0.480^{+0.033}_{-0.032}$
C_{220}	5770^{+39}_{-38}	$d_A(z_{\rm eq})$	14180^{+194}_{-184} Mpc
$d_A(z_*)$	14014^{+197}_{-187} Mpc	$\Delta^2_{\mathcal{R}}$	$(2.23^{+0.17}_{-0.18}) \times 10^{-9}$
$dn_s/d\ln k$	-0.048 ± 0.029	$dn_s/d\ln k$	$-0.1092 < dn_s/d\ln k < 0.0079$ (95% CL)
h	$0.691^{+0.040}_{-0.041}$	H_0	$69.1^{+4.0}_{-4.1}$ km/s/Mpc
$k_{\rm eq}$	$0.01007^{+0.00058}_{-0.00059}$	$\ell_{\rm eq}$	$141.0^{+6.5}_{-6.4}$
ℓ_*	302.30 ± 0.80	n_s	1.076 ± 0.065
Ω_b	0.0468 ± 0.0041	$\Omega_b h^2$	$0.02221^{+0.00085}_{-0.00089}$
Ω_c	$0.247^{+0.046}_{-0.045}$	$\Omega_c h^2$	$0.1157^{+0.0086}_{-0.0085}$
Ω_Λ	$0.707^{+0.049}_{-0.050}$	Ω_m	$0.293^{+0.050}_{-0.049}$
$\Omega_m h^2$	$0.1379^{+0.0080}_{-0.0081}$	r	< 0.49 (95% CL)
$r_{\rm hor}(z_{\rm dec})$	283.1 ± 4.3 Mpc	$r_s(z_d)$	$152.3^{+2.0}_{-1.9}$ Mpc
$r_s(z_d)/D_v(z=0.2)$	0.187 ± 0.011	$r_s(z_d)/D_v(z=0.35)$	$0.1125^{+0.0057}_{-0.0058}$
$r_s(z_*)$	$145.6^{+2.0}_{-1.9}$ Mpc	R	$1.734^{+0.030}_{-0.029}$
σ_8	0.808 ± 0.035	$A_{\rm SZ}$	$1.04^{+0.95}_{-0.67}$
t_0	13.79 ± 0.18 Gyr	τ	0.096 ± 0.016
θ_*	$0.010393^{+0.000027}_{-0.000028}$	θ_*	0.5954 ± 0.0016 °
t_*	374872^{+7640}_{-7703} yr	$z_{\rm dec}$	1088.9 ± 1.6
z_d	1019.8 ± 1.6	$z_{\rm eq}$	3303^{+192}_{-194}
$z_{\rm reion}$	11.4 ± 1.4	z_*	$1091.7^{+1.8}_{-1.7}$

WMAP Cosmological Parameters

Model: lcdm+sz+lens+run+tens

Data: wmap7+bao+h0

$10^2\Omega_b h^2$	$2.247^{+0.063}_{-0.064}$	$1-n_s$	-0.070 ± 0.060
$1-n_s$	$-0.210 < 1-n_s < 0.043$ (95% CL)	$A_{\rm BAO}(z=0.35)$	0.472 ± 0.013
C_{220}	5774^{+39}_{-40}	$d_A(z_{\rm eq})$	14194^{+134}_{-132} Mpc
$d_A(z_*)$	14029^{+136}_{-133} Mpc	$\Delta^2_{\mathcal{R}}$	$(2.21^{+0.15}_{-0.16}) \times 10^{-9}$
$dn_s/d\ln k$	-0.042 ± 0.024	$dn_s/d\ln k$	$-0.0966 < dn_s/d\ln k < 0.0053$ (95% CL)
h	$0.701^{+0.017}_{-0.016}$	H_0	$70.1^{+1.7}_{-1.6}$ km/s/Mpc
$k_{\rm eq}$	$0.00996^{+0.00029}_{-0.00028}$	$\ell_{\rm eq}$	139.7 ± 2.8
ℓ_*	302.11 ± 0.77	n_s	1.070 ± 0.060
Ω_b	$0.0458^{+0.0016}_{-0.0017}$	$\Omega_b h^2$	$0.02247^{+0.00063}_{-0.00064}$
Ω_c	$0.233^{+0.017}_{-0.018}$	$\Omega_c h^2$	0.1139 ± 0.0039
Ω_Λ	0.722 ± 0.019	Ω_m	0.278 ± 0.019
$\Omega_m h^2$	0.1364 ± 0.0039	r	< 0.49 (95% CL)
$r_{\rm hor}(z_{\rm dec})$	283.8 ± 2.1 Mpc	$r_s(z_d)$	152.4 ± 1.3 Mpc
$r_s(z_d)/D_v(z=0.2)$	$0.1892^{+0.0044}_{-0.0043}$	$r_s(z_d)/D_v(z=0.35)$	0.1137 ± 0.0023
$r_s(z_*)$	$145.9^{+1.2}_{-1.1}$ Mpc	R	1.728 ± 0.012
σ_8	0.807 ± 0.025	$A_{\rm SZ}$	$1.04^{+0.96}_{-0.68}$
t_0	13.74 ± 0.12 Gyr	τ	0.097 ± 0.016
θ_*	0.010399 ± 0.000027	θ_*	0.5958 ± 0.0015 °
t_*	376300^{+3503}_{-3577} yr	$z_{\rm dec}$	$1088.5^{+1.1}_{-1.2}$
z_d	1020.3 ± 1.5	$z_{\rm eq}$	3267^{+94}_{-93}
$z_{\rm reion}$	11.3 ± 1.3	z_*	$1091.21^{+0.92}_{-0.93}$

WMAP Cosmological Parameters

Model: lcdm+sz+lens+iso1

Data: wmap7

$10^2\Omega_b h^2$	$2.293^{+0.060}_{-0.061}$	$1-n_s$	0.016 ± 0.017
$1-n_s$	$-0.018 < 1-n_s < 0.051$ (95% CL)	$A_{\rm BAO}(z=0.35)$	0.439 ± 0.022
α_{-1}	< 0.011 (95% CL)	C_{220}	5774 ± 39
$d_A(z_{\rm eq})$	14341^{+155}_{-160} Mpc	$d_A(z_*)$	14178^{+158}_{-161} Mpc
$\Delta^2_{\mathcal{R}}$	$(2.24 \pm 0.13) \times 10^{-9}$	h	$0.745^{+0.031}_{-0.030}$
H_0	$74.5^{+3.1}_{-3.0}$ km/s/Mpc	$k_{\rm eq}$	0.00940 ± 0.00041
$\ell_{\rm eq}$	$133.2^{+4.5}_{-4.6}$	ℓ_*	$301.47^{+0.89}_{-0.90}$
n_s	0.984 ± 0.017	Ω_b	0.0415 ± 0.0029
$\Omega_b h^2$	$0.02293^{+0.00060}_{-0.00061}$	Ω_c	$0.193^{+0.025}_{-0.026}$
$\Omega_c h^2$	$0.1058^{+0.0057}_{-0.0058}$	Ω_Λ	0.766 ± 0.028
Ω_m	0.234 ± 0.028	$\Omega_m h^2$	0.1287 ± 0.0057
$r_{\rm hor}(z_{\rm dec})$	288.1 ± 3.2 Mpc	$r_s(z_d)$	154.3 ± 1.7 Mpc
$r_s(z_d)/D_v(z=0.2)$	0.2018 ± 0.0087	$r_s(z_d)/D_v(z=0.35)$	0.1204 ± 0.0047
$r_s(z_*)$	147.7 ± 1.6 Mpc	R	1.696 ± 0.022
σ_8	$0.784^{+0.033}_{-0.032}$	$A_{\rm SZ}$	$1.03^{+0.66}_{-0.67}$
t_0	13.58 ± 0.15 Gyr	τ	0.088 ± 0.015
θ_*	0.010421 ± 0.000031	θ_*	0.5971 ± 0.0018 °
t_*	383916^{+5586}_{-5473} yr	$z_{\rm dec}$	1087.5 ± 1.2
z_d	$1020.6^{+1.3}_{-1.4}$	$z_{\rm eq}$	3084 ± 136
$z_{\rm reion}$	10.2 ± 1.2	z_*	$1089.89^{+0.99}_{-1.01}$

WMAP Cosmological Parameters

Model: lcdm+sz+lens+iso1

Data: wmap7+bao+h0

$10^2\Omega_b h^2$	$2.269^{+0.053}_{-0.054}$	$1-n_s$	0.028 ± 0.013
$1-n_s$	$0.0017 < 1-n_s < 0.0526$ (95% CL)	$A_{\rm BAO}(z=0.35)$	0.463 ± 0.011
α_{-1}	< 0.0047 (95% CL)	C_{220}	5762^{+36}_{-37}
$d_A(z_{\rm eq})$	14219^{+129}_{-128} Mpc	$d_A(z_*)$	14054^{+130}_{-129} Mpc
$\Delta^2_{\mathcal{R}}$	$(2.358^{+0.100}_{-0.098}) \times 10^{-9}$	h	0.713 ± 0.014
H_0	71.3 ± 1.4 km/s/Mpc	$k_{\rm eq}$	0.00983 ± 0.00026
$\ell_{\rm eq}$	$138.1^{+2.5}_{-2.6}$	ℓ_*	$301.90^{+0.84}_{-0.82}$
n_s	0.972 ± 0.013	Ω_b	0.0447 ± 0.0016
$\Omega_b h^2$	$0.02269^{+0.00053}_{-0.00054}$	Ω_c	0.221 ± 0.014
$\Omega_c h^2$	$0.1119^{+0.0034}_{-0.0035}$	Ω_Λ	0.734 ± 0.015
Ω_m	0.266 ± 0.015	$\Omega_m h^2$	$0.1346^{+0.0035}_{-0.0036}$
$r_{\rm hor}(z_{\rm dec})$	284.8 ± 1.9 Mpc	$r_s(z_d)$	152.7 ± 1.3 Mpc
$r_s(z_d)/D_v(z=0.2)$	$0.1923^{+0.0038}_{-0.0039}$	$r_s(z_d)/D_v(z=0.35)$	$0.1153^{+0.0020}_{-0.0021}$
$r_s(z_*)$	146.2 ± 1.1 Mpc	R	1.719 ± 0.010
σ_8	0.811 ± 0.024	$A_{\rm SZ}$	$0.95^{+0.68}_{-0.95}$
t_0	$13.69^{+0.12}_{-0.11}$ Gyr	τ	$0.085^{+0.014}_{-0.013}$
θ_*	$0.010406^{+0.000028}_{-0.000029}$	θ_*	$0.5962^{+0.0016}_{-0.0017}$ °
t_*	378115^{+3204}_{-3124} yr	$z_{\rm dec}$	1088.1 ± 1.1
z_d	1020.6 ± 1.3	$z_{\rm eq}$	3224^{+85}_{-87}
$z_{\rm reion}$	$10.2^{+1.2}_{-1.1}$	z_*	$1090.73^{+0.68}_{-0.69}$

WMAP Cosmological Parameters

Model: lcdm+sz+lens+iso1

Data: wmap7+bao+snconst

$10^2\Omega_b h^2$	$2.255^{+0.052}_{-0.051}$	$1-n_s$	0.032 ± 0.013
$1-n_s$	$0.0070 < 1-n_s < 0.0577$ (95% CL)	$A_{\rm BAO}(z=0.35)$	$0.4719^{+0.0097}_{-0.0098}$
α_{-1}	< 0.0037 (95% CL)	C_{220}	5756 ± 35
$d_A(z_{\rm eq})$	14187^{+117}_{-124} Mpc	$d_A(z_*)$	14022^{+118}_{-124} Mpc
$\Delta^2_{\mathcal{R}}$	$(2.403^{+0.094}_{-0.095}) \times 10^{-9}$	h	0.701 ± 0.013
H_0	70.1 ± 1.3 km/s/Mpc	$k_{\rm eq}$	$0.00996^{+0.00024}_{-0.00023}$
$\ell_{\rm eq}$	$139.7^{+2.3}_{-2.2}$	ℓ_*	$302.11^{+0.78}_{-0.81}$
n_s	0.968 ± 0.013	Ω_b	$0.0459^{+0.0015}_{-0.0014}$
$\Omega_b h^2$	$0.02255^{+0.00052}_{-0.00051}$	Ω_c	0.232 ± 0.013
$\Omega_c h^2$	$0.1139^{+0.0031}_{-0.0030}$	Ω_Λ	0.722 ± 0.014
Ω_m	0.278 ± 0.014	$\Omega_m h^2$	$0.1365^{+0.0033}_{-0.0032}$
$r_{\rm hor}(z_{\rm dec})$	$283.8^{+1.6}_{-1.8}$ Mpc	$r_s(z_d)$	152.3 ± 1.2 Mpc
$r_s(z_d)/D_v(z=0.2)$	0.1892 ± 0.0034	$r_s(z_d)/D_v(z=0.35)$	0.1137 ± 0.0018
$r_s(z_*)$	$145.81^{+0.98}_{-1.01}$ Mpc	R	1.7275 ± 0.0089
σ_8	$0.818^{+0.022}_{-0.023}$	$A_{\rm SZ}$	$0.91^{+0.67}_{-0.91}$
t_0	13.73 ± 0.12 Gyr	τ	$0.083^{+0.014}_{-0.013}$
θ_*	$0.010399^{+0.000028}_{-0.000027}$	θ_*	$0.5958^{+0.0016}_{-0.0015}$ ∘
t_*	376271^{+2744}_{-2839} yr	$z_{\rm dec}$	1088.4 ± 1.0
z_d	$1020.5^{+1.3}_{-1.2}$	$z_{\rm eq}$	3269^{+80}_{-77}
$z_{\rm reion}$	$10.2^{+1.2}_{-1.1}$	z_*	$1091.09^{+0.67}_{-0.66}$

WMAP Cosmological Parameters

Model: lcdm+sz+lens+iso2

Data: wmap7

$10^2\Omega_b h^2$	$2.315^{+0.071}_{-0.072}$	$1-n_s$	0.018 ± 0.020
$1-n_s$	$-0.027 < 1-n_s < 0.054$ (95% CL)	$A_{\rm BAO}(z=0.35)$	0.445 ± 0.023
α_0	< 0.13 (95% CL)	C_{220}	5765 ± 39
$d_A(z_{\rm eq})$	14322^{+155}_{-159} Mpc	$d_A(z_*)$	14159^{+157}_{-161} Mpc
$\Delta^2_{\mathcal{R}}$	$(2.38 \pm 0.11) \times 10^{-9}$	h	0.736 ± 0.032
H_0	73.6 ± 3.2 km/s/Mpc	$k_{\rm eq}$	0.00949 ± 0.00042
$\ell_{\rm eq}$	$134.4^{+4.6}_{-4.7}$	ℓ_*	302.02 ± 0.84
n_s	0.982 ± 0.020	Ω_b	0.0429 ± 0.0029
$\Omega_b h^2$	$0.02315^{+0.00071}_{-0.00072}$	Ω_c	0.199 ± 0.027
$\Omega_c h^2$	$0.1069^{+0.0059}_{-0.0060}$	Ω_Λ	0.758 ± 0.030
Ω_m	0.242 ± 0.030	$\Omega_m h^2$	$0.1300^{+0.0057}_{-0.0058}$
$r_{\rm hor}(z_{\rm dec})$	$287.5^{+3.3}_{-3.2}$ Mpc	$r_s(z_d)$	153.7 ± 1.7 Mpc
$r_s(z_d)/D_v(z=0.2)$	$0.1989^{+0.0087}_{-0.0086}$	$r_s(z_d)/D_v(z=0.35)$	0.1188 ± 0.0046
$r_s(z_*)$	147.3 ± 1.6 Mpc	R	1.702 ± 0.022
σ_8	0.785 ± 0.032	$A_{\rm SZ}$	1.00 ± 1.00
t_0	13.62 ± 0.16 Gyr	τ	0.089 ± 0.015
θ_*	0.010402 ± 0.000029	θ_*	0.5960 ± 0.0017 °
t_*	382855^{+5716}_{-5617} yr	$z_{\rm dec}$	$1087.3^{+1.3}_{-1.2}$
z_d	1021.2 ± 1.5	$z_{\rm eq}$	3114^{+137}_{-139}
$z_{\rm reion}$	10.3 ± 1.2	z_*	1089.7 ± 1.2

