SUPPLEMENTARY MATERIAL

The supplementary material consists of the complete list of references used to calculate the percentages of each sedimentary structure (Table 1).

Additional analysis on unidirectional cross-strata revealed a slight difference between tabular cross-strata and trough cross-strata. The result is presented in Table 2.

Finally, the authors found that inverse grading is a structure diagnostic of river processes, but the number of papers referencing it is very limited. For this reason this structure is shown in the supplementary material only (Table 3).

Table 1: Complete list of references used to calculate the percentages of each sedimentary structure.

|  |  |  |
| --- | --- | --- |
| **Sedimentary Structures** | **Number of data** | **References** |
| Symmetrical ripples | w = 27  t = -  r = - | [Clifton (1976)](#_ENREF_21); [De Raaf et al. (1977)](#_ENREF_34); [Homewood and Allen (1981)](#_ENREF_45); [Clifton (1982)](#_ENREF_22); [Pulham (1989)](#_ENREF_84); [Bhattacharya and Walker (1991)](#_ENREF_10); [Willis et al. (1999)](#_ENREF_102); [Coates and MacEachern (2000)](#_ENREF_23); [Kirschbaum and Hettinger (2004)](#_ENREF_51); [McIlroy (2004)](#_ENREF_66); [Dumas et al. (2005)](#_ENREF_35); [Anastas et al. (2006)](#_ENREF_7); [Dumas and Arnott (2006)](#_ENREF_36); [Olariu and Bhattacharya (2006)](#_ENREF_74); [Gani and Bhattacharya (2007)](#_ENREF_40); [Plink-Björklund (2008)](#_ENREF_79); [Bhattacharya and MacEachern (2009)](#_ENREF_9); [Gani et al. (2009)](#_ENREF_41); [Ichaso and Dalrymple (2009)](#_ENREF_48); [Pontén and Plink-Björklund (2009)](#_ENREF_83); [MacEachern et al. (2010)](#_ENREF_62); [Plint (2010)](#_ENREF_81); [Olariu et al. (2012b)](#_ENREF_78); [Scasso et al. (2012)](#_ENREF_90); [Chen et al. (2014)](#_ENREF_17); [Hurd et al. (2014)](#_ENREF_47); [Ichaso and Dalrymple (2014)](#_ENREF_49) |
| Current ripples and  climbing ripples | w = 4  t = 19  r = 27 | [Jopling and Walker (1968)](#_ENREF_50); [Collinson (1970)](#_ENREF_26); [Clifton (1976)](#_ENREF_21); [De Raaf et al. (1977)](#_ENREF_34); [Dalrymple et al. (1978)](#_ENREF_29); [Allen (1980)](#_ENREF_5); [Homewood and Allen (1981)](#_ENREF_45); [Howard and Reineck (1981)](#_ENREF_46); [Clifton (1982)](#_ENREF_22); [Mutti et al. (1985)](#_ENREF_69); [Kreisa and Moiola (1986)](#_ENREF_52); [Rossi and Rogledi (1988)](#_ENREF_89); [Tessier and Gigot (1989)](#_ENREF_94); [Bhattacharya and Walker (1991)](#_ENREF_10); [Allen and Posamentier (1994)](#_ENREF_4); [Greb and Archer (1995)](#_ENREF_43); [De Boer (1998)](#_ENREF_31); [Gingras et al. (1998)](#_ENREF_42); [Willis et al. (1999)](#_ENREF_102); [Coates and MacEachern (2000)](#_ENREF_23); [Bhattacharya and Giosan (2003)](#_ENREF_8); [Kirschbaum and Hettinger (2004)](#_ENREF_51); [McIlroy (2004)](#_ENREF_66); [Dumas et al. (2005)](#_ENREF_35); [Olariu