Errata UPDATED LIST DATED 20TH FEBRUARY 2014

**p. x:** Schertzer and Lovejoy 2011 reference is missing. This should be:

Schertzer, D. , S. Lovejoy (2011) Multifractals, Generalized Scale Invariance and Complexity in *Geophyics,* ***Inter. J. of Bifurcations and Chaos***, **21**, 3417–3456, DOI: 10.1142/S0218127411030647.

**p.xii:** whole final paragraph ‘DS thanks his students…’ etc. to ‘methodologies and paradigm changes.’, should appear in the Acknowledgments section on p.xiii.

**p. 2**: “…in accord with Richardson.”

Authors provide the additional note: “…in accord with Richardson. In section 2.6 and in appendix 6A we (re)analyse more modern diffusion data showing that it does indeed vindicate Richardson up to at least several thousand kilometres.”

**p.4, section title 1.2:** “resolution, revolution” should read “revolution resolution”.

**p.15, Figure 1.9d:** “low frequency weather” should read “macroweather”.

**p. 25, column 1, line 1:** “fig. 2.1” should read “fig. 2.2”.

**p. 26, column 1, above Eqn. 2.5:** “ *x* = λ*x*’ ” should read “*r* = λ*r*’ ”

**p.35, Eqn. 2.70:** This equation should read:



**p.36, Eqn. 2.79:** The upper limits  should read 

**p.37, Fig. 2.8:** figure label (right hand side) “k3” should read “k-3”

**p. 38, column 1, line 23**: “*P* ”should read “*p*”

**p.40, fig. 2.12:** two changes.

1) top labels, signs are wrong (exponents of 10). Should read “104, 103, 102, 101, 1, 101*”*

2) internal fig labels -5/3 and -2.4 should be interchanged. Swap these labels.

**p. 50, 3 lines above Eqn. 2.87:** “vector (*k* *(ũ* *(k*, *t)*” should read “vector (*k* *ũ* *(k*, *t)*”

**p.51, Eqn. 2.92:** The integral should read: 

**p.51, Eqn. 2.94:** The integral should read: 

**p.53, Eqn 2.98:** Eqn should read:



**p.53, 2 lines following Eqn 2.98**: text should read:

“(by spatial homogeneity, there is no *r*’ dependence). Introducing the inverse *d*-dimensional Fourier transform”

**p. 53, line above Eqn. 2.103:** “v(x)” should read “v(r)”

**p.53, Eqn. 2.103:** The equation should read:



**p.54, Eqn 2.107**: “p(k)” should read “P(k)”

**p.65, column 2, before 3.2.3:** “(i.e. *Dcor* ≈ 0.2)” should read “(i.e. *Ccor* ≈ 0.2)”

**p.71, Eqn. 3.9:** Eqn should read: 

**p.71, Eqn. 3.13:** Eqn should read: .

**p.85, column 1, bottom line:** “ 1/3 ” should read “1/2 ”

**p.94, 2 lines above Eqn. 4.18:** “Eqn 4.2” should read “Eqn 4.4”.

**p.100, column 1, line 16:** “see Table 4.7, below” should read “see Tables 4.5, 4.7”.

**p.119: column 2, 7th line from the bottom:** “Pr” should read “Pr”

**p.128, Eqn 5.47:** the subscripts should read: 

**p.136, Fig. 5.22**: Subscript label within figure should read “qD “

- ie, qD,V =7.7 should read qD,IR =7.7, qD,V =5.4 should read qD,DR =5.4

**p.137, below Eqn. 5.58:** “*x*” should read “*r*”.

**p.139, 3rd line from bottom:** “(*q*)=*D*(*q*-1)-*K*(*q*)” should read “(q)=*d*(*q*-1)-*K*(*q*)”.

**p.142: 2nd column, 3rd line:** “ <*eqγα* >”, the  should be subscript to ‘’: 

**p. 149, 4th paragraph** (unnumbered Eqn set apart): should read “ ”

**p. 154, Eqn 5.103:** The Equation should read: 

**p.154, 2 lines below Eqn 5.103:** “(technically, v” should read “(technically, xv”

**p.158, column 1, 14th line from bottom:** definition of quadratic Haar, third term: “3s(x-x/3)” should read “3s(x+x/3)”