WMAP Cosmological Parameters

Model: lcdm+sz+lens+iso2

Data: wmap7+bao+h0

$10^2\Omega_b h^2$	$2.288^{+0.059}_{-0.058}$	$1-n_s$	0.027 ± 0.014
$1-n_s$	$-0.0024 < 1-n_s < 0.0556$ (95% CL)	$A_{\rm BAO}(z=0.35)$	0.464 ± 0.011
α_0	< 0.077 (95% CL)	C_{220}	5758 ± 39
$d_A(z_{\rm eq})$	14222 ± 127 Mpc	$d_A(z_*)$	14056 ± 128 Mpc
$\Delta^2_{\mathcal{R}}$	$(2.437^{+0.088}_{-0.090}) \times 10^{-9}$	h	0.711 ± 0.014
H_0	71.1 ± 1.4 km/s/Mpc	$k_{\rm eq}$	0.00983 ± 0.00026
$\ell_{\rm eq}$	$138.2^{+2.6}_{-2.5}$	ℓ_*	302.20 ± 0.75
n_s	0.973 ± 0.014	Ω_b	$0.0453^{+0.0016}_{-0.0015}$
$\Omega_b h^2$	$0.02288^{+0.00059}_{-0.00058}$	Ω_c	0.222 ± 0.014
$\Omega_c h^2$	$0.1118^{+0.0035}_{-0.0034}$	Ω_Λ	$0.733^{+0.015}_{-0.016}$
Ω_m	$0.267^{+0.016}_{-0.015}$	$\Omega_m h^2$	$0.1347^{+0.0036}_{-0.0035}$
$r_{\rm hor}(z_{\rm dec})$	284.8 ± 1.9 Mpc	$r_s(z_d)$	152.6 ± 1.3 Mpc
$r_s(z_d)/D_v(z=0.2)$	$0.1917^{+0.0038}_{-0.0039}$	$r_s(z_d)/D_v(z=0.35)$	$0.1150^{+0.0020}_{-0.0021}$
$r_s(z_*)$	146.1 ± 1.1 Mpc	R	1.720 ± 0.010
σ_8	0.808 ± 0.024	$A_{\rm SZ}$	$0.94^{+0.68}_{-0.93}$
t_0	13.70 ± 0.12 Gyr	τ	0.086 ± 0.014
θ_*	0.010396 ± 0.000026	θ_*	0.5956 ± 0.0015 °
t_*	378173^{+3124}_{-3211} yr	$z_{\rm dec}$	1087.9 ± 1.1
z_d	1021.0 ± 1.4	$z_{\rm eq}$	3226^{+86}_{-85}
$z_{\rm reion}$	10.2 ± 1.2	z_*	1090.49 ± 0.76

WMAP Cosmological Parameters

Model: lcdm+sz+lens+iso2

Data: wmap7+bao+snconst

$10^2\Omega_b h^2$	$2.269^{+0.057}_{-0.056}$	$1-n_s$	0.033 ± 0.014
$1-n_s$	$0.0042 < 1-n_s < 0.0604$ (95% CL)	$A_{\rm BAO}(z=0.35)$	$0.4727^{+0.0098}_{-0.0097}$
α_0	< 0.064 (95% CL)	C_{220}	5752^{+39}_{-38}
$d_A(z_{\rm eq})$	14192^{+118}_{-120} Mpc	$d_A(z_*)$	14027^{+119}_{-121} Mpc
$\Delta^2_{\mathcal{R}}$	$(2.469^{+0.085}_{-0.088}) \times 10^{-9}$	h	0.700 ± 0.013
H_0	70.0 ± 1.3 km/s/Mpc	$k_{\rm eq}$	0.00997 ± 0.00023
$\ell_{\rm eq}$	139.8 ± 2.2	ℓ_*	$302.37^{+0.75}_{-0.76}$
n_s	0.967 ± 0.014	Ω_b	0.0464 ± 0.0014
$\Omega_b h^2$	$0.02269^{+0.00057}_{-0.00056}$	Ω_c	0.233 ± 0.013
$\Omega_c h^2$	0.1138 ± 0.0030	Ω_Λ	0.721 ± 0.014
Ω_m	0.279 ± 0.014	$\Omega_m h^2$	0.1365 ± 0.0032
$r_{\rm hor}(z_{\rm dec})$	283.8 ± 1.7 Mpc	$r_s(z_d)$	152.2 ± 1.2 Mpc
$r_s(z_d)/D_v(z=0.2)$	$0.1887^{+0.0033}_{-0.0034}$	$r_s(z_d)/D_v(z=0.35)$	0.1134 ± 0.0018
$r_s(z_*)$	$145.74^{+0.95}_{-1.00}$ Mpc	R	$1.7282^{+0.0090}_{-0.0089}$
σ_8	0.815 ± 0.022	$A_{\rm SZ}$	$0.90^{+0.67}_{-0.90}$
t_0	$13.75^{+0.12}_{-0.11}$ Gyr	τ	0.084 ± 0.014
θ_*	0.010390 ± 0.000026	θ_*	0.5953 ± 0.0015 °
t_*	376371^{+2749}_{-2761} yr	$z_{\rm dec}$	1088.2 ± 1.1
z_d	1020.8 ± 1.4	$z_{\rm eq}$	3269^{+76}_{-77}
$z_{\rm reion}$	10.2 ± 1.2	z_*	$1090.90^{+0.73}_{-0.72}$

WMAP Cosmological Parameters

Model: lcdm+sz+lens+mnu

Data: wmap7

$10^2\Omega_b h^2$	$2.219^{+0.061}_{-0.062}$	$1-n_s$	0.047 ± 0.017
$1-n_s$	$0.017 < 1-n_s < 0.081$ (95% CL)	$A_{\rm BAO}(z=0.35)$	0.497 ± 0.030
C_{220}	5768^{+39}_{-40}	$d_A(z_{\rm eq})$	14245 ± 163 Mpc
$d_A(z_*)$	14081 ± 165 Mpc	$\Delta^2_{\mathcal{R}}$	$(2.50 \pm 0.13) \times 10^{-9}$
h	$0.650^{+0.044}_{-0.045}$	H_0	$65.0^{+4.4}_{-4.5}$ km/s/Mpc
$k_{\rm eq}$	0.00983 ± 0.00040	$\ell_{\rm eq}$	138.3 ± 4.2
ℓ_*	$302.41^{+0.79}_{-0.78}$	$\sum m_\nu$	< 1.3 eV (95% CL)
n_s	0.953 ± 0.017	Ω_b	$0.0532^{+0.0066}_{-0.0064}$
$\Omega_b h^2$	$0.02219^{+0.00061}_{-0.00062}$	Ω_c	0.271 ± 0.045
$\Omega_c h^2$	0.1122 ± 0.0055	Ω_Λ	$0.660^{+0.062}_{-0.063}$
Ω_m	$0.340^{+0.063}_{-0.062}$	$\Omega_m h^2$	$0.1407^{+0.0074}_{-0.0073}$
$\Omega_\nu h^2$	< 0.014 (95% CL)	$r_{\rm hor}(z_{\rm dec})$	$284.3^{+3.1}_{-3.0}$ Mpc
$r_s(z_d)$	153.0 ± 1.7 Mpc	$r_s(z_d)/D_v(z=0.2)$	0.178 ± 0.011
$r_s(z_d)/D_v(z=0.35)$	0.1078 ± 0.0058	$r_s(z_*)$	146.3 ± 1.5 Mpc
R	$1.761^{+0.032}_{-0.031}$	σ_8	$0.685^{+0.079}_{-0.078}$
$A_{\rm SZ}$	$1.02^{+0.98}_{-0.69}$	t_0	$14.09^{+0.25}_{-0.26}$ Gyr
τ	0.086 ± 0.014	θ_*	0.010389 ± 0.000027
θ_*	0.5952 ± 0.0015 °	t_*	376815^{+5304}_{-5310} yr
$z_{\rm dec}$	1088.8 ± 1.2	z_d	1019.5 ± 1.5
$z_{\rm eq}$	3220 ± 131	$z_{\rm reion}$	10.6 ± 1.2
z_*	1091.4 ± 1.0		

WMAP Cosmological Parameters

Model: lcdm+sz+lens+mnu

Data: wmap7.2

$10^2\Omega_b h^2$	2.213 ± 0.061	$1 - n_s$	0.043 ± 0.016
$1 - n_s$	$0.012 < 1 - n_s < 0.076$ (95% CL)	$A_{\rm BAO}(z = 0.35)$	0.502 ± 0.030
$d_A(z_{\rm eq})$	14223 ± 161 Mpc	$d_A(z_*)$	14058^{+162}_{-163} Mpc
$\Delta^2_{\mathcal{R}}$	$(2.50^{+0.13}_{-0.12}) \times 10^{-9}$	h	0.645 ± 0.044
H_0	64.5 ± 4.4 km/s/Mpc	$k_{\rm eq}$	0.00992 ± 0.00041
$\ell_{\rm eq}$	139.4 ± 4.2	ℓ_*	302.51 ± 0.78
$\sum m_\nu$	< 1.2 eV (95% CL)	n_s	0.957 ± 0.016
Ω_b	$0.0537^{+0.0065}_{-0.0064}$	$\Omega_b h^2$	0.02213 ± 0.00061
Ω_c	0.277 ± 0.046	$\Omega_c h^2$	0.1136 ± 0.0056
Ω_Λ	$0.653^{+0.062}_{-0.063}$	Ω_m	$0.347^{+0.063}_{-0.062}$
$\Omega_m h^2$	0.1417 ± 0.0073	$\Omega_\nu h^2$	< 0.013 (95% CL)
$r_s(z_d)$	152.7 ± 1.7 Mpc	$r_s(z_d)/D_v(z = 0.2)$	0.177 ± 0.011
$r_s(z_d)/D_v(z = 0.35)$	$0.1071^{+0.0056}_{-0.0057}$	$r_s(z_*)$	146.0 ± 1.5 Mpc
R	1.764 ± 0.031	$A_{\rm SZ}$	1.00 ± 1.00
τ	0.086 ± 0.014	θ_*	0.010385 ± 0.000027
θ_*	0.5950 ± 0.0015 °	t_*	375670^{+5351}_{-5350} yr
z_d	1019.5 ± 1.5	$z_{\rm eq}$	3250 ± 133
z_*	1091.6 ± 1.0		

WMAP Cosmological Parameters

Model: lcdm+sz+lens+mnu

Data: wmap7+bao+h0

$10^2\Omega_b h^2$	2.260 ± 0.055	$1 - n_s$	0.036 ± 0.013
$1 - n_s$	$0.010 < 1 - n_s < 0.062$ (95% CL)	$A_{\rm BAO}(z = 0.35)$	$0.469^{+0.012}_{-0.011}$
C_{220}	5771 ± 39	$d_A(z_{\rm eq})$	14298^{+136}_{-137} Mpc
$d_A(z_*)$	14134 ± 138 Mpc	$\Delta^2_{\mathcal{R}}$	$(2.415^{+0.093}_{-0.092}) \times 10^{-9}$
h	0.693 ± 0.016	H_0	69.3 ± 1.6 km/s/Mpc
$k_{\rm eq}$	$0.00965^{+0.00031}_{-0.00030}$	$\ell_{\rm eq}$	$136.4^{+3.1}_{-3.0}$
ℓ_*	$302.27^{+0.77}_{-0.76}$	$\sum m_\nu$	< 0.58 eV (95% CL)
n_s	0.964 ± 0.013	Ω_b	$0.0471^{+0.0021}_{-0.0020}$
$\Omega_b h^2$	0.02260 ± 0.00055	Ω_c	0.229 ± 0.015
$\Omega_c h^2$	$0.1096^{+0.0040}_{-0.0039}$	Ω_Λ	0.718 ± 0.018
Ω_m	0.282 ± 0.018	$\Omega_m h^2$	0.1348 ± 0.0037
$\Omega_\nu h^2$	< 0.0062 (95% CL)	$r_{\rm hor}(z_{\rm dec})$	286.0 ± 2.2 Mpc
$r_s(z_d)$	153.5 ± 1.4 Mpc	$r_s(z_d)/D_v(z = 0.2)$	0.1885 ± 0.0041
$r_s(z_d)/D_v(z = 0.35)$	0.1133 ± 0.0022	$r_s(z_*)$	146.9 ± 1.2 Mpc
R	1.731 ± 0.011	σ_8	$0.742^{+0.053}_{-0.054}$
$A_{\rm SZ}$	$1.01^{+0.67}_{-0.68}$	t_0	$13.86^{+0.13}_{-0.14}$ Gyr
τ	0.089 ± 0.014	θ_*	$0.010393^{+0.000026}_{-0.000027}$
θ_*	0.5955 ± 0.0015 °	t_*	380063^{+3599}_{-3706} yr
$z_{\rm dec}$	1088.1 ± 1.1	z_d	1020.2 ± 1.4
$z_{\rm eq}$	3165^{+101}_{-98}	$z_{\rm reion}$	10.6 ± 1.2
z_*	$1090.65^{+0.73}_{-0.74}$		

WMAP Cosmological Parameters

Model: lcdm+sz+lens+mnu

Data: wmap7+bao+snconst

$10^2\Omega_b h^2$	$2.243^{+0.056}_{-0.055}$	$1-n_s$	0.040 ± 0.013
$1-n_s$	$0.015 < 1-n_s < 0.065$ (95% CL)	$A_{\rm BAO}(z=0.35)$	0.4752 ± 0.0093
C_{220}	5767^{+38}_{-39}	$d_A(z_{\rm eq})$	14308^{+136}_{-137} Mpc
$d_A(z_*)$	14144 ± 138 Mpc	$\Delta^2_{\mathcal{R}}$	$(2.437^{+0.088}_{-0.091}) \times 10^{-9}$
h	0.682 ± 0.015	H_0	68.2 ± 1.5 km/s/Mpc
$k_{\rm eq}$	$0.00966^{+0.00031}_{-0.00030}$	$\ell_{\rm eq}$	$136.6^{+3.1}_{-3.0}$
ℓ_*	302.42 ± 0.78	$\sum m_\nu$	< 0.71 eV (95% CL)
n_s	0.960 ± 0.013	Ω_b	0.0483 ± 0.0019
$\Omega_b h^2$	$0.02243^{+0.00056}_{-0.00055}$	Ω_c	0.236 ± 0.013
$\Omega_c h^2$	$0.1098^{+0.0041}_{-0.0039}$	Ω_Λ	0.708 ± 0.016
Ω_m	0.292 ± 0.016	$\Omega_m h^2$	0.1357 ± 0.0033
$\Omega_\nu h^2$	< 0.0075 (95% CL)	$r_{\rm hor}(z_{\rm dec})$	$285.9^{+2.1}_{-2.2}$ Mpc
$r_s(z_d)$	153.6 ± 1.5 Mpc	$r_s(z_d)/D_v(z=0.2)$	0.1860 ± 0.0034
$r_s(z_d)/D_v(z=0.35)$	0.1120 ± 0.0018	$r_s(z_*)$	146.9 ± 1.2 Mpc
R	$1.7374^{+0.0096}_{-0.0095}$	σ_8	0.726 ± 0.061
$A_{\rm SZ}$	$1.00^{+0.67}_{-1.00}$	t_0	13.93 ± 0.15 Gyr
τ	0.088 ± 0.014	θ_*	0.010388 ± 0.000027
θ_*	0.5952 ± 0.0015 °	t_*	379718^{+3481}_{-3617} yr
$z_{\rm dec}$	1088.3 ± 1.1	z_d	1019.8 ± 1.4
$z_{\rm eq}$	3167^{+102}_{-98}	$z_{\rm reion}$	10.6 ± 1.2
z_*	$1090.90^{+0.73}_{-0.72}$		