et al. (2005)](#_ENREF_75); [Dumas and Arnott (2006)](#_ENREF_36); [Olariu and Bhattacharya (2006)](#_ENREF_74); [Gani and Bhattacharya (2007)](#_ENREF_40); [Pontén and Plink-Björklund (2007)](#_ENREF_82); [Plink-Björklund (2008)](#_ENREF_79); [Bhattacharya and MacEachern (2009)](#_ENREF_9); [Gani et al. (2009)](#_ENREF_41); [Pontén and Plink-Björklund (2009)](#_ENREF_83); [Charvin et al. (2010)](#_ENREF_16); [Choi (2010)](#_ENREF_18); [Olariu et al. (2010)](#_ENREF_77); [Olariu et al. (2012a)](#_ENREF_76); [Olariu et al. (2012b)](#_ENREF_78); [Plink-Björklund (2012)](#_ENREF_80); [Scasso et al. (2012)](#_ENREF_90); [Chen et al. (2014)](#_ENREF_17); [Hurd et al. (2014)](#_ENREF_47); [Ichaso and Dalrymple (2014)](#_ENREF_49) |
| HCS and SCS | w = 22  t = -  r = 2 | [Bhattacharya and Walker (1991)](#_ENREF_10); [Greb and Archer (1995)](#_ENREF_43); [Coates and MacEachern (2000)](#_ENREF_23); [Mutti et al. (2000)](#_ENREF_71); [Willis and Gabel (2003)](#_ENREF_103); [Kirschbaum and Hettinger (2004)](#_ENREF_51); [Dumas et al. (2005)](#_ENREF_35); [Anastas et al. (2006)](#_ENREF_7); [Dumas and Arnott (2006)](#_ENREF_36); [Olariu and Bhattacharya (2006)](#_ENREF_74); [Gani and Bhattacharya (2007)](#_ENREF_40); [Plink-Björklund (2008)](#_ENREF_79); [Bhattacharya and MacEachern (2009)](#_ENREF_9); [Ichaso and Dalrymple (2009)](#_ENREF_48); [Pontén and Plink-Björklund (2009)](#_ENREF_83); [Charvin et al. (2010)](#_ENREF_16); [Plint (2010)](#_ENREF_81); [Plink-Björklund (2012)](#_ENREF_80); [Chen et al. (2014)](#_ENREF_17); [Hurd et al. (2014)](#_ENREF_47); [Ichaso and Dalrymple (2014)](#_ENREF_49) |
| Low-angle lamination | w = 11  t = 5  r = 5 | [Duncan Jr (1964)](#_ENREF_37); [Coleman and Wright (1975)](#_ENREF_25); [Boersma and Terwindt (1981)](#_ENREF_11); [Kreisa and Moiola (1986)](#_ENREF_52); [Coates and MacEachern (2000)](#_ENREF_23); [Mutti et al. (2003)](#_ENREF_70); [Dumas et al. (2005)](#_ENREF_35); [Dumas and Arnott (2006)](#_ENREF_36); [Pontén and Plink-Björklund (2007)](#_ENREF_82); [Plink-Björklund (2008)](#_ENREF_79); [Gani et al. (2009)](#_ENREF_41); [Charvin et al. (2010)](#_ENREF_16); [MacEachern et al. (2010)](#_ENREF_62); [Olariu et al. (2010)](#_ENREF_77); [Plint (2010)](#_ENREF_81); [Hurd et al. (2014)](#_ENREF_47) |
| Lenticular,  wavy, and  flaser bedding | w = 14  t = 19  r = 12 | [Coleman and Gagliano (1965)](#_ENREF_24); [Reineck and Wunderlich (1968)](#_ENREF_85); [McCave (1970)](#_ENREF_65); [De Raaf et al. (1977)](#_ENREF_34); [Galloway (1981)](#_ENREF_39); [Homewood and Allen (1981)](#_ENREF_45); [Terwindt (1981)](#_ENREF_92); [Clifton (1982)](#_ENREF_22); [Pulham (1989)](#_ENREF_84); [Tye and Coleman (1989)](#_ENREF_96); [Bhattacharya and Walker (1991)](#_ENREF_10); [Nichols et al. (1991)](#_ENREF_72); [Nio and Yang (1991)](#_ENREF_73); [Tessier (1993)](#_ENREF_93); [Brooks