NH-pacific: absolute difference surface flux surface flux surface concentration surface concentration surface concentration of BC - shp-10p-red-1950 of SO2 - shp-10p-red-19! of BC - shp-10p-red-1950 of SO4 - shp-10p-red-195 of SO2 - shp-10p-red-195 _2e_01 -4e-01 20-01 0e+00 ∆ emibc -4e-01-6e-01 _5e_01 -1e-05 _1e_01 -2.0e+00 -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 upwelling longwave flux at TOA – shp-10p-red-195 upwelling shortwave flux at TOA – shp-10p-red-195 upwelling clear-sky longwav flux at TOA - shp-10p-red-1 incident shortwave flux at TOA – shp-10p-red-19! net radiative flux at TOA - shp-10p-red-195 5.0e-02 6e-02 5e-02 4e-02 4e-02 rlut + rsut 0e+00 2e-02 0.0e + 0.0e +00+00 -4e-02 -2 5e-02 -2e-02 -1e-0 _8e_02 -5.0e-02 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 dry deposition rate of BC – shp–10p–red–1950 clear-sky net radiative implied cloud response wet deposition rate upwelling clear-sky shortway flux at TOA - shp-10p-red-19 flux at TOA - shp-10p-red-19 at TOA - shp-10p-red-195 of BC - shp-10p-red-1950 rsutcs) 1e-01 2e-01 0e+00 rsutcs 4e-02 rlutcs 1e-01 ∆ rsutcs ∆ wetbc -1e-02 -1e-02 0e+00 0e+00 rsut -1e-01 -2e-02 -2e-02 -1e-01 (rlut + -4e-02 -3e-02 -2e-01 -3e-02 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 – shp–10p–red–1950 dry deposition rate of SO2 – shp–10p–red–19 wet deposition rate of SO2 – shp–10p–red–195 dry deposition rate of SO4 – shp–10p–red–195 wet deposition rate of SO4 – shp-10p-red-195 4e-0 -2e-01 -1e-01 2e-01 drybc + wetbc -2e-01 0e+00 -5.4e-01 4e_01 -3e-01 -2e-01-5.6e-01 -4e-01 -4e-01 -6e-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 $\frac{dyso2 + wetso2}{2 + (dyso4 + wetso4)/3}$ Ice water path - shp-10pDienethyl sulphide (DMS) mole fraction - sh total deposition rate cloud cover ambient aerosol optical of S - shp-10p-red-19 percentage - shp-10p-red-19 thickness at 550nm - shp-10p-red-1 -4.5e-01 % clivi $(kg m^{-2})$ _lom lom) smb cltc (2e-01 -5.0e-01 0.0e+00 2e-02 ∆ od550aeı expression 0e+00 -5.5e-01 -2.5e-01 0e+00 -2e-01 -5.0e-01 -6.0e-01 -2e-02 20002001200220032004 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 2000 2001 2002 2003 2004 Year Year Year Year Year load load of so4 - shp-10p-red-195 of bc - shp-10p-red-1950 4e-01 $loadso4 (kg m^{-2})$ loadbc (kg m $^{-2}$) 2e-01 -2e-01 0e+00 -3e-01-4e-01 -2e-01 -5e-01 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004