WMAP Cosmological Parameters

Model: lcdm+sz+lens+mnu

Data: wmap7+lrg+h0

$10^2\Omega_b h^2$	$2.265^{+0.054}_{-0.053}$	$1-n_s$	0.035 ± 0.013
$1-n_s$	$0.010 < 1-n_s < 0.060$ (95% CL)	$A_{\rm BAO}(z=0.35)$	0.480 ± 0.013
C_{220}	5764 ± 38	$d_A(z_{\rm eq})$	14189 ± 122 Mpc
$d_A(z_*)$	14023 ± 123 Mpc	$\Delta^2_{\mathcal{R}}$	$(2.442^{+0.096}_{-0.095}) \times 10^{-9}$
h	0.685 ± 0.018	H_0	68.5 ± 1.8 km/s/Mpc
$k_{\rm eq}$	$0.00995^{+0.00027}_{-0.00026}$	$\ell_{\rm eq}$	139.5 ± 2.6
ℓ_*	$302.21^{+0.75}_{-0.77}$	$\sum m_\nu$	< 0.44 eV (95% CL)
n_s	0.965 ± 0.013	Ω_b	0.0484 ± 0.0022
$\Omega_b h^2$	$0.02265^{+0.00054}_{-0.00053}$	Ω_c	0.243 ± 0.017
$\Omega_c h^2$	0.1136 ± 0.0035	Ω_Λ	0.704 ± 0.021
Ω_m	0.296 ± 0.021	$\Omega_m h^2$	0.1383 ± 0.0037
$\Omega_\nu h^2$	< 0.0047 (95% CL)	$r_{\rm hor}(z_{\rm dec})$	283.9 ± 1.9 Mpc
$r_s(z_d)$	152.3 ± 1.2 Mpc	$r_s(z_d)/D_v(z=0.2)$	0.1853 ± 0.0045
$r_s(z_d)/D_v(z=0.35)$	0.1116 ± 0.0024	$r_s(z_*)$	145.8 ± 1.1 Mpc
R	1.739 ± 0.012	σ_8	0.776 ± 0.039
$A_{\rm SZ}$	$0.94^{+0.67}_{-0.94}$	t_0	13.83 ± 0.13 Gyr
τ	0.087 ± 0.014	θ_*	$0.010395^{+0.000027}_{-0.000026}$
θ_*	0.5956 ± 0.0015 °	t_*	376389^{+3182}_{-3189} yr
$z_{\rm dec}$	1088.3 ± 1.1	z_d	1020.7 ± 1.3
$z_{\rm eq}$	3264^{+87}_{-86}	$z_{\rm reion}$	10.5 ± 1.2
z_*	$1090.94^{+0.72}_{-0.74}$		

WMAP Cosmological Parameters

Model: lcdm+sz+lens+mnu

Data: wmap7+lrg+h0+snconst

$10^2\Omega_b h^2$	2.267 ± 0.053	$1 - n_s$	0.034 ± 0.012
$1 - n_s$	$0.010 < 1 - n_s < 0.059$ (95% CL)	$A_{\rm BAO}(z = 0.35)$	$0.4782^{+0.0093}_{-0.0094}$
C_{220}	5765^{+38}_{-37}	$d_A(z_{\rm eq})$	14196^{+116}_{-117} Mpc
$d_A(z_*)$	14031^{+117}_{-118} Mpc	$\Delta^2_{\mathcal{R}}$	$(2.436 \pm 0.091) \times 10^{-9}$
h	$0.687^{+0.014}_{-0.013}$	H_0	$68.7^{+1.4}_{-1.3}$ km/s/Mpc
$k_{\rm eq}$	$0.00993^{+0.00024}_{-0.00023}$	$\ell_{\rm eq}$	139.3 ± 2.3
ℓ_*	$302.21^{+0.75}_{-0.77}$	$\sum m_\nu$	< 0.39 eV (95% CL)
n_s	0.966 ± 0.012	Ω_b	0.0480 ± 0.0017
$\Omega_b h^2$	0.02267 ± 0.00053	Ω_c	0.240 ± 0.013
$\Omega_c h^2$	$0.1133^{+0.0032}_{-0.0031}$	Ω_Λ	0.708 ± 0.015
Ω_m	0.292 ± 0.015	$\Omega_m h^2$	0.1379 ± 0.0031
$\Omega_\nu h^2$	< 0.0042 (95% CL)	$r_{\rm hor}(z_{\rm dec})$	284.0 ± 1.7 Mpc
$r_s(z_d)$	152.3 ± 1.2 Mpc	$r_s(z_d)/D_v(z = 0.2)$	0.1860 ± 0.0033
$r_s(z_d)/D_v(z = 0.35)$	$0.1120^{+0.0018}_{-0.0017}$	$r_s(z_*)$	$145.85^{+0.97}_{-0.99}$ Mpc
R	$1.7373^{+0.0089}_{-0.0091}$	σ_8	0.778 ± 0.038
$A_{\rm SZ}$	$0.94^{+0.68}_{-0.94}$	t_0	13.82 ± 0.12 Gyr
τ	0.088 ± 0.015	θ_*	0.010395 ± 0.000026
θ_*	0.5956 ± 0.0015 °	t_*	376701^{+2785}_{-2842} yr
$z_{\rm dec}$	1088.2 ± 1.1	z_d	1020.7 ± 1.3
$z_{\rm eq}$	3257^{+78}_{-77}	$z_{\rm reion}$	10.5 ± 1.2
z_*	$1090.88^{+0.69}_{-0.68}$		

WMAP Cosmological Parameters

Model: lcdm+sz+lens+mnu

Data: wmap7.2+h0

$10^2\Omega_b h^2$	$2.259^{+0.056}_{-0.055}$	$1-n_s$	0.029 ± 0.013
$1-n_s$	$0.0027 < 1-n_s < 0.0547$ (95% CL)	$A_{\rm BAO}(z=0.35)$	0.465 ± 0.018
$d_A(z_{\rm eq})$	14320^{+151}_{-152} Mpc	$d_A(z_*)$	14156 ± 153 Mpc
$\Delta^2_{\mathcal{R}}$	$(2.384 \pm 0.099) \times 10^{-9}$	h	0.699 ± 0.024
H_0	69.9 ± 2.4 km/s/Mpc	$k_{\rm eq}$	$0.00960^{+0.00036}_{-0.00035}$
$\ell_{\rm eq}$	135.8 ± 3.7	ℓ_*	302.29 ± 0.76
$\sum m_\nu$	< 0.55 eV (95% CL)	n_s	0.971 ± 0.013
Ω_b	0.0463 ± 0.0029	$\Omega_b h^2$	$0.02259^{+0.00056}_{-0.00055}$
Ω_c	0.224 ± 0.023	$\Omega_c h^2$	0.1088 ± 0.0048
Ω_Λ	0.725 ± 0.027	Ω_m	0.275 ± 0.027
$\Omega_m h^2$	0.1337 ± 0.0050	$\Omega_\nu h^2$	< 0.0058 (95% CL)
$r_s(z_d)$	153.7 ± 1.6 Mpc	$r_s(z_d)/D_v(z=0.2)$	$0.1903^{+0.0065}_{-0.0066}$
$r_s(z_d)/D_v(z=0.35)$	0.1143 ± 0.0035	$r_s(z_*)$	147.1 ± 1.4 Mpc
R	1.726 ± 0.018	$A_{\rm SZ}$	$1.05^{+0.95}_{-0.68}$
τ	0.091 ± 0.015	θ_*	0.010393 ± 0.000026
θ_*	0.5955 ± 0.0015 °	t_*	380830^{+4509}_{-4531} yr
z_d	1020.1 ± 1.4	$z_{\rm eq}$	3148 ± 117
z_*	$1090.59^{+0.81}_{-0.82}$		

WMAP Cosmological Parameters

Model: lcdm+sz+lens+yhe

Data: wmap7

$10^2\Omega_b h^2$	$2.253^{+0.056}_{-0.058}$	$1-n_s$	$0.031^{+0.018}_{-0.017}$
$1-n_s$	$-0.0042 < 1-n_s < 0.0647$ (95% CL)	$A_{\rm BAO}(z=0.35)$	0.466 ± 0.022
C_{220}	5763 ± 39	$d_A(z_{\rm eq})$	14200 ± 249 Mpc
$d_A(z_*)$	14035 ± 252 Mpc	$\Delta^2_{\mathcal{R}}$	$(2.43 \pm 0.11) \times 10^{-9}$
h	0.709 ± 0.025	H_0	70.9 ± 2.5 km/s/Mpc
$k_{\rm eq}$	$0.00990^{+0.00056}_{-0.00055}$	$\ell_{\rm eq}$	$138.8^{+5.5}_{-5.4}$
ℓ_*	301.8 ± 1.6	n_s	$0.969^{+0.017}_{-0.018}$
Ω_b	0.0449 ± 0.0028	$\Omega_b h^2$	$0.02253^{+0.00056}_{-0.00058}$
Ω_c	0.226 ± 0.029	$\Omega_c h^2$	$0.1130^{+0.0078}_{-0.0077}$
Ω_Λ	$0.729^{+0.031}_{-0.032}$	Ω_m	$0.271^{+0.032}_{-0.031}$
$\Omega_m h^2$	0.1356 ± 0.0076	$r_{\rm hor}(z_{\rm dec})$	283.9 ± 4.8 Mpc
$r_s(z_d)$	152.7 ± 2.2 Mpc	$r_s(z_d)/D_v(z=0.2)$	0.1915 ± 0.0075
$r_s(z_d)/D_v(z=0.35)$	$0.1149^{+0.0039}_{-0.0040}$	$r_s(z_*)$	146.1 ± 2.0 Mpc
R	$1.722^{+0.021}_{-0.020}$	σ_8	$0.820^{+0.053}_{-0.054}$
$A_{\rm SZ}$	$0.97^{+0.68}_{-0.96}$	t_0	13.69 ± 0.16 Gyr
τ	$0.088^{+0.014}_{-0.015}$	θ_*	$0.010410^{+0.000055}_{-0.000056}$
θ_*	0.5965 ± 0.0032 °	t_*	377234^{+7084}_{-7134} yr
$Y_{\rm He}$	$0.28^{+0.14}_{-0.15}$	z_d	1020.4 ± 1.4
$z_{\rm eq}$	3247^{+183}_{-181}	$z_{\rm reion}$	10.9 ± 1.5
z_*	$1091.0^{+1.2}_{-1.1}$		

WMAP Cosmological Parameters

Model: lcdm+sz+lens+yhe

Data: wmap7+lrg+h0

$10^2\Omega_b h^2$	$2.256^{+0.055}_{-0.053}$	$1-n_s$	0.027 ± 0.017
$1-n_s$	$-0.0057 < 1-n_s < 0.0579$ (95% CL)	$A_{\rm BAO}(z=0.35)$	0.476 ± 0.012
C_{220}	5765 ± 39	$d_A(z_{\rm eq})$	14071^{+169}_{-166} Mpc
$d_A(z_*)$	13904^{+170}_{-167} Mpc	$\Delta^2_{\mathcal{R}}$	$(2.439^{+0.096}_{-0.095}) \times 10^{-9}$
h	0.701 ± 0.016	H_0	70.1 ± 1.6 km/s/Mpc
$k_{\rm eq}$	$0.01018^{+0.00032}_{-0.00033}$	$\ell_{\rm eq}$	$141.6^{+3.0}_{-2.9}$
ℓ_*	301.2 ± 1.5	n_s	0.973 ± 0.017
Ω_b	0.0460 ± 0.0019	$\Omega_b h^2$	$0.02257^{+0.00055}_{-0.00053}$
Ω_c	0.239 ± 0.016	$\Omega_c h^2$	$0.1169^{+0.0043}_{-0.0044}$
Ω_Λ	0.715 ± 0.018	Ω_m	0.285 ± 0.018
$\Omega_m h^2$	$0.1395^{+0.0044}_{-0.0045}$	$r_{\rm hor}(z_{\rm dec})$	$281.5^{+3.0}_{-2.9}$ Mpc
$r_s(z_d)$	151.5 ± 1.4 Mpc	$r_s(z_d)/D_v(z=0.2)$	0.1883 ± 0.0041
$r_s(z_d)/D_v(z=0.35)$	0.1132 ± 0.0022	$r_s(z_*)$	145.0 ± 1.2 Mpc
R	1.732 ± 0.011	σ_8	0.846 ± 0.037
$A_{\rm SZ}$	$0.98^{+0.67}_{-0.97}$	t_0	$13.66^{+0.16}_{-0.15}$ Gyr
τ	0.086 ± 0.014	θ_*	$0.010430^{+0.000051}_{-0.000052}$
θ_*	$0.5976^{+0.0029}_{-0.0030}$ °	t_*	373595^{+3978}_{-3873} yr
$Y_{\rm He}$	0.33 ± 0.11	z_d	1020.8 ± 1.3
$z_{\rm eq}$	3341^{+106}_{-107}	$z_{\rm reion}$	11.1 ± 1.5
z_*	$1091.34^{+0.83}_{-0.81}$		

WMAP Cosmological Parameters

Model: lcdm+sz+lens+yhe

Data: wmap7+lrg+h0+cmb

$10^2\Omega_b h^2$	$2.261^{+0.051}_{-0.050}$	$1-n_s$	0.025 ± 0.015
$1-n_s$	$-0.0046 < 1-n_s < 0.0545$ (95% CL)	$A_{\rm BAO}(z=0.35)$	0.476 ± 0.012
C_{220}	5768 ± 38	$d_A(z_{\rm eq})$	14034 ± 146 Mpc
$d_A(z_*)$	13867 ± 147 Mpc	$\Delta^2_{\mathcal{R}}$	$(2.440^{+0.093}_{-0.096}) \times 10^{-9}$
h	0.703 ± 0.015	H_0	70.3 ± 1.5 km/s/Mpc
$k_{\rm eq}$	0.01023 ± 0.00030	$\ell_{\rm eq}$	141.9 ± 2.8
ℓ_*	300.8 ± 1.1	n_s	0.975 ± 0.015
Ω_b	0.0457 ± 0.0017	$\Omega_b h^2$	$0.02261^{+0.00051}_{-0.00050}$
Ω_c	0.238 ± 0.016	$\Omega_c h^2$	0.1175 ± 0.0040
Ω_Λ	0.716 ± 0.017	Ω_m	0.284 ± 0.017
$\Omega_m h^2$	0.1402 ± 0.0041	$r_{\rm hor}(z_{\rm dec})$	281.0 ± 2.4 Mpc
$r_s(z_d)$	151.2 ± 1.3 Mpc	$r_s(z_d)/D_v(z=0.2)$	$0.1887^{+0.0039}_{-0.0040}$
$r_s(z_d)/D_v(z=0.35)$	0.1134 ± 0.0021	$r_s(z_*)$	$144.8^{+1.1}_{-1.2}$ Mpc
R	1.731 ± 0.011	σ_8	0.853 ± 0.031
$A_{\rm SZ}$	$0.91^{+0.67}_{-0.91}$	t_0	13.62 ± 0.13 Gyr
τ	0.087 ± 0.014	θ_*	0.010443 ± 0.000037
θ_*	0.5983 ± 0.0021 °	t_*	373024^{+3575}_{-3552} yr
$Y_{\rm He}$	0.349 ± 0.064	z_d	$1021.0^{+1.2}_{-1.3}$
$z_{\rm eq}$	3357^{+97}_{-99}	$z_{\rm reion}$	11.3 ± 1.4
z_*	1091.33 ± 0.74		

