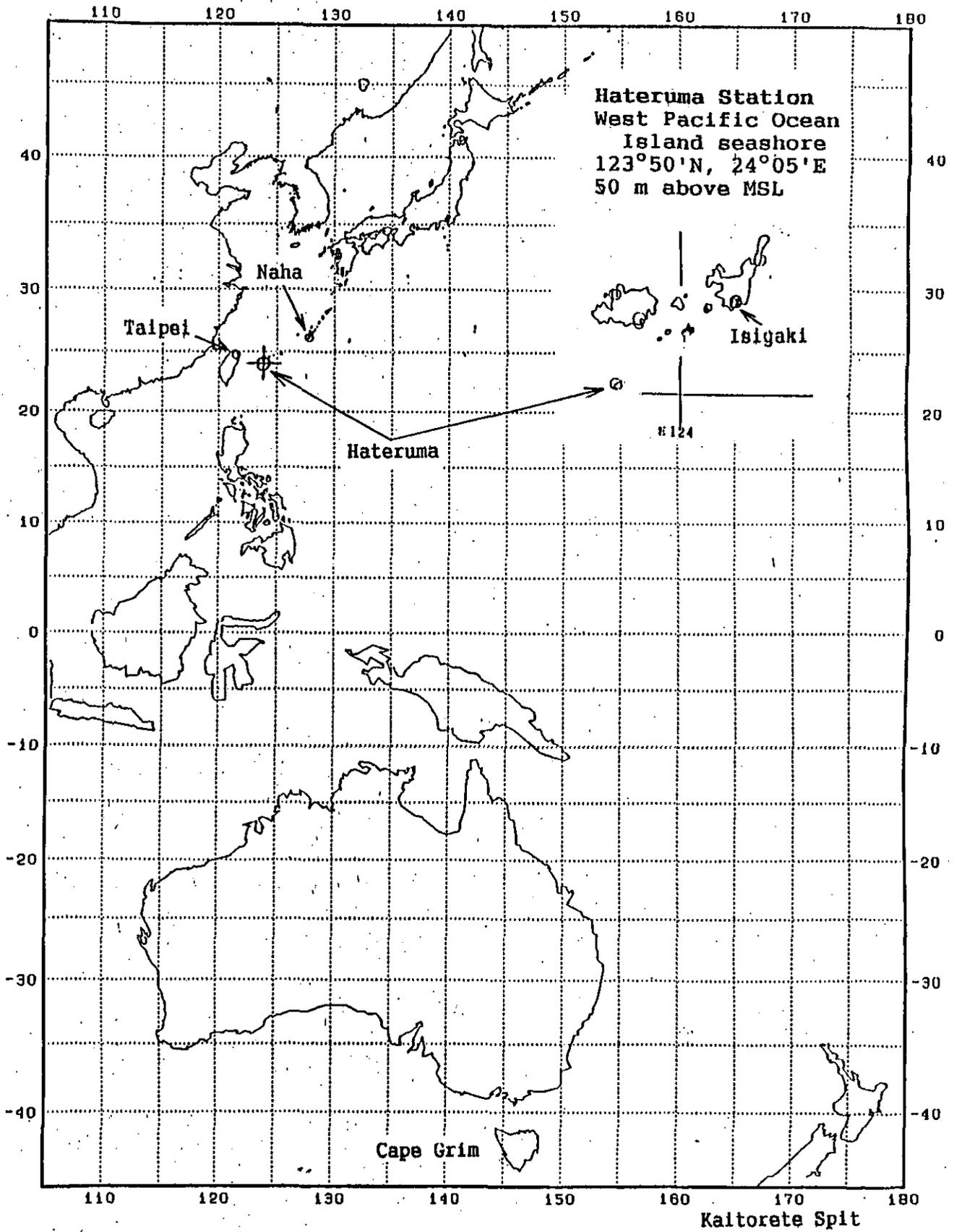
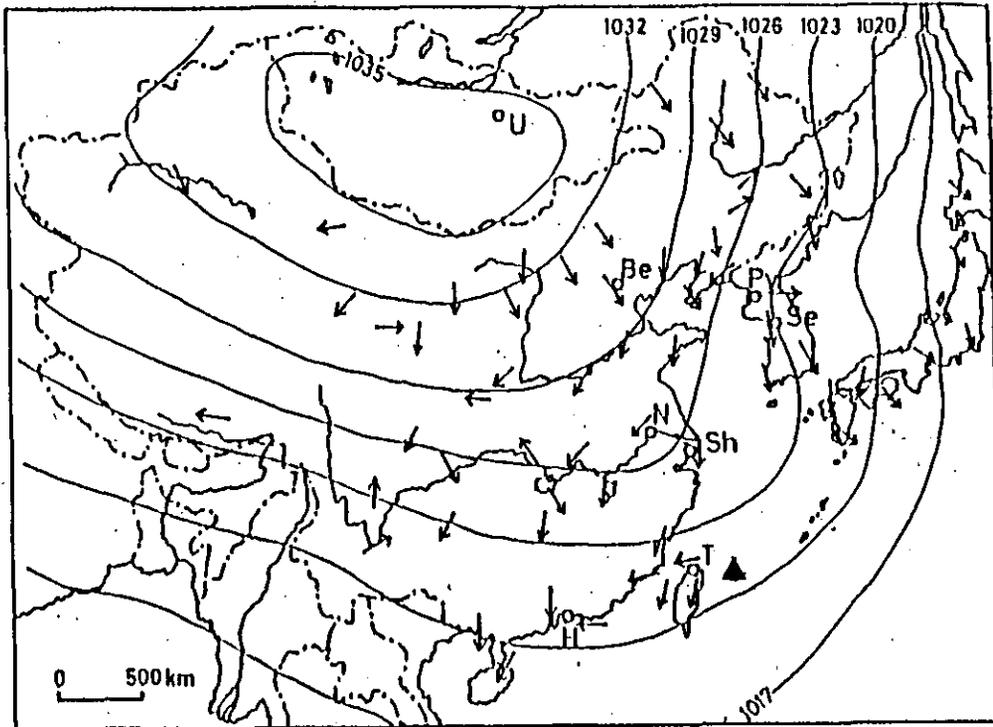


