

Kalman Filter, Exercise 2

Microsoft Excel - Reanalysis_DataAssimilation_Exercise2

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Reply with Changes... End Review...

	A	B	C	D	E	F	G	H	I
1	t (s)	x_b	z_b	i	j	x	z	u	w
2	0	23.4	0	1034	502	23.4	0	-18	12
3	0.1	$x_b = x_{t-1} + u_{t-1} \Delta t$	$z_b = z_{t-1} + w_{t-1} \Delta t - 0.5g \Delta t^2$	977	459	Analysis			
4	0.2			920	424				
5	0.3			867	387				
6	0.4			815	357				
7	0.5			765	335				
8	0.6			717	314				
9	0.7			670	296				
10	0.8			623	285				
11	0.9			579	275				
12	1			538	271				
13	1.1			495	268				
14	1.2			455	273				
15	1.3			414	280				
16	1.4			375	291				
17	1.5			338	313				
18	1.6			301	328				
19	1.7			266	351				
20	1.8			232	378				
21	1.9			199	408				
22	2			164	440				
23									
24									
25									
26			g	9.80665					
27			a	44.2					
28			k	5.00E+02					
29			b	0.01					
30			r	9					
31			ab/(a2b+r)	0.01548899					
32									

Diagnostic winds

Tabelle1

Ready