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% set zero values to nan
for i = 1:65
    prc.(i)(prc.(i) == 0) = nan;
end

% find all satellites for which a PRC was calculated
sats = [];
for i = 2:2:65
    if any(prc.(i))
        sats = [sats i];
    end
end

% plot each PRC in its own plot
figure('Name', 'Single')
for i = 1:length(sats)
    subplot(4, 3, i)
    plot([prc.(sats(i)) prc.(sats(i)+1)]);
    title('Sat ' + string(sats(i)/2))
    legend('Raw', 'Filtered')
end

legndtxt = cell(length(sats), 1);
for i = 1:length(sats)
    legndtxt{i} = 'Sat ' + string(sats(i)/2);
end

% plot all unfiltered PRCs
figure('Name', 'All Unfiltered')
hold on
for i = 1:length(sats)
    plot(prc.(sats(i)));
end
hold off
title('Pseudorange Corrections Unfiltered')
xlabel('Time [s]')
ylabel('Pseudorange Correction [m]')
legend(legndtxt, 'Location', 'southwest')

% plot all filtered PRCs
figure('Name', 'All Filtered')
hold on
for i = 1:length(sats)
    plot(prc.(sats(i)+1));
end
hold off
title('Pseudorange Corrections with Moving Average Filter of Order 10')
xlabel('Time [s]')
ylabel('Pseudorange Correction [m]')
legend(legndtxt, 'Location', 'southwest')

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