M o n i t o r i n g S t a t i o n - H A T E R U M A

M a s a h i r o U t i y a m a

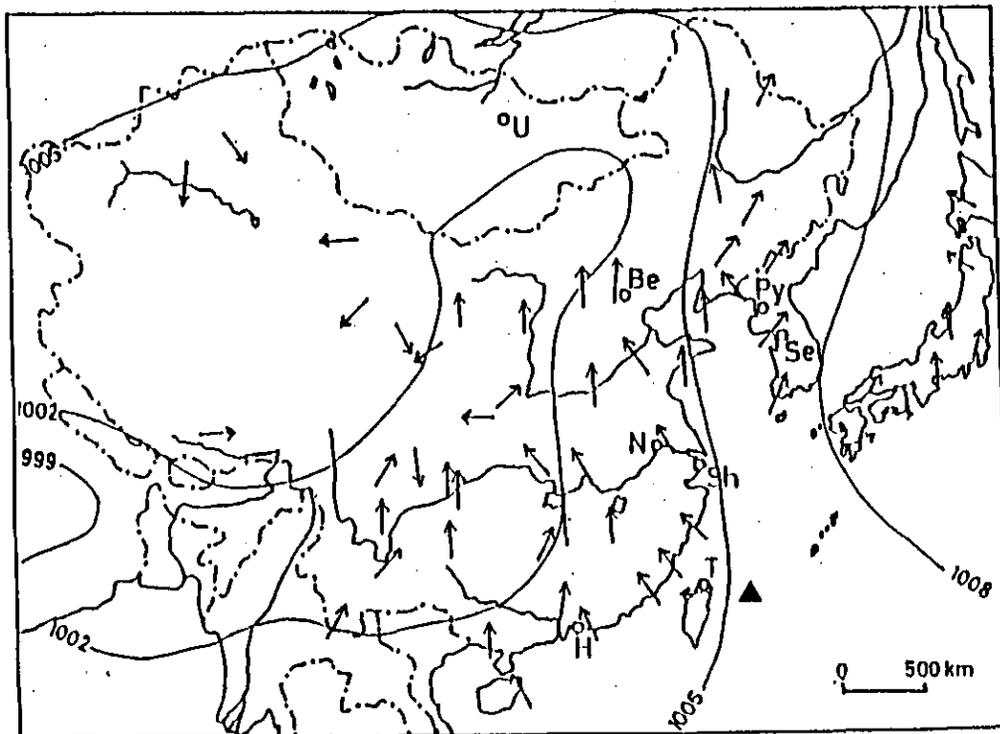
N I E S





in January

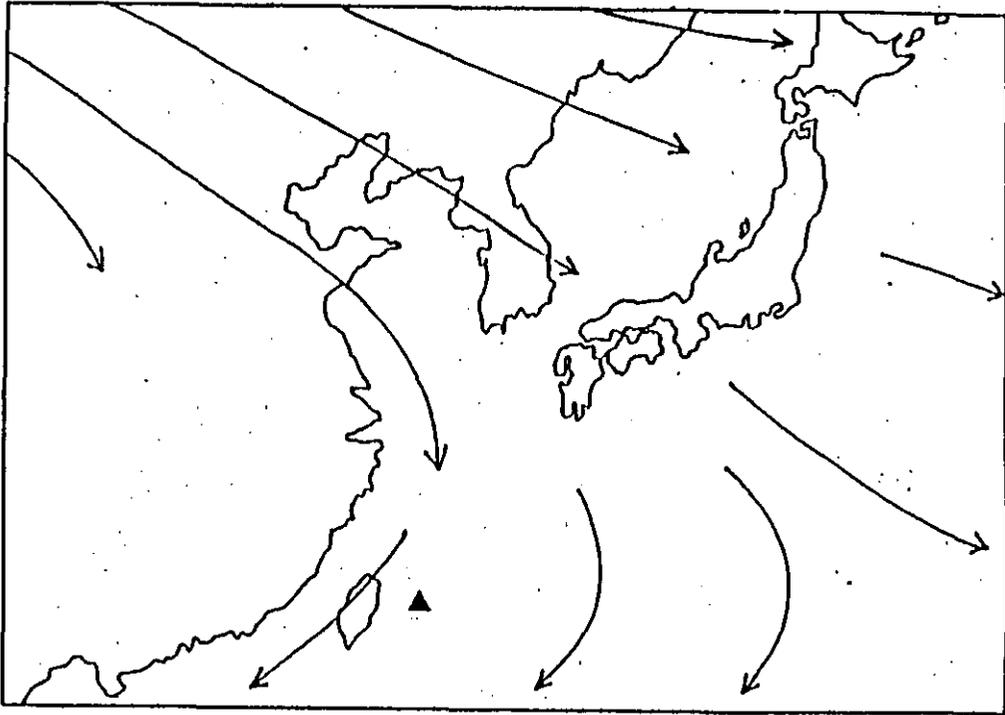
U : Ulanbator, Be: Beijing (北京), N: Nanking (南京)
 Sh: Shanghai (上海), H: Hong Kong (香港), Py: Pyongyang (平壤)
 Se: Seoul (京城), T: Taipei (台北)