WMAP Cosmological Parameters

Model: wcdm+sz+lens+mnu

Data: wmap7

$10^2\Omega_b h^2$	$2.218^{+0.065}_{-0.061}$	$1-n_s$	0.048 ± 0.018
$1-n_s$	$0.0039 < 1-n_s < 0.0800$ (95% CL)	$1+w$	$-0.20^{+0.57}_{-0.58}$
$1+w$	$-1.26 < 1+w < 0.73$ (95% CL)	$A_{\rm BAO}(z=0.35)$	$0.498^{+0.045}_{-0.044}$
C_{220}	5769^{+39}_{-38}	$d_A(z_{\rm eq})$	14223^{+160}_{-161} Mpc
$d_A(z_*)$	14058 ± 163 Mpc	$\Delta^2_{\mathcal{R}}$	$(2.50 \pm 0.14) \times 10^{-9}$
h	$0.69^{+0.15}_{-0.14}$	H_0	69^{+15}_{-14} km/s/Mpc
$k_{\rm eq}$	0.00987 ± 0.00041	$\ell_{\rm eq}$	$138.8^{+4.4}_{-4.5}$
ℓ_*	$302.35^{+0.80}_{-0.82}$	$\sum m_\nu$	< 1.4 eV (95% CL)
n_s	0.952 ± 0.018	Ω_b	0.052 ± 0.021
$\Omega_b h^2$	$0.02218^{+0.00065}_{-0.00061}$	Ω_c	$0.26^{+0.11}_{-0.10}$
$\Omega_c h^2$	$0.1128^{+0.0058}_{-0.0059}$	Ω_Λ	$0.67^{+0.13}_{-0.14}$
Ω_m	$0.33^{+0.14}_{-0.13}$	$\Omega_m h^2$	0.1421 ± 0.0072
$\Omega_\nu h^2$	< 0.015 (95% CL)	$r_{\rm hor}(z_{\rm dec})$	$283.9^{+3.1}_{-3.2}$ Mpc
$r_s(z_d)$	152.7 ± 1.7 Mpc	$r_s(z_d)/D_v(z=0.2)$	$0.182^{+0.023}_{-0.024}$
$r_s(z_d)/D_v(z=0.35)$	$0.1082^{+0.0094}_{-0.0097}$	$r_s(z_*)$	146.1 ± 1.5 Mpc
R	$1.767^{+0.031}_{-0.030}$	σ_8	0.70 ± 0.14
$A_{\rm SZ}$	$0.98^{+0.67}_{-0.64}$	t_0	$14.13^{+0.33}_{-0.35}$ Gyr
τ	0.084 ± 0.014	θ_*	0.010391 ± 0.000028
θ_*	0.5953 ± 0.0016 °	t_*	376032 ± 5442 yr
w	$-1.20^{+0.57}_{-0.58}$	$z_{\rm dec}$	$1088.9^{+1.3}_{-1.2}$
z_d	1019.5 ± 1.5	$z_{\rm eq}$	3234^{+134}_{-138}
$z_{\rm reion}$	10.5 ± 1.2	z_*	1091.5 ± 1.1

WMAP Cosmological Parameters

Model: wcdm+sz+lens+mnu

Data: wmap7+bao+h0

$10^2\Omega_b h^2$	$2.202^{+0.061}_{-0.060}$	$1-n_s$	$0.053^{+0.015}_{-0.016}$
$1-n_s$	$0.022 < 1-n_s < 0.083$ (95% CL)	$1+w$	-0.44 ± 0.27
$1+w$	$-1.004 < 1+w < 0.019$ (95% CL)	$A_{\rm BAO}(z=0.35)$	0.482 ± 0.014
C_{220}	5767^{+39}_{-40}	$d_A(z_{\rm eq})$	14212^{+146}_{-142} Mpc
$d_A(z_*)$	14047^{+148}_{-144} Mpc	$\Delta^2_{\mathcal{R}}$	$(2.55 \pm 0.12) \times 10^{-9}$
h	0.739 ± 0.031	H_0	73.9 ± 3.1 km/s/Mpc
$k_{\rm eq}$	0.00995 ± 0.00036	$\ell_{\rm eq}$	139.7 ± 3.7
ℓ_*	$302.51^{+0.80}_{-0.79}$	$\sum m_\nu$	< 1.3 eV (95% CL)
n_s	$0.947^{+0.016}_{-0.015}$	Ω_b	$0.0406^{+0.0037}_{-0.0038}$
$\Omega_b h^2$	$0.02202^{+0.00061}_{-0.00060}$	Ω_c	$0.210^{+0.017}_{-0.018}$
$\Omega_c h^2$	0.1140 ± 0.0049	Ω_Λ	0.736 ± 0.020
Ω_m	0.264 ± 0.020	$\Omega_m h^2$	0.1433 ± 0.0055
$\Omega_\nu h^2$	< 0.013 (95% CL)	$r_{\rm hor}(z_{\rm dec})$	$283.3^{+2.5}_{-2.6}$ Mpc
$r_s(z_d)$	152.6 ± 1.5 Mpc	$r_s(z_d)/D_v(z=0.2)$	$0.1893^{+0.0044}_{-0.0043}$
$r_s(z_d)/D_v(z=0.35)$	$0.1112^{+0.0026}_{-0.0027}$	$r_s(z_*)$	$145.9^{+1.4}_{-1.3}$ Mpc
R	1.773 ± 0.023	σ_8	$0.750^{+0.071}_{-0.072}$
$A_{\rm SZ}$	$0.97^{+1.03}_{-0.97}$	t_0	14.02 ± 0.18 Gyr
τ	$0.084^{+0.013}_{-0.014}$	θ_*	0.010385 ± 0.000027
θ_*	$0.5950^{+0.0015}_{-0.0016}$ °	t_*	374964^{+4338}_{-4376} yr
w	-1.44 ± 0.27	$z_{\rm dec}$	1089.1 ± 1.2
z_d	1019.3 ± 1.5	$z_{\rm eq}$	3258^{+119}_{-118}
$z_{\rm reion}$	10.5 ± 1.2	z_*	$1091.82^{+0.92}_{-0.93}$

WMAP Cosmological Parameters

Model: wcdm+sz+lens+mnu

Data: wmap7+bao+snconst

$10^2\Omega_b h^2$	$2.236^{+0.058}_{-0.057}$	$1-n_s$	$0.042^{+0.014}_{-0.013}$
$1-n_s$	$0.016 < 1-n_s < 0.069$ (95% CL)	$1+w$	$-0.040^{+0.068}_{-0.069}$
$1+w$	$-0.194 < 1+w < 0.087$ (95% CL)	$A_{\rm BAO}(z=0.35)$	0.481 ± 0.013
C_{220}	5767 ± 40	$d_A(z_{\rm eq})$	14281^{+142}_{-144} Mpc
$d_A(z_*)$	14117^{+144}_{-146} Mpc	$\Delta^2_{\mathcal{R}}$	$(2.46 \pm 0.10) \times 10^{-9}$
h	$0.680^{+0.016}_{-0.015}$	H_0	$68.0^{+1.6}_{-1.5}$ km/s/Mpc
$k_{\rm eq}$	0.00973 ± 0.00034	$\ell_{\rm eq}$	$137.3^{+3.6}_{-3.5}$
ℓ_*	$302.41^{+0.78}_{-0.77}$	$\sum m_\nu$	< 0.91 eV (95% CL)
n_s	$0.958^{+0.013}_{-0.014}$	Ω_b	$0.0485^{+0.0019}_{-0.0020}$
$\Omega_b h^2$	$0.02236^{+0.00058}_{-0.00057}$	Ω_c	$0.240^{+0.014}_{-0.015}$
$\Omega_c h^2$	$0.1108^{+0.0047}_{-0.0046}$	Ω_Λ	0.701 ± 0.019
Ω_m	0.299 ± 0.019	$\Omega_m h^2$	$0.1376^{+0.0049}_{-0.0047}$
$\Omega_\nu h^2$	< 0.0097 (95% CL)	$r_{\rm hor}(z_{\rm dec})$	285.2 ± 2.5 Mpc
$r_s(z_d)$	153.3 ± 1.5 Mpc	$r_s(z_d)/D_v(z=0.2)$	$0.1845^{+0.0043}_{-0.0042}$
$r_s(z_d)/D_v(z=0.35)$	0.1110 ± 0.0025	$r_s(z_*)$	146.7 ± 1.3 Mpc
R	$1.746^{+0.020}_{-0.019}$	σ_8	$0.719^{+0.063}_{-0.064}$
$A_{\rm SZ}$	$1.02^{+0.98}_{-1.02}$	t_0	$13.97^{+0.17}_{-0.16}$ Gyr
τ	$0.088^{+0.014}_{-0.015}$	θ_*	$0.010389^{+0.000026}_{-0.000027}$
θ_*	0.5952 ± 0.0015 °	t_*	378571^{+4213}_{-4236} yr
w	$-1.040^{+0.068}_{-0.069}$	$z_{\rm dec}$	1088.5 ± 1.1
z_d	1019.8 ± 1.4	$z_{\rm eq}$	3190^{+114}_{-113}
$z_{\rm reion}$	10.6 ± 1.2	z_*	1091.08 ± 0.84

WMAP Cosmological Parameters

Model: wcdm+sz+lens+mnu

Data: wmap7+lrg+h0

$10^2\Omega_b h^2$	$2.232^{+0.057}_{-0.058}$	$1-n_s$	0.045 ± 0.015
$1-n_s$	$0.016 < 1-n_s < 0.074$ (95% CL)	$1+w$	-0.27 ± 0.24
$1+w$	$-0.91 < 1+w < 0.12$ (95% CL)	$A_{\rm BAO}(z=0.35)$	0.488 ± 0.015
C_{220}	5755 ± 39	$d_A(z_{\rm eq})$	14111^{+131}_{-134} Mpc
$d_A(z_*)$	13944^{+132}_{-135} Mpc	$\Delta^2_{\mathcal{R}}$	$(2.53 \pm 0.12) \times 10^{-9}$
h	0.716 ± 0.034	H_0	71.6 ± 3.4 km/s/Mpc
$k_{\rm eq}$	0.01024 ± 0.00035	$\ell_{\rm eq}$	$142.8^{+3.7}_{-3.6}$
ℓ_*	$302.46^{+0.79}_{-0.78}$	$\sum m_\nu$	< 0.76 eV (95% CL)
n_s	0.955 ± 0.015	Ω_b	0.0438 ± 0.0046
$\Omega_b h^2$	$0.02232^{+0.00057}_{-0.00058}$	Ω_c	0.231 ± 0.020
$\Omega_c h^2$	$0.1179^{+0.0049}_{-0.0048}$	Ω_Λ	0.718 ± 0.024
Ω_m	0.282 ± 0.024	$\Omega_m h^2$	$0.1440^{+0.0060}_{-0.0059}$
$\Omega_\nu h^2$	< 0.0081 (95% CL)	$r_{\rm hor}(z_{\rm dec})$	281.6 ± 2.6 Mpc
$r_s(z_d)$	151.4 ± 1.4 Mpc	$r_s(z_d)/D_v(z=0.2)$	0.1864 ± 0.0050
$r_s(z_d)/D_v(z=0.35)$	$0.1107^{+0.0027}_{-0.0028}$	$r_s(z_*)$	144.8 ± 1.3 Mpc
R	$1.764^{+0.025}_{-0.024}$	σ_8	0.813 ± 0.054
$A_{\rm SZ}$	$0.88^{+0.67}_{-0.88}$	t_0	$13.89^{+0.14}_{-0.15}$ Gyr
τ	0.083 ± 0.014	θ_*	0.010387 ± 0.000027
θ_*	0.5951 ± 0.0015 °	t_*	372322^{+4446}_{-4468} yr
w	-1.27 ± 0.24	$z_{\rm dec}$	1089.0 ± 1.2
z_d	1020.3 ± 1.3	$z_{\rm eq}$	3359^{+114}_{-113}
$z_{\rm reion}$	10.4 ± 1.2	z_*	$1091.76^{+0.98}_{-0.97}$

WMAP Cosmological Parameters

Model: wcdm+sz+lens+mnu

Data: wmap7+lrg+h0+snconst

$10^2\Omega_b h^2$	2.259 ± 0.057	$1 - n_s$	0.038 ± 0.013
$1 - n_s$	$0.010 < 1 - n_s < 0.064$ (95% CL)	$1 + w$	$-0.039^{+0.064}_{-0.062}$
$1 + w$	$-0.183 < 1 + w < 0.077$ (95% CL)	$A_{\rm BAO}(z = 0.35)$	0.483 ± 0.012
C_{220}	5762 ± 39	$d_A(z_{\rm eq})$	14165^{+126}_{-123} Mpc
$d_A(z_*)$	14000^{+127}_{-124} Mpc	$\Delta^2_{\mathcal{R}}$	$(2.46 \pm 0.10) \times 10^{-9}$
h	0.686 ± 0.014	H_0	68.6 ± 1.4 km/s/Mpc
$k_{\rm eq}$	0.01003 ± 0.00029	$\ell_{\rm eq}$	140.4 ± 3.0
ℓ_*	302.24 ± 0.73	$\sum m_\nu$	< 0.53 eV (95% CL)
n_s	0.962 ± 0.013	Ω_b	0.0480 ± 0.0018
$\Omega_b h^2$	0.02259 ± 0.00057	Ω_c	0.244 ± 0.014
$\Omega_c h^2$	0.1147 ± 0.0040	Ω_Λ	0.703 ± 0.017
Ω_m	0.297 ± 0.017	$\Omega_m h^2$	$0.1398^{+0.0044}_{-0.0045}$
$\Omega_\nu h^2$	< 0.0057 (95% CL)	$r_{\rm hor}(z_{\rm dec})$	$283.3^{+2.2}_{-2.1}$ Mpc
$r_s(z_d)$	152.0 ± 1.3 Mpc	$r_s(z_d)/D_v(z = 0.2)$	$0.1848^{+0.0037}_{-0.0038}$
$r_s(z_d)/D_v(z = 0.35)$	0.1111 ± 0.0022	$r_s(z_*)$	$145.5^{+1.2}_{-1.1}$ Mpc
R	$1.745^{+0.016}_{-0.017}$	σ_8	$0.780^{+0.043}_{-0.041}$
$A_{\rm SZ}$	$0.94^{+0.69}_{-0.94}$	t_0	13.85 ± 0.13 Gyr
τ	0.087 ± 0.014	θ_*	0.010395 ± 0.000025
θ_*	0.5956 ± 0.0014 °	t_*	375335^{+3666}_{-3628} yr
w	$-1.039^{+0.064}_{-0.062}$	$z_{\rm dec}$	1088.4 ± 1.1
z_d	$1020.7^{+1.4}_{-1.3}$	$z_{\rm eq}$	3289^{+95}_{-96}
$z_{\rm reion}$	$10.5^{+1.1}_{-1.2}$	z_*	$1091.12^{+0.83}_{-0.84}$

WMAP Cosmological Parameters

Model: lcdm+sz+lens+nrel

Data: wmap7

$10^2\Omega_b h^2$	$2.260^{+0.055}_{-0.054}$	$1-n_s$	$0.008^{+0.023}_{-0.022}$
$1-n_s$	$-0.031 < 1-n_s < 0.059$ (95% CL)	$A_{\rm BAO}(z=0.35)$	0.465 ± 0.021
C_{220}	5756^{+38}_{-37}	$d_A(z_{\rm eq})$	12346^{+1285}_{-1334} Mpc
$d_A(z_*)$	12206^{+1270}_{-1317} Mpc	$\Delta^2_{\mathcal{R}}$	$(2.39 \pm 0.11) \times 10^{-9}$
h	$0.826^{+0.089}_{-0.087}$	H_0	$82.6^{+8.9}_{-8.7}$ km/s/Mpc
$k_{\rm eq}$	0.0113 ± 0.0012	$\ell_{\rm eq}$	$136.5^{+4.5}_{-4.4}$
ℓ_*	304.8 ± 1.6	$N_{\rm eff}$	> 2.7 (95% CL)
n_s	$0.992^{+0.022}_{-0.023}$	Ω_b	0.0342 ± 0.0072
$\Omega_b h^2$	$0.02260^{+0.00055}_{-0.00054}$	Ω_c	$0.235^{+0.029}_{-0.028}$
$\Omega_c h^2$	$0.162^{+0.041}_{-0.038}$	Ω_Λ	$0.731^{+0.029}_{-0.030}$
Ω_m	$0.269^{+0.030}_{-0.029}$	$\Omega_m h^2$	$0.184^{+0.041}_{-0.038}$
$r_{\rm hor}(z_{\rm dec})$	245^{+27}_{-28} Mpc	$r_s(z_d)$	132^{+14}_{-15} Mpc
$r_s(z_d)/D_v(z=0.2)$	$0.1903^{+0.0073}_{-0.0072}$	$r_s(z_d)/D_v(z=0.35)$	$0.1142^{+0.0039}_{-0.0038}$
$r_s(z_*)$	126 ± 14 Mpc	R	1.721 ± 0.019
σ_8	0.903 ± 0.077	$A_{\rm SZ}$	$0.97^{+0.67}_{-0.97}$
t_0	$11.9^{+1.2}_{-1.3}$ Gyr	τ	$0.088^{+0.014}_{-0.015}$
θ_*	0.010309 ± 0.000053	θ_*	$0.5906^{+0.0031}_{-0.0030}$ °
t_*	324760^{+36170}_{-37308} yr	$z_{\rm dec}$	$1092.3^{+3.3}_{-3.1}$
z_d	1022.8 ± 1.7	$z_{\rm eq}$	3145^{+140}_{-139}
$z_{\rm reion}$	$11.7^{+1.5}_{-1.6}$	z_*	$1094.8^{+3.1}_{-3.0}$

