

Supplement of The Cryosphere, 8, 1479–1496, 2014
<http://www.the-cryosphere.net/8/1479/2014/>
doi:10.5194/tc-8-1479-2014-supplement
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Supplement of

A 10 year record of black carbon and dust from a Mera Peak ice core (Nepal): variability and potential impact on melting of Himalayan glaciers

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Supplement material:

EOF analyses for tracers analyzed in the ice core. Each tracer has the same weight. :

Eigenvalues : Mera core – all data			
	Fact. 1	Fact. 2	Fact. 3
Fluor	-0,622490	-0,531500	0,257512
Chlore	-0,361453	0,836228	0,238047
Nitrate	-0,724551	-0,094188	0,277106
Sulfate	-0,670337	0,202101	-0,036094
Lithium	-0,251566	0,441002	0,037949
Sodium	-0,164263	0,812900	0,124957
Ammonium	-0,636851	-0,357502	0,587836
Potassium	-0,510127	0,784596	0,127002
Magnesium	-0,836455	-0,014417	-0,497512
Manganese	-0,794118	-0,065939	-0,533665
Calcium	-0,763636	0,122433	-0,354637
rBC	-0,714281	-0,260721	0,339868
Dust	-0,446027	-0,281453	-0,607116
$\delta^{18}\text{O}$	-0,601770	-0,287453	0,409850

Mera core – all data				
	Eigenvalue	% Total - variance	Cumul - Eigenvalue	Cumul - %
1	5,233227	37,38020	5,23323	37,3802
2	2,879539	20,56814	8,11277	57,9483
3	1,889964	13,49975	10,00273	71,4481
4	1,385331	9,89522	11,38806	81,3433
5	0,780434	5,57453	12,16850	86,9178
6	0,531135	3,79382	12,69963	90,7117
7	0,334221	2,38729	13,03385	93,0989
8	0,329558	2,35398	13,36341	95,4529
9	0,225984	1,61417	13,58939	97,0671
10	0,160791	1,14850	13,75018	98,2156
11	0,107045	0,76461	13,85723	98,9802
12	0,099302	0,70930	13,95653	99,6895
13	0,037835	0,27025	13,99437	99,9598
14	0,005634	0,04024	14,00000	100,0000



