shp-ind-shift: absolute difference surface concentration of BC – NH–pacific surface flux surface flux surface concentration surface concentration of BC - NH-pacific of SO2 - NH-pacific of SO4 - NH-pacific of SO2 - NH-pacific 1e-01 -1.5e+00 0.0e+00 -2.0e+00 -4e+00 -4.0e-06 -1e-01 -2e-0 -5e+00 -1.0e+0.1-8.0e-06 -3.0e+00 -6e+00 _1 2e+01 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 Year Year Year Year Year upwelling longwave flux at TOA – NH–pacific upwelling shortwave flux at TOA – NH–pacific net radiative flux at TOA – NH-pacific incident shortwave flux at TOA – NH–pacific upwelling clear-sky longway flux at TOA - NH-pacific 5.0e-02 0.0e+00 0.0e + 0.01.5e-02 -5.0e-02 5.0e-02 -5.0e-02 1.0e-02 -1.0e-01 0.0e + 002.5e-02 5 0e-03 큳 _1 0e_01 -1.5e-01 -2 5e-02 0.0e + 0.00.0e + 0.0e +-2.0e-01 -5.0e-03 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 Year Year Year Year dry deposition rate of BC – NH–pacific wet deposition rate of BC – NH–pacific clear-sky net radiative implied cloud response upwelling clear-sky shortway flux at TOA - NH-pacific flux at TOA - NH-pacific at TOA - NH-pacific rsutcs) 3e-01 -3e-02 2e-01 -2e-02 ∆ rlutcs + rsutcs rlutcs -1e-01 -4e-02 △ wetbc 0e+00 -5e-02 rsut -1e-01 -6e-02 -6e-02 -2e-01 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 Year Year Year Year Year total deposition rate of BC – NH–pacific dry deposition rate of SO2 – NH–pacific wet deposition rate of SO2 – NH–pacific dry deposition rate of SO4 – NH–pacific wet deposition rate of SO4 – NH-pacific -3.5e+00 $-1.6e \pm 0.0$ -1.0e+00 2.5e-01 -1.6e+00 -3.6e+00 0.0e+00 -1.6e+00 -2.5e-0 -3.6e + 0.0-1.8e+00 -5.0e-01 -1.8e+00 -3.0e+0.02000 2001 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 Year Year dryso2 + wetso2)/2 + (dryso4 + wetso4)/3total deposition rate Ice water path - NH-paciDimethyl sulphide (DMS) mole fraction cloud cover ambient aerosol optical thickness at 550nm - NH-pacific of S - NH-pacific percentage - NH-pacific -3.4e+00 2e-01 8 clivi $(kg m^{-2})$ _lom lom) smb 0.0e+0.0expression cltc 0e+00 ∆ od550aeı -3.4e+000e+00 -2.5e-01 -3.4e+00 -2e-02 -2e-0 -5 0e-01 20002001200220032004 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 Year Year Year Year Year load load of so4 - NH-pacific of bc - NH-pacific 2.5e-01 oadso4 $(kg m^{-2})$ loadbc (kg m⁻² -5e-01 0.0e+00-2.5e-01 -1e+00 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 Year