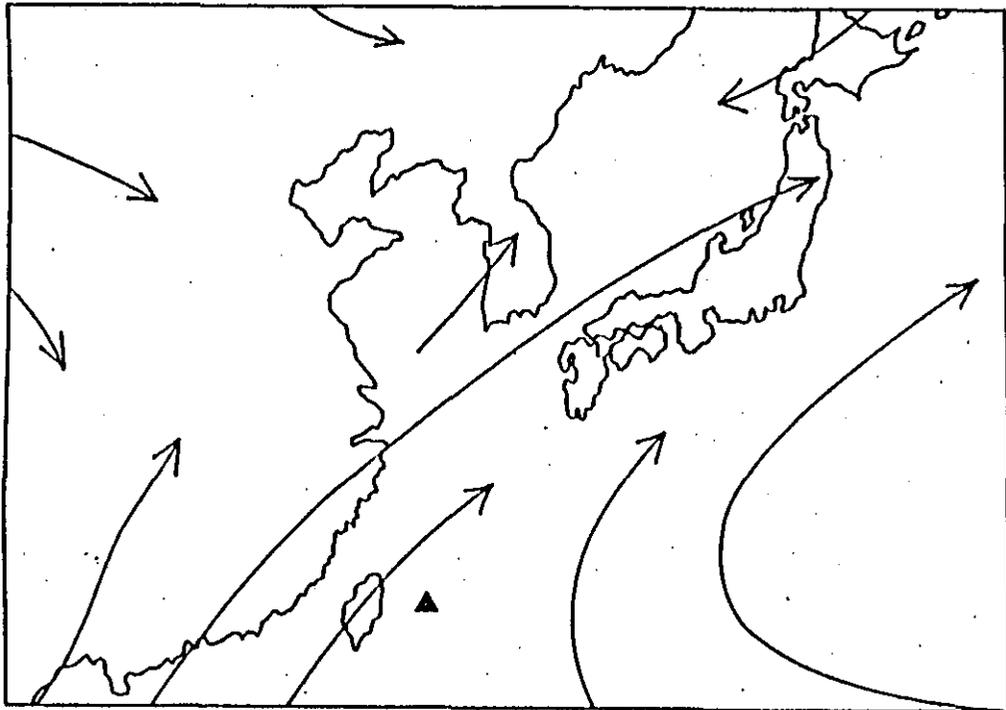
in July

Average pressure patten and surface wind (10-15m height)
 over the East Asia

(Ohta, S., 1986)



