## **BRIEF INTRODUCTION** to software package **WINDOBSON**

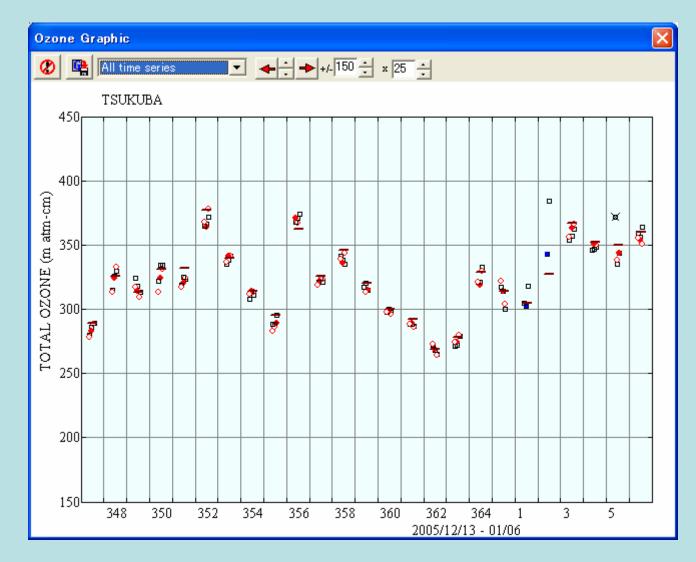
*WINDOBSON* is a unique software package for operations, data analysis and quality assurance of Dobson spectrophotometer observations. It is applicable for both Total ozone and Umkehr measurements.

*WINDOBSON* was developed by *Mr. Koji Miyagawa*, a Dobson expert of the Aerological Observatory, JMA, based on Observatory's long experience of operational use of Dobson instruments.

The unique function and usefulness of *WINDOBSON* is introduced briefly in the following pages.

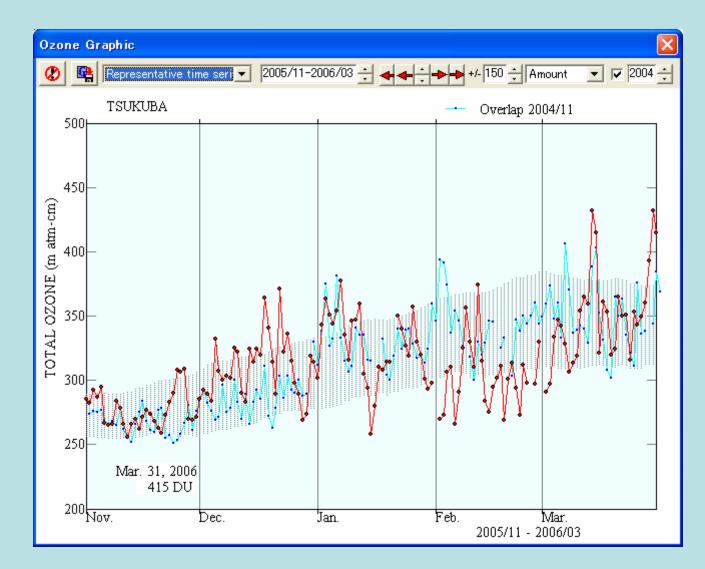
otal Ozone proc	essing: main pa	ge		
Total Ozone Observation				
<u>File Modify Graph H</u> elp				
🖉 🖬 🖳 📇 🖉 🎜 🖄	🖹 Zs 🖹 In PM2		May 4, 2006	
Direct Sun Wavelength Pair A-D	Zenith Sky Wavelength Pair A-D	<u>Informa</u>	<u>tion</u>	
Wavelength Pair A-D Kind of Observation 0 Clear	Wavelength Pair A-D Kind of Observation 2 Blue Sky	Station Name	TSUKUBA	
		Inst. Number	BECK125	
temp 23.9 Qa 49.0 Qd 106.0	temp 24.0 Qa 49.0 Qd 106.0	Parameter File	PARA0511.125	
# TIME RA RD	# TIME RA RD	Humidity	5 %	
41 16:28:30 221.7   42 16:29:00 86.0	46 16:33:30 188.4 47 16:34:00 53.8	Distance	30 km	
43 16:29:30 223.2	48 16:34:30 189.2	Weather	Clear	
44 16:30:00 86.5	49 16:35:00 54.1	Amount	0+	
45 16:30:30 224.5	50 16:35:30 190.1	Sun Cloud	Modify	<u> </u>
ave 16:29:30 223.1 86.3	ave 16:34:30 189.2 54.0	Zenith Cloud	Direct Sun	
N value 205.0 65.1	N value 167.4 31.8	Middle Cloud	0+Cl 0 Clear	•
dN0 -0.1	dN0 -0.1			_
Na-Nd 139.9	Na-Nd 135.6		0+C TIME 16:29:30 ÷	الله Cut
Mue 2.547	Mue 2.654	Remark	RA1 221.7	unit up/down-
Total Ozone 377 m atm-cm	Total Ozone <b>376</b> m atm-cm		RA2 223.2 RA3 224.5	
🗊 🖾 👘 Routine	🗊 💩 👘 Routine		RD1 86.0	01 🛔
		1	RD2 86.5	○ 10
¥WinDobson¥Data_summary	:d ***			
2006/05/10 13:25:48 TSUKUBA				🗙 <u>C</u> ancel
	urement results,	edit da	ta, print, a	and

save the relevant information.