WMAP Cosmological Parameters

Model: lcdm+sz+lens+nrel

Data: wmap7.2

$10^2\Omega_b h^2$	2.250 ± 0.056	$1 - n_s$	0.005 ± 0.024
$1 - n_s$	$-0.037 < 1 - n_s < 0.056$ (95% CL)	$A_{\rm BAO}(z = 0.35)$	0.470 ± 0.021
$d_A(z_{\rm eq})$	12384^{+1376}_{-1390} Mpc	$d_A(z_*)$	12243^{+1359}_{-1372} Mpc
$\Delta^2_{\mathcal{R}}$	$(2.39 \pm 0.12) \times 10^{-9}$	h	$0.815^{+0.091}_{-0.090}$
H_0	$81.5^{+9.1}_{-9.0}$ km/s/Mpc	$k_{\rm eq}$	0.0114 ± 0.0013
$\ell_{\rm eq}$	137.5 ± 4.4	ℓ_*	$304.8^{+1.6}_{-1.7}$
$N_{\rm eff}$	> 2.5 (95% CL)	n_s	0.995 ± 0.024
Ω_b	$0.0350^{+0.0077}_{-0.0075}$	$\Omega_b h^2$	0.02250 ± 0.00056
Ω_c	0.241 ± 0.029	$\Omega_c h^2$	$0.162^{+0.043}_{-0.041}$
Ω_Λ	0.724 ± 0.030	Ω_m	0.276 ± 0.030
$\Omega_m h^2$	$0.184^{+0.043}_{-0.041}$	$r_s(z_d)$	132 ± 15 Mpc
$r_s(z_d)/D_v(z = 0.2)$	0.1886 ± 0.0072	$r_s(z_d)/D_v(z = 0.35)$	0.1132 ± 0.0038
$r_s(z_*)$	126 ± 15 Mpc	R	1.726 ± 0.019
$A_{\rm SZ}$	$0.95^{+0.68}_{-0.95}$	τ	0.088 ± 0.015
θ_*	$0.010308^{+0.000057}_{-0.000056}$	θ_*	$0.5906^{+0.0033}_{-0.0032}$ °
t_*	325352^{+38514}_{-38882} yr	z_d	1022.5 ± 1.8
$z_{\rm eq}$	3174 ± 138	z_*	$1094.9^{+3.3}_{-3.2}$

WMAP Cosmological Parameters

Model: lcdm+sz+lens+nrel

Data: wmap7+bao+h0

$10^2\Omega_b h^2$	$2.246^{+0.051}_{-0.054}$	$1-n_s$	0.025 ± 0.014
$1-n_s$	$-0.0022 < 1-n_s < 0.0542$ (95% CL)	$A_{\rm BAO}(z=0.35)$	$0.473^{+0.011}_{-0.012}$
C_{220}	5755^{+37}_{-38}	$d_A(z_{\rm eq})$	13264^{+635}_{-632} Mpc
$d_A(z_*)$	13112^{+628}_{-622} Mpc	$\Delta^2_{\mathcal{R}}$	$(2.449^{+0.096}_{-0.092}) \times 10^{-9}$
h	$0.750^{+0.033}_{-0.034}$	H_0	$75.0^{+3.3}_{-3.4}$ km/s/Mpc
$k_{\rm eq}$	$0.01059^{+0.00058}_{-0.00057}$	$\ell_{\rm eq}$	138.5 ± 2.6
ℓ_*	$303.9^{+1.2}_{-1.1}$	$N_{\rm eff}$	$4.34^{+0.86}_{-0.88}$
$N_{\rm eff}$	$2.7 < N_{\rm eff} < 6.2$ (95% CL)	n_s	0.975 ± 0.014
Ω_b	$0.0402^{+0.0035}_{-0.0036}$	$\Omega_b h^2$	$0.02246^{+0.00051}_{-0.00054}$
Ω_c	0.239 ± 0.017	$\Omega_c h^2$	0.135 ± 0.016
Ω_Λ	0.721 ± 0.017	Ω_m	0.279 ± 0.017
$\Omega_m h^2$	0.157 ± 0.016	$r_{\rm hor}(z_{\rm dec})$	264^{+14}_{-13} Mpc
$r_s(z_d)$	$141.7^{+7.2}_{-7.1}$ Mpc	$r_s(z_d)/D_v(z=0.2)$	$0.1879^{+0.0041}_{-0.0040}$
$r_s(z_d)/D_v(z=0.35)$	$0.1129^{+0.0022}_{-0.0021}$	$r_s(z_*)$	$135.6^{+6.9}_{-6.8}$ Mpc
R	$1.728^{+0.010}_{-0.011}$	σ_8	0.860 ± 0.042
$A_{\rm SZ}$	$0.93^{+0.69}_{-0.92}$	t_0	12.85 ± 0.58 Gyr
τ	0.086 ± 0.014	θ_*	0.010338 ± 0.000039
θ_*	$0.5923^{+0.0022}_{-0.0023}$ °	t_*	349570^{+18359}_{-18164} yr
$z_{\rm dec}$	$1090.4^{+1.7}_{-1.8}$	z_d	1021.8 ± 1.5
$z_{\rm eq}$	3209^{+85}_{-89}	$z_{\rm reion}$	11.0 ± 1.3
z_*	$1093.0^{+1.5}_{-1.6}$		

WMAP Cosmological Parameters

Model: lcdm+sz+lens+nrel

Data: wmap7+lrg+h0

$10^2\Omega_b h^2$	$2.249^{+0.054}_{-0.053}$	$1-n_s$	0.026 ± 0.014
$1-n_s$	$-0.00020 < 1-n_s < 0.05448$ (95% CL)	$A_{\rm BAO}(z=0.35)$	$0.477^{+0.013}_{-0.012}$
C_{220}	5754 ± 38	$d_A(z_{\rm eq})$	13285^{+561}_{-536} Mpc
$d_A(z_*)$	13132^{+554}_{-529} Mpc	$\Delta^2_{\mathcal{R}}$	$(2.456 \pm 0.096) \times 10^{-9}$
h	$0.743^{+0.032}_{-0.033}$	H_0	$74.3^{+3.2}_{-3.3}$ km/s/Mpc
$k_{\rm eq}$	0.01063 ± 0.00049	$\ell_{\rm eq}$	139.4 ± 2.6
ℓ_*	303.8 ± 1.1	$N_{\rm eff}$	$4.25^{+0.76}_{-0.80}$
$N_{\rm eff}$	$2.8 < N_{\rm eff} < 5.9$ (95% CL)	n_s	0.974 ± 0.014
Ω_b	$0.0410^{+0.0037}_{-0.0036}$	$\Omega_b h^2$	$0.02249^{+0.00054}_{-0.00053}$
Ω_c	0.244 ± 0.018	$\Omega_c h^2$	$0.135^{+0.013}_{-0.014}$
Ω_Λ	$0.715^{+0.018}_{-0.019}$	Ω_m	$0.285^{+0.019}_{-0.018}$
$\Omega_m h^2$	$0.157^{+0.013}_{-0.014}$	$r_{\rm hor}(z_{\rm dec})$	264^{+12}_{-11} Mpc
$r_s(z_d)$	$141.9^{+6.4}_{-6.1}$ Mpc	$r_s(z_d)/D_v(z=0.2)$	0.1867 ± 0.0042
$r_s(z_d)/D_v(z=0.35)$	$0.1122^{+0.0022}_{-0.0023}$	$r_s(z_*)$	$135.8^{+6.1}_{-5.8}$ Mpc
R	1.732 ± 0.011	σ_8	0.863 ± 0.035
$A_{\rm SZ}$	$0.94^{+0.70}_{-0.94}$	t_0	$12.90^{+0.54}_{-0.52}$ Gyr
τ	0.085 ± 0.014	θ_*	$0.010341^{+0.000038}_{-0.000039}$
θ_*	0.5925 ± 0.0022 °	t_*	350027^{+16105}_{-15479} yr
$z_{\rm dec}$	$1090.3^{+1.7}_{-1.6}$	z_d	1021.9 ± 1.4
$z_{\rm eq}$	3240 ± 90	$z_{\rm reion}$	10.8 ± 1.3
z_*	$1092.9^{+1.4}_{-1.5}$		

WMAP Cosmological Parameters

Model: lcdm+sz+lens+nrel

Data: wmap7+lrg+h0+snconst

$10^2\Omega_b h^2$	$2.248^{+0.054}_{-0.053}$	$1-n_s$	0.026 ± 0.014
$1-n_s$	$0.00027 < 1-n_s < 0.05443$ (95% CL)	$A_{\rm BAO}(z=0.35)$	$0.4776^{+0.0097}_{-0.0093}$
C_{220}	5753 ± 38	$d_A(z_{\rm eq})$	13277^{+553}_{-534} Mpc
$d_A(z_*)$	13123^{+546}_{-526} Mpc	$\Delta^2_{\mathcal{R}}$	$(2.459^{+0.090}_{-0.089}) \times 10^{-9}$
h	$0.742^{+0.031}_{-0.032}$	H_0	$74.2^{+3.1}_{-3.2}$ km/s/Mpc
$k_{\rm eq}$	$0.01066^{+0.00046}_{-0.00047}$	$\ell_{\rm eq}$	139.6 ± 2.2
ℓ_*	303.8 ± 1.1	$N_{\rm eff}$	$4.26^{+0.76}_{-0.80}$
$N_{\rm eff}$	$2.8 < N_{\rm eff} < 6.0$ (95% CL)	n_s	0.974 ± 0.014
Ω_b	$0.0411^{+0.0036}_{-0.0035}$	$\Omega_b h^2$	$0.02248^{+0.00054}_{-0.00053}$
Ω_c	0.245 ± 0.014	$\Omega_c h^2$	$0.135^{+0.013}_{-0.014}$
Ω_Λ	0.714 ± 0.014	Ω_m	0.286 ± 0.014
$\Omega_m h^2$	$0.158^{+0.013}_{-0.014}$	$r_{\rm hor}(z_{\rm dec})$	264^{+12}_{-11} Mpc
$r_s(z_d)$	$141.8^{+6.3}_{-6.0}$ Mpc	$r_s(z_d)/D_v(z=0.2)$	$0.1863^{+0.0033}_{-0.0034}$
$r_s(z_d)/D_v(z=0.35)$	0.1120 ± 0.0018	$r_s(z_*)$	$135.7^{+6.1}_{-5.8}$ Mpc
R	$1.7326^{+0.0087}_{-0.0084}$	σ_8	0.864 ± 0.034
$A_{\rm SZ}$	$0.94^{+0.70}_{-0.94}$	t_0	$12.90^{+0.54}_{-0.52}$ Gyr
τ	0.085 ± 0.014	θ_*	$0.010341^{+0.000038}_{-0.000039}$
θ_*	0.5925 ± 0.0022 °	t_*	349696^{+16153}_{-15228} yr
$z_{\rm dec}$	1090.3 ± 1.6	z_d	1021.9 ± 1.4
$z_{\rm eq}$	3245 ± 78	$z_{\rm reion}$	10.8 ± 1.3
z_*	1093.0 ± 1.4		

WMAP Cosmological Parameters

Model: lcdm+sz+lens+nrel

Data: wmap7.2+h0

$10^2\Omega_b h^2$	2.244 ± 0.056	$1 - n_s$	0.019 ± 0.014
$1 - n_s$	$-0.0085 < 1 - n_s < 0.0482$ (95% CL)	$A_{\rm BAO}(z = 0.35)$	0.473 ± 0.020
$d_A(z_{\rm eq})$	13258^{+773}_{-774} Mpc	$d_A(z_*)$	13106 ± 765 Mpc
$\Delta^2_{\mathcal{R}}$	$(2.43 \pm 0.11) \times 10^{-9}$	h	0.751 ± 0.033
H_0	75.1 ± 3.3 km/s/Mpc	$k_{\rm eq}$	0.01061 ± 0.00082
$\ell_{\rm eq}$	138.5 ± 4.0	ℓ_*	303.9 ± 1.3
$N_{\rm eff}$	4.4 ± 1.0	$N_{\rm eff}$	$2.5 < N_{\rm eff} < 6.6$ (95% CL)
n_s	0.981 ± 0.014	Ω_b	0.0401 ± 0.0036
$\Omega_b h^2$	0.02244 ± 0.00056	Ω_c	$0.240^{+0.029}_{-0.030}$
$\Omega_c h^2$	0.136 ± 0.021	Ω_Λ	0.720 ± 0.029
Ω_m	0.280 ± 0.029	$\Omega_m h^2$	0.158 ± 0.021
$r_s(z_d)$	141.7 ± 8.7 Mpc	$r_s(z_d)/D_v(z = 0.2)$	$0.1880^{+0.0072}_{-0.0071}$
$r_s(z_d)/D_v(z = 0.35)$	0.1130 ± 0.0038	$r_s(z_*)$	135.5 ± 8.4 Mpc
R	1.728 ± 0.018	$A_{\rm SZ}$	$0.96^{+0.68}_{-0.67}$
τ	0.087 ± 0.015	θ_*	0.010338 ± 0.000045
θ_*	0.5923 ± 0.0026 °	t_*	349431^{+22839}_{-22706} yr
z_d	1021.7 ± 1.6	$z_{\rm eq}$	3210^{+121}_{-122}
z_*	1093.0 ± 2.0		

WMAP Cosmological Parameters

Model: lcdm+sz+lens+nrel3

Data: wmap7

$10^2\Omega_b h^2$	2.261 ± 0.055	$1 - n_s$	0.004 ± 0.020
$1 - n_s$	$-0.031 < 1 - n_s < 0.043$ (95% CL)	$A_{\rm BAO}(z = 0.35)$	0.465 ± 0.021
C_{220}	5755^{+38}_{-37}	$d_A(z_{\rm eq})$	12116^{+1181}_{-1161} Mpc
$d_A(z_*)$	11979^{+1170}_{-1150} Mpc	$\Delta^2_{\mathcal{R}}$	$(2.38 \pm 0.11) \times 10^{-9}$
h	$0.839^{+0.081}_{-0.078}$	H_0	$83.9^{+8.1}_{-7.8}$ km/s/Mpc
$k_{\rm eq}$	0.0115 ± 0.0011	$\ell_{\rm eq}$	$136.3^{+4.3}_{-4.4}$
ℓ_*	$305.1^{+1.3}_{-1.4}$	$N_{\rm eff}$	< 10 (95% CL)
n_s	0.996 ± 0.020	Ω_b	$0.0328^{+0.0062}_{-0.0060}$
$\Omega_b h^2$	0.02261 ± 0.00055	Ω_c	0.236 ± 0.028
$\Omega_c h^2$	$0.167^{+0.037}_{-0.036}$	Ω_Λ	0.731 ± 0.029
Ω_m	0.269 ± 0.029	$\Omega_m h^2$	$0.190^{+0.037}_{-0.036}$
$r_{\rm hor}(z_{\rm dec})$	240^{+25}_{-24} Mpc	$r_s(z_d)$	129 ± 13 Mpc
$r_s(z_d)/D_v(z = 0.2)$	$0.1901^{+0.0071}_{-0.0072}$	$r_s(z_d)/D_v(z = 0.35)$	0.1141 ± 0.0038
$r_s(z_*)$	123^{+13}_{-12} Mpc	R	1.721 ± 0.019
σ_8	$0.915^{+0.069}_{-0.068}$	$A_{\rm SZ}$	$0.96^{+0.68}_{-0.96}$
t_0	11.7 ± 1.1 Gyr	τ	$0.088^{+0.014}_{-0.015}$
θ_*	$0.010298^{+0.000048}_{-0.000045}$	θ_*	$0.5901^{+0.0028}_{-0.0026}$ ∘
t_*	318276^{+33267}_{-32033} yr	$z_{\rm dec}$	1092.8 ± 2.9
z_d	1023.1 ± 1.5	$z_{\rm eq}$	3136^{+133}_{-136}
$z_{\rm reion}$	11.8 ± 1.5	z_*	$1095.2^{+2.9}_{-2.8}$