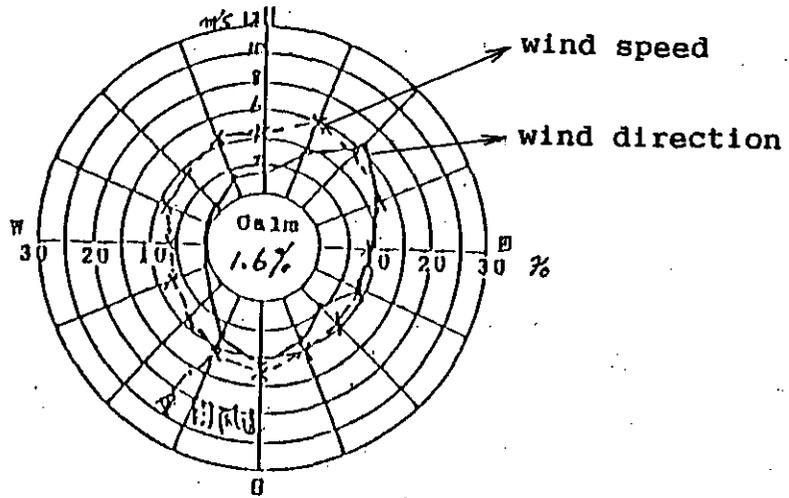
in January



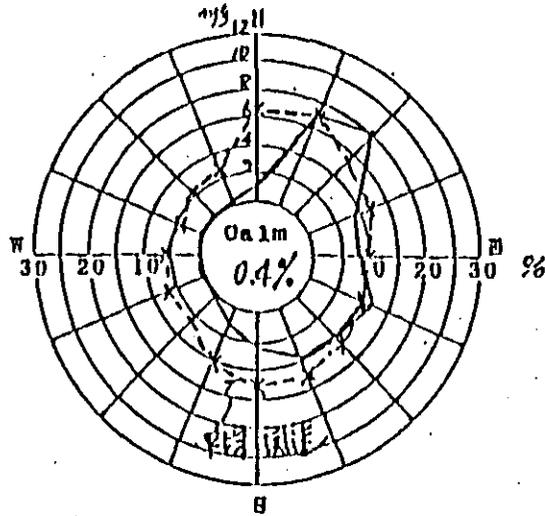
in July

Average wind system at 850 mb over the East Asia
(Ohta, S., 1986)