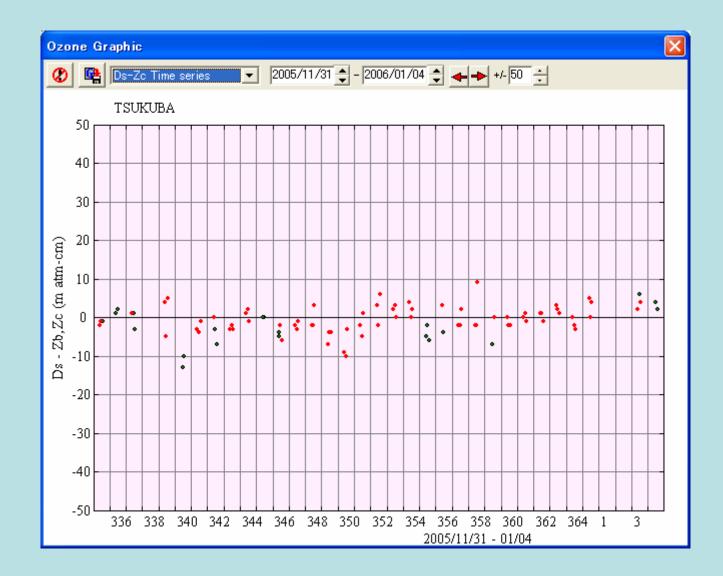


All daily measurement data are displayed in time series.

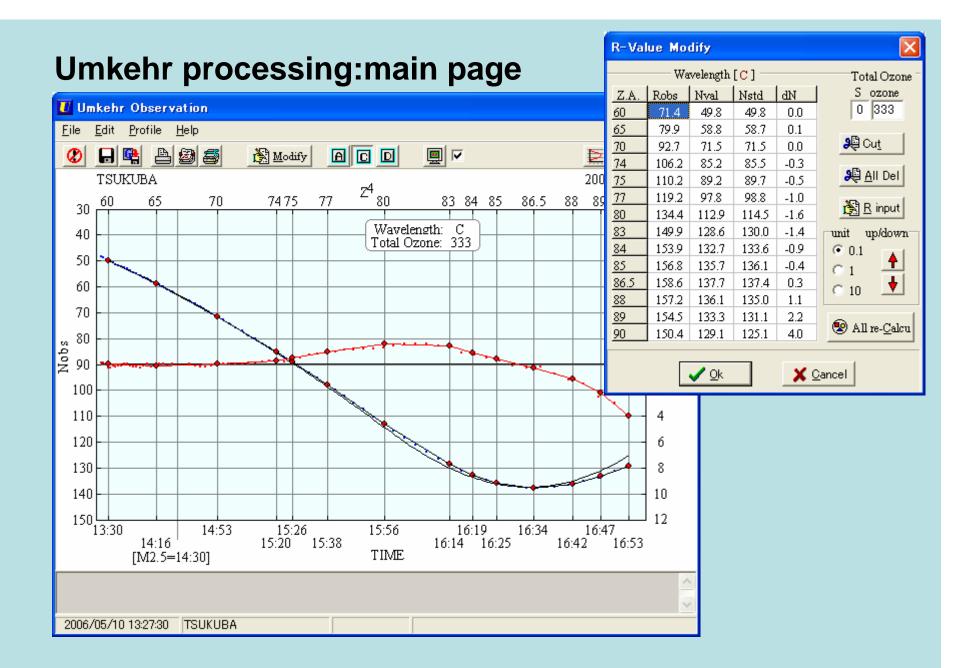
DS, ZS, daily representative data, and satellite data are shown by respective symbols.



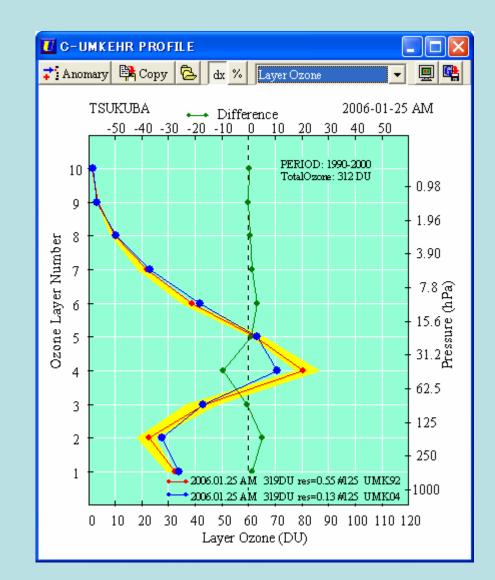
Submitted data to WOUDC can be easily displayed in time series with other reference data.



Deviation of results by Direct Sun (DS) and Zenith Sky (ZS) measurements.



Measured values are compared with reference data for standard N value that corresponds to measured total ozone values.



Ozone profile is easily calculated from the former main page for umkehr data. Profile can be derived through both algorithm (UMK92 and UMK04).