WMAP Cosmological Parameters

Model: lcdm+sz+lens+nrel3

Data: wmap7+bao+h0

$10^2\Omega_b h^2$	$2.245^{+0.052}_{-0.054}$	$1-n_s$	$0.024^{+0.013}_{-0.014}$
$1-n_s$	$-0.0026 < 1-n_s < 0.0512$ (95% CL)	$A_{\rm BAO}(z=0.35)$	$0.473^{+0.011}_{-0.012}$
C_{220}	5754^{+37}_{-38}	$d_A(z_{\rm eq})$	13175^{+589}_{-570} Mpc
$d_A(z_*)$	13024^{+580}_{-563} Mpc	$\Delta^2_{\mathcal{R}}$	$(2.450^{+0.096}_{-0.093}) \times 10^{-9}$
h	$0.754^{+0.030}_{-0.031}$	H_0	$75.4^{+3.0}_{-3.1}$ km/s/Mpc
$k_{\rm eq}$	0.01065 ± 0.00053	$\ell_{\rm eq}$	138.4 ± 2.6
ℓ_*	304.0 ± 1.1	$N_{\rm eff}$	< 5.9 (95% CL)
n_s	$0.976^{+0.014}_{-0.013}$	Ω_b	$0.0396^{+0.0033}_{-0.0032}$
$\Omega_b h^2$	$0.02245^{+0.00052}_{-0.00054}$	Ω_c	$0.240^{+0.016}_{-0.017}$
$\Omega_c h^2$	0.137 ± 0.015	Ω_Λ	0.720 ± 0.017
Ω_m	0.280 ± 0.017	$\Omega_m h^2$	0.159 ± 0.015
$r_{\rm hor}(z_{\rm dec})$	262 ± 12 Mpc	$r_s(z_d)$	$140.7^{+6.6}_{-6.4}$ Mpc
$r_s(z_d)/D_v(z=0.2)$	0.1878 ± 0.0040	$r_s(z_d)/D_v(z=0.35)$	0.1128 ± 0.0021
$r_s(z_*)$	$134.6^{+6.3}_{-6.2}$ Mpc	R	1.728 ± 0.010
σ_8	0.865 ± 0.039	$A_{\rm SZ}$	$0.92^{+0.68}_{-0.92}$
t_0	$12.76^{+0.54}_{-0.52}$ Gyr	τ	0.086 ± 0.014
θ_*	$0.010334^{+0.000036}_{-0.000037}$	θ_*	0.5921 ± 0.0021 °
t_*	347006^{+16784}_{-16383} yr	$z_{\rm dec}$	1090.6 ± 1.7
z_d	1021.9 ± 1.4	$z_{\rm eq}$	3206^{+85}_{-89}
$z_{\rm reion}$	11.0 ± 1.3	z_*	$1093.1^{+1.4}_{-1.5}$

WMAP Cosmological Parameters

Model: lcdm+sz+lens+nrel3

Data: wmap7+lrg+h0

$10^2\Omega_b h^2$	$2.248^{+0.054}_{-0.053}$	$1-n_s$	0.025 ± 0.014
$1-n_s$	$-0.00049 < 1-n_s < 0.05198$ (95% CL)	$A_{\rm BAO}(z=0.35)$	$0.477^{+0.013}_{-0.012}$
C_{220}	5753 ± 38	$d_A(z_{\rm eq})$	13223^{+527}_{-491} Mpc
$d_A(z_*)$	13071^{+521}_{-484} Mpc	$\Delta^2_{\mathcal{R}}$	$(2.456 \pm 0.096) \times 10^{-9}$
h	$0.746^{+0.030}_{-0.031}$	H_0	$74.6^{+3.0}_{-3.1}$ km/s/Mpc
$k_{\rm eq}$	$0.01068^{+0.00047}_{-0.00048}$	$\ell_{\rm eq}$	139.3 ± 2.6
ℓ_*	303.9 ± 1.1	$N_{\rm eff}$	< 5.6 (95% CL)
n_s	0.975 ± 0.014	Ω_b	$0.0406^{+0.0034}_{-0.0033}$
$\Omega_b h^2$	$0.02248^{+0.00054}_{-0.00053}$	Ω_c	$0.244^{+0.018}_{-0.017}$
$\Omega_c h^2$	0.136 ± 0.013	Ω_Λ	$0.715^{+0.018}_{-0.019}$
Ω_m	$0.285^{+0.019}_{-0.018}$	$\Omega_m h^2$	0.158 ± 0.013
$r_{\rm hor}(z_{\rm dec})$	263 ± 11 Mpc	$r_s(z_d)$	$141.2^{+6.0}_{-5.6}$ Mpc
$r_s(z_d)/D_v(z=0.2)$	0.1866 ± 0.0042	$r_s(z_d)/D_v(z=0.35)$	$0.1122^{+0.0022}_{-0.0023}$
$r_s(z_*)$	$135.1^{+5.7}_{-5.4}$ Mpc	R	1.732 ± 0.011
σ_8	$0.865^{+0.034}_{-0.033}$	$A_{\rm SZ}$	$0.94^{+0.70}_{-0.94}$
t_0	$12.84^{+0.50}_{-0.47}$ Gyr	τ	0.085 ± 0.014
θ_*	$0.010338^{+0.000036}_{-0.000037}$	θ_*	0.5923 ± 0.0021 °
t_*	348234^{+15212}_{-14170} yr	$z_{\rm dec}$	1090.4 ± 1.6
z_d	1022.0 ± 1.3	$z_{\rm eq}$	3236^{+88}_{-89}
$z_{\rm reion}$	10.9 ± 1.3	z_*	1093.0 ± 1.4

WMAP Cosmological Parameters

Model: olcdm+sz+lens

Data: wmap7

$10^2\Omega_b h^2$	$2.229^{+0.058}_{-0.057}$	$1-n_s$	0.045 ± 0.014
$1-n_s$	$0.015 < 1-n_s < 0.071$ (95% CL)	$A_{\rm BAO}(z=0.35)$	$0.60^{+0.13}_{-0.11}$
C_{220}	5768^{+41}_{-40}	$d_A(z_{\rm eq})$	14260^{+163}_{-156} Mpc
$d_A(z_*)$	14126^{+162}_{-158} Mpc	$\Delta^2_{\mathcal{R}}$	$(2.48 \pm 0.11) \times 10^{-9}$
h	$0.53^{+0.13}_{-0.15}$	H_0	53^{+13}_{-15} km/s/Mpc
$k_{\rm eq}$	$0.00978^{+0.00039}_{-0.00040}$	$\ell_{\rm eq}$	$138.1^{+4.1}_{-4.2}$
ℓ_*	$302.64^{+0.78}_{-0.77}$	n_s	0.955 ± 0.014
Ω_b	$0.095^{+0.056}_{-0.044}$	$\Omega_b h^2$	$0.02229^{+0.00058}_{-0.00057}$
Ω_c	$0.48^{+0.29}_{-0.23}$	$\Omega_c h^2$	$0.1117^{+0.0053}_{-0.0055}$
Ω_k	$-0.080^{+0.071}_{-0.093}$	Ω_k	$-0.273 < \Omega_k < 0.013$ (95% CL)
Ω_Λ	< 0.77 (95% CL)	Ω_m	$0.57^{+0.34}_{-0.27}$
$\Omega_m h^2$	$0.1340^{+0.0053}_{-0.0055}$	$\Omega_{\rm tot}$	$1.080^{+0.093}_{-0.071}$
$\Omega_{\rm tot}$	$0.99 < \Omega_{\rm tot} < 1.27$ (95% CL)	$r_{\rm hor}(z_{\rm dec})$	$285.1^{+3.0}_{-2.9}$ Mpc
$r_s(z_d)$	153.3 ± 1.7 Mpc	$r_s(z_d)/D_v(z=0.2)$	$0.150^{+0.032}_{-0.035}$
$r_s(z_d)/D_v(z=0.35)$	$0.092^{+0.017}_{-0.019}$	$r_s(z_*)$	$146.6^{+1.6}_{-1.5}$ Mpc
R	1.724 ± 0.018	σ_8	$0.762^{+0.044}_{-0.047}$
$A_{\rm SZ}$	$0.98^{+0.70}_{-0.97}$	t_0	$15.9^{+2.0}_{-1.7}$ Gyr
τ	0.086 ± 0.015	θ_*	$0.010381^{+0.000026}_{-0.000027}$
θ_*	0.5948 ± 0.0015 °	t_*	378443^{+5063}_{-4914} yr
$z_{\rm dec}$	$1088.5^{+1.2}_{-1.1}$	z_d	$1019.7^{+1.4}_{-1.5}$
$z_{\rm eq}$	3209^{+127}_{-132}	$z_{\rm reion}$	10.3 ± 1.2
z_*	$1091.24^{+0.93}_{-0.88}$		

WMAP Cosmological Parameters

Model: olcdm+sz+lens

Data: wmap7+bao+h0

$10^2\Omega_b h^2$	2.259 ± 0.056	$1 - n_s$	0.036 ± 0.013
$1 - n_s$	$0.010 < 1 - n_s < 0.063$ (95% CL)	$A_{\rm BAO}(z = 0.35)$	0.469 ± 0.011
C_{220}	5766 ± 40	$d_A(z_{\rm eq})$	14279^{+149}_{-148} Mpc
$d_A(z_*)$	14116^{+154}_{-152} Mpc	$\Delta^2_{\mathcal{R}}$	$(2.43 \pm 0.11) \times 10^{-9}$
h	0.699 ± 0.018	H_0	69.9 ± 1.8 km/s/Mpc
$k_{\rm eq}$	0.00973 ± 0.00037	$\ell_{\rm eq}$	137.3 ± 3.9
ℓ_*	$302.37^{+0.76}_{-0.77}$	n_s	0.964 ± 0.013
Ω_b	0.0463 ± 0.0024	$\Omega_b h^2$	0.02259 ± 0.00056
Ω_c	$0.227^{+0.014}_{-0.015}$	$\Omega_c h^2$	0.1107 ± 0.0051
Ω_k	$-0.0023^{+0.0054}_{-0.0056}$	Ω_k	$-0.0133 < \Omega_k < 0.0084$ (95% CL)
Ω_Λ	$0.729^{+0.017}_{-0.016}$	Ω_m	0.273 ± 0.016
$\Omega_m h^2$	0.1333 ± 0.0051	$\Omega_{\rm tot}$	$1.0023^{+0.0056}_{-0.0054}$
$\Omega_{\rm tot}$	$0.99 < \Omega_{\rm tot} < 1.01$ (95% CL)	$r_{\rm hor}(z_{\rm dec})$	285.6 ± 2.8 Mpc
$r_s(z_d)$	153.2 ± 1.6 Mpc	$r_s(z_d)/D_v(z = 0.2)$	0.1894 ± 0.0043
$r_s(z_d)/D_v(z = 0.35)$	0.1137 ± 0.0024	$r_s(z_*)$	146.7 ± 1.4 Mpc
R	1.718 ± 0.017	σ_8	0.800 ± 0.030
$A_{\rm SZ}$	1.00 ± 1.00	t_0	$13.86^{+0.26}_{-0.25}$ Gyr
τ	0.089 ± 0.015	θ_*	0.010390 ± 0.000026
θ_*	0.5953 ± 0.0015 °	t_*	379311^{+4738}_{-4772} yr
$z_{\rm dec}$	1088.1 ± 1.1	z_d	1020.3 ± 1.4
$z_{\rm eq}$	3192^{+121}_{-122}	$z_{\rm reion}$	10.5 ± 1.2
z_*	$1090.77^{+0.86}_{-0.89}$		

WMAP Cosmological Parameters

Model: olcdm+sz+lens

Data: wmap7+bao+snsalt

$10^2\Omega_b h^2$	2.250 ± 0.056	$1 - n_s$	0.038 ± 0.013
$1 - n_s$	$0.012 < 1 - n_s < 0.063$ (95% CL)	$A_{\rm BAO}(z = 0.35)$	0.475 ± 0.011
C_{220}	5765 ± 40	$d_A(z_{\rm eq})$	14312^{+149}_{-150} Mpc
$d_A(z_*)$	14153^{+154}_{-153} Mpc	$\Delta^2_{\mathcal{R}}$	$(2.43 \pm 0.10) \times 10^{-9}$
h	0.685 ± 0.020	H_0	68.5 ± 2.0 km/s/Mpc
$k_{\rm eq}$	$0.00965^{+0.00037}_{-0.00036}$	$\ell_{\rm eq}$	136.6 ± 3.8
ℓ_*	$302.46^{+0.76}_{-0.75}$	n_s	0.962 ± 0.013
Ω_b	$0.0480^{+0.0027}_{-0.0028}$	$\Omega_b h^2$	0.02250 ± 0.00056
Ω_c	0.234 ± 0.014	$\Omega_c h^2$	$0.1097^{+0.0049}_{-0.0050}$
Ω_k	$-0.0053^{+0.0061}_{-0.0060}$	Ω_k	$-0.0176 < \Omega_k < 0.0063$ (95% CL)
Ω_Λ	$0.723^{+0.016}_{-0.015}$	Ω_m	0.282 ± 0.016
$\Omega_m h^2$	$0.1322^{+0.0050}_{-0.0049}$	$\Omega_{\rm tot}$	$1.0053^{+0.0060}_{-0.0061}$
$\Omega_{\rm tot}$	$0.99 < \Omega_{\rm tot} < 1.02$ (95% CL)	$r_{\rm hor}(z_{\rm dec})$	286.1 ± 2.7 Mpc
$r_s(z_d)$	153.6 ± 1.6 Mpc	$r_s(z_d)/D_v(z = 0.2)$	0.1865 ± 0.0045
$r_s(z_d)/D_v(z = 0.35)$	0.1121 ± 0.0025	$r_s(z_*)$	147.0 ± 1.4 Mpc
R	$1.716^{+0.017}_{-0.016}$	σ_8	0.793 ± 0.030
$A_{\rm SZ}$	$1.00^{+0.68}_{-1.00}$	t_0	14.03 ± 0.30 Gyr
τ	0.089 ± 0.015	θ_*	0.010387 ± 0.000026
θ_*	0.5951 ± 0.0015 °	t_*	380216^{+4640}_{-4646} yr
$z_{\rm dec}$	1088.1 ± 1.1	z_d	1020.0 ± 1.4
$z_{\rm eq}$	3167^{+120}_{-119}	$z_{\rm reion}$	10.5 ± 1.2
z_*	$1090.79^{+0.84}_{-0.88}$		

WMAP Cosmological Parameters

Model: olcdm+sz+lens

Data: wmap7+bao+snconst

$10^2\Omega_b h^2$	$2.247^{+0.056}_{-0.055}$	$1-n_s$	0.039 ± 0.013
$1-n_s$	$0.013 < 1-n_s < 0.064$ (95% CL)	$A_{\rm BAO}(z=0.35)$	$0.4782^{+0.0102}_{-0.0098}$
C_{220}	5764 ± 40	$d_A(z_{\rm eq})$	14299 ± 145 Mpc
$d_A(z_*)$	14139 ± 150 Mpc	$\Delta^2_{\mathcal{R}}$	$(2.44 \pm 0.10) \times 10^{-9}$
h	0.681 ± 0.019	H_0	68.1 ± 1.9 km/s/Mpc
$k_{\rm eq}$	0.00970 ± 0.00036	$\ell_{\rm eq}$	$137.1^{+3.8}_{-3.7}$
ℓ_*	$302.48^{+0.76}_{-0.75}$	n_s	0.961 ± 0.013
Ω_b	$0.0485^{+0.0026}_{-0.0027}$	$\Omega_b h^2$	$0.02247^{+0.00056}_{-0.00055}$
Ω_c	0.238 ± 0.013	$\Omega_c h^2$	$0.1103^{+0.0049}_{-0.0048}$
Ω_k	$-0.0056^{+0.0061}_{-0.0062}$	Ω_k	$-0.0178 < \Omega_k < 0.0063$ (95% CL)
Ω_Λ	0.719 ± 0.014	Ω_m	$0.287^{+0.015}_{-0.014}$
$\Omega_m h^2$	0.1328 ± 0.0049	$\Omega_{\rm tot}$	$1.0056^{+0.0062}_{-0.0061}$
$\Omega_{\rm tot}$	$0.99 < \Omega_{\rm tot} < 1.02$ (95% CL)	$r_{\rm hor}(z_{\rm dec})$	285.8 ± 2.6 Mpc
$r_s(z_d)$	153.5 ± 1.6 Mpc	$r_s(z_d)/D_v(z=0.2)$	0.1854 ± 0.0041
$r_s(z_d)/D_v(z=0.35)$	0.1115 ± 0.0023	$r_s(z_*)$	146.8 ± 1.4 Mpc
R	1.718 ± 0.016	σ_8	$0.796^{+0.029}_{-0.030}$
$A_{\rm SZ}$	$1.00^{+0.68}_{-0.99}$	t_0	$14.05^{+0.29}_{-0.30}$ Gyr
τ	$0.088^{+0.015}_{-0.014}$	θ_*	0.010386 ± 0.000026
θ_*	0.5951 ± 0.0015 °	t_*	379627^{+4510}_{-4538} yr
$z_{\rm dec}$	1088.2 ± 1.1	z_d	1020.0 ± 1.4
$z_{\rm eq}$	3181 ± 117	$z_{\rm reion}$	10.5 ± 1.2
z_*	$1090.88^{+0.83}_{-0.85}$		