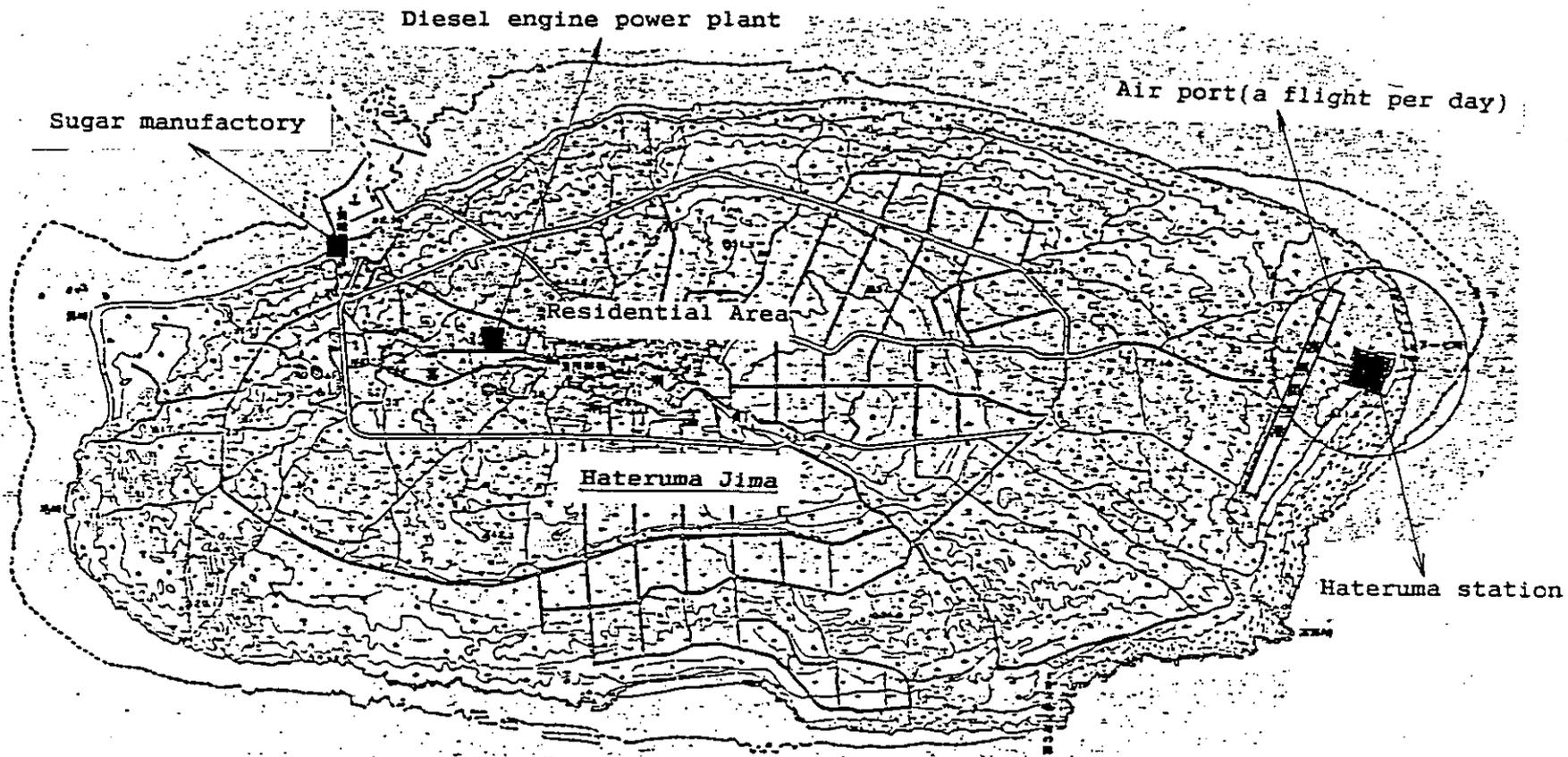
May - November



December - April



