

## *Corrigendum to*

# **“Evaluation of black carbon estimations in global aerosol models” published in Atmos. Chem. Phys., 9, 9001-9026, 2009**

**D. Koch<sup>1,2</sup>, M. Schulz<sup>3</sup>, S. Kinne<sup>4</sup>, C. McNaughton<sup>10</sup>, J. R. Spackman<sup>9</sup>, Y. Balkanski<sup>3</sup>, S. Bauer<sup>1,2</sup>, T. Berntsen<sup>13</sup>, T. C. Bond<sup>6</sup>, O. Boucher<sup>14</sup>, M. Chin<sup>15</sup>, A. Clarke<sup>10</sup>, N. De Luca<sup>24</sup>, F. Dentener<sup>16</sup>, T. Diehl<sup>17</sup>, O. Dubovik<sup>14</sup>, R. Easter<sup>18</sup>, D. W. Fahey<sup>9</sup>, J. Feichter<sup>4</sup>, D. Fillmore<sup>22</sup>, S. Freitag<sup>10</sup>, S. Ghan<sup>18</sup>, P. Ginoux<sup>19</sup>, S. Gong<sup>20</sup>, L. Horowitz<sup>19</sup>, T. Iversen<sup>13,27</sup>, A. Kirkevåg<sup>27</sup>, Z. Klimont<sup>7</sup>, Y. Kondo<sup>11</sup>, M. Krol<sup>12</sup>, X. Liu<sup>23,18</sup>, R. Miller<sup>2</sup>, V. Montanaro<sup>24</sup>, N. Moteki<sup>11</sup>, G. Myhre<sup>13,28</sup>, J. E. Penner<sup>23</sup>, J. Perlwitz<sup>1,2</sup>, G. Pitari<sup>24</sup>, S. Reddy<sup>14</sup>, L. Sahu<sup>11</sup>, H. Sakamoto<sup>11</sup>, G. Schuster<sup>5</sup>, J. P. Schwarz<sup>9</sup>, Ø. Seland<sup>27</sup>, P. Stier<sup>25</sup>, N. Takegawa<sup>11</sup>, T. Takemura<sup>26</sup>, C. Textor<sup>3</sup>, J. A. van Aardenne<sup>8</sup>, and Y. Zhao<sup>21</sup>**

<sup>1</sup>Columbia University, New York, NY, USA

<sup>2</sup>NASA GISS, New York, NY, USA

<sup>3</sup>Laboratoire des Sciences du Climat et de l'Environnement, Gif-sur-Yvette, France

<sup>4</sup>Max-Planck-Institut für Meteorologie, Hamburg, Germany

<sup>5</sup>NASA Langley Research Center, Hampton, Virginia, USA

<sup>6</sup>University of Illinois at Urbana-Champaign, Urbana, IL, USA

<sup>7</sup>International Institute for Applied Systems Analysis, Laxenburg, Austria

<sup>8</sup>European Commission, Institute for Environment and Sustainability, Joint Research Centre, Ispra, Italy

<sup>9</sup>NOAA Earth System Research Laboratory, Chemical Sciences Division and Cooperative Institute for Research in Environmental Sciences, University of Colorado, Boulder, Colorado, USA

<sup>10</sup>University of Hawaii at Manoa, Honolulu, Hawaii, USA

<sup>11</sup>RCAST, University of Tokyo, Japan

<sup>12</sup>Meteorology and Air Quality, Wageningen University, Wageningen, The Netherlands

<sup>13</sup>University of Oslo, Oslo, Norway

<sup>14</sup>Université des Sciences et Technologies de Lille, CNRS, Villeneuve d'Ascq, France

<sup>15</sup>NASA Goddard Space Flight Center, Greenbelt, MD, USA

<sup>16</sup>EC, Joint Research Centre, Institute for Environment and Sustainability, Ispra, Italy

<sup>17</sup>University of Maryland Baltimore County, Baltimore, Maryland, USA

<sup>18</sup>Pacific Northwest National Laboratory, Richland, USA

<sup>19</sup>NOAA, Geophysical Fluid Dynamics Laboratory, Princeton, New Jersey, USA

<sup>20</sup>ARQM Meteorological Service Canada, Toronto, Canada

<sup>21</sup>University of California - Davis, CA, USA

<sup>22</sup>NCAR, Boulder, CO, USA

<sup>23</sup>University of Michigan, Ann Arbor, MI, USA

<sup>24</sup>Università degli Studi L'Aquila, Italy

<sup>25</sup>Atmospheric, Oceanic and Planetary Physics, University of Oxford, UK