WMAP Cosmological Parameters

Model: wcdm+sz+lens

Data: wmap7

$10^2\Omega_b h^2$	$2.258^{+0.063}_{-0.062}$	$1-n_s$	0.036 ± 0.015
$1-n_s$	$0.0044 < 1-n_s < 0.0656$ (95% CL)	$1+w$	$-0.12^{+0.42}_{-0.43}$
$1+w$	$-0.86 < 1+w < 0.59$ (95% CL)	$A_{\rm BAO}(z=0.35)$	$0.460^{+0.042}_{-0.040}$
C_{220}	5763 ± 41	$d_A(z_{\rm eq})$	14272^{+158}_{-163} Mpc
$d_A(z_*)$	14108^{+160}_{-164} Mpc	$\Delta^2_{\mathcal{R}}$	$(2.43 \pm 0.12) \times 10^{-9}$
h	$0.75^{+0.15}_{-0.14}$	H_0	75^{+15}_{-14} km/s/Mpc
$k_{\rm eq}$	$0.00977^{+0.00042}_{-0.00041}$	$\ell_{\rm eq}$	$137.7^{+4.4}_{-4.5}$
ℓ_*	302.44 ± 0.81	n_s	0.964 ± 0.015
Ω_b	$0.044^{+0.017}_{-0.022}$	$\Omega_b h^2$	$0.02258^{+0.00063}_{-0.00062}$
Ω_c	$0.215^{+0.082}_{-0.078}$	$\Omega_c h^2$	0.1112 ± 0.0058
Ω_Λ	$0.741^{+0.095}_{-0.099}$	Ω_m	$0.259^{+0.099}_{-0.095}$
$\Omega_m h^2$	$0.1338^{+0.0058}_{-0.0057}$	$r_{\rm hor}(z_{\rm dec})$	$285.3^{+3.0}_{-3.2}$ Mpc
$r_s(z_d)$	153.1 ± 1.7 Mpc	$r_s(z_d)/D_v(z=0.2)$	$0.197^{+0.024}_{-0.025}$
$r_s(z_d)/D_v(z=0.35)$	$0.1167^{+0.0097}_{-0.0103}$	$r_s(z_*)$	$146.5^{+1.5}_{-1.6}$ Mpc
R	$1.720^{+0.019}_{-0.020}$	σ_8	0.83 ± 0.14
$A_{\rm SZ}$	$0.96^{+0.68}_{-0.66}$	t_0	$13.75^{+0.29}_{-0.27}$ Gyr
τ	$0.088^{+0.016}_{-0.015}$	θ_*	0.010387 ± 0.000028
θ_*	0.5952 ± 0.0016 °	t_*	378854^{+5382}_{-5372} yr
w	$-1.12^{+0.42}_{-0.43}$	$z_{\rm dec}$	1088.2 ± 1.2
z_d	1020.3 ± 1.4	$z_{\rm eq}$	3204^{+138}_{-135}
$z_{\rm reion}$	10.5 ± 1.2	z_*	$1090.8^{+1.0}_{-1.1}$

WMAP Cosmological Parameters

Model: wcdm+sz+lens

Data: wmap7.2

$10^2\Omega_b h^2$	2.248 ± 0.059	$1 - n_s$	0.033 ± 0.015
$1 - n_s$	$0.00015 < 1 - n_s < 0.06134$ (95% CL)	$1 + w$	$-0.10^{+0.44}_{-0.45}$
$1 + w$	$-0.83 < 1 + w < 0.64$ (95% CL)	$A_{\rm BAO}(z = 0.35)$	$0.467^{+0.044}_{-0.042}$
$d_A(z_{\rm eq})$	14253^{+158}_{-159} Mpc	$d_A(z_*)$	14088^{+160}_{-161} Mpc
$\Delta^2_{\mathcal{R}}$	$(2.43 \pm 0.12) \times 10^{-9}$	h	$0.74^{+0.16}_{-0.15}$
H_0	74^{+16}_{-15} km/s/Mpc	$k_{\rm eq}$	0.00985 ± 0.00041
$\ell_{\rm eq}$	138.7 ± 4.4	ℓ_*	302.55 ± 0.79
n_s	0.967 ± 0.015	Ω_b	0.045 ± 0.018
$\Omega_b h^2$	0.02248 ± 0.00059	Ω_c	$0.226^{+0.090}_{-0.086}$
$\Omega_c h^2$	0.1124 ± 0.0057	Ω_Λ	$0.73^{+0.10}_{-0.11}$
Ω_m	$0.27^{+0.11}_{-0.10}$	$\Omega_m h^2$	0.1349 ± 0.0057
$r_s(z_d)$	152.9 ± 1.7 Mpc	$r_s(z_d)/D_v(z = 0.2)$	0.195 ± 0.025
$r_s(z_d)/D_v(z = 0.35)$	$0.115^{+0.010}_{-0.011}$	$r_s(z_*)$	146.3 ± 1.5 Mpc
R	1.725 ± 0.019	$A_{\rm SZ}$	$0.99^{+1.01}_{-0.98}$
τ	0.088 ± 0.015	θ_*	0.010384 ± 0.000027
θ_*	$0.5950^{+0.0015}_{-0.0016}$ °	t_*	377732^{+5281}_{-5262} yr
w	$-1.10^{+0.44}_{-0.45}$	z_d	1020.2 ± 1.4
$z_{\rm eq}$	3231 ± 136	z_*	$1091.06^{+0.99}_{-1.00}$

WMAP Cosmological Parameters

Model: wcdm+sz+lens

Data: wmap7+bao+h0

$10^2\Omega_b h^2$	2.246 ± 0.058	$1 - n_s$	$0.041^{+0.015}_{-0.014}$
$1 - n_s$	$0.012 < 1 - n_s < 0.068$ (95% CL)	$1 + w$	-0.10 ± 0.14
$1 + w$	$-0.39 < 1 + w < 0.15$ (95% CL)	$A_{\rm BAO}(z = 0.35)$	0.471 ± 0.012
C_{220}	5755 ± 40	$d_A(z_{\rm eq})$	14188 ± 144 Mpc
$d_A(z_*)$	14022 ± 146 Mpc	$\Delta^2_{\mathcal{R}}$	$(2.49 \pm 0.12) \times 10^{-9}$
h	$0.720^{+0.027}_{-0.028}$	H_0	$72.0^{+2.7}_{-2.8}$ km/s/Mpc
$k_{\rm eq}$	$0.01004^{+0.00038}_{-0.00037}$	$\ell_{\rm eq}$	140.7 ± 4.0
ℓ_*	$302.54^{+0.78}_{-0.79}$	n_s	$0.959^{+0.014}_{-0.015}$
Ω_b	$0.0435^{+0.0036}_{-0.0037}$	$\Omega_b h^2$	0.02246 ± 0.00058
Ω_c	$0.222^{+0.015}_{-0.016}$	$\Omega_c h^2$	$0.1150^{+0.0053}_{-0.0052}$
Ω_Λ	$0.734^{+0.019}_{-0.018}$	Ω_m	$0.266^{+0.018}_{-0.019}$
$\Omega_m h^2$	$0.1374^{+0.0052}_{-0.0051}$	$r_{\rm hor}(z_{\rm dec})$	$283.3^{+2.7}_{-2.8}$ Mpc
$r_s(z_d)$	152.1 ± 1.5 Mpc	$r_s(z_d)/D_v(z = 0.2)$	$0.1914^{+0.0043}_{-0.0042}$
$r_s(z_d)/D_v(z = 0.35)$	0.1142 ± 0.0021	$r_s(z_*)$	145.6 ± 1.4 Mpc
R	1.733 ± 0.018	σ_8	0.846 ± 0.059
$A_{\rm SZ}$	$0.92^{+0.69}_{-0.92}$	t_0	13.74 ± 0.11 Gyr
τ	0.086 ± 0.014	θ_*	0.010384 ± 0.000027
θ_*	0.5950 ± 0.0015 °	t_*	375369^{+4704}_{-4792} yr
w	-1.10 ± 0.14	$z_{\rm dec}$	1088.5 ± 1.2
z_d	$1020.4^{+1.3}_{-1.4}$	$z_{\rm eq}$	3292^{+125}_{-123}
$z_{\rm reion}$	$10.4^{+1.1}_{-1.2}$	z_*	$1091.31^{+0.98}_{-0.97}$

WMAP Cosmological Parameters

Model: wcdm+sz+lens

Data: wmap7+snconst

$10^2\Omega_b h^2$	2.258 ± 0.057	$1 - n_s$	0.037 ± 0.014
$1 - n_s$	$0.0081 < 1 - n_s < 0.0639$ (95% CL)	$1 + w$	$0.031^{+0.053}_{-0.054}$
$1 + w$	$-0.081 < 1 + w < 0.131$ (95% CL)	$A_{\rm BAO}(z = 0.35)$	0.468 ± 0.016
C_{220}	5762 ± 38	$d_A(z_{\rm eq})$	14276^{+155}_{-153} Mpc
$d_A(z_*)$	14111^{+157}_{-156} Mpc	$\Delta^2_{\mathcal{R}}$	$(2.43 \pm 0.11) \times 10^{-9}$
h	0.697 ± 0.016	H_0	69.7 ± 1.6 km/s/Mpc
$k_{\rm eq}$	0.00975 ± 0.00041	$\ell_{\rm eq}$	137.6 ± 4.3
ℓ_*	302.43 ± 0.78	n_s	0.963 ± 0.014
Ω_b	0.0465 ± 0.0018	$\Omega_b h^2$	0.02258 ± 0.00057
Ω_c	$0.229^{+0.018}_{-0.019}$	$\Omega_c h^2$	0.1110 ± 0.0056
Ω_Λ	0.724 ± 0.020	Ω_m	0.276 ± 0.020
$\Omega_m h^2$	0.1336 ± 0.0056	$r_{\rm hor}(z_{\rm dec})$	285.4 ± 3.0 Mpc
$r_s(z_d)$	$153.2^{+1.7}_{-1.6}$ Mpc	$r_s(z_d)/D_v(z = 0.2)$	$0.1897^{+0.0047}_{-0.0048}$
$r_s(z_d)/D_v(z = 0.35)$	0.1141 ± 0.0027	$r_s(z_*)$	146.6 ± 1.5 Mpc
R	1.720 ± 0.019	σ_8	0.791 ± 0.042
$A_{\rm SZ}$	$0.98^{+0.68}_{-0.98}$	t_0	13.77 ± 0.12 Gyr
τ	0.088 ± 0.014	θ_*	0.010388 ± 0.000027
θ_*	0.5952 ± 0.0015 °	t_*	379006^{+5225}_{-5195} yr
w	$-0.969^{+0.053}_{-0.054}$	$z_{\rm dec}$	$1088.2^{+1.1}_{-1.2}$
z_d	$1020.3^{+1.4}_{-1.3}$	$z_{\rm eq}$	3200 ± 133
$z_{\rm reion}$	$10.5^{+1.1}_{-1.2}$	z_*	1090.81 ± 0.96

WMAP Cosmological Parameters

Model: wcdm+sz+lens

Data: wmap7+bao+snconst

$10^2\Omega_b h^2$	2.250 ± 0.055	$1 - n_s$	0.039 ± 0.013
$1 - n_s$	$0.013 < 1 - n_s < 0.065$ (95% CL)	$1 + w$	0.020 ± 0.053
$1 + w$	$-0.089 < 1 + w < 0.120$ (95% CL)	$A_{\rm BAO}(z = 0.35)$	0.473 ± 0.012
C_{220}	5758 ± 38	$d_A(z_{\rm eq})$	14240^{+141}_{-140} Mpc
$d_A(z_*)$	14075^{+143}_{-141} Mpc	$\Delta^2_{\mathcal{R}}$	$(2.45 \pm 0.10) \times 10^{-9}$
h	0.693 ± 0.013	H_0	69.3 ± 1.3 km/s/Mpc
$k_{\rm eq}$	0.00988 ± 0.00033	$\ell_{\rm eq}$	$139.0^{+3.5}_{-3.4}$
ℓ_*	302.51 ± 0.76	n_s	0.961 ± 0.013
Ω_b	0.0469 ± 0.0016	$\Omega_b h^2$	0.02250 ± 0.00055
Ω_c	0.235 ± 0.014	$\Omega_c h^2$	0.1127 ± 0.0045
Ω_Λ	0.718 ± 0.015	Ω_m	0.282 ± 0.015
$\Omega_m h^2$	0.1353 ± 0.0045	$r_{\rm hor}(z_{\rm dec})$	284.5 ± 2.4 Mpc
$r_s(z_d)$	$152.7^{+1.4}_{-1.5}$ Mpc	$r_s(z_d)/D_v(z = 0.2)$	$0.1881^{+0.0035}_{-0.0034}$
$r_s(z_d)/D_v(z = 0.35)$	0.1132 ± 0.0020	$r_s(z_*)$	146.2 ± 1.3 Mpc
R	1.726 ± 0.015	σ_8	0.802 ± 0.038
$A_{\rm SZ}$	$0.95^{+0.68}_{-0.95}$	t_0	13.79 ± 0.11 Gyr
τ	0.086 ± 0.014	θ_*	0.010385 ± 0.000026
θ_*	0.5950 ± 0.0015 °	t_*	377384^{+4137}_{-4171} yr
w	-0.980 ± 0.053	$z_{\rm dec}$	1088.4 ± 1.1
z_d	1020.3 ± 1.3	$z_{\rm eq}$	3240^{+109}_{-108}
$z_{\rm reion}$	$10.4^{+1.1}_{-1.2}$	z_*	$1091.05^{+0.84}_{-0.83}$

WMAP Cosmological Parameters

Model: wcdm+sz+lens

Data: wmap7+bao+h0+tdel

$10^2\Omega_b h^2$	2.245 ± 0.057	$1 - n_s$	0.041 ± 0.014
$1 - n_s$	$0.013 < 1 - n_s < 0.069$ (95% CL)	$1 + w$	-0.08 ± 0.13
$1 + w$	$-0.38 < 1 + w < 0.16$ (95% CL)	$A_{\rm BAO}(z = 0.35)$	0.472 ± 0.011
C_{220}	5753^{+39}_{-40}	$d_A(z_{\rm eq})$	14190^{+146}_{-149} Mpc
$d_A(z_*)$	14024^{+148}_{-151} Mpc	$\Delta^2_{\mathcal{R}}$	$(2.49 \pm 0.12) \times 10^{-9}$
h	$0.715^{+0.026}_{-0.025}$	H_0	$71.5^{+2.6}_{-2.5}$ km/s/Mpc
$k_{\rm eq}$	0.01003 ± 0.00039	$\ell_{\rm eq}$	$140.7^{+4.2}_{-4.0}$
ℓ_*	$302.55^{+0.79}_{-0.78}$	n_s	0.959 ± 0.014
Ω_b	0.0442 ± 0.0035	$\Omega_b h^2$	0.02245 ± 0.00057
Ω_c	0.226 ± 0.015	$\Omega_c h^2$	$0.1150^{+0.0055}_{-0.0053}$
Ω_Λ	0.730 ± 0.017	Ω_m	0.270 ± 0.017
$\Omega_m h^2$	$0.1374^{+0.0054}_{-0.0053}$	$r_{\rm hor}(z_{\rm dec})$	$283.3^{+2.8}_{-2.9}$ Mpc
$r_s(z_d)$	$152.2^{+1.5}_{-1.6}$ Mpc	$r_s(z_d)/D_v(z = 0.2)$	0.1905 ± 0.0039
$r_s(z_d)/D_v(z = 0.35)$	0.1138 ± 0.0019	$r_s(z_*)$	145.6 ± 1.4 Mpc
R	1.733 ± 0.018	σ_8	$0.841^{+0.060}_{-0.059}$
$A_{\rm SZ}$	$0.93^{+0.68}_{-0.93}$	t_0	13.75 ± 0.11 Gyr
τ	0.086 ± 0.014	θ_*	0.010384 ± 0.000027
θ_*	0.5950 ± 0.0015 °	t_*	375393^{+4820}_{-4959} yr
w	-1.08 ± 0.13	$z_{\rm dec}$	1088.6 ± 1.2
z_d	1020.4 ± 1.3	$z_{\rm eq}$	3291^{+129}_{-126}
$z_{\rm reion}$	10.4 ± 1.2	z_*	$1091.32^{+0.94}_{-0.96}$