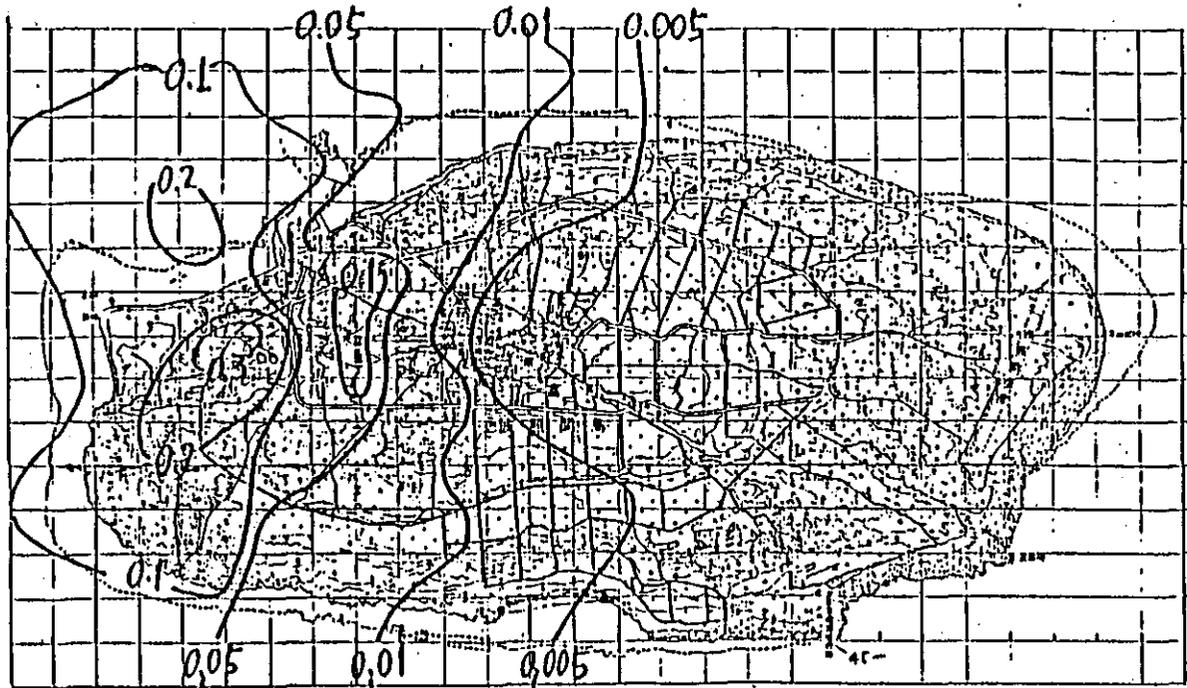
Wind rose of Hateruma island
(Takeuchi, Y., 1991)