et al. (1995)](#_ENREF_13); [Greb and Archer (1995)](#_ENREF_43); [De Boer (1998)](#_ENREF_31); [Borgeld et al. (1999)](#_ENREF_12); [Willis et al. (1999)](#_ENREF_102); [Coates and MacEachern (2000)](#_ENREF_23); [Martin (2000)](#_ENREF_63); [Ta et al. (2002)](#_ENREF_91); [Kirschbaum and Hettinger (2004)](#_ENREF_51); [Wheatcroft et al. (2006)](#_ENREF_99); [Plink-Björklund (2008)](#_ENREF_79); [Olariu et al. (2012a)](#_ENREF_76); [Plink-Björklund (2012)](#_ENREF_80); [Scasso et al. (2012)](#_ENREF_90); [Chen et al. (2014)](#_ENREF_17); [Hurd et al. (2014)](#_ENREF_47) |
| Unidirectional cross-strata | w = 17  t = 42  r = 29 | [Collinson (1970)](#_ENREF_26); [Clifton (1976)](#_ENREF_21); [Kumar and Sanders (1976)](#_ENREF_53); [Dalrymple et al. (1978)](#_ENREF_29); [Allen (1980)](#_ENREF_5); [Boersma and Terwindt (1981)](#_ENREF_11); [Homewood and Allen (1981)](#_ENREF_45); [Clifton (1982)](#_ENREF_22); [Dalrymple (1984)](#_ENREF_27); [Kreisa and Moiola (1986)](#_ENREF_52); [Pulham (1989)](#_ENREF_84); [Bhattacharya and Walker (1991)](#_ENREF_10); [Greb and Archer (1995)](#_ENREF_43); [Mellere and Steel (1995)](#_ENREF_67); [Mellere and Steel (1996)](#_ENREF_68); [Wightman and Pemberton (1997)](#_ENREF_100); [De Boer (1998)](#_ENREF_31); [Gingras et al. (1998)](#_ENREF_42); [Bhattacharya and Giosan (2003)](#_ENREF_8); [Choi et al. (2004)](#_ENREF_20); [Kirschbaum and Hettinger (2004)](#_ENREF_51); [McIlroy (2004)](#_ENREF_66); [Dumas et al. (2005)](#_ENREF_35); [Longhitano and Nemec (2005)](#_ENREF_61); [Olariu et al. (2005)](#_ENREF_75); [Anastas et al. (2006)](#_ENREF_7); [Dumas and Arnott (2006)](#_ENREF_36); [Olariu and Bhattacharya (2006)](#_ENREF_74); [Reynaud et al. (2006)](#_ENREF_86); ([Gani and Bhattacharya 2007](#_ENREF_40)); [Pontén and Plink-Björklund (2007)](#_ENREF_82); [Longhitano (2008)](#_ENREF_56); [Plink-Björklund (2008)](#_ENREF_79); [Gani et al. (2009)](#_ENREF_41); [Ichaso and Dalrymple (2009)](#_ENREF_48); [Pontén and Plink-Björklund (2009)](#_ENREF_83); [Charvin et al. (2010)](#_ENREF_16); [Dalrymple (2010)](#_ENREF_28); [Plint (2010)](#_ENREF_81); [Longhitano (2011)](#_ENREF_57); [Longhitano et al. (2012)](#_ENREF_60); [Olariu et al. (2012a)](#_ENREF_76); [Olariu et al. (2012b)](#_ENREF_78); [Plink-Björklund (2012)](#_ENREF_80); [Scasso et al. (2012)](#_ENREF_90); [Longhitano (2013)](#_ENREF_58); [Reynaud et al. (2013)](#_ENREF_87); [Chen et al. (2014)](#_ENREF_17); [Hurd et al. (2014)](#_ENREF_47); [Ichaso and Dalrymple (2014)](#_ENREF_49); [Longhitano et al. (2014)](#_ENREF_59) |