WMAP Cosmological Parameters

Model: wcdm+sz+lens

Data: wmap7.2+h0

$10^2\Omega_b h^2$	2.245 ± 0.057	$1 - n_s$	0.034 ± 0.014
$1 - n_s$	$0.0057 < 1 - n_s < 0.0616$ (95% CL)	$1 + w$	-0.12 ± 0.13
$1 + w$	$-0.41 < 1 + w < 0.13$ (95% CL)	$A_{\rm BAO}(z = 0.35)$	0.460 ± 0.017
$d_A(z_{\rm eq})$	14250 ± 158 Mpc	$d_A(z_*)$	14084 ± 160 Mpc
$\Delta^2_{\mathcal{R}}$	$(2.44 \pm 0.11) \times 10^{-9}$	h	0.740 ± 0.035
H_0	74.0 ± 3.5 km/s/Mpc	$k_{\rm eq}$	0.00987 ± 0.00041
$\ell_{\rm eq}$	138.9 ± 4.3	ℓ_*	302.56 ± 0.78
n_s	0.966 ± 0.014	Ω_b	0.0413 ± 0.0041
$\Omega_b h^2$	0.02245 ± 0.00057	Ω_c	0.207 ± 0.022
$\Omega_c h^2$	0.1127 ± 0.0056	Ω_Λ	0.752 ± 0.026
Ω_m	0.248 ± 0.026	$\Omega_m h^2$	0.1351 ± 0.0056
$r_s(z_d)$	152.8 ± 1.7 Mpc	$r_s(z_d)/D_v(z = 0.2)$	0.1962 ± 0.0068
$r_s(z_d)/D_v(z = 0.35)$	0.1165 ± 0.0033	$r_s(z_*)$	146.2 ± 1.5 Mpc
R	1.726 ± 0.019	$A_{\rm SZ}$	$0.99^{+0.68}_{-0.98}$
τ	0.088 ± 0.015	θ_*	0.010383 ± 0.000027
θ_*	0.5949 ± 0.0015 °	t_*	377500^{+5193}_{-5182} yr
w	-1.12 ± 0.13	z_d	1020.1 ± 1.4
$z_{\rm eq}$	3236 ± 134	z_*	$1091.12^{+0.96}_{-0.95}$

WMAP Cosmological Parameters

Model: owcdm+sz+lens

Data: wmap7

$10^2\Omega_b h^2$	$2.223^{+0.055}_{-0.056}$	$1-n_s$	$0.046^{+0.013}_{-0.015}$
$1-n_s$	$0.020 < 1-n_s < 0.074$ (95% CL)	$1+w$	< 1.0 (95% CL)
$A_{\rm BAO}(z=0.35)$	0.64 ± 0.12	C_{220}	5767 ± 37
$d_A(z_{\rm eq})$	14248^{+165}_{-166} Mpc	$d_A(z_*)$	14120^{+168}_{-166} Mpc
$\Delta^2_{\mathcal{R}}$	$(2.49^{+0.11}_{-0.12}) \times 10^{-9}$	h	$0.50^{+0.14}_{-0.13}$
H_0	50^{+14}_{-13} km/s/Mpc	$k_{\rm eq}$	0.00981 ± 0.00042
$\ell_{\rm eq}$	$138.5^{+4.4}_{-4.5}$	ℓ_*	$302.69^{+0.75}_{-0.81}$
n_s	$0.954^{+0.015}_{-0.013}$	Ω_b	$0.110^{+0.058}_{-0.055}$
$\Omega_b h^2$	$0.02223^{+0.00055}_{-0.00056}$	Ω_c	$0.56^{+0.30}_{-0.28}$
$\Omega_c h^2$	$0.1121^{+0.0058}_{-0.0057}$	Ω_k	$-0.102^{+0.085}_{-0.097}$
Ω_k	$-0.2764 < \Omega_k < 0.0045$ (95% CL)	Ω_Λ	< 0.80 (95% CL)
Ω_m	$0.67^{+0.36}_{-0.33}$	$\Omega_m h^2$	$0.1343^{+0.0058}_{-0.0057}$
$\Omega_{\rm tot}$	$1.102^{+0.097}_{-0.085}$	$\Omega_{\rm tot}$	$1.00 < \Omega_{\rm tot} < 1.28$ (95% CL)
$r_{\rm hor}(z_{\rm dec})$	$284.9^{+3.2}_{-3.1}$ Mpc	$r_s(z_d)$	$153.3^{+1.7}_{-1.8}$ Mpc
$r_s(z_d)/D_v(z=0.2)$	0.139 ± 0.030	$r_s(z_d)/D_v(z=0.35)$	0.086 ± 0.016
$r_s(z_*)$	146.6 ± 1.6 Mpc	R	$1.726^{+0.019}_{-0.020}$
σ_8	$0.75^{+0.11}_{-0.10}$	$A_{\rm SZ}$	$1.04^{+0.95}_{-0.68}$
t_0	$16.5^{+1.8}_{-1.7}$ Gyr	τ	$0.086^{+0.013}_{-0.014}$
θ_*	$0.010379^{+0.000028}_{-0.000026}$	θ_*	$0.5947^{+0.0016}_{-0.0015}$ ∘
t_*	378012^{+5393}_{-5389} yr	w	< 0.0 (95% CL)
$z_{\rm dec}$	$1088.7^{+1.1}_{-1.2}$	z_d	1019.6 ± 1.4
$z_{\rm eq}$	3218 ± 138	$z_{\rm reion}$	10.3 ± 1.1
z_*	$1091.36^{+0.94}_{-0.91}$		

WMAP Cosmological Parameters

Model: owcdm+sz+lens

Data: wmap7+bao+h0

$10^2\Omega_b h^2$	$2.229^{+0.055}_{-0.056}$	$1-n_s$	0.044 ± 0.014
$1-n_s$	$0.017 < 1-n_s < 0.070$ (95% CL)	$1+w$	-0.44 ± 0.27
$1+w$	$-1.00 < 1+w < 0.11$ (95% CL)	$A_{\rm BAO}(z=0.35)$	0.487 ± 0.015
C_{220}	5762 ± 39	$d_A(z_{\rm eq})$	14278^{+148}_{-150} Mpc
$d_A(z_*)$	14127^{+155}_{-153} Mpc	$\Delta^2_{\mathcal{R}}$	$(2.48 \pm 0.11) \times 10^{-9}$
h	0.734 ± 0.031	H_0	73.4 ± 3.1 km/s/Mpc
$k_{\rm eq}$	$0.00977^{+0.00038}_{-0.00039}$	$\ell_{\rm eq}$	$138.0^{+4.0}_{-4.1}$
ℓ_*	$302.61^{+0.77}_{-0.78}$	n_s	0.956 ± 0.014
Ω_b	0.0416 ± 0.0038	$\Omega_b h^2$	$0.02229^{+0.00055}_{-0.00056}$
Ω_c	0.208 ± 0.019	$\Omega_c h^2$	$0.1116^{+0.0052}_{-0.0053}$
Ω_k	$-0.0125^{+0.0064}_{-0.0067}$	Ω_k	$-0.0246 < \Omega_k < 0.0037$ (95% CL)
Ω_Λ	$0.763^{+0.026}_{-0.025}$	Ω_m	$0.249^{+0.022}_{-0.023}$
$\Omega_m h^2$	$0.1338^{+0.0052}_{-0.0054}$	$\Omega_{\rm tot}$	$1.0125^{+0.0067}_{-0.0064}$
$\Omega_{\rm tot}$	$1.00 < \Omega_{\rm tot} < 1.02$ (95% CL)	$r_{\rm hor}(z_{\rm dec})$	$285.2^{+2.9}_{-2.8}$ Mpc
$r_s(z_d)$	153.3 ± 1.6 Mpc	$r_s(z_d)/D_v(z=0.2)$	$0.1877^{+0.0044}_{-0.0045}$
$r_s(z_d)/D_v(z=0.35)$	$0.1098^{+0.0032}_{-0.0031}$	$r_s(z_*)$	$146.7^{+1.5}_{-1.4}$ Mpc
R	$1.723^{+0.017}_{-0.018}$	σ_8	$0.899^{+0.065}_{-0.063}$
$A_{\rm SZ}$	$0.98^{+0.68}_{-0.97}$	t_0	14.46 ± 0.41 Gyr
τ	0.087 ± 0.014	θ_*	$0.010382^{+0.000027}_{-0.000026}$
θ_*	0.5948 ± 0.0015 °	t_*	378533^{+4955}_{-4806} yr
w	-1.44 ± 0.27	$z_{\rm dec}$	1088.5 ± 1.2
z_d	$1019.7^{+1.4}_{-1.3}$	$z_{\rm eq}$	3206^{+124}_{-129}
$z_{\rm reion}$	10.4 ± 1.2	z_*	$1091.23^{+0.89}_{-0.88}$

WMAP Cosmological Parameters

Model: owcdm+sz+lens

Data: wmap7+bao+snconst

$10^2\Omega_b h^2$	$2.248^{+0.056}_{-0.057}$	$1-n_s$	0.039 ± 0.014
$1-n_s$	$0.012 < 1-n_s < 0.065$ (95% CL)	$1+w$	$0.001^{+0.057}_{-0.056}$
$1+w$	$-0.12 < 1+w < 0.11$ (95% CL)	$A_{\rm BAO}(z=0.35)$	$0.479^{+0.013}_{-0.014}$
C_{220}	5764^{+38}_{-39}	$d_A(z_{\rm eq})$	14297^{+157}_{-154} Mpc
$d_A(z_*)$	14138^{+160}_{-158} Mpc	$\Delta^2_{\mathcal{R}}$	$(2.44 \pm 0.11) \times 10^{-9}$
h	0.680 ± 0.019	H_0	68.0 ± 1.9 km/s/Mpc
$k_{\rm eq}$	0.00970 ± 0.00039	$\ell_{\rm eq}$	$137.1^{+4.1}_{-4.0}$
ℓ_*	$302.47^{+0.78}_{-0.79}$	n_s	0.961 ± 0.014
Ω_b	0.0488 ± 0.0027	$\Omega_b h^2$	$0.02248^{+0.00056}_{-0.00057}$
Ω_c	$0.239^{+0.014}_{-0.015}$	$\Omega_c h^2$	$0.1104^{+0.0054}_{-0.0052}$
Ω_k	$-0.0057^{+0.0067}_{-0.0068}$	Ω_k	$-0.0192 < \Omega_k < 0.0072$ (95% CL)
Ω_Λ	0.718 ± 0.015	Ω_m	$0.288^{+0.016}_{-0.017}$
$\Omega_m h^2$	$0.1329^{+0.0054}_{-0.0053}$	$\Omega_{\rm tot}$	$1.0057^{+0.0068}_{-0.0067}$
$\Omega_{\rm tot}$	$0.99 < \Omega_{\rm tot} < 1.02$ (95% CL)	$r_{\rm hor}(z_{\rm dec})$	$285.8^{+2.9}_{-3.0}$ Mpc
$r_s(z_d)$	153.5 ± 1.7 Mpc	$r_s(z_d)/D_v(z=0.2)$	0.1850 ± 0.0048
$r_s(z_d)/D_v(z=0.35)$	$0.1113^{+0.0029}_{-0.0028}$	$r_s(z_*)$	146.8 ± 1.5 Mpc
R	1.718 ± 0.018	σ_8	0.794 ± 0.038
$A_{\rm SZ}$	$1.01^{+0.99}_{-0.68}$	t_0	$14.05^{+0.32}_{-0.33}$ Gyr
τ	0.088 ± 0.015	θ_*	0.010386 ± 0.000027
θ_*	0.5951 ± 0.0015 °	t_*	379604^{+4871}_{-5041} yr
w	$-0.999^{+0.057}_{-0.056}$	$z_{\rm dec}$	$1088.2^{+1.1}_{-1.2}$
z_d	1020.0 ± 1.4	$z_{\rm eq}$	3182^{+129}_{-127}
$z_{\rm reion}$	10.5 ± 1.2	z_*	1090.88 ± 0.91

WMAP Cosmological Parameters

Model: owcdm+sz+lens

Data: wmap7+bao+h0+tdel

$10^2\Omega_b h^2$	2.234 ± 0.056	$1 - n_s$	0.043 ± 0.014
$1 - n_s$	$0.017 < 1 - n_s < 0.069$ (95% CL)	$1 + w$	-0.39 ± 0.25
$1 + w$	$-0.89 < 1 + w < 0.11$ (95% CL)	$A_{\rm BAO}(z = 0.35)$	0.483 ± 0.014
C_{220}	5762 ± 39	$d_A(z_{\rm eq})$	14269^{+149}_{-147} Mpc
$d_A(z_*)$	14116^{+153}_{-150} Mpc	$\Delta^2_{\mathcal{R}}$	$(2.48 \pm 0.11) \times 10^{-9}$
h	0.735 ± 0.031	H_0	73.5 ± 3.1 km/s/Mpc
$k_{\rm eq}$	0.00979 ± 0.00038	$\ell_{\rm eq}$	$138.2^{+3.9}_{-4.0}$
ℓ_*	$302.57^{+0.77}_{-0.76}$	n_s	0.957 ± 0.014
Ω_b	$0.0416^{+0.0037}_{-0.0038}$	$\Omega_b h^2$	0.02234 ± 0.00056
Ω_c	$0.208^{+0.018}_{-0.019}$	$\Omega_c h^2$	$0.1118^{+0.0051}_{-0.0052}$
Ω_k	$-0.0111^{+0.0060}_{-0.0063}$	Ω_k	$-0.0221 < \Omega_k < 0.0041$ (95% CL)
Ω_Λ	0.762 ± 0.025	Ω_m	0.249 ± 0.022
$\Omega_m h^2$	$0.1341^{+0.0051}_{-0.0052}$	$\Omega_{\rm tot}$	$1.0111^{+0.0063}_{-0.0060}$
$\Omega_{\rm tot}$	$1.00 < \Omega_{\rm tot} < 1.02$ (95% CL)	$r_{\rm hor}(z_{\rm dec})$	285.1 ± 2.8 Mpc
$r_s(z_d)$	153.2 ± 1.6 Mpc	$r_s(z_d)/D_v(z = 0.2)$	0.1889 ± 0.0040
$r_s(z_d)/D_v(z = 0.35)$	0.1107 ± 0.0027	$r_s(z_*)$	$146.6^{+1.5}_{-1.4}$ Mpc
R	1.724 ± 0.017	σ_8	$0.893^{+0.063}_{-0.062}$
$A_{\rm SZ}$	$0.98^{+0.68}_{-0.97}$	t_0	14.36 ± 0.38 Gyr
τ	0.087 ± 0.014	θ_*	0.010383 ± 0.000026
θ_*	0.5949 ± 0.0015 °	t_*	378338^{+4852}_{-4775} yr
w	-1.39 ± 0.25	$z_{\rm dec}$	$1088.5^{+1.1}_{-1.2}$
z_d	$1019.8^{+1.4}_{-1.3}$	$z_{\rm eq}$	3212^{+123}_{-126}
$z_{\rm reion}$	10.4 ± 1.2	z_*	1091.19 ± 0.88