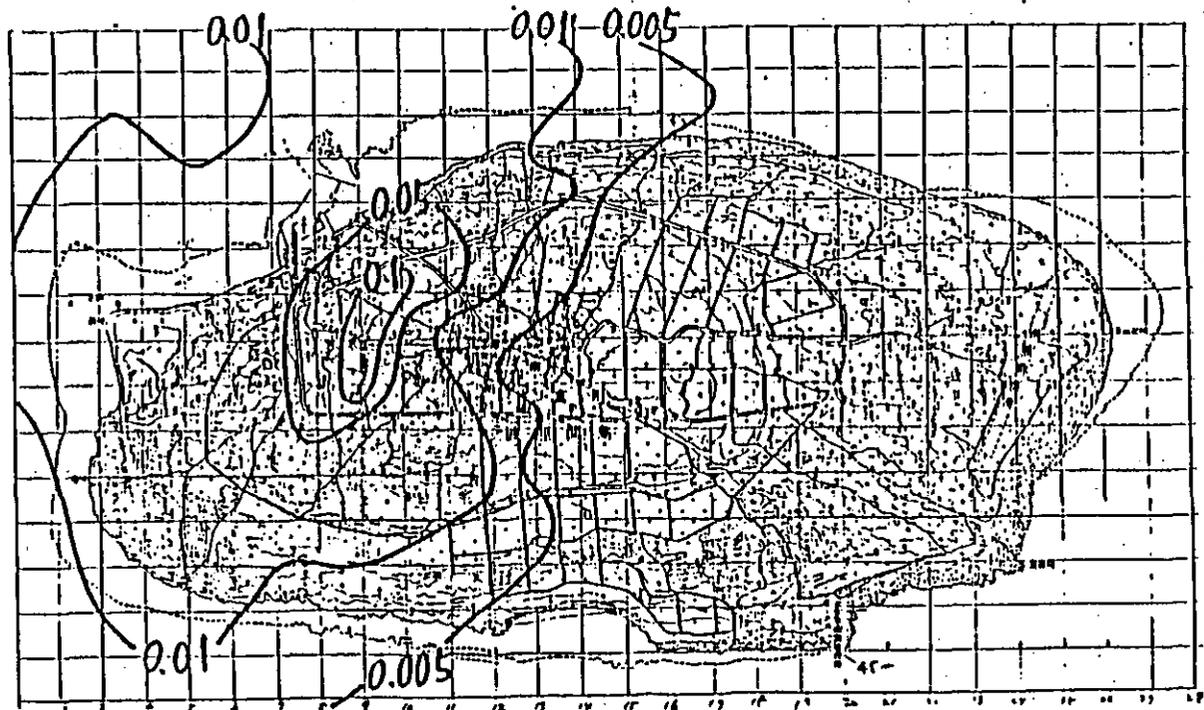
Hateruma island have

- | | |
|--------------|----------------------|
| Figure: | oval |
| | east-west: 6 Km |
| | north-south: 3 Km |
| Population: | 650 |
| Agriculture: | sugar cane |
| Factory: | a sugar factory |
| Energy: | a diesel power plant |