| Bidirectional cross-strata | w = 4  t = 30  r = 6 | [De Raaf and Boersma (1971)](#_ENREF_33); [Coleman and Wright (1975)](#_ENREF_25); [De Raaf et al. (1977)](#_ENREF_34); [Fraser and Hester (1977)](#_ENREF_38); [Allen (1980)](#_ENREF_5); [Boersma and Terwindt (1981)](#_ENREF_11); [Homewood and Allen (1981)](#_ENREF_45); [Howard and Reineck (1981)](#_ENREF_46); [Clifton (1982)](#_ENREF_22); [Dalrymple (1984)](#_ENREF_27); [De Mowbray and Visser (1984)](#_ENREF_32); [Alam et al. (1985)](#_ENREF_3); [Tessier and Gigot (1989)](#_ENREF_94); [Brown et al. (1990)](#_ENREF_14); [Nio and Yang (1991)](#_ENREF_73); [Greb and Archer (1995)](#_ENREF_43); [De Boer (1998)](#_ENREF_31); [Willis et al. (1999)](#_ENREF_102); [McIlroy (2004)](#_ENREF_66); [Willis (2005)](#_ENREF_101); [Gani and Bhattacharya (2007)](#_ENREF_40); [Van den Berg et al. (2007)](#_ENREF_97); [Plink-Björklund (2008)](#_ENREF_79); [Gani et al. (2009)](#_ENREF_41); [Ichaso and Dalrymple (2009)](#_ENREF_48); [Pontén and Plink-Björklund (2009)](#_ENREF_83); [Dalrymple (2010)](#_ENREF_28); [Choi (2011)](#_ENREF_19); [Ainsworth et al. (2012)](#_ENREF_2); [Olariu et al. (2012a)](#_ENREF_76); [Olariu et al. (2012b)](#_ENREF_78); [Plink-Björklund (2012)](#_ENREF_80); [Scasso et al. (2012)](#_ENREF_90); [Chen et al. (2014)](#_ENREF_17); [Ichaso and Dalrymple (2014)](#_ENREF_49); [Rossi and Craig (2016)](#_ENREF_88) |
| Foreset bundles | w = 1  t = 15  r = 2 | [De Raaf and Boersma (1971)](#_ENREF_33); [Visser (1980)](#_ENREF_98); [Allen (1981)](#_ENREF_6); [Homewood and Allen (1981)](#_ENREF_45); [De Mowbray and Visser (1984)](#_ENREF_32); [Kreisa and Moiola (1986)](#_ENREF_52); [Tessier and Gigot (1989)](#_ENREF_94); [Nio and Yang (1991)](#_ENREF_73); [Wightman and Pemberton (1997)](#_ENREF_100); [De Boer (1998)](#_ENREF_31); [McIlroy (2004)](#_ENREF_66); [Kvale (2006)](#_ENREF_54); [Van den Berg et al. (2007)](#_ENREF_97); [Yang et al. (2008)](#_ENREF_104); [Dalrymple (2010)](#_ENREF_28); [Ainsworth et al. (2012)](#_ENREF_2) |
| Rhythmic lamination | w = 2  t = 13  r = 1 | [Clifton (1982)](#_ENREF_22); [Kvale et al. (1989)](#_ENREF_55); [Brown et al. (1990)](#_ENREF_14); [Dalrymple et al. (1991)](#_ENREF_30); [Nio and Yang (1991)](#_ENREF_73); [Greb and Archer (1995)](#_ENREF_43); [Willis (2005)](#_ENREF_101); [Kvale (2006)](#_ENREF_54); [Bhattacharya and MacEachern (2009)](#_ENREF_9); [Choi (2011)](#_ENREF_19); [Plink-Björklund (2012)](#_ENREF_80); [Scasso et al. (2012)](#_ENREF_90); [Chen et al. (2014)](#_ENREF_17) |
| Sigmoidal cross-strata | w = 1  t = 10  r = 3 | [De Raaf et al. (1977)](#_ENREF_34); [Mutti et al. (1985)](#_ENREF_69); [Kreisa and Moiola (1986)](#_ENREF_52); [Nio and Yang (1991)](#_ENREF_73); [Wightman and Pemberton (1997)](#_ENREF_100); [Mutti et al. (2000)](#_ENREF_71); [Mutti et al. (2003)](#_ENREF_70); [Kirschbaum and Hettinger (2004)](#_ENREF_51); [Willis (2005)](#_ENREF_101); [Pontén and Plink-Björklund (2007)](#_ENREF_82); [Pontén and Plink-Björklund (2009)](#_ENREF_83); [Tinterri (2011)](#_ENREF_95); [Plink-Björklund (2012)](#_ENREF_80); [Rossi and Craig (2016)](#_ENREF_88) |
