

ADEOS II Satellite

10:30 AM, 4 days

GLI:

1km : 19 VNIR, 4SWIR, 7 MTIR

250m: 4 VNIR, 2SWIR

AMSR




f (df=MHz) :6.6(400), 10.65(100),

18.7(200), 23.8(400), 36.5(1000),

50.3(160), 52.8(380), 89.0(3000) GHz

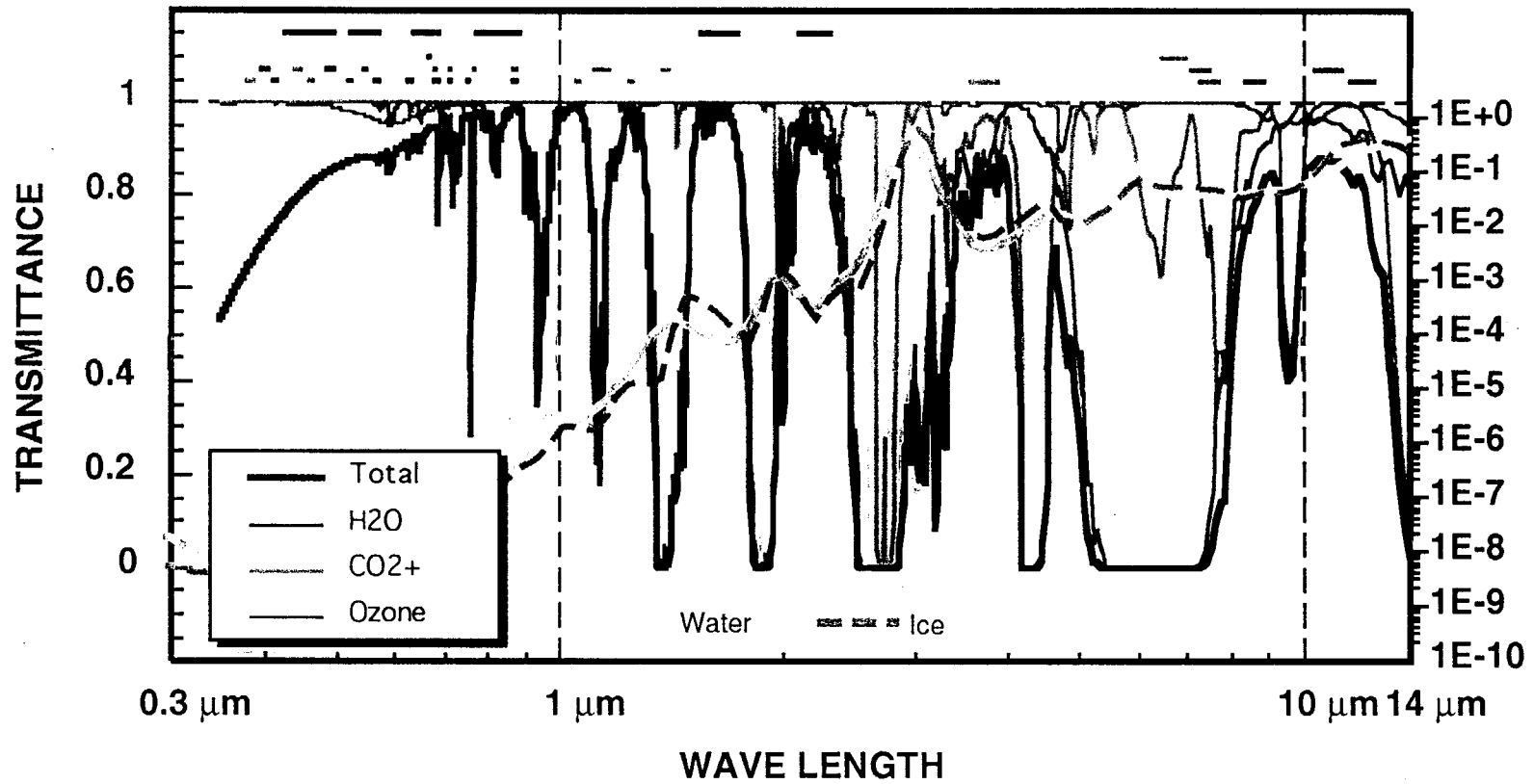
POLDER II

SeaWinds

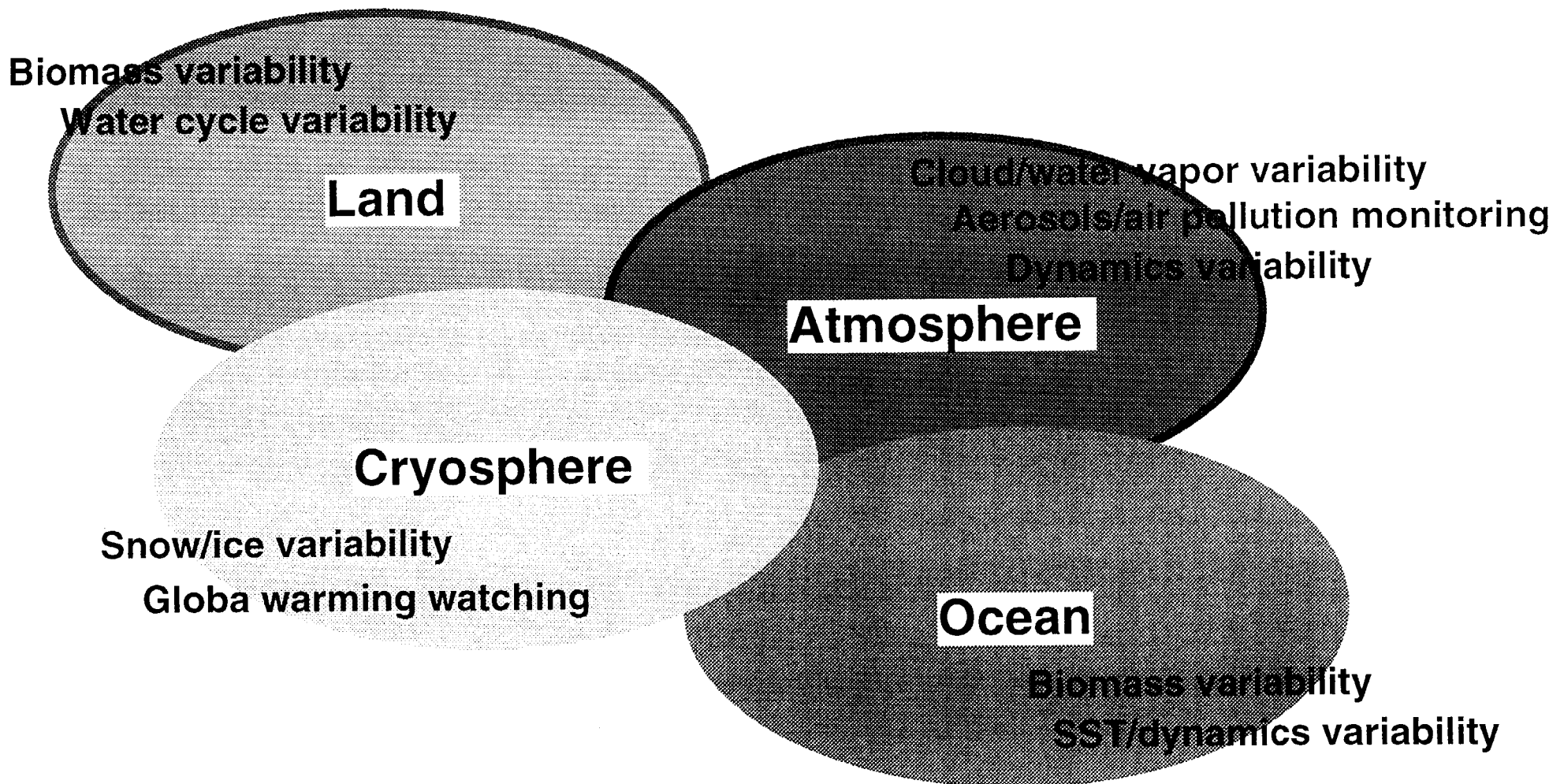
-  Land-Atmos.
-  Ocean color
-  250m mode

NASDA / GLI 36 Sensor Bands

Launch by H2 Rocket on Feb. 1999



Global Environment Studies in the GLE mission



GLI Channel Specifications



n	λ nm	$\Delta\lambda$ nm	GR km	LST W/m	LPW sr	LMX μm	SN	AMP bits	OLAC	comment
24	1050	20	1	8		203	312	12	-xxx	water/ice/snow
25	1135	70	1	8		167	(369)	12	--x-	water vapor abs.
26	1240	20	1	5.4		138	303	12	-xxx	water/ice/snow
27	1380	40	1	1.5		94	132	12	--x-	water vapor abs., cirrus
28	1640	200	0.25	5		69	227	12	-xxx	vegetation, soilmoisture, ice phase
29	2210	220	0.25	1.3		30	86	12	-xxx	cloud dropletsize, soil moisture

GLI Channel Specifications



n	λ nm	$\Delta\lambda$ nm	GR km	LST W/m ² sr	LPW μm	LMX	SN	AMP bits	OLAC	comment
1	380	10	1	59		365	770	12	x-xx	DOM
2	400	10	1	70		139	1272	12	x---	baseline, DOM
3	412	10	1	65		130	1302	12	x---	ch-a, DOM
4	443	10	1	54	109	560	918	12P	xxxx	chl-a max
5	460	10	1	54	108	624	886	12P	xxxx	ocean pigment
6	490	10	1	43		86	1354	12	x---	ocean pigment
7	520	10	1	31	64	539	670	12P	x-xx	SS, high conc. ocean pigment
8	545	10	1	28	56	549	609	12P	x-xx	no ocean pigment
9	565	10	1	23		47	1128	12	xx--	min. pigment abs.
10	625	10	1	17		33	1026	12	x---	mid.conc.pigment
11	666	10	1	13		26	909	12	x---	baseline of fluor- escence,atmos. corr.
12	680	10	1	12		24	911	12	x---	fluorescence

GLI Channel Specifications



n	λ nm	$\Delta\lambda$ nm	GR km	LST W/m	LPW sr	LMX μm	SN	AMP bits	OLAC	comment
13	678	10	1	(12)		438	(238)	12	-xxx	chl-a abs.
14	710	10	1	10		18	838	12	x---	baseline of fluorescence
15	710	10	1	(10)		311	(273)	12	-xxx	
16	749	10	1	7		14	700	12	x---	atmos. corr.
17	763	8	1	6		350	148	12	-xx-	oxygen abs., liquid water content
18	865	20	1	5		9	552	12	x---	atmos. corr.
19	865	10	1	(5)		304	(142)	12	-xxx	cloud opt. thik., aerosols
20	460	70	0.25	36		624	206	12	-xxx	vegetation
21	545	50	0.25	25		549	154	12	-xxx	vegetation, activities
22	660	60	0.25	14		150	179	12	-xxx	vegetation, chl-a abs.
23	825	110	0.25	21		257	314	12	-xxx	vegetation, biomass

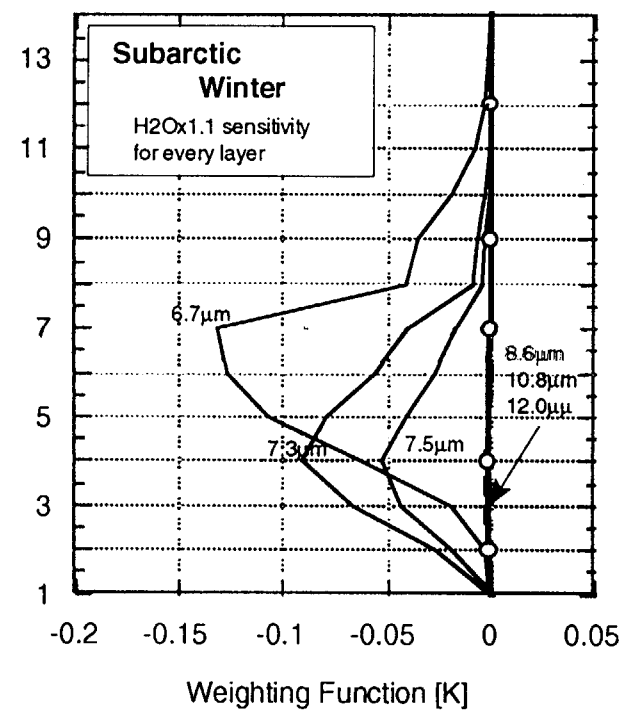
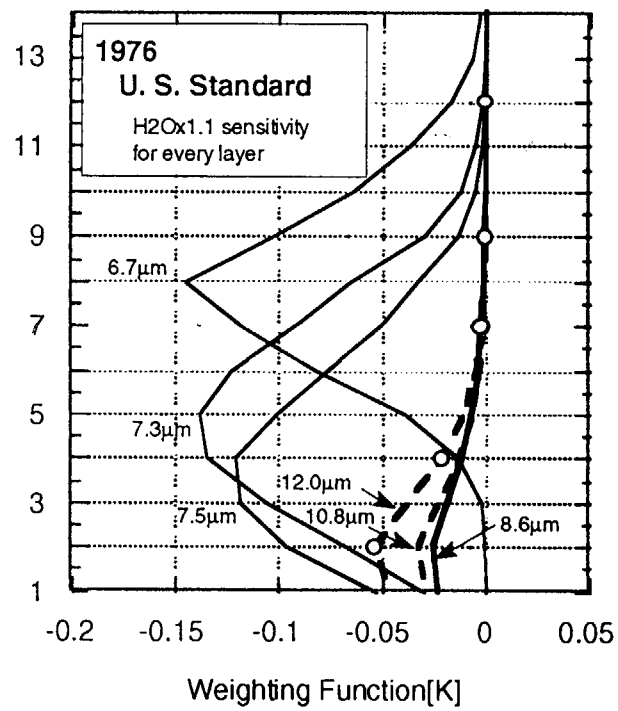
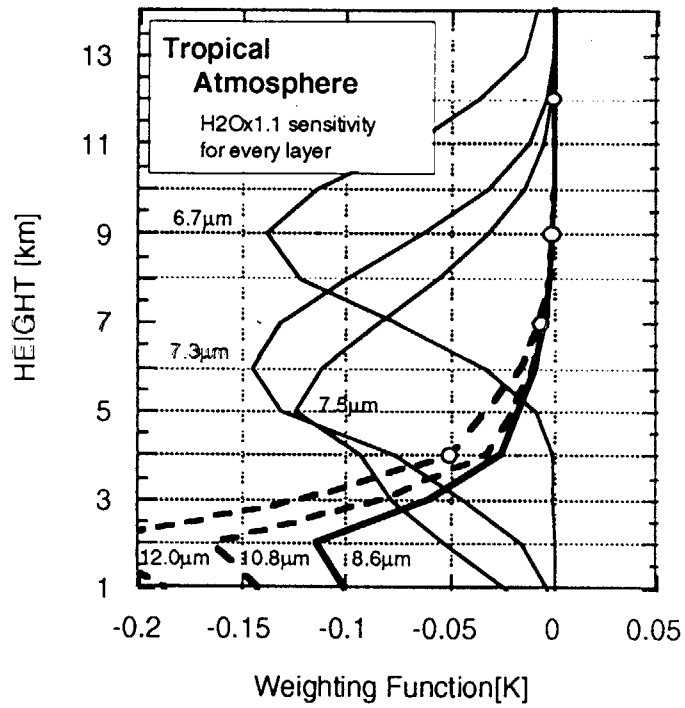
GLI Channel Specifications



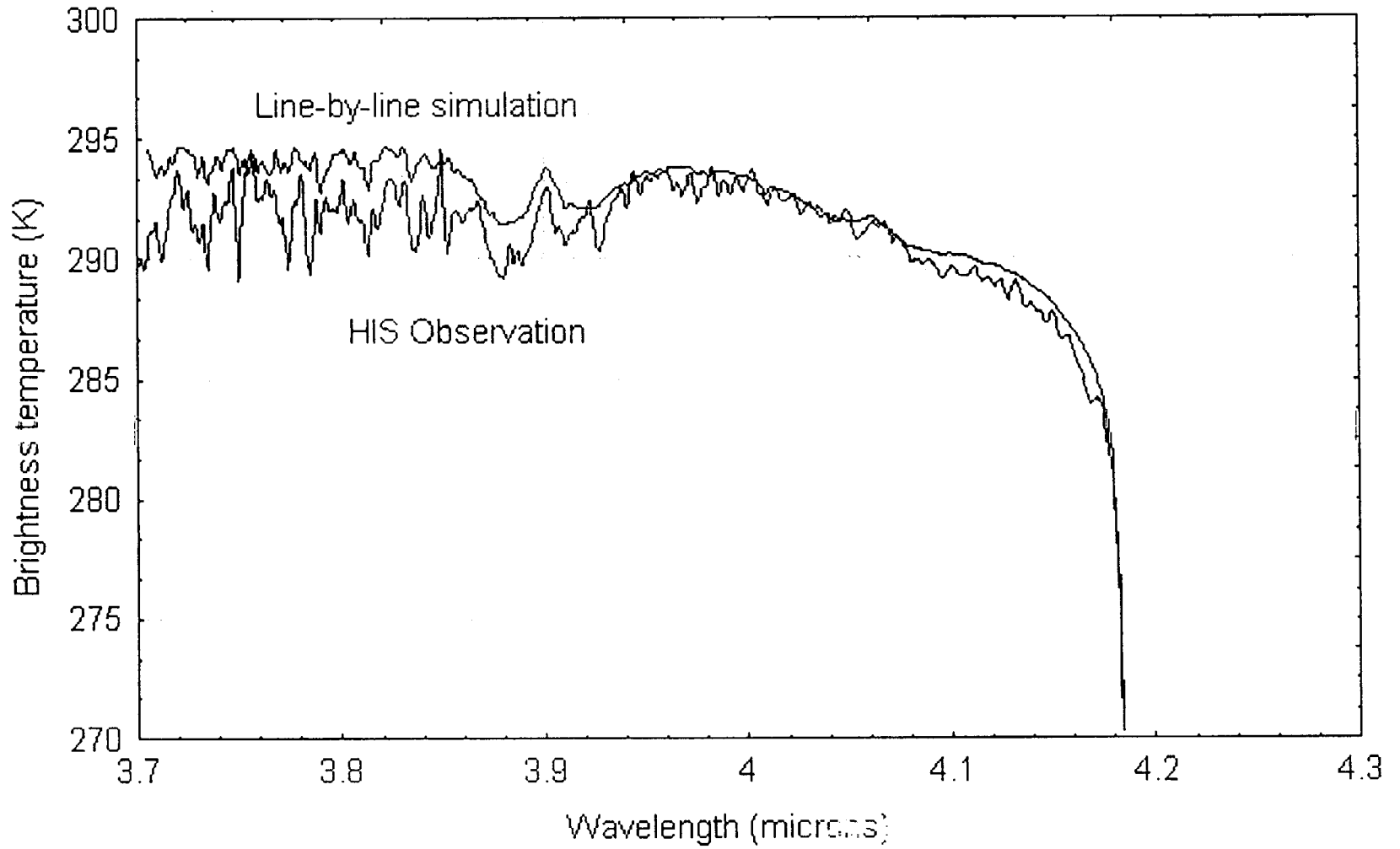
NASDA
National Space Development
Agency of Japan

n	λ nm	$\Delta\lambda$ nm	GR km	TST K	TLW K	NE Δ T K	NE Δ TL K	AMP bits	OLAC	comment
30	3.715	0.33	1	300	250	0.15	1.33	12	x-xx	cloud phase
31	6.7	0.5	1	300	200	0.08	1.21	12	--x-	water vapor
32	7.3	0.5	1	300	200	0.08	0.94	12	--x-	water vapor
33	7.5	0.5	1	300	200	0.09	TBR	12	--x-	water vapor
34	8.6	0.5	1	300	180	0.08	1.11	12	x-xx	water vapor, ice/snow temp.
35	10.8	1.0	1	300	180	0.09	0.67	12	x-xx	SST, ice/snowtemp., cloud top temp.
36	12.0	1.0	1	300	180	0.09	0.48	12	x-xx	SST, ice/snowtemp., cloud top temp.

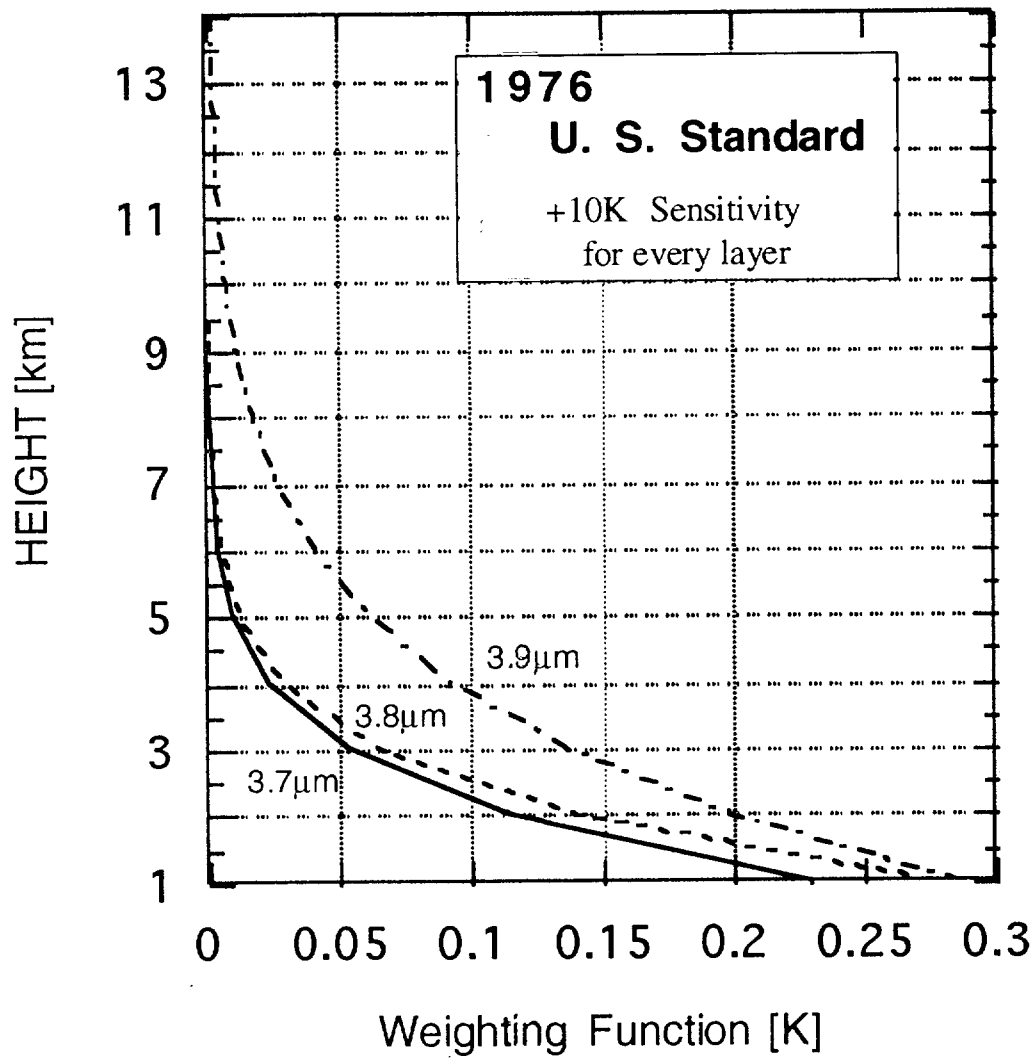
Weighting Function (GLI 6.7 μm -12.0 μm)



Scatterplot (HC1N2AVT.STA 3v*2049c)



Weighting Function (GLI CH30-issue)



Schedule for the GLI Project