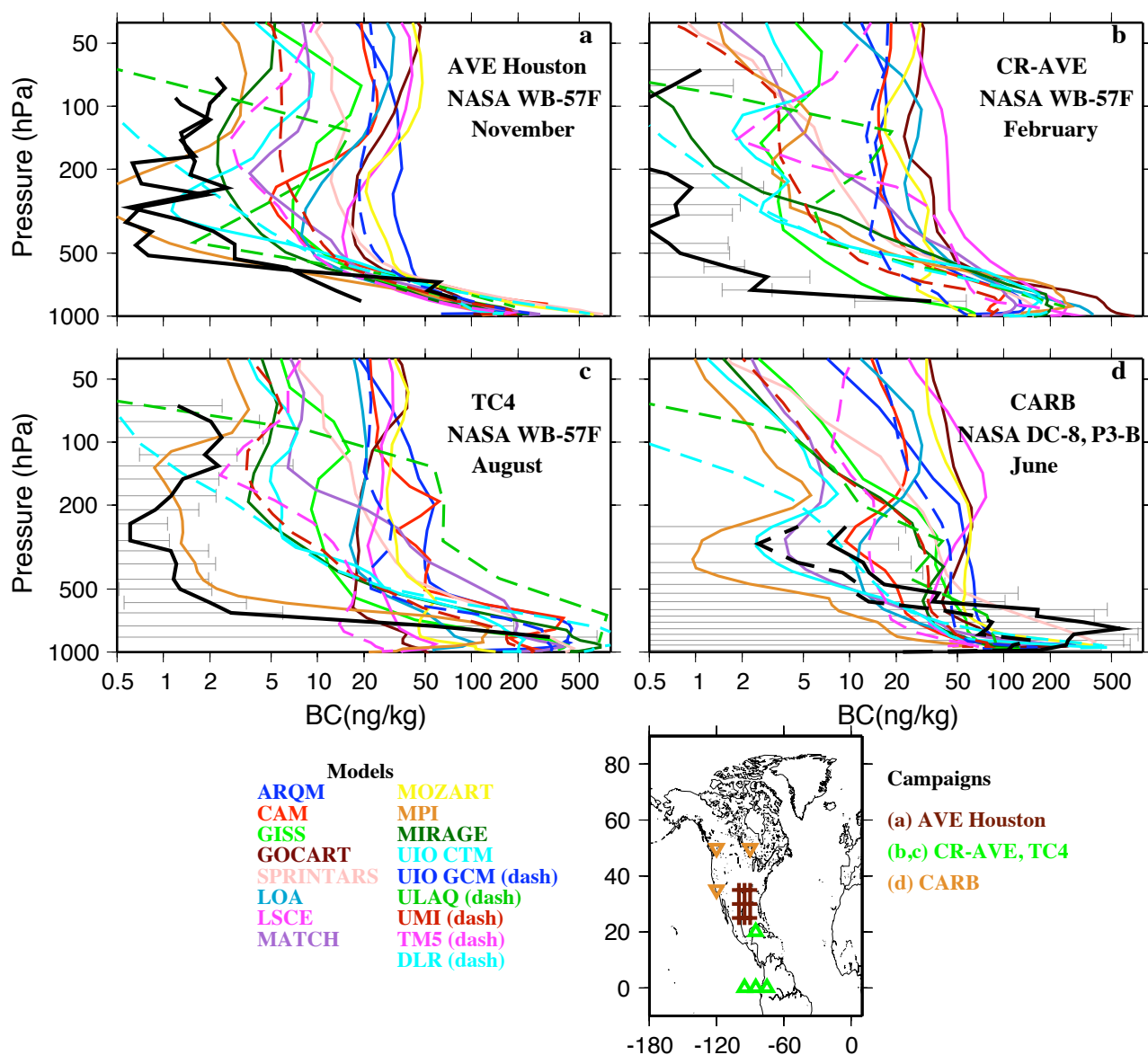
<sup>26</sup>Kyushu University, Fukuoka, Japan

<sup>27</sup>Norwegian Meteorological Institute, Oslo, Norway

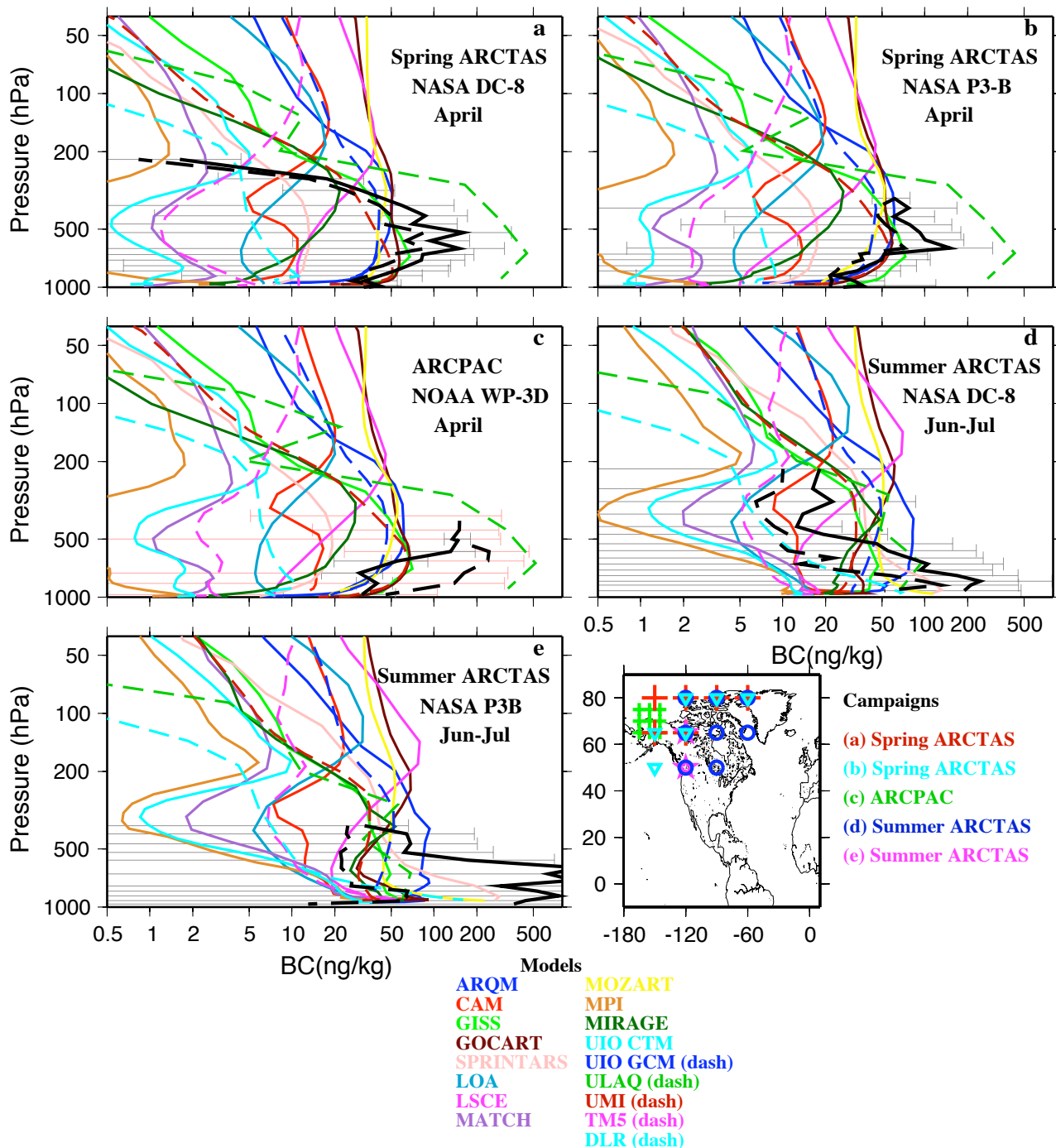
<sup>28</sup>Center for International Climate and Environmental Research - Oslo (CICERO), Oslo, Norway



Correspondence to: D. Koch  
(dkoch@giss.nasa.gov)



**Fig. 9.** Model profiles in approximate SP2 BC campaign locations in the tropics and midlatitudes, averaged over the points in the map (bottom). Observations (black curves) are average for the respective campaigns, with standard deviations where available. The Houston campaign has two profiles measured two different days. Mean (solid) and median (dashed) observed profiles are provided for (d). The markers in the map inset denote the location of model profiles in these comparisons with the aircraft measurements that are detailed in Table 7.



**Fig. 10.** Like Fig. 9 but for high latitude profiles. Mean (solid) and median (dashed) observed profiles are provided except for (c) the ARCPAC campaign has distinct profiles for the mean of the 4 flights that probed long-range biomass burning plumes (dashed) and mean for the 1 flight that sampled aged Arctic air (solid).