| Mud drapes | w = 2  t = 31  r = 3 | [De Raaf and Boersma (1971)](#_ENREF_33); [Allen (1980)](#_ENREF_5); [Visser (1980)](#_ENREF_98); [Allen (1981)](#_ENREF_6); [Boersma and Terwindt (1981)](#_ENREF_11); [Clifton (1982)](#_ENREF_22); [De Mowbray and Visser (1984)](#_ENREF_32); [Kreisa and Moiola (1986)](#_ENREF_52); [Kvale et al. (1989)](#_ENREF_55); [Bhattacharya and Walker (1991)](#_ENREF_10); [Nio and Yang (1991)](#_ENREF_73); [Greb and Archer (1995)](#_ENREF_43); [Wightman and Pemberton (1997)](#_ENREF_100); [De Boer (1998)](#_ENREF_31); [Willis et al. (1999)](#_ENREF_102); [Willis and Gabel (2003)](#_ENREF_103); [Kirschbaum and Hettinger (2004)](#_ENREF_51); [McIlroy (2004)](#_ENREF_66); [Willis (2005)](#_ENREF_101); [Gani and Bhattacharya (2007)](#_ENREF_40); [Pontén and Plink-Björklund (2007)](#_ENREF_82); [Van den Berg et al. (2007)](#_ENREF_97); [Plink-Björklund (2008)](#_ENREF_79); [Gani et al. (2009)](#_ENREF_41); [Ichaso and Dalrymple (2009)](#_ENREF_48); [Pontén and Plink-Björklund (2009)](#_ENREF_83); [Dalrymple (2010)](#_ENREF_28); [Ainsworth et al. (2012)](#_ENREF_2); [Olariu et al. (2012a)](#_ENREF_76); [Olariu et al. (2012b)](#_ENREF_78); [Plink-Björklund (2012)](#_ENREF_80); [Scasso et al. (2012)](#_ENREF_90); [Chen et al. (2014)](#_ENREF_17); [Ichaso and Dalrymple (2014)](#_ENREF_49) |
| Graded beds and  structureless | w = 4  t = 1  r = 18 | [Rossi and Rogledi (1988)](#_ENREF_89); [De Boer (1998)](#_ENREF_31); [Mutti et al. (2000)](#_ENREF_71); [Martinius et al. (2001)](#_ENREF_64); [Mutti et al. (2003)](#_ENREF_70); [Budillon et al. (2005)](#_ENREF_15); [Olariu et al. (2005)](#_ENREF_75); [Olariu and Bhattacharya (2006)](#_ENREF_74); [Gani and Bhattacharya (2007)](#_ENREF_40); [Pontén and Plink-Björklund (2007)](#_ENREF_82); [Ainsworth et al. (2008)](#_ENREF_1); [Plink-Björklund (2008)](#_ENREF_79); [Bhattacharya and MacEachern (2009)](#_ENREF_9); [Pontén and Plink-Björklund (2009)](#_ENREF_83); [Charvin et al. (2010)](#_ENREF_16); [Plink-Björklund (2012)](#_ENREF_80); [Rossi and Craig (2016)](#_ENREF_88) |
| Plane-parallel lamination | w = 14  t = 15  r = 21 | [Clifton (1976)](#_ENREF_21); [Kumar and Sanders (1976)](#_ENREF_53); [Allen (1980)](#_ENREF_5); [Howard and Reineck (1981)](#_ENREF_46); [Clifton (1982)](#_ENREF_22); [Dalrymple (1984)](#_ENREF_27); [Kreisa and Moiola (1986)](#_ENREF_52); [Rossi and Rogledi (1988)](#_ENREF_89); [Pulham (1989)](#_ENREF_84); [Bhattacharya and Walker (1991)](#_ENREF_10); [De Boer (1998)](#_ENREF_31); [Willis et al. (1999)](#_ENREF_102); [Coates and MacEachern (2000)](#_ENREF_23); [Mutti et al. (2000)](#_ENREF_71); [Mutti et al. (2003)](#_ENREF_70); [Kirschbaum and Hettinger (2004)](#_ENREF_51); [McIlroy (2004)](#_ENREF_66); [Dumas et al. (2005)](#_ENREF_35); [Olariu et al. (2005)](#_ENREF_75); [Anastas et al. (2006)](#_ENREF_7); [Dumas and Arnott (2006)](#_ENREF_36); [Olariu and Bhattacharya (2006)](#_ENREF_74); [Gani and Bhattacharya (2007)](#_ENREF_40); [Pontén and Plink-Björklund (2007)](#_ENREF_82); [Plink-Björklund (2008)](#_ENREF_79); [Gani et al. (2009)](#_ENREF_41); [Pontén and Plink-Björklund (2009)](#_ENREF_83); [Charvin et al. (2010)](#_ENREF_16); [Dalrymple (2010)](#_ENREF_28); [MacEachern et al. (2010)](#_ENREF_62); [Olariu et al. (2010)](#_ENREF_77); [Olariu et al. (2012a)](#_ENREF_76); [Plink-Björklund (2012)](#_ENREF_80); [Scasso et al. (2012)](#_ENREF_90); [Rossi and Craig (2016)](#_ENREF_88) |
| Compound cross-strata | w = 1  t = 14  r = 4 | [Allen (1980)](#_ENREF_5); [Dalrymple (1984)](#_ENREF_27); [Wightman and Pemberton (1997)](#_ENREF_100); [Kirschbaum and Hettinger (2004)](#_ENREF_51); [Anastas et al. (2006)](#_ENREF_7); [Gani and Bhattacharya (2007)](#_ENREF_40); [Pontén and Plink-Björklund (2007)](#_ENREF_82); [Plink-Björklund (2008)](#_ENREF_79); [Ainsworth et al. (2012)](#_ENREF_2); [Longhitano et al. (2012)](#_ENREF_60); [Olariu et al. (2012a)](#_ENREF_76); [Olariu et al. (2012b)](#_ENREF_78); [Plink-Björklund (2012)](#_ENREF_80); [Chen et al. (2014)](#_ENREF_17) |
| Soft-sediment deformation | w = 3  t = 6  r = 14 | [Bhattacharya and Walker (1991)](#_ENREF_10); [De Boer (1998)](#_ENREF_31); [Willis et al. (1999)](#_ENREF_102); [Coates and MacEachern (2000)](#_ENREF_23); [Mutti et al. (2000)](#_ENREF_71); [Mutti et al. (2003)](#_ENREF_70); ([Choi et al. 2004](#_ENREF_20)); [Kirschbaum and Hettinger (2004)](#_ENREF_51); [Olariu and Bhattacharya (2006)](#_ENREF_74); [Gani and Bhattacharya (2007)](#_ENREF_40); [Greb and Archer (2007)](#_ENREF_44); [Plink-Björklund (2008)](#_ENREF_79); [Bhattacharya and MacEachern (2009)](#_ENREF_9); [Gani et al. (2009)](#_ENREF_41); [Pontén and Plink-Björklund (2009)](#_ENREF_83); [Charvin et al. (2010)](#_ENREF_16); [Scasso et al. (2012)](#_ENREF_90); [Chen et al. (2014)](#_ENREF_17) |
| Inverse grading |  | [Mutti et al. (2000)](#_ENREF_71); [Mutti et al. (2003)](#_ENREF_70); [Bhattacharya and MacEachern (2009)](#_ENREF_9); [Ichaso and Dalrymple (2014)](#_ENREF_49) |

Table 2: Within unidirectional cross-strata it is possible in some cases to distinguish between tabular and trough cross-strata. Percentages have been calculated for tabular (2D) cross-strata and trough (3D) cross-strata.

|  |  |  |  |
| --- | --- | --- | --- |
| Sedimentary structures | P(w) | P(t) | P(r) |
| 2D cross-strata | 17% | 57% | 26% |
| 3D cross-strata | 22% | 49% | 29% |

Table 3: Percentages related to inverse grading and inverse-to-normal grading. This structure is very diagnostic of river processes.

|  |  |  |  |
| --- | --- | --- | --- |
| Sedimentary structures | P(w) | P(t) | P(r) |
| Inverse grading and inverse-to-normal grading | - | - | 100% |

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