December - April



May - November

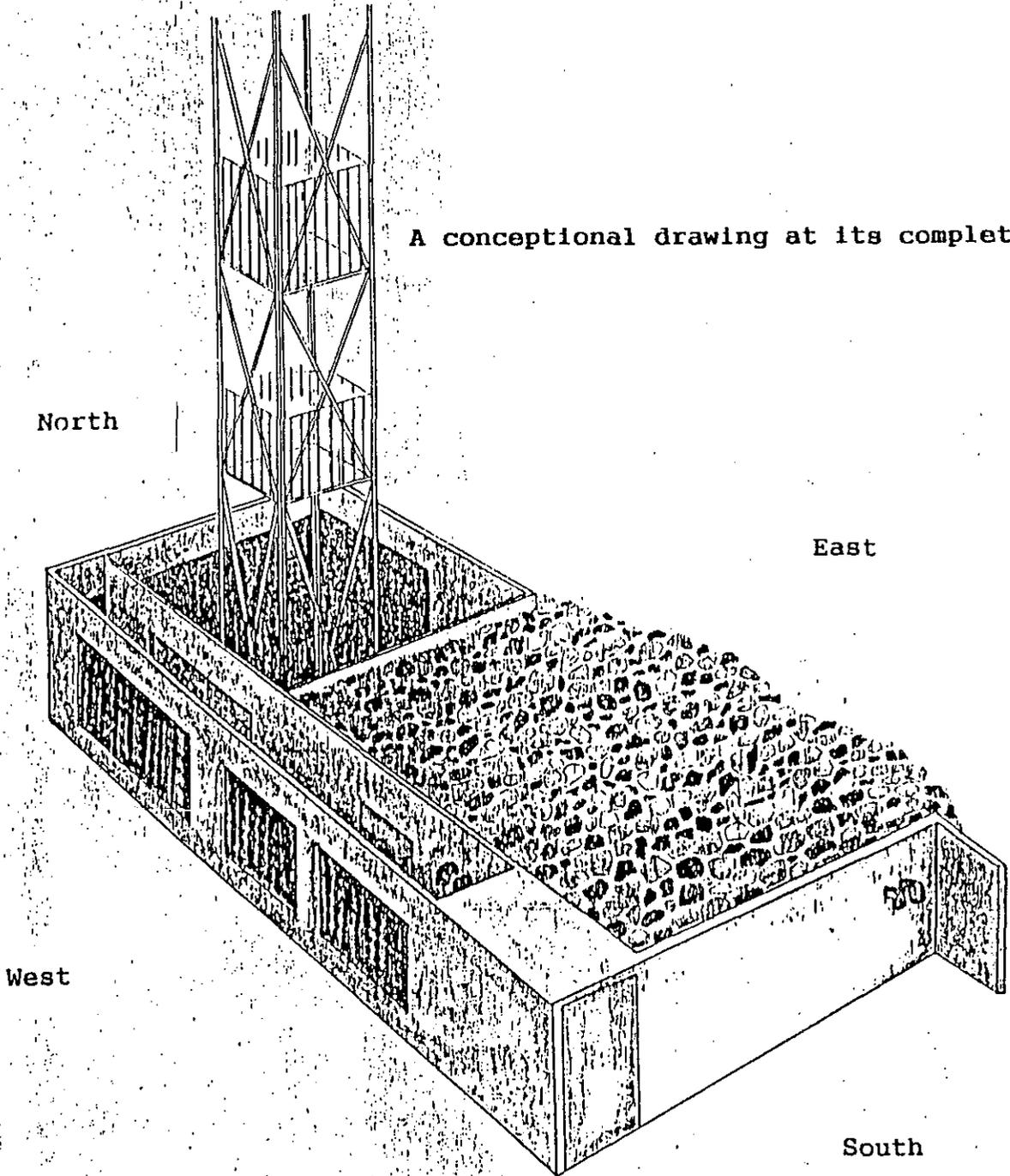


0 1 2 km

Contour of the CO₂ increase caused by the sugar factory and the power plant

Tower (40m height above ground)

A conceptual drawing at its completion



The plan of the measurement

Species	Instrument(Method)	Date of start
CO2	Horiba(NDIR)	1992/7
CH4	HP5890 GC(FID)	1992/10
Rn		1992/10
Surface O3	Thermoelectron(UV)	1992/7
Particle(5,0.3 μ m)	TSI	1992/7
Irradiance Global	OGASAWARA F-MS-42	1992/7
Temperature(dry) 40, 10, 1.5m	OGASAWARA(crystal)	1992/7
Wind speed(40m)	OGASAWARA(wind vane)	1992/7
Wind direction(40m)	OGASAWARA(wind vane)	1992/7
Pressure	OGASAWARA(bellows)	1992/7
SPM	HVS(IC)	1992/10

The outline of a plan in the (near) future

Species	Instrument(Method)
N2O	GC(ECD)
CFC	GC(ECD)
CO and H2	GC(HgO reduction)
PAN	GC(ECD)
VOC	Thermal desorption Cold Trap injector, GC (ECD, FID)
Isotope of CO2 and CH4	