**p.161, column 1, line 12:** “Eqn. (5.106)” should read “Eqn. (5.112)”

**p.161, column 2, 10 lines below eq. 5.114**: “*h(q)*=*H*” should read “*h(q)*=1+*H*”

**p.169, column 2, 19 lines from end: ** should read ****

**p.169, column 2, 9 lines from end**: In-line equation should read: “= g \* .”

**p.169, 8 lines from the end: ** should read ****

**p.176, Eqn 5.154** is missing absolute value sign on both right-hand terms:



**p.176, Eqn 5.159** delete extra spacing: “ -3*s*(*x*+2 *x*/3)” should read “-3*s*(*x*+2*x*/3)”

**p.186, column 2 above Eqn. 6.11:** should read “*f* obeys a scalar advection equation”

**p.209, Fig. 6.17:** vertical axes and labels appear within graph area (figure fault).

**p.216, bottom line in box:** “Hz 2, 3” should read “Hz =2, 3”.

**p.217, Eqn. 6.55:** Equation should read: 

**p.217, Eqn. 6.58:** Eqn should read: .

**p.225, above Eqn. 6.83: “** *V* = *X*” should read “”

**p.235, Eqn. 7.43:** “ a2” should read “a2 **1**”

- Eqn should show as follows: **

**p.238, Fig 7.5 end of caption:** “a = 1.6” should read “= 1.6”

**p. 256, Eqn. 7.82:** The integral should read: 

**p.316, 6 lines below Eqn. 9.17:** “Eqn 9.14” should read “Eqn. 9.17”.

**Same notation corrections:**

p.317, Eqn 9.23: i should read -i

p.Eqn  i should read -i

p.Eqn 9.53: i should read -i

p., Eqn 9.55: i’ should read -i’

**p.321, column 2, line 7:** “1.5/10-6” should be “0.5x10-6”.

**p.322, Eqn 9.41:** “*H*” superscript should be “*Ht*”.

**p.323, Table 9.1, right column, 3rd eqn:** the exponent “5/2-H” should be “5/2-H/Ht”

**Also, in right column**, second line from the bottom:

 should read 

**p.323, Eqn 9.46:**  should read 

**p.323: 3 lines & and 4 lines below Eqn. 9.42:** “*H*” should be “*Ht*”

**p.323, Eqn. 9.43:** “*H*” superscript should be “*Ht*”

**p.323, Eqn. 9.44:** both “*H*” superscripts should be “*Ht*”

**p.323, 3 lines below Eqn 9.44:** “*H*/*H*” should be “*H*/*Ht*”

**p.323, column 2, 11th line from bottom:** “H =2/3” should be “Ht =2/3”.

**p.336, Eqn 9.72:** all H’s should be italicised.

**p.337, section title 10.1.1:** should read “climate as an emergent scaling process”

**p.373, Eqn 10.55:** should read: 

**p. 399, Table 11.4:** “18O from Vostok” should read “D from Vostok” in two rows.

**p. 410, Table 11.7, Outer scale column**: second row should read “20 – 40 years”

- For columns H, C1,  , values of Macroweather should appear as same for weather and climate rows. Ie, repeat values 0.7 (H), 0.1 (C1), 1.4 () in blank rows above and below current values.

**p.416, column 2, 10 lines below Eqn 11.12: “**Eqn. (11.11)” should be “Eqn. (11.12)”.

**p.416: column 2, 4 lines up from end:** **“**Eqn. (11.11)” should be “Eqn. (11.12)”.

**p.438, Radelescu reference, 3rd line:** “In In” should read “In”.

**Index:** Entry for ‘macroweather’ should appear in the index, as follows:

* macroweather, *4, 5, 13-16, 153, 157, 175, 275.. 281. 284, 286-288, 294, 309, 313, 337-382, 384, 388, 393, 396, 401, 407-411, 418-